

CONFIGURATION GUIDE

# IntelliVue Patient Monitor

# MX800 MP2/5/20/30/40/50/60/70/80/90 MP5T/MP5SC/X2 Cableless Measurements Rev. A

For monitor release H.0 with software revision H.0x.xx

**Patient Monitoring** 



Philips Medizin Systeme Boeblingen GmbH Hewlett-Packard Str. 2 71034 Boeblingen Germany

© Copyright 2002-2010 Koninklijke Philips Electronics N.V. All Rights Reserved

Part Number 4535 642 29201 Printed in Germany 10/2010



# **Table Of Contents**

1	Understanding Configuration					
	Who is this Guide for?	5				
	Which Monitor Models is this Guide for?	5				
	What is Configuration Mode?	6				
	Who Can Change the Monitor Configuration?	6				
	Understanding Profiles and Settings	7				
	Entering and Leaving Configuration Mode	10				
	About the IntelliVue Support Tool	11				
2	Configuring Profiles and Settings Blocks	13				
	Getting Started	13				
	Modifying an Existing Profile	14				
	Modifying an Existing Settings Block	15				
	Creating New Profiles	15				
	Deleting a Settings Block or Profile	17				
	Renaming a Settings Block or Profile	17				
	Changing the Monitor's Default Profile	17				
	Unlocking a Settings Block or Profile	18				
	Configuring a Second / Third Main Display	18				
3	Configuring Screens	21				
	Understanding Screen Settings	21				
	Modifying an Existing Screen	22				
	Creating New Screens	22				
	Configuring Screens on an XDS Remote Display	22				
	Changing the Content of Screen Elements	23				
	Changing the Size and Position of Screen Elements	25				
	Configuring SmartKeys	25				
	Configuring Special Screen Settings	26				
4	Configuration Settings Appendix	29				
	About Configuration Settings	29				
	Profile Settings	32				
	Measurement Settings	33				
	Monitor Settings	95				
	Unique Monitor Settings	136				
	Global Settings	168				
	Hardware Settings	200				
	Monitor Database Configuration	206				
	H Option-Specific Settings	211				
	Release-Specific Information	212				

### 5 Screen & Profile Overview

About the Screen Configurations	215
Sample Screen Image (.bmp)	217
MX800 Configuration Overview	218
MP60/MP70/MP80/MP90 Configuration Overview	222
MP40/MP50 Configuration Overview	226
MP20/MP30 Configuration Overview	230
MP20 Junior & MP20L Configuration Overview	234
MP5 Configuration Overview	236
MP5T Configuration Overview	241
MP5SC and MP5#P05 Configuration Overview	242
MP2/X2 Configuration Overview	249
Screen Overview	250
MX800 Screen Overview	252
MP60/MP70/MP80/MP90 Screen Overview	257
MP40/MP50 Screen Overview	262
MP20/MP30 Screen Overview	267
MP20 Junior (M20) & MP20L (M21) Screen Overview	272
MP5 Screen Overview	273
MP2 Screen Overview	279
X2 Screen Overview	280
6 IntelliVue Cableless Measurements	281
Who is this Chapter for?	281
Which CL Device Models is this Chapter for?	281
Configuration of the IntelliVue Patient Monitor	281
Configuration of the IIC and Telemetry Devices	282
Profiles and Settings Implications for Cableless Pods	282
Entering and Leaving Configuration Mode	282
About the IntelliVue Support Tool	283
Configuring Profiles and Settings	284
7 Telemetry Device and CL Pods Use Models	291
Glossary of Terms	291
Telemetry Device Use Models	293
Cableless (CL Pod) Measurements Use Models	306

# **Understanding Configuration**

### Who is this Guide for?

This book is for anyone making permanent changes to the configuration of an IntelliVue Patient Monitor. You must understand English, be familiar with the monitor and its Instructions for Use, know how to make changes to measurements and settings in monitoring mode, and understand the clinical implications of any changes you make.

**WARNING** Before starting monitoring, check that the configuration meets your requirements, especially patient category, alarm limits and paced setting.

**WARNING** Changing the configuration may alter the way the monitor performs when monitoring patients. Do not change anything unless you are aware of the possible consequences, especially if you are monitoring a patient whilst in configuration mode.

### Which Monitor Models is this Guide for?

The descriptions and configuration settings in this configuration guide are valid for IntelliVue Patient Monitors MX800, MP80/90, MP60/70, MP40/50, MP20/30, MP5SC, MP5T, MP5, MP2, and the IntelliVue X2 Multi-Measurement Module (when used as a standalone monitor), release H.0 with software H.0x.xx.

This guide contains also configuration settings and descriptions for IntelliVue Cableless Measurement Devices, see "IntelliVue Cableless Measurements" on page 281. It also explains use models for telemetry devices and cableless measurements, see "Telemetry Device and CL Pods Use Models" on page 291

This guide cannot be used for other monitor models or IntelliVue monitors with other software releases.

Not all information contained in this guide applies to all monitor models. If a certain section applies only to certain models, this is indicated next to the section heading. For example, if a certain section does not apply to the MP2 and X2, or - in other words - only applies to monitor models MP5, MP20/ 30, MP40/50, MP60/70, MP80/90, and MX800 it would be indicated like this:

### MX800 <Section Heading>

MP5-90 only

### What is Configuration Mode?

The monitor ships with preset configurations that are suitable for common monitoring situations. To develop and store your own configurations you must switch to the monitors configuration mode. Configuration mode is a password-protected operating mode that lets expert users make permanent changes to the monitor configuration. It is an extension of monitoring mode; it contains all of the settings available in monitoring mode plus some settings that are accessible only in configuration mode.

	Setup	SpO <sub>2</sub>	
	High Limit	:	100
	Low Limit	:	90
	Desat Limit	:	80
For example, when you access the Setup	Alarms	:	On
$SpO_2$ menu in monitoring mode, you	SpO <sub>2</sub>	:	On
will only be able to see and change these	Pulse (Sp0 <sub>2</sub> )		
settings.	Label	:	SpO <sub>2</sub>
	Set Perf Ref.		
	QRS Volume	:	1
	<b>Tone Modulation</b>	:	Yes
	Tone Mod. Type	:	Enhanced
	Perfusion	:	On
	Average	:	10 sec
	High Alarm Delay	:	10 sec
In configuration mode, these additional	Low Alarm Delay	:	10 sec
settings become visible.	Desat Delay	:	20 sec
	NBP Alarm Suppr.	:	On
	Extd. Auto OnOff	:	Disabled
	Color	:	Cyan

In monitoring mode, you can change settings, but cannot permanently store the changes to the monitor configuration. In configuration mode, you can change and permanently store settings to the monitor configuration.

# Who Can Change the Monitor Configuration?

Only people authorized to do so by their institution should make changes in configuration mode. They require the configuration mode password.

### **Understanding Profiles and Settings**

The IntelliVue patient monitor is highly configurable. To manage its various settings, settings are grouped into six main categories:

- Profiles
- Screens
- Monitor settings
- Measurement settings
- Global settings
- Hardware settings

All settings except hardware settings can be changed in configuration mode. Hardware settings can be changed in service mode only (with some exceptions).

#### Profiles

Profiles are named combinations of the following "building blocks":

- Patient category
- Paced status
- (Display) Screen
- Measurement Settings block
- Monitor Settings block.

A monitor can have up to 20 different Profiles. When you load a Profile, the configured combination

of building blocks becomes active. This provides a powerful method to easily adapt the

monitor to specific clinical scenarios or users, or

Profiles					
Profile	:	Profile Adult			
Patient Category	:	Adult			
Paced	:	Yes			
Display	:	6 Waves A			
Measmnt. Settings	:	Measmt. Adult			
Monitor Settings	:	Monitor A			

switch back and forth between different configurations depending on specific phases within a case.

Consider this example: You are in the ER. Your monitor is configured for an adult patient. Your next patient is a 5-year old child. By switching to a predefined pediatric ER Profile, you can have appropriate measurement settings (such as alarm limits), patient category and so forth very easily, instead of having to alter measurements and limits individually. In this example, your monitor's Profiles can be based on the age and condition of your patient, but there are of course other use models.



This graphic illustrates the concept of Profiles and their building blocks in the IntelliVue Patient Monitor.

Notice that settings blocks and screens are only **linked** to a Profile. This indicates that storing a changed Profile saves the combination of building blocks, but not individual monitor settings, measurement settings, or Screens. Changes that you have made to measurement or monitor settings, or screens can only be stored in the appropriate type of settings block or Screen. For details, see "Modifying an Existing Settings Block" on page 15.

#### **Patient Category**

For each profile, a patient category is defined. This patient category becomes active when you load the Profile. It determines

- the algorithm the monitor uses to process and calculate some measurements (for example arrhythmia),
- the safety limits that apply for some measurements (for example NBP), and
- the alarm limit ranges for all measurements.

Note that a change of the patient category does not change any alarm limits to fit this category.

#### Paced

For each profile, the paced status is defined. The defined paced status becomes active when you load the Profile. The paced setting determines whether the monitor shows pacemaker pulses or not. When **Paced** is set to **No**, pace pulses are filtered and therefore do not show in the ECG wave. For paced patients, **Paced** must be set to **Yes**.

#### **Display Screens**

A Screen defines the overall selection, size and position of measurement waves, numerics and SmartKeys on the monitor display. A monitor can have a maximum of 20 preconfigured Screens, optimized for common monitoring scenarios. Examples of different Screens include the **Big Numerics**, the **12lead ECG**, and the **Horizon** Screen. For a complete list of Screens supplied with your monitor model, see the section "Screen Overview" on page 250.

For each Profile, a Screen is defined. This Screen becomes the active Screen when you load the Profile. If you are using two or three main displays, for each main display a different Screen can be configured.

#### Measurement Settings

Measurement settings are settings specific to each measurement, for example alarm limits, measurement color, or measurement unit. For a complete list of measurement settings, see the section "Measurement Settings" on page 33.

A monitor can have a maximum of 10 blocks of measurement settings. Each block includes the complete list of measurement settings available. You can configure individual measurement settings differently for each settings block. By configuring different settings blocks, you can provide customized combinations of measurement settings for different profiles.

A typical example are the measurement settings blocks provided in the factory default configurations (documented in this guide). The measurement settings blocks **Measmt**. Adult, and **Measmt**. **Pedi**, for example, differ mainly by the alarm limits which are configured differently for different patient ages. When you switch to a different Profile, for example from **Profile Adult** to **Profile Pedi**, the measurement settings block defined for that Profile becomes active.

### **Monitor Settings**

Monitor settings define general aspects of how the monitor works, and include settings that affect more than one measurement, such as alarm volume, report settings, or display brightness. For a complete list of monitor settings, see the section "Monitor Settings" on page 95.

A monitor can have a maximum of 10 blocks of monitor settings. Each block includes the complete list of monitor settings available. You can configure individual monitor settings differently for each settings block. By configuring different settings blocks, you can provide customized combinations of monitor settings for different profiles.

For example, you could generate a monitor settings block, in which the monitor's display brightness is lowered and the alarm volume is softened, and call it "Night". When you then assign this block to a new Profile and name it accordingly, for example "Profile Night", you can easily switch between day and night settings.

#### **Global Settings**

Global settings are typically set once at monitor installation by service personnel and include settings such as **Altitude**, **Line Frequency**, or **Label Set**. Global settings are not part of a Profile. They can be changed in configuration mode only and are automatically stored in the monitor's configuration with each change. For a complete list of Global Settings, see the section "Global Settings" on page 168.

#### Hardware Settings

Most hardware settings can only be changed in service mode. They are typically set once at monitor installation by service personnel, and include settings, such as **Keyboard** layout, the configuration of the monitor interfaces, or video settings, such as **Display Type**, **Display Size**, and **Display** 

**Resolution**. Like global settings, hardware settings are independent of Profiles, and any changes you make to the hardware settings configuration are automatically stored, there is no need to save them in an extra step. For a complete list of Hardware Settings, see the section "Hardware Settings" on page 200, or refer to the Service Guide of your monitor model, provided on the Documentation DVD supplied with your monitor.

### **Profiles and Settings Implications for Companion Mode**

The IntelliVue X2 or MP5 can be connected to an IntelliVue MP20 to MP90 patient monitor, where it acts as a multi-measurement module, acquiring measurements for the host monitor. When connected to a host monitor, the host controls the connected device.

When an X2 or MP5 is connected to a host monitor (Companion Mode is indicated):

- Profiles and Settings from the host monitor are applied to the X2 or MP5 on connection (with the exception of a few alarm related settings). When disconnected from the host, the X2 or MP5 applies its own Profiles and Settings.
- The X2 or MP5 will keep its Profiles and Settings if you change the Profiles or Settings of the host monitor in Configuration Mode or with the Support Tool.
- If you want to change the Profiles or Settings of an X2 or MP5 directly on the monitor, you must leave Companion Mode. If you want to change them with the Support Tool, you must select the X2 or MP5 in the Device view of the Support Tool window. Then apply your changes directly to their configurations.

### **Entering and Leaving Configuration Mode**

Switching between monitoring and configuration mode does not affect the active settings. You can even continue to monitor patients while in configuration mode. The password for configuration mode is given in the monitor's service documentation.

To enter configuration mode:

- 1 In the Main Setup menu, select Operating Modes.
- 2 Select **Config** and enter the password.

The monitor displays **Config** at the right hand side of the status line and in the center of the Screen while you are in configuration mode.

Before you leave configuration mode, always be sure to store any changes you made. You must store changes made to each Settings Block and to each Profile, individually. As it may be difficult to remember whether the settings you changed belong to a Monitor Settings block or a Measurement Settings block, we recommend that you store each block before you leave configuration mode.

**WARNING** If you are handing over the monitor to the end-users directly after configuration, make sure that it is in Monitoring mode.

To leave configuration mode either:

- In the Main Setup menu, select Operating Modes and then select the operating mode you require or
- Switch the monitor off, then switch it on again.

- If you switch the monitor off and then on again after less than one minute, it returns in monitoring mode with the same settings ("hotstart").
- If you leave the monitor switched off for more than one minute, the Profiles and settings loaded when you switch back on are determined by the Automat. Default setting. See "Global Settings" on page 168.

### About the IntelliVue Support Tool

The IntelliVue Support Tool is a PC-based software application that is designed to help configuring IntelliVue monitors and to manage IntelliVue Monitor configurations.

Using the Support Tool, you can, for example, read in (clone) a configuration from an IntelliVue monitor to a PC, modify this configuration offline on the PC, and then store (clone) the changed version back to the monitor. With the Support Tool you can clone configurations to more than one monitor at a time. You can also use the Support Tool to make backups of your configurations, or generate configuration reports. The configuration files generated by the Support Tool are stored in a format that can be e-mailed.

### What Can I Configure with the Support Tool?

You can configure everything you can configure on the monitor, **except** that you cannot change individual monitor and measurement settings.

In addition to the configuration on the monitor, the Support Tool allows, for example:

- Changing the order of items in the lists of Screens, measurement or monitor settings blocks.
- · Unlocking Profiles, Screens and settings blocks.
- Making realtime waves, or screen trends overlap on the Screen.
- Importing Screens into a configuration, and copying Screens between configurations.
- Importing SmartKey configurations into a configuration.
- Copying monitor settings, measurement settings, and global settings between config files.
- Importing, creating and modifying drug calculator configurations.
- Importing, creating and modifying Guardian Early Warning Scoring protocols.

For a complete description of the Support Tool functionality, refer to the Support Tool Instructions for Use, provided with the Support Tool.

#### How Can I Get a Support Tool License Key?

To use the Support Tool, you must have a license key. To get a license key, you must complete a special training. Please contact your local Philips Customer Response Center for further details.

The Support Tool functionality your license key permits you to use, depends on your function (e.g. Biomed / CE / Configuration Expert) and your level of training.

License keys are issued to individuals and they **may not be shared**. The Support Tool tracks the use of each license key: you will be held responsible for any configuration changes made using your license key.

# Configuring Profiles and Settings Blocks

# **Getting Started**

To start configuring your monitor, access Profiles by selecting either:

- the **Profiles** screen element from the monitor's Info Line, or
- the Profiles SmartKey 🔼 , or
- Profiles from the Main Setup menu.

The configuration pop-up keys will appear to let you carry out configuration tasks.

### Using the Configuration Pop-up Keys

In configuration mode, the pop-up keys allow you to:



Select the **Confirm** pop-up key to apply your changes.

### **Modifying an Existing Profile**

You can change the settings within an existing Profile. The monitor remembers any changes made when you switch between monitoring mode and configuration mode. All changes can be permanently stored in configuration mode, as described in the following sections.

Be aware that if you don't store changes they will be reset to the monitor's stored configuration when you

- change from configuration or monitoring mode to service or demonstration mode,
- · load Profiles or Settings Blocks, or
- switch off the monitor for more than one minute (if the Global Setting Automat. Default is set to Yes).

#### Changing the Combination of Settings Blocks in an Existing Profile

To permanently save a different combination of settings blocks into an existing Profile:

- 1 Select the Profile you want to change and select the **Load** pop-up key to activate it.
- 2 Change the patient category and paced status if necessary.
- 3 Load the settings blocks you want to have into the activated Profile one after the other by selecting them in the Profiles menu and then selecting the **Load** pop-up key. These settings become active immediately in the monitor, but the asterisk beside the Profile name in the Profiles menu shows that the newly loaded blocks are not yet stored as part of the Profile.
- 4 Select the Profile again.
- 5 Select the **Store** pop-up key.

This example shows the changing of a Profile. The existing Profile 1 was built from a combination of Screen A + Monitor Settings Block A + Measurement Settings Block A.

The **new Profile 2** is built from a combination of Screen B + Monitor Settings Block D + Measurement Settings Block C. This is now the active Profile, because it is loaded into the monitor's active memory.



### **Modifying an Existing Settings Block**

To change settings in an existing settings block:

- 1 Select the settings block you want to change and select the Load pop-up key to activate it.
- 2 Make the changes to the individual measurements or monitor settings.
- 3 Select the **Store** pop-up key to overwrite the existing settings. Changes to a settings block affect all Profiles in which this block is used.

### **Creating New Profiles**

Follow these steps to create a new Profile **ICU B** based on the Profile **ICU A** and add it to the list of Profiles stored in the monitor. As creating a Profile requires you to activate different settings, you should not do this while monitoring a patient. Each new name you assign to Profiles or Settings Blocks must be unique, otherwise you have two items with the same name and you will not be able to distinguish them.

#### **Existing Profile:**

Profile to be created:

Pi	rofile	S	Profiles				
Profile	:	ICU A	Profile	:	ICU B		
Patient Category	:	Adult	Patient Category	:	Pedi		
Paced	:	No	Paced	:	No		
Display	:	6 Waves A	Display	:	6 Waves B		
Measmnt. Settings	:	Measmt. A	Measmnt. Settings	:	Measmt. B		
Monitor Settings	:	Monitor A	Monitor Settings	:	Monitor B		

- 1 Choose a Profile similar to the one you want to create from the list of Profiles available in the monitor. To preview the combination of settings blocks contained in any Profile, in the **Profiles** menu, select that Profile from the list. The **Profiles** menu (which is grayed-out) changes to indicate the contents of the selected Profile. To view the settings blocks of the active Profile, select **Current**.
- 2 Select Load to activate this Profile.
- 3 Create a new Profile that references the same settings as the active Profile:
  - a. In the **Profiles** menu, select **Profile**.
  - b. Select the pop-up key New.
  - c. Use the on-screen keyboard to type a meaningful name for the new Profile, in this case **ICU B**. If you do not name the Profile, the monitor will assign a default name. You can rename the Profile later.
  - d. Select Enter.
  - e. Select **Load** to activate the new Profile.
- 4 Create new settings blocks for the new Profile.
  - a. In the Profiles menu, select Monitor Settings.
  - b. Select the pop-up key New.

- c. Use the on-screen keyboard to type the name of the new settings block, in this case **Monitor B**. If you do not name the Settings Block, the monitor will assign a default name. You can rename the Settings Block later.
- d. Select **Enter**. You have now created a new settings block containing the same monitor settings as the block **Monitor A**.
- e. Repeat this procedure to create a new measurement settings block.

You have now prepared the structure of the Profile you are creating.

- 5 Select the required **Patient Category** for the new Profile. In the Profiles menu, select either **Adult**, **Pedi**, or **Neo**, or select **As Is** to retain the patient category active at the time this Profile is activated. Note that if you configure **Patient Category** in the default Profile to **As Is**, the monitor starts after a coldstart with **Patient Category** set to **Neo**. A coldstart will be caused, for example, after changing the monitor's database configuration, see "Monitor Database Configuration" on page 206.
- 6 Select the required **Paced** mode for the new Profile. In the Profiles menu, select **Yes** for paced patients, **No** for non-paced patients, or **As Is** to retain the paced status active at the time this Profile is activated. Note that if you configure **Paced** in the default Profile to **As Is**, the monitor starts after a coldstart with **Paced** set to **Yes**. A coldstart will be caused, for example, after changing the monitor's database configuration, see "Monitor Database Configuration" on page 206.
- 7 Select a Screen for the new Profile.
  - a. In the Profiles menu, select Display
  - b. Select the Screen you require from the pop-up list of available Screens.
  - c. Select Load to confirm your choice.
  - d. If the monitor has more than one main display, repeat these steps for the additional displays.
- **NOTE** If you are using an XDS Remote Display as second or third main display, the default Screen for this display must be configured in the XDS Application software. It cannot be stored as part of the Profile configuration of the IntelliVue monitor. For more detail, refer to the Installation and Configuration Guide for the XDS Application.
  - 8 Adjust monitor and measurement settings as required.
  - 9 Store the changed settings to the settings blocks. In the Profiles menu, select Measmnt. Settings, and then select Store and then Confirm to apply your changes. Repeat this for Monitor Settings. There is no undo function.
  - 10 Store the finished Profile. In the **Profiles** menu, select **Profile** and then select **Store** and then **Confirm** to apply your changes. There is no undo function.
- **CAUTCN** When changing settings, you are strongly advised to create new settings blocks, rather than storing changes to the existing ones. Similarly, when changing a Profile, you are strongly advised to create a new Profile, rather than storing changes to an existing one. Once you store changes to a settings block or Profile, there is no way to undo these changes, unless you have saved a backup using the Support Tool. Settings blocks may be used in more than one Profile. If you edit a settings block it will change in the other Profiles in which it is used.

### **Deleting a Settings Block or Profile**

You cannot delete a locked settings block, or one that is used in any Profile. You must remove it from the Profile or delete the Profile first.

- 1 From the **Profiles** menu, select the block or Profile you want to delete.
- 2 Select the **Delete** pop-up key.

### **Renaming a Settings Block or Profile**

If you rename a settings block that is used in other Profiles, the name changes in the other Profiles too.

- 1 From the **Profiles** menu, select the block or Profile you want to rename.
- 2 Select Rename.
- 3 Use the on-screen keyboard to type the new name, then select **Enter** to apply the change.

### Changing the Monitor's Default Profile

Every monitor has one default Profile. This is marked with a black diamond. The monitor loads the default Profile:

- when returning to monitoring mode after leaving demonstration Mode (but not after leaving configuration or service mode).
- after discharging a patient.
- after being switched off for more than 60 seconds (only if **Automat. Default** is set to **Yes**).



To change the default Profile:

- 1 In the **Profiles** menu, select the Profile you want to set as default.
- 2 From the pop-up keys select **Set Default**. The "default diamond" jumps to this Profile to indicate that it is now this monitor's default Profile. This setting takes effect immediately, you do not have to switch the monitor off and on again.

### **Unlocking a Settings Block or Profile**



Profiles and settings blocks can be locked to prevent them from being modified or deleted. This ensures that a minimum configuration is always available. A locked Profile or settings block is identified (in configuration mode only) by a lock symbol.

You cannot unlock Profiles or settings blocks in the monitor's configuration mode. To lock or unlock Profiles or settings blocks you need to use the IntelliVue Support Tool.

## Configuring a Second / Third Main Display

To distinguish between individual main displays, the displays are numbered on the Screen. The number is shown next to the Screen Name field.



#### A second main display can be used with

- an MX800 with Independent Display Interface, or MP90 with a Dual CPU, or
- an MX800, MP2/X2, MP5, MP60/70, MP80, MP90 with a single CPU, when using an XDS Remote Display as the second display.

**Display 1** is always the built-in display, or the display connected to the first CPU of the Dual CPU MP90 monitor.

**Display 2** is the display connected:

- to the Independent Display Interface of the MX800
- to the second CPU of the Dual CPU of the MP90 monitor
- to the XDS Remote Display.

Profiles						
Profile	:	ICU B				
Patient Category	:	Adult				
Paced	:	Yes				
Display 1	:	6 Waves B				
Display 2	:	12 Lead ECG				
Measmnt. Settings	:	Measmt. B				
Monitor Settings	:	Monitor B				

#### A third main display can be used with

• a D80 Intelligent Display connected to a Dual CPU MP90 monitor, or

• an MX800 with Independent Display Interface or MP90 with a Dual CPU, when using an XDS Remote Display as the third display.

**Display 1** is always the built-in display of the MX800, or the display connected to the first CPU of the MP90 monitor.

Display 2 is the:

- display connected to the Independent Display Interface of the MX800
- display connected to the second CPU of the MP90
- Otherwise, it is the XDS Remote Display.

**Display** 3 is the display connected to either the D80 or the XDS Remote Display.

Profiles					
Profile	:	ICU B			
Patient Category	:	Adult			
Paced	:	Yes			
Display 1	:	6 Waves B			
Display 2	:	12 Lead ECG			
Display 3	:	<b>Big Numerics</b>			
Measmnt. Settings	:	Measmt. B			
Monitor Settings	:	Monitor B			

### Loading a Screen on a Second / Third Display

To load a Screen onto the second or third main display,

- on the second/third display, enter the **Change Screen** menu and select a Screen from the list of available Screens, or
- on any display, enter the **Profiles** menu, select **Display 2** (or **Display 3**) and select a Screen from the list of available Screens (not possible on the main display of MP2 and X2 monitors).
- **NOTE** If you are using an IntelliVue monitor with the XDS Remote Display as either the second or third display, the selection of Screens available for the XDS Remote Display can be different from the Screen selection for the other displays.

### Changing Elements on a Second / Third Display

To change elements on the second or third main display:

- 1 Load the Screen that you want to modify onto the second/third display.
- 2 Make the required changes to the Screen.
- 3 Store the Screen. To do this, enter the monitor's configuration mode, select Profiles -> Display 2 (or Display 3), then select the Store pop-up key.
- **NOTE** Any change to a Screen will mark that Screen modified. In the **Change Screen** menu, the modified Screen is shown linked to the original Screen and marked with an asterisk (\*).

If you load the same Screen onto more than one display, then modify them differently, and then store one of the Screens, the modified Screen on the other displays will still be available. The stored Screen will be available on all displays except on the XDS Remote Display.

Changes made to a Screen viewed on an XDS Remote Display will be stored on the PC connected to the XDS Remote Display and will not be part of the monitor configuration, see "Configuring Screens on an XDS Remote Display" on page 22.

# **Configuring Screens**

During monitoring, you can change the content of most of the Screen elements, for example you can exchange a Resp wave for a Pressure wave. These changes can be permanently stored as part of the Screen settings in configuration mode.

You can also use the IntelliVue Support Tool to configure Screens offline on a personal computer and then upload them as part of a configuration file to one or more patient monitors. To use the IntelliVue Support Tool for Screen configuration, you must have a support tool and a support tool license key that entitles you to use the Screen configuration functionality. See "About the IntelliVue Support Tool" on page 11 and the Support Tool Instructions for Use.

### **Understanding Screen Settings**

Screen settings are stored in the Screen. Changing a Screen setting modifies the Screen. This is indicated by an asterisk (\*) in front of the Screen name. In the Change Screen menu, modified Screens are shown linked to their parent Screens.



Screen settings include:

- the basic layout of a Screen, i.e. the selection, size, and position of any Screen element visible on the Screen. The Screen layout cannot be modified in the monitor's configuration mode.
- the content of each Screen element, i.e. the information displayed in each Screen element.
- the selection and sequence of SmartKeys available on a Screen.

• special settings that determine the behavior of certain Screen elements, such as Screen trends, realtime waves, embedded trend windows, or embedded Other Bed Overview windows.

# **Modifying an Existing Screen**

To change an existing Screen:

- 1 Load the Screen and make the changes to the Screen.
- 2 In configuration mode, select **Profiles** -> **Display** (or **Display** 2, or **Display** 3).
- 3 In the list of Screens, the modified Screen is shown linked to the original Screen and marked with an asterisk (\*). Select the **Store** pop-up key to overwrite the existing Screen. Changes to the Screen affect all Profiles in which this Screen is used.
- **NOTE** Changes made to a Screen viewed on an XDS Remote Display will be stored on the PC connected to the XDS Remote Display and will not be part of the monitor configuration, see "Configuring Screens on an XDS Remote Display" on page 22.

# **Creating New Screens**

- 1 Load a Screen similar to the one you want to create from the list of Screens available in the monitor.
- 2 Create a new Screen based on the active Screen:
  - a. In the **Profiles** menu, select **Display** (or **Display 2**, or **Display 3**).
  - b. Select the pop-up key New.
  - c. Use the on-screen keyboard to type a meaningful name for the new Screen. If you do not name the Screen, the monitor will assign a default name. You can rename it later.
  - d. Select Enter.
- 3 Change the content of the Screen as required.
- 4 Store the finished Screen:
  - a. In the **Profiles** menu, select **Display** (or **Display 2**, or **Display 3**).
  - b. Select the pop-up key **Store** and then **Confirm** to apply your changes. There is no undo function.
- **NOTE** Changes made to a Screen viewed on an XDS Remote Display will be stored on the PC connected to the XDS Remote Display and will not be part of the monitor configuration, see "Configuring Screens on an XDS Remote Display" on page 22.

## **Configuring Screens on an XDS Remote Display**

For certain IntelliVue monitor models, the XDS Remote Display (IntelliVue XDS solution) can be used as second or third main display.

When you make changes to a Screen that is viewed on an XDS Remote Display, be aware of the following implications:

• The changes are stored on the XDS Remote Display and not on the monitor.

- The changed Screen is not part of the monitor configuration and can therefore not be cloned to another monitor using the IntelliVue Support Tool.
- The changed Screen can be modified with the Screen Editor of the IntelliVue Support Tool.

For more details regarding the configuration of the XDS Remote Display, refer to the Installation and Configuration Guide for the XDS Application.

# **Changing the Content of Screen Elements**

### Changing the Content of a Wave Element

To change the content of a wave element on a Screen,

- 1 Select the wave you want to change.
- 2 From the wave menu that appears, select **Change Wave** and then select the wave you want to be displayed.

### **Changing the Content of a Numeric Element**

To change the content of a numeric element on a Screen,

- 1 Select the numeric you want to change. You can only change numerics that are not directly associated with (aligned to) a wave or a Screen Trend.
- 2 From the Setup menu that appears, select **Change Numeric** and then select the numeric you want to be displayed.

### **Changing the Content of a Screen Trend Element**

To change the content of a screen trend element on a Screen,

- 1 Select the screen trend you want to change. You can only change a Screen Trend that is not directly associated with (aligned to) a wave.
- 2 From the trend menu that appears, select **Change Trend** and then select the screen trend you want to be displayed.

### **Changing the Content of a High Resolution Trend Element**

**MX800** To change the content of a HiRes Trend element on a Screen,

MP5-90 only

- Select the HiRes Trend you want to change.
  From the menu that appears, select the HiRes trend you want to be displayed.
  - Depending on the H option (see "Understanding H and M Options" on page 31) and C option

Depending on the H option (see "Understanding H and M Options" on page 31) and C option of your monitor, the following parameters are available for selection:

	H10 / H40	H20	H30	Comments
btbHR	Х	Х	Х	These 4 parameters are included in the OxyCRG option
Any SpO <sub>2</sub>	Х	Х	Х	(C08)
Resp	Х	Х	Х	<b>MP5:</b> $tcpO_2$ not available.
tcpO <sub>2</sub>		Х		

	H10 / H40	H20	H30	Comments
Pulse	Х	Х	Х	MX800, MP20 -90 monitors only
Any Perf	Х	Х	Х	
tcpCO <sub>2</sub>	Х	Х		
CO <sub>2</sub>	Х	Х	Х	
ABP	Х	Х	Х	
РАР	Х		Х	
CVP	Х	Х	Х	
ICP	Х	Х	Х	
CPP	Х	Х	Х	
BIS	Х	Х	Х	
CCO	Х	Х	Х	
AWP	Х	Х	Х	
Any Agent			Х	
Delta SpO <sub>2</sub>		Х		
inO <sub>2</sub>	Х		Х	

### **Displaying Timers on the Main Screen**

**MX800** If you want to have a timer displayed on the Main Screen, you can substitute it for a numeric which is not directly associated with a wave or a Screen Trend.

- only To display a timer on the Main Screen,
  - 1 Select the numeric you want to substitute.
  - 2 Select Change Numeric.
  - 3 Select **Any Timer**. The monitor automatically uses the timer label with the highest priority that is not displayed on the Screen yet. See "Configuring Timers" on page 158.

Be aware of the following restrictions:

- If limited space is available, some elements displayed in the Timers window may not be displayed. The minimum information displayed is the elapsed or remaining time.
- The maximum number of timers that can be displayed on the Main Screen depends on your monitor model:
  - MX800, MP60-90: four timers
  - MP40-50: three timers
  - MP5/MP5T/MP5SC/MP20-30: two timers
  - MP2/X2: no timer
- Any timer label can only be used once per Screen.

#### Displaying a Clock on the Main Screen

- MX800 If you want to have a clock displayed on the Main Screen, you can substitute it for a numeric which is not directly associated with a wave or a Screen Trend.
  - only To display a clock on the Main Screen,

- 1 Select the numeric you want to substitute.
- 2 Select Change Numeric.
- 3 Select Clock.

Be aware of the following restrictions:

- Only one clock can be displayed per Screen
- If limited space is available, the label "Clock" may not be displayed. The minimum information displayed is the time.

#### Displaying a ProtocolWatch Status Indicator on the Main Screen

- MX800 If you want to have a ProtocolWatch status indicator displayed on the Main Screen, you can substitute it MP5-90 for a numeric which is not directly associated with a wave or a Screen Trend.
  - only To display a ProtocolWatch status indicator on the Main Screen,
    - 1 Select the numeric you want to substitute.
    - 2 Select Change Numeric.
    - 3 Select PW Status.

Only one ProtocolWatch status indicator can be displayed per Screen.

### **Changing the Size and Position of Screen Elements**

You cannot change the size and position of Screen elements. This is a configuration service that is provided, at a charge, by Philips, for monitors with option C20.

### **Configuring SmartKeys**

There are two ways to configure SmartKeys:

- Configuring a different list of SmartKeys for each Screen (not possible for MP2/X2)
- · Configuring a global list of SmartKeys that applies for all Screens

#### Configuring a Different List of SmartKeys for Each Screen

MX800 The selection and order of SmartKeys that are specific to a Screen are stored as part of the Screen, i.e. as a
 Screen setting. This can be configured on the monitor (in configuration mode) or by using the Support
 Tool Screen Editor. The following describes how to configure SmartKeys on the monitor. For a detailed

description on how to use the Support Tool Screen Editor, see the Support Tool Instructions for Use.

To change the selection of SmartKeys displayed,

- 1 Select **Main Screen**, then select the left double arrow key to scroll back one page of SmartKeys.
- 2 Select the SmartKeys to open a menu that lists all SmartKeys currently configured for that Screen. From the pop-up key line, select Add to open a second menu that contains all available SmartKeys.
- 3 From the second menu, select the desired SmartKey. This adds the new key to the bottom of the list of configured SmartKeys (on the left). The maximum number of SmartKeys per Screen is 30 for the MX800, MP60/70/80/90, and 24 for the MP40/50, MP20/30, and MP5.

To delete a SmartKey from the list of configured SmartKeys,

select it in the list, then select the pop-up key Delete.

To move a SmartKey to a different position,

Use the Sort Up and Sort Down pop-up keys. The number of SmartKeys visible at a time depends on the monitor's display resolution:

#### Configuring a Global List of SmartKeys for All Screens

The global list of SmartKeys is stored as a unique monitor setting in the monitor configuration. See the section "Configuring User Interface Settings - Keys" on page 162 for details on how to configure the global SmartKey list.

Individual SmartKey configurations for each Screen override the global SmartKey configuration. The global SmartKey list will therefore only be visible when you load a Screen that has no SmartKeys configured to it.

If you want to use the global SmartKeys for all Screens on a monitor, you must delete all individual SmartKeys from all Screens in the configuration.

### **Configuring Special Screen Settings**

### **Configuring the Wave Channel Speed**

To change this setting, select the measurement wave on the Screen to open the related Wave menu.

**Change Speed** This setting determines the wave speed of the related wave channel.

If set to Global, the speed of the wave channel follows the monitor setting Global Speed (or **RespiratorySpeed**, or **EEG Speed**) as described under "Configuring User Interface Settings" on page 126.

If set to any of the fixed speeds (6.25, 12.5, 25, 50 mm/sec), the speed of that wave channel follows its own distinct setting and is not affected by any changes of the Global Speed. The wave channel speed is independent of the wave (label) depicted in the channel. If you change the wave, the new wave will retain the set channel speed.

#### **Configuring Screen Trends**

To change the following settings, select the screen trend on the Screen to open the related Trend menu.

**Change TrendTime** This setting determines in a screen trend. If set to **Global**, the trend time in the screen trend channel follows the monitor setting **Screen Trend Time** as described under "Configuring Screen Trend Settings" on page 104. If set to any of the fixed times **(30min, 1h, 2h, 4h, 8h, 12h)**, the screen trend time follows its own distinct time setting and is not affected by any changes of the global **Screen Trend Time**.

**Change View** The screen trend presentation can be configured to **Tabular**, **Graphical**, **Horizon**, or **Histogram**. The **Tabular** view can only be used with aperiodic measurements, such as NBP, C.O., C.I., PAWP. If you configure the view of an NBP trend, for example, to **Tabular**, and during monitoring the user changes the trend to a periodic measurement, such as ABP, the view automatically switches to **Graphical**.

**ShowHorizon Trend** The horizon view is made up of 4 elements:

- 1 a horizon, drawn in white, as a reference baseline to help you visualize changes in the patient's condition.
- 2 a graphical trend, displaying patient data for the set TrendTime.
- 3 a trend indicator arrow, indicating how the patient trend has developed in the last ten minutes.
- 4 a deviation bar, showing how the currently measured value deviates from the stored baseline.

If you set **ShowHorizon Trend** to **Yes**, all 4 elements of the horizon view are shown. If you set it to **No**, the graphical trend information (2) is not displayed in the trend channel.

#### Configuring an Embedded Trend Window

To change the following settings, select the embedded Trend window on the Screen to open the related pop-up key line. Note that the following settings are Screen settings and therefore do not affect the behavior of the normal (not embedded) Vital Signs and Graph Trend windows.

**Select Interval** This setting defines the trend interval that will be used in the embedded trend window when the corresponding Screen (with the embedded trend window) is opened.

**Graph Trend / Vital Signs** This setting defines the view (Graphical Trends or Vital Signs table) of the embedded trend window when the corresponding Screen is opened. The view can be changed at any time.

**Select Group** This setting defines the trend group that is displayed in the embedded trend window when the corresponding Screen is opened.

The following setting applies for embedded **Graph Trend windows only**. To change the setting, select the embedded Graph Trend window on the Screen, then select one of the segments on the left side of the window to open the segment menu.

**No. of Segments** This setting defines the number of trend segments displayed in the embedded Graph Trends window when the Screen is opened.

#### Configuring an Embedded CSA Window

MX800 MP40-90

To change the following settings, select the embedded CSA window on the Screen to open the related pop-up key line. Note that the following settings are Screen settings and therefore do not affect the behavior of the normal (not embedded) CSA window

only behavior of the normal (not embedded) CSA window.

**On/Off SEF** defines whether the SEF trend line is displayed in the embedded CSA window when the corresponding Screen is loaded.

**On/Off MDF** defines whether the MDF trend line is displayed in the embedded CSA window when the corresponding Screen is loaded.

**On/Off PPF** defines whether the PPF trend line is displayed in the embedded CSA window when the corresponding Screen is loaded.

**Buffer** defines which of the three preconfigured buffers is used when the Screen with the embedded CSA window is loaded.

**On/Off Clipping** Set **Clipping** to **On** to improve the 3-D presentation of the embedded CSA and make it more "readable". When set to **On**, peaks in the spectral lines are artificially clipped at a certain height (see "CSA Window Configuration Implications" on page 113). If **Clipping** is **Off**, peaks can be displayed over the full window height which may result in a more cluttered presentation.



**Frequency Scale** defines the bandwidth displayed in the embedded CSA.

#### **Configuring an Embedded Other Bed Window**

**MX800** For Screens with an embedded Other Bed window, you can configure which bed is displayed in the Other **MP5-90** Bed window each time the Screen is loaded.

only To configure the embedded Other Bed window,

- 1 select the Other Bed window on the Screen
- 2 select the pop-up key **My Care Group**. This opens the Care Group menu where you can choose between the following settings:
  - Bed <xx> (Bed ID)

If you select a specific Bed ID, the monitor displays the associated bed every time the Screen is loaded. If this bed is unavailable, the message "No data from bed" is shown in the embedded window.

- Any Bed

Select **Any Bed** if you want the monitor to display the first bed shown in the care group list. If this bed is removed from the care group, the new first bed in the care group is automatically displayed. The setting **Any Bed** might be unavailable if it has been disabled for this Screen using the Support Tool.

#### - Blank (Factory Default)

This is the factory default setting used on the "Other Bed" Screen that is part of the Support Tool Screen library. If an embedded Other Bed window is configured to **Blank**, the window is empty when the Screen is loaded.

At any time during monitoring, the user can select the Other Bed window and temporarily change the current setting.

# Configuration Settings Appendix

## **About Configuration Settings**

The IntelliVue Patient Monitor is pre-configured with factory default settings when it is shipped. This section documents the factory default settings and lists the configuration implications that need to be considered when changing settings from their default.

The configuration implications are only provided in this guide. You must read this document before you modify monitor configurations.

The settings documented here are valid for IntelliVue Patient Monitors release F.0 with software F.0x.xx.

### **Documenting Monitor Configurations**

If you change settings from their default, this document will no longer reflect your configuration.

A Philips representative or trained biomedical engineer can generate a detailed report of the changed monitor configuration using the IntelliVue Support Tool. Make sure you review the description of this functionality in the Support Tool Instructions for Use before you interpret the content of this report.

### **Understanding Configuration Implications**

When you permanently change any element of the configuration, you must consider the effect of the new configuration on both patient and application behavior. For additional information on the context of the configuration settings, see your monitors Instructions for Use. Always ensure that the monitor users are aware of the configuration settings.

### Using the Configuration Tables

The "breadcrumb trail" at the top of each table indicates which Settings Block the settings are grouped under. For example, "**Measurement Setting: Main Setup -> Measurements -> ECG**" means that the ECG settings in the table below the heading are part of the Measurement Settings Block. This is also the path you should follow to access the settings in the table: in this example, to configure ECG settings, in the **Main Setup** menu, select **Measurements** and then select **ECG**.

#### How to read the configuration tables

The following is a (modified) example of a configuration table, as you will find it in the sections of this manual.

Factory Defaults	Factory Defaults														
Item Name	Oper. MX800 Mode MP20 - (H10/2		), - MP90 20/40)		MX800, MP5 - MP90 (H30)		MP20 (M20/M21) MP5 (H10/20/40) MP2/X2			MP5T, MP5 (B10/B11/B14)			MP2/X2		
	С	M	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor
Alarms from	x	x	Sys.	Sys.											
Sys. High	x	x	160	120	90	180									160
Sys. Low	x	x	90	70	40	70									90
Alarms	x	x	On												
Repetition Time	x	x	15 min			3 min		10 min		10 min		15 min			
Mode	x	x	Auto		Ma- nual							Manual			Auto
Done Tone	x		Off			On			Off						
NBP Time  x  not applicable, this setting is stored in the Monitor Settings Block: see "Configuring User Interface Settings Page 126.					ace Settir	igs" on									

Item Name The leftmost column in each table lists the individual configuration items. The names and order of these items correspond to those of the menu items in the related setup menu in the monitor.

**Oper.** Mode These two columns indicate in which operating mode the setting is available/visible. If both columns are marked with an "x", the setting is available in both modes. If only one column is marked, the setting is available in the corresponding mode only. Abbreviations used for the operating modes in this guide are: C for Configuration mode, M for Monitoring mode, S for Service mode.

**Monitor Models (Options)** This section lists the actual factory default settings for each configuration item. Some factory default settings may differ between different monitor models or H (application area) options. If this is the case, this section will be divided into subsections. In the above example, you see the following subsections:

- MX800, MP20 MP90 with options H10, H20, or H40 (i.e. all except H30),
- MX800, MP5 MP90 with option H30
- MP20 with model option M20 or M21, MP5 with options H10, H20, or H40, and MP2/X2
- MP5T and MP5 with options B10, B11, or B14
- MP2/X2 (Profile Outdoor only)

Some settings are only entered once per table row with the table entry extended to cover all columns. In our example, you can see this for the settings **Alarms from** and **Alarms**. These settings are the same across all monitor models, options, and profiles and are therefore only entered once in the table, in the leftmost column.

**Profile Adult / Profile Pedi / Profile Neo / Profile Outdoor** All IntelliVue monitor models are shipped with different profiles to accommodate different monitoring environments and patient categories. Therefore, the default values for some settings differ between different profiles. In the example table above, you can see this for the settings **Sys. High, Sys Low**, and **Mode** for which the subsections are divided into different columns representing the different profiles. The column headings correspond to the names of the profiles in the monitor, for example **Profile Adult**, or **Profile Outdoor**.

To keep the tables as readable as possible, the following rules apply:

- If the same default value applies to more than one profile in the same subsection, the table entry will be extended to cover all profiles that apply, and the value will be listed in the leftmost column only (see Repetition Time or Mode).
- If the same default value applies to the same profile in different subsections, it is only listed in the leftmost subsection. For example, the default for Sys. High in Profile Pedi in MX800, MP5 through MP90 monitors with option H30 (second subsection from the left) is the same as it is in Profile Pedi in MX800, MP20 through MP90 monitors with options H10/20/40 (leftmost subsection). It is therefore only listed in the leftmost subsection and the corresponding table entry in the column Profile Pedi for MX800, MP20 through MP90 monitors with option H30 is left empty.

**not applicable** Whenever you see a statement in the settings tables starting with "**not applicable**" (as in **NBP Time**), this can mean two things (the exact reason will always be given in the context):

- the setting appears as a menu item in the related Setup menu, but is actually stored in a different context. For example, the **NBP Time** setting appears in the Setup NBP menu. However, it is not stored as an NBP measurement setting, but as a monitor setting in the User Interface menu.
- the setting appears as a menu item in the related Setup menu, but cannot be stored in the monitor configuration. For example, the setting C.O. in the Cardiac Output Setup menu (see "C.O. Configuration Implications" on page 66) defines the On/Off status of the C.O. measurement, i.e. whether the Cardiac Output measurement is switched On or Off. However, the C.O. measurement (as most other measurements in the IntelliVue monitor) can only be switched On if a C.O. transducer is connected to the monitor. Therefore this setting cannot be permanently stored in the monitors configuration.

### Understanding H and M Options

Application Area Options					
H10	General/Intensive Care				
H20	Neonatal				
H30	Anesthesia				
H40	Cardiac Care				

MP20 Model Options					
M20	MP20 Junior				
M21 <sup>1</sup>	MP20L				

1.MP20 option M21 is available in the US only.

### **Profile Settings**

#### Profile Settings: Main Setup -> Profiles

Factory default settings for Profiles depend on the monitor model, as well as the monitor's H and A option. For detailed information on all factory-provided default Profiles, see the section "Configuration Overview", starting see on page 222.

The monitor does not need a Profile to start monitoring. If, in the case of an error, no configuration is loaded, or if a loaded configuration is corrupt, the monitor will be operational and use the factory defaults documented in the configuration tables of this guide. The **Paced** status will be set to **Yes** and the **Patient Category** will be set to **Neo**. An appropriate configuration should then be loaded onto the monitor using the IntelliVue Support Tool.

The default Profile is used after discharging a patient, leaving demonstration, or when the monitor is switched off for more than 60 seconds (if the global setting Automat. Default is set to Yes).

# **Measurement Settings**

This section lists all the settings grouped in the Measurement Settings Block. They define how the monitor measures and displays patient data. Read any information on configuration implications at the end of each section before you make any configuration changes.

Measurement Settings							
	Page		Page				
ECG	34	Transcutaneous Gas (IntelliVue TcG10)	72				
ECG/Pulse Alarms	38	CO <sub>2</sub> (Capnometry)	72				
System Pulse	41	awRR (from Capnometry)	73				
Arrhythmia	42	Resp (Impedance Respiration)	74				
ST Analysis	44	Spirometry	75				
QT Analysis	46	RRspir (Respiration from Spirometry)	77				
Capture 12 Lead	47	EEG	78				
SpO <sub>2</sub>	49	EEG Montages	79				
Delta SpO <sub>2</sub>	54	BIS	81				
NBP	55	Temperature	82				
Invasive Pressure	57	Predictive Temperature	84				
СРР	63	Delta Temp	85				
PPV	64	VueLink	85				
С.О.	65	IntelliBridge	86				
CCO	66	Gas Analyzer	86				
SVR	67	CO <sub>2</sub> (from Gas Analyzer)	92				
SO <sub>2</sub>	68	awRR (from Gas Analyzer)	92				
Sp-vO <sub>2</sub>	69	MAC	93				
Transcutaneous Gas (tcGas M1018A)	70						

### **Configuring ECG**

Г

Measurement Settings: Main Setup -> Measurements -> ECG

Factory Defaults	Factory Defaults										
Item Name	OF	per. ode	MX800, MP5 - MP90 (H10/20/40) MP5T, MP5SC MP2/X2			MX800, MP5 - M	MP2/X2				
	C	Μ	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor		
High Limit	х	x	not applica	ble, see "Cor	nfiguring E	CG/Pulse Ala	ırms" on paş	ge 38.			
Low Limit	x	x									
ECG/Arrhy Alarms	x	x									
AlarmSrc (ECG/AR)	x	x									
ECG	x	x	On	On							
Paced	x	x	not applica	not applicable, the paced status is stored in a Profile, see "Profile Settings" on page 32							
QRS Volume	x	x	not applica User Interfa	not applicable, this setting is stored in the Monitor Settings Block, see "Configuring User Interface Settings" on page 126							
Primary Lead	x	x	II								
Secondary Lead	x	x	V (V1)								
Va Lead	x	x	V2	V2							
Vb Lead	x	x	V5	V5							
Analysis Mode	x	x	Multi Lead								
Lead Placement	x	x	Standard								
Mod.LeadPlacment	x	x	Off								
Filter	x	x	Monitor			Filter			Monitor		
Sync Out Chan 1			ECG Anlg	Wave (MX80	00 only); fix	ed setting; vi	sible but no	t operable			
Sync Out Chan 2	x		ECG AnlgWave (MX800 only)								
SyncPulse Sensit.	x	x	Medium (MP2/X2, MP5 only)								
SyncPulse Marker	x	x	On (MP2/X2, MP5 only)								
Auto Filter	x		not applicable, these settings are stored in the Monitor Settings Block, see "ECG								
Fix PacerAmplit	x		Application	Configurati	ion" on pag	e 114					
Default ECG Size	x										
Color	x		Green						White		
Asystole Threshold	x	x	4.0 sec		3.0 sec				4.0 sec		
$\Delta$ ExtrTachy	x		not applica	ble, see "Cor	nfiguring E	CG/Pulse Ala	arms" on pag	ge 38			
Tachy Clamp	x										
$\Delta$ ExtrBrady	x										
Brady Clamp	x										
ECG Al. OFF Inop	x		Cyan								
Fallback	х		On								

Factory Defaults										
Item Name	O <sub>I</sub> Mo	per. ode	MX800, MP5 - MP90 (H10/20/40) MP5T, MP5SC MP2/X2			MX800, MP5 - MP	MP2/X2			
	C	M	Profile Adult	Protile Pedi	Profile Neo	Profile Adult	Protile Pedi	Profile Neo	Profile Outdoor	
Alarms Off	x		not applicable, see "Configuring ECG/Pulse Alarms" on page 38							
AlarmSource Sel.	x									
PulseAlarms Tele	x									

#### **ECG** Configuration Implications

**ECG** This setting lets you switch the ECG measurement **On** or **Off**. If ECG is switched **Off**, the monitor will change to Pulse as alarm source, if a Pulse is available. One exception to this rule can arise when you have a telemetry device paired with your monitor. If **PulseAlarms Tele** (see "Configuring ECG/Pulse Alarms" on page 38) is configured to **Disabled**, the monitor does not fall back to the System Pulse as alarm source.

**Primary Lead / Secondary Lead / Analysis Mode** The monitor uses the primary and secondary lead to compute HR and to analyze and detect cardiac arrhythmias. They are also available for recordings and for display on the Information Center. The **Secondary Lead** setting is used only if **Analysis Mode** is configured to **Multi Lead** (instead of **Single Lead**) arrhythmia analysis. It determines which additional lead will be used for arrhythmia analysis.

**Va Lead / Vb Lead** If you are using a 6-lead ECG cable, the two chest leads can be positioned at any two of the V1 to V6 positions. The **Va Lead / Vb Lead** settings tell the monitor which positions you have used so that the chest leads will be correctly labeled on the monitor and in printouts. If the Global setting **ECG Cable Color** is set to **IEC**, these settings are labeled **Ca Lead** and **Cb Lead**.

**Lead Placement** Set this setting to **EASI** if you are using EASI lead placement. This tells the monitor that you are using EASI lead placement. The label "EASI" will be shown beside the 1mV calibration bar on the ECG wave on the display, and "EASI" is marked on any recorder strips and printouts.

Mod.LeadPlacment When Mod.LeadPlacment is set to On, 12 Lead ECG Reports will be labelled 12 Lead ECG Report (Mason-Likar), and captured 12-lead ECGs will be labelled Mason-Likar to the right of the bandwidth annotation at the Information Center. When Mod. LeadPlacment is set to Off, 12 Lead ECG Reports will be labelled 12 Lead ECG Report, and captured 12-lead ECGs will not be annotated at the Information Center.

Filter The Filter setting defines how ECG waves are smoothed.

• Monitor: The Monitor filter results in an ECG bandwidth of 0.5 - 40 Hz for the Adult, and 0.5 - 55Hz for the Pedi and Neo patient category. Use under normal measurement conditions.

- Ext. Monitor: Using this filter results in an ECG bandwidth of 0.5 150 Hz. Use when diagnostic quality is required but low frequency interference or a wandering baseline may be expected. The upper edge frequency is the same as the **Diag** setting and the lower edge frequency is the same as the Monitor setting.
- Filter: Using this filter reduces interference to the signal and results in an ECG bandwidth of 0.5 20 Hz for all patient categories. It should be used if the signal is distorted by high frequency or low frequency interference. High frequency interference usually results in large amplitude spikes making the ECG signal look irregular. Low frequency interference usually leads to a wandering or rough baseline. In the operating room, the Filter reduces artifacts and interference from electrosurgical units. Under normal measurement conditions, selecting Filter may suppress the QRS complexes too much and thus interfere with the clinical evaluation of the ECG displayed on the monitor. This does not affect the ECG analysis performed by the monitor. If AutoFilter ("ECG Application Configuration" on page 114) is set to On, the filter setting will automatically be set to Filter if electromagnetic interference is detected.
- Diag (Diagnostic): The setting Diag selects the highest available ECG bandwidth which is 0.05 to 150 Hz for all patient categories. Use when diagnostic quality is required. The unfiltered ECG wave is displayed so that changes such as R-wave notching or discrete elevation or depression of the ST segments are visible.

**Sync Out Chan 1**: Output signal of the first Sync Out channel. This setting cannot be changed (visible only).

**Sync Out Chan 2**: Output signal of the second Sync Out channel. Possible choices are ECG AnlgWave (default) and ECG SyncPuls.

#### SyncPulse Sensit / SyncPulse Marker

These settings are only available in MP2/X2 and MP5 monitors. In the MP5 it is only available if an MIB/ RS232 interface is installed and the driver **ECG Sync Pulse** is configured for one of the MIB ports (see the MP5 Service Guide for detailed setup information). If these requirements are met, the monitor outputs a SyncPulse via the MIB/RS232 interface (MP5) or the ECG Sync Pulse Output Connector (MP2/X2) which can be used to synchronize external medical devices (such as CT scanners) to the patient's ECG. Both settings are available in monitoring mode and configuration mode.

- Set **SyncPulse Marker** to **On** to display SyncPulse markers in the ECG wave on the monitor Screen.
- SyncPulse Sensit lets you change the sensitivity of the Sync Pulse detection. If
  SyncPulse Marker is switched On, and not every QRS complex in the ECG wave on the monitor is marked with a Sync Pulse marker, you should increase the sensitivity (Medium or High) until you see a marker for each QRS complex. If you see Sync Pulse markers in areas of the ECG wave other than the QRS complexes, lower the sensitivity (Medium or Low).

**Asystole Threshold** This setting lets you adjust the time period between the point where the monitor cannot detect a QRS complex and the indication of an asystole alarm. It also affects the way the enhanced asystole detection behaves, see "General Global Settings Configuration Implications" on page 169.

**Color** The color setting defines the color for ECG, Arrhythmia, ST, and QT. The color setting for Pulse is taken from the system pulse source.
**ECG AL. Off Inop** If ECG alarms are off or Pulse is selected as active alarm source, the INOP ECG/ARRH ALARM OFF is shown permanently. If you do not want this INOP to appear, you must set **ECG AL. Off Inop** to **Off**. If you want the ECG/ARRH ALARM OFF INOP to be automatically escalated to a yellow alarm after a fixed time, configure it to one of the available choices: **Yellow @2h**, **Yellow @4h**, **Yellow @6h**, or **Yellow @8h**.

**Fallback** If **Fallback** is configured **On** and there is a LEAD OFF INOP in the primary lead (and in the secondary lead, if you are using multi-lead monitoring) for longer than 10 seconds, and if another lead is available, this available lead automatically becomes the primary lead. This is known as lead fallback. When the Leads Off condition is corrected, the leads are automatically switched back.

## **Configuring ECG/Pulse Alarms**

```
Measurement Settings:
```

Main Setup -> Measurements -> ECG -> AlarmSrc(ECG/AR), or Main Setup -> Measurements -> Pulse -> AlarmSrc(ECG/AR)

Factory Defaults																
Item Name	O <sub>I</sub> M	Pool MX800, MP20 - MP90 (H10/20/40)				MX800, MP5 - MP90 (H30)			MP20 (M20/M21) MP5 (H10/20/40) MP5T, MP5SC MP2/X2			MP5SC MP5#P05			MP2/X2	
	С	М							Pro	ofile						
	С	М	Adult	Pedi	Neo	Adult	Pedi	Neo	Adult	Pedi	Neo	EWS Scoring / SpotCheck <sup>1</sup>	Frequent Vitals	RRT	Resus	Outdoor
Alarms Source	x	x	ECG	/Arrhy	thm	Auto			Auto							Auto
ECG/Arrhy Alarms	x	x	On													
Pulse Alarms	x	x	Off	_		-		_		_		_				
High Limit	x	x	120	160	200							120				120
Low Limit	x	x	50	75	100							50				50
$\Delta$ ExtrTachy	x		20													
Tachy Clamp	х		200	220	240							200				200
$\Delta$ ExtrBrady	х		20													
Brady Clamp	х		40		50	40	60	80				40				40
Alarms Off	x		Enab	nabled												
AlarmSource Sel.	x		Enab	oled												
PulseAlarms Tele	x		Enab	led												
Inop "PULSE NO AL"	x		Enab	led												

1.Profile SpotCheck for English language software only.

#### **ECG/Pulse Alarms Configuration Implications**

Alarms Source In most cases the heart rate and Pulse numerics are identical. In order to avoid simultaneous alarms on heart rate and Pulse, the monitor uses either ECG or Pulse as its active alarm source. The Alarm Source setting lets you choose ECG, Pulse or Auto as the source of heart-related rate alarms.

• **ECG/Arrhythm**: Select **ECG/Arrhythm** if you want the heart rate from the ECG to be the alarm source.

Even with **Alarm Source** set to **ECG/Arrhythm**, if you switch the ECG measurement off, the monitor will automatically use Pulse as alarm source, provided a pulse source is switched on and available.

**Pulse**: If you select **Pulse** as the active alarm source, the monitor will prompt you to confirm your choice. Be aware that if you select **Pulse**, all arrhythmia and ECG HR alarms are switched off.

• Auto: If the Alarm Source is set to Auto, the monitor will use the heart rate from the ECG measurement as alarm source whenever the ECG measurement is switched on and at least one ECG lead can be measured without an INOP condition.

The monitor will automatically switch to **Pulse** as the alarm source if:

- a valid ECG lead can no longer be measured

and

- a Pulse source is switched on and available.

The monitor then uses the pulse rate from the measurement currently active as system pulse. While **Pulse** is the alarm source, all arrhythmia and ECG HR alarms are switched off. If an ECG lead becomes available again, the monitor automatically uses **ECG/Arrhythm** as alarm source.

- **NOTE** If the ECG measurement is switched off, the monitor will always change to **Pulse** as alarm source, if a Pulse source is available. One exception to this rule can arise when you have a telemetry device paired with your monitor. The monitor ECG is then deactivated but the monitor may be configured to allow only ECG as the active alarm source (see setting **AlarmSource Sel.**). In this case the monitor will not switch to **Pulse** as alarm source and Pulse will not be available as a selection in the ECG/Pulse Alarms menu.
- **WARNING** Selecting **Pulse** as the active alarm source for HR/Pulse switches off most arrhythmia alarms (see the Instructions for Use), including Asystole, Vfib and Vtach alarms, and the heart rate alarms. This is indicated by the crossed-out alarm symbol beside the ECG heart rate numeric and the message ECG/ARRH ALARM OFF, if configured (see "ECG Configuration Implications" on page 35).

High and low pulse rate and extreme bradycardia and extreme tachycardia alarms from Pulse are active.

**ECG/Arrhy Alarms** This setting is only available if **Alarm Source** is set to **ECG/Arrhythm** or **Auto**. Be aware that with **Alarm Source** set to **ECG/Arrhythm**, if you switch **ECG/Arrhy Alarms** off, all Pulse alarms are switched off as well.

**Pulse Alarms** This setting is only available if **AlarmSource** is set to **Pulse** and a pulse signal is currently measured. Be aware that with **Alarm Source** set to **Pulse**, if you switch **Pulse Alarms** off, all ECG and Arrhythmia alarms are switched off as well.

**High Limit/Low Limit** ECG and Pulse share the same alarm limits. These alarm limits apply to the currently selected alarm source, either ECG/Arrhythm or Pulse. Note that if you change the High/Low alarm limits in the ECG/Pulse Alarms menu, this will also change the High/Low alarm limits in the Setup Pulse menu and Setup ECG menu and vice versa.

 $\Delta$  **ExtrTachy**,  $\Delta$  **ExtrBrady** Extreme bradycardia and extreme tachycardia alarms are based on the ECG/Pulse limit alarms. Use the  $\Delta$  **ExtrTachy** and  $\Delta$  **ExtrBrady** setting to define the difference between the heart rate limit and the extreme limit. For example, if the heart rate high limit is 120 bpm and the difference is 20 bpm then the extreme tachycardia limit is 140.

ECG and Pulse share the same alarm limits. The  $\Delta$  **ExtrTachy** and  $\Delta$  **ExtrBrady** settings apply to the currently selected alarm source, either ECG or Pulse. If you change the  $\Delta$  **ExtrTachy** or  $\Delta$  **ExtrBrady** setting in the ECG/Pulse Alarms menu, this will also change the  $\Delta$  **ExtrTachy** or  $\Delta$  **ExtrBrady** setting in the Setup Pulse menu and Setup ECG menu and vice versa.

**Tachy Clamp, Brady Clamp** The Brady and Tachy clamp allows you to configure a safety threshold for the extreme bradycardia and tachycardia alarm limits. For example, if the low heart rate limit is 50 bpm and the  $\Delta$  **ExtrBrady** setting is 20 bpm (50 bpm - 20 bpm = 30) with a Brady clamp set at 40, the resulting extreme bradycardia limit would be 40 bpm (instead of 30 bpm). If the clinician sets the ECG alarm limit above or below the limit clamps for an individual patient, the limit clamps become the extreme brady or extreme tachy alarm (these are red alarms). Be sure to set the clamps beyond the configured ECG limits.

ECG and Pulse share the same alarm limits. The Tachy **Clamp** and **Brady Clamp** settings apply to the currently selected alarm source, either ECG or Pulse. If you change the **Tachy Clamp** or **Brady Clamp** setting in the ECG/Pulse Alarms menu, this will also change the **Tachy Clamp** or **Brady Clamp** setting in the Setup Pulse menu and Setup ECG menu and vice versa.

**Alarms Off** If this setting is configured to **Disabled**, the user cannot switch off ECG alarms in monitoring mode. Note that changing the **Alarms Off** setting in the ECG/Pulse Alarms menu, also changes the **Alarms Off** setting in the Setup Pulse menu and Setup ECG menu and vice versa.

AlarmSource Sel. If you do not want the Alarm Source setting to be available in monitoring mode, you must set AlarmSource Sel. to Disabled. Note that if you change the AlarmSource Sel. setting in the ECG/Pulse Alarms menu, this will also change the AlarmSource Sel. setting in the Setup Pulse menu and Setup ECG menu and vice versa.

**PulseAlarms Tele** This setting affects the monitor's behavior only while it is paired with a telemetry transmitter. In paired mode, if the Tele transmitter delivers a valid ECG, the monitor automatically deactivates the internal ECG and displays the ECG from the telemetry transmitter. With the internal ECG deactivated, and **PulseAlarms Tele** configured to **Enabled**, the monitor automatically falls back to the monitor's System Pulse as alarming source if a System Pulse is available. With **PulseAlarms Tele** configured to **Disabled**, the monitor does not fall back to the System Pulse as alarm source. In this case no ECG/Pulse alarms from the bedside monitor automatically activates the internal ECG and the configured ECG/Pulse alarms are active again. Note that if you change the **PulseAlarms Tele** setting in the ECG/Pulse Alarms menu, this will also change the **PulseAlarms Tele** setting in the Setup Pulse menu and Setup ECG menu and vice versa.

**Inop "PULSE NO AL"**: If set to Enabled, the INOP **Pulse No Alarming** is issued while a VueLink or IntelliBridge pulse is system pulse and ECG is switched off.

### **Configuring the System Pulse**

Measurement Settings: Main Setup -> Measurements -> Pulse

Factory Defaults									
Item Name	Oper. Mode		rer. MX800, <sup>1de</sup> MP5 - MP90 (H10/20/40) MP5T, MP5SC MP2/X2			MX800, MP5 - MP90 (H30)			MP2/X2
	С	M	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor
High Limit	x	x	not applicab	le, see "Cor	nfiguring EC	G/Pulse Alar	ms" on page	38.	
Low Limit	x	x							
Pulse Alarms	x	x							
AlarmSrc (ECG/AR)	x	x							
System Pulse	x	x	SpO <sub>2</sub>			Auto			SpO2
QRS Volume	x	x	not applicab	le, see "Cor	nfiguring Us	er Interface S	ettings" on p	age 126.	
$\Delta$ ExtrTachy	x		not applicab	le, see "Cor	nfiguring EC	CG/Pulse Alar	ms" on page	38.	
Tachy Clamp	x								
$\Delta$ ExtrBrady	x								
Brady Clamp	x								
Alarms Off	x								
AlarmSource Sel.	x								
PulseAlarms Tele	x								

### System Pulse Configuration Implications

**System Pulse** The **System Pulse** setting allows you to configure the measurement source for the System Pulse.

The pulse rate chosen as system pulse:

- is monitored as system pulse and generates alarms when you select **Pulse** as the active **Alarm Source**
- is sent via the network to the Information Center, if available
- is trended in the HighRes Trends and stored in the monitor's databases.

The choices are SpO<sub>2</sub>, SpO<sub>2</sub>pr, SpO<sub>2</sub>po, SpO<sub>2</sub> r, SpO<sub>2</sub> 1, %SpO<sub>2</sub>T, P, ABP, ART, Ao, PAP, UAP, FAP, BAP, and Auto. If you select Auto, the monitor automatically chooses a pulse rate to be used as system pulse. It looks through the list from top to bottom and activates the first pulse rate that is switched on and available.

# **Configuring Arrhythmia**

Measurement Settings: Main Setup -> Measurements -> Arrhythmia

Factory Defaults									
Item Name	Oj M	Oper. MX800, Mode MP5 - MP90 (H10/20/40) MP5T, MP5SC MP2/X2			MX800, MP5 - M	MX800, MP5 - MP90 (H30)			
	С	М	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor
Arrhythmia	x	x	On		Off	Off			On
Asystol. Threshold	x	х	not applica	ıble, see "Co	nfiguring E	CG" on pag	ge 34.		
Pause Threshold	x	x	2.0 sec		1.5 sec				2.0 sec
VTach HR	x	x	100	120	150				100
VTach Run	x	x	5						
Vent Rhythm	x	x	14						
SVT HR	x	x	180	200	210				180
SVT Run	x	x	5						
PVCs/min	x	x	10	5	5				10
Non-Sustain	x	х	On	·					
Vent Rhythm	x	х	On						
Run PVCs	x	x	On						
Pair PVCs	x	x	On			Off			On
R-On-T PVCs	x	x	On			Off			On
V.Bigeminy	x	x	On			Off			On
V.Trigeminy	x	x	On			Off			On
PVCs/min	x	x	On			Off			On
Multif.PVCs	x	x	On			Off			On
Pacer N.Cap	x	x	On						
Pacer N.Pac	x	x	On						
Pause	x	x	On			Off			On
Missed Beat	x	х	On			Off			On
SVT	x	x	On						
Afib	x	х	On			Off			On
IrregularHR	x	х	On			Off			On
HR Alarms	x		Short Yello	W					
Analysis Mode	x	x	not applica	ıble, see "Co	nfiguring E	CG" on pag	ge 34		
TimeOut 1st	x		3 min						
TimeOut 2nd	x		10 min						
ArrhyOff Message	x		not applica "Configuri	ble, this sett ng User Inte	ting is stored erface Settin	l in the Mo gs" on page	nitor Settin 126	gs Block, se	ee
SOME ECG Inop	x		On			Off			On

#### **Arrhythmia Configuration Implications**

**Pause** This setting lets you adjust the time period between the point where the monitor cannot detect a QRS complex and the indication of a Pause alarm.

HR Alarms With Arrhythmia switched On, high and low heart rate alarms were traditionally part of the yellow arrhythmia alarm chain and were therefore signaled as short yellow alarms. The setting HR Alarms lets you configure high and low heart rate alarms to be treated as normal (long) yellow alarms. Be aware that when you configure HR Alarms to Yellow, high and low heart rate alarms are not subject to arrhythmia timeouts and arrhythmia alarm chaining.

**Timeout 1st, TimeOut 2nd** The timeout period for first level yellow alarms can be configured for between 0 and 5 minutes. The timeout period for second level yellow alarms can be configured for between 0 and 15 minutes.

**SOME ECG...** Inop If users want to be notified whenever the On/Off settings for ECG/Arrhythmia alarms differ from the current Profile, you must configure **Some ECG...** Inop to On (short for Some ECG Alarms Off INOP message). If this message is configured Off, it is important for the clinician to check the on/off status of the alarms.

### **Arrhythmia Alarms**

PVC alarms that combine runs of PVCs and rate are chained together and the configuration of one effects the configuration of others.

VTach	To set the Ventricular tachycardia alarm, you must configure both the Vtach run limit, and
Run = > 5	the Vtach heart rate limit. Both criteria must be met to cause an alarm.
HR = > 100	

Non Sustain VTach	Non-sustained ventricular tachycardia cannot be configured. The criteria for this alarm is
Run < 5	based on the Vtach settings. It must be a run less than the Vtach run limit but the heart
HR = > 100	Tate mint must be the same as viach.

Vent Rhythm	Ventricular Rhythm can be configured for the number of PVCs in a run (Ventricular limit)
Run = > 14	but the heart rate limit is automatically set to be less than the Vtach heart rate.
HR < 100	

Run of PVCs	A Run of PVCs must be more than two but less than the Ventricular Rhythm
Run > 5 < 14	
HR < 100	

Pair of PVCs	a Pair of PVCs is by definition two PVCs in a run.
Run = 2	

### **Configuring Arrhythmia Alarm Recordings**

(See "Configuring Alarm Recordings" on page 101) Arrhythmia recordings are affected by the settings **Record HR** and **Record PVC**, as some arrhythmia alarms have both a HR component and a PVC component. To receive all arrhythmia alarm recordings, you must configure both these alarms on. If PVC alarm recording is off but HR alarm recording is on, these PVC alarms are not recorded:

Non-Sustain Vtach; Vtach; Ventricular Rhythm; Run of PVCs; Pair of PVCs; R on T PVC; V Bigeminy; V Trigeminy; PVC/min; MultiFocal PVC.

#### Arrhythmia and Visible and Audible Alarm Latching

(Main Setup -> Alarms -> Alarm Settings; see "Configuring Alarms" on page 96) Alarm visual and audio latching settings can affect the arrhythmia alarm sounds. Visual and Audible Latching should be set to **Red** or **Red and Yellow** if **Arrhythmia** is **On**.

### **Configuring ST Analysis**

ST segment monitoring is intended for use with adult patients only and is not clinically validated for use with neonatal and pediatric patients. For this reason, the recommended - and default - setting for ST monitoring in neonatal and pediatric modes is **ST Analysis: Off**.

### Lead-Independent Settings

```
Measurement Settings: Main Setup -> Measurements -> ST Analysis
```

Factory Defaults									
Item Name	Oper. Mode		MX800, MP2 - MP90, MI X2	25SC		MP5T			
	С	Μ	Profile Adult Profile Outdoor	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	
ST Analysis	x	x	On Off			Off			
ST Alarm Mode	x	x	Single ST	Single ST					
Alarms	x	x	On	On					
ST-Index	x	х	On	Off		On			
Show ST In Wave	x		not applicable, this Interface Settings"	not applicable, this setting is stored in the Monitor Settings Block: see "Configuring User Interface Settings" on page 126					
ISO Point	x		-80 ms	-68 ms	-56 ms				
J Point <sup>1</sup>	x		48 ms	ms					
ST Point <sup>2</sup>	x			80 ms 60 ms					
ST Uses	x		J+60	ST Point	ST Point				

1.Setting only available when ST Uses is set to J+60 or J+80.

2.Setting only available when ST Uses is set to ST Point.

**ST Alarm Mode** If you set **ST Alarm Mode** to **Multi**, the monitor will announce an ST alarm, only if more than one ST lead is violating its alarm limit. For each mode, **Multi** and **Single**, a different set of ST alarm limits can be configured.

**ST Analysis** This setting lets you switch ST Analysis **On** or **Off**.

**ST-Index** This setting lets you switch the ST-Index numeric **On** or **Off** for display. The ST index numeric (STindx) is the sum of the absolute values for the ST leads V2, V5, aVF. Because it is based on absolute values, it is always a positive number. If you haven't selected one of the leads V2, V5, and aVF for ST analysis, the STindx numeric will display a question mark "?".

**ST Uses** If **ST Uses** is set to **J+60** or **J+80**, the position of the ST Point is set relative to the J Point. Change the ST Point by positioning the J Point up to 380ms after the peak of the R-wave. If **ST Uses** is set to **ST Point**, the ST Point can be set directly and independently of the J Point position. The **ST Point** can be positioned up to 460ms after the peak of the R-wave. Note that switching between the settings does not move the J Point position.

#### Lead I, II, III, aVR, aVL, aVF, V, V<sub>1-6</sub>, MCL Settings

#### Measurement Settings: Main Setup -> Measurements -> ST Analysis

Factory Defaults								
Item Name	Oper. Mode		MX800, MP2 - MP90 MP5T, MP5SC X2					
	C	М	Profile Adult	Profile Neo				
			Profile Outdoor					
ST <sub>(Label)</sub>	x	x	On Off					
For Alarm Mode = Single	-ST							
ST <sub>(Label)</sub> High	x	x	+2.0 mm	+2.0 mm				
ST <sub>(Label)</sub> Low	x	x	-2.0 mm					
For Alarm Mode = Multi-ST								
ST <sub>(Label)</sub> High	x	x	+1.0 mm					
ST <sub>(Label)</sub> Low	x	x	-1.0 mm					

#### Selecting Leads for ST Analysis

You select which leads to use for ST analysis in the Setup ST Analysis menu.

To select a lead for ST Analysis,

- 1 Select Main Setup -> Measurements -> ST Analysis to enter the Setup ST Analysis menu.
- 2 Select **Setup ST Leads** to open the Setup ST Leads menu. All leads currently chosen for ST monitoring are listed here.
- 3 Select the Add key. This opens the Choices pop-up window.
- 4 Choose a lead from the list. This closes the Choices window and adds the selected lead to the list of chosen leads.

#### To disable ST monitoring for a lead,

1 In the Setup ST Leads menu, choose a lead from the list.

2 Select the **Delete** key. This removes this lead from the list of chosen leads.

The order in which ST leads are listed in the Setup ST Leads menu determines the order in which ST leads are displayed on the monitor screen.

To change the order in which ST leads are displayed,

- 1 In the Setup ST Leads menu, choose a lead from the list.
- 2 Select the **Sort Up** or **Sort Down** key to move the lead up or down in the list.

#### **Changing ST Alarm Limits**

The monitor can detect alarms on each ST lead separately, so you can set high and low ST alarm limits individually for each ST lead. You can also set separate alarm limits for single-lead and multi-lead ST monitoring.

### **Configuring QT Analysis**

```
Measurement Settings: Main Setup -> Measurements -> QT Analysis
```

Factory Defaults	Factory Defaults									
Item Name	Oper. Mode		MX800, MP2 - MP90 MP5T, MP5SC X2							
	С	M	Profile Adult	Profile Pedi	Profile Neo					
			Profile Outdoor							
QT Lead	x	x	All							
QTc High Limit	x	x	500	480	460					
$\Delta QTc$ High Limit	x	x	60							
QTc High Alarm	x	x	On							
$\Delta QTc$ High Alarm	x	x	On	On						
QT Analysis	x	x	Off	Off						
QTc Formula	x		Bazett							

### **QT** Analysis Configuration Implications

QT Lead For QT Monitoring you can select one of the following QT Lead modes:

- All: all available leads (I, II, III, V, MCL, V1 V6) are used to produce a global QT measurement. For EASI lead placement, directly acquired AI, AS and ES leads are used.
- **Primary**: the primary lead will be used for QT measurement. If the original primary lead becomes unavailable or is changed, QT measurement will continue with the new primary lead.
- I, II, III, MCL, V, VI-V6: a single lead selected from all available leads (except the augmented leads) will be used for QT measurement. QT measurement will stop if the selected lead becomes unavailable.

QT Analysis This setting lets you switch QT Analysis On or Off.

**QTc Formula** This setting lets you change the correction formula used to correct the measured QT interval for the patients heart rate.

The QT interval has an inverse relationship to heart rate. Faster heart rates shorten the QT interval and slower heart rates prolong the QT interval. Researchers have generated correction formulas to normalize the effects of heart rate. Heart rate corrected QT interval is abbreviated as "QTc".

Several commonly used heart rate correction formulas are available. In clinical practice, the most commonly used formula is the Bazett formula. The setting QTc Formula let you configure either the Bazett or Fridericia formula. The differences are shown here:

Correction Method	Formula
Bazett	QTc = QT / (RR)1/2
Fridericia	QTc = QT / (RR)1/3

For more detail about the QT/QTc measurement and correction formulas, refer to the IntelliVue Instructions for Use, as well as the Application Note "QT/QTc Interval Monitoring". Both documents are available on the IntelliVue Documentation DVD.

### **Configuring Capture 12 Lead**

```
Measurement Settings: Main Setup -> Capture 12 Lead -> Capture Waves
```

Factory Defaults	Factory Defaults											
Item Name	O <sub>I</sub> Mo	Oper. MX800, Mode MP2 - MP90 MP5T, MP5SC X2 C M Profile Adult Profile Padi Profile Nac										
	С	Μ	Profile Adult	ofile Adult Profile Pedi Profile Neo								
			Profile Outdoor	ofile Outdoor								
Filter	x	x	0.05-150Hz D	).05-150Hz D								
Gain	x	x	10 mm/mV									
Chest Gain	x	x	Full									
Paper Speed	x	x	25 mm/sec									
Format	x	x	3x4 1R									
Time	x	x	Sequential									
Rhythm Lead 1	x	x	Primary									
Rhythm Lead 2	x	x	Secondary	econdary								
Rhythm Lead 3	х	х	75									
Lead Sequence	x		Internat									

### **Capture 12 Lead Configuration Implications**

**Filter** This setting lets you select the wave filtering for both the application window and the printout. In realtime mode, it lets you control the filtering for all ECG waves in the ECG measurement. Choices are **0.05-150Hz D** (Diag), **0.5-150Hz eM** (Ext. Monitor), **0.5-40Hz M** (Monitor) (or **0.5-55Hz M** for pediatric and neonatal patient categories), and **0.5-20Hz F** (Filter). Gain This setting lets you select the limb lead gain for both display and printout. Choices are 2.5 mm/mV, 5 mm/mV, 10 mm/mV, and 20 mm/mV.

**Chest Gain** This setting lets you select the chest lead gain (V1 ... V6, MCL) for both display and printout relative to the limb lead gain. Choices are **Full** and **Half**.

**Paper Speed** This setting lets you select the speed for paper printouts. Choices are **25 mm/sec** and **50 mm/sec**.

Format This setting lets you select the layout for display and printout. Choices are 12x1, 6x2, 3x4, 3x4 1R, 3x4 3R.

**Time** This setting lets you define the interval of time for all leads, when displaying or printing two or more columns. Choices are **Sequential** and **Simultaneous**.

• **Sequential**: All ECG signals start at 0 in the first column, 2.5 seconds in the second column, 5.0 seconds in the third column, and 7.5 seconds in the fourth column.

Ι	aVR	V1	V4
ECG part 1	ECG part 2	ECG part 3	ECG part 4
II	aVL	V2	V5
ECG part 1	ECG part 2	ECG part 3	ECG part 4
III	aVF	V3	V6
ECG part 1	ECG part 2	ECG part 3	ECG part 4
ECG part 1 II	ECG part 2 II	ECG part 3 II	ECG part 4 II
ECG part 1 II $\rightarrow \rightarrow$	$\frac{\text{ECG part 2}}{\text{II}}$ $\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow$	ECG part 3 II $\rightarrow \rightarrow $	ECG part 4 II →→→
ECG part 1 II ECG part 1	ECG part 2 Ⅱ →→→→→ ECG part 2	ECG part 3 II $\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow$ ECG part 3	ECG part 4 Ⅱ →→→ ECG part 4

• **Simultaneous**: The ECG starting point of each lead is the same time even though they may appear to start at different times on the ECG.

Ι	aVR	V1	V4
ECG part 1	ECG part 1	ECG part 1	ECG part 1
II	aVL	V2	V5
ECG part 1	ECG part 1	ECG part 1	ECG part 1
III	aVF	V3	V6
ECG part 1	ECG part 1	ECG part 1	ECG part 1
ECG part 1 II	ECG part 1 II	ECG part 1 II	ECG part 1 II
ECG part 1 II $\rightarrow \rightarrow$	ECG part 1 II $\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow$	ECG part 1 II $\rightarrow \rightarrow $	ECG part 1 Ⅱ →→→
ECG part 1 II ECG part 1	ECG part 1 Ⅱ →→→→→ ECG part 2	ECG part 1 II $\rightarrow \rightarrow $	ECG part 1 Ⅱ →→→ ECG part 4

**Rhythm Lead 1, 2, 3** This setting lets you select which lead will be used as rhythm lead 1, 2 or 3. Choices are, **Primary**, **Secondary**, **I**, **II**, **III**, **aVR**, **aVL**, **aVF**, **V1**, **V2**, **V3**, **V4**, **V5**, **V6**, **V**, and **MCL**. This setting is only relevant when **3x4 1R** or **3x4 3R** is selected as **Format**.

Lead Sequence This setting lets you define the sequence in which the leads are presented. Choices are Cabrera and Internat.

## Configuring SpO<sub>2</sub>

The configuration settings for  $SpO_2$  can be set individually for each label -  $SpO_2$ ,  $SpO_2pr$ ,  $SpO_2pr$ ,  $SpO_2r$ ,  $SpO_2 l$ , and  $\% SpO_2T$ .

**NOTE** The label %SpO<sub>2</sub>T is only available on monitors that are currently connected to a telemetry device.

## SpO<sub>2</sub>, SpO<sub>2</sub>pr, SpO<sub>2</sub>po, SpO<sub>2</sub> r, SpO<sub>2</sub> l, and %SpO<sub>2</sub>T Settings

### Measurement Settings: Main Setup -> Measurements -> <SpO<sub>2</sub> Label>

actory Defaults													
Item Name	Oj Mo	per. ode	MX800, MP2 - MP90 MP5T, MP5SC X2	,		MP5SC, MP5#P05	MP2/X2						
	С	Μ	Profile										
			Adult Pedi	1	Neo	EWS Scoring / SpotCheck <sup>1</sup> Frequent Vitals RRT Resus	Outdoor						
High Limit	x	x	100		95	100	100						
Low Limit	x	x	90		85	90	90						
Desat Limit	x	x	80		80	80	80						
Alarms	x	x	On										
SpO <sub>2</sub> (or other label)	x	x	not applicable, the SpO page 50.	0 <sub>2</sub> On/Off state is	not a setting, see "Sp	02 Configuratio	on Implications" on						
Mode <sup>2</sup>	x	x	Continuous										
Repeat Time <sup>3</sup>	x	x	15 minutes										
Pulse <spo<sub>2 Label&gt;</spo<sub>	x	x	not applicable, see "Con	nfiguring Pulse fro	om SpO2" on page 5	3.							
QRS Volume	x	x	not applicable, these set	ttings are stored in	n the Monitor Setting	38 Block: see "Co	nfiguring User						
Tone Modulation	x	x	Interface Settings" on p	age 126.									
Tone Mod. Type	x												
Perfusion	x		On										
Signal Quality <sup>4</sup>	x		On										
Average	x		10 sec										
Average in Mon.	x		No										
SmartAlarmDelay	x		Off										
High Alarm Delay <sup>5</sup>	x		Short										
Low Alarm Delay <sup>5</sup>	x		Short										
High Alarm Delay <sup>5</sup>	x		10 sec										
Low Alarm Delay <sup>5</sup>	x		10 sec	) sec									

Factory Defaults											
Item Name	Oj Mo	per. ode	MX800, MP2 - MI MP5T, MP5SC X2	MP2/X2							
	С	Μ	Profile								
			Adult	Pedi	Neo	EWS Scoring / SpotCheck <sup>1</sup> Frequent Vitals RRT Resus	Outdoor				
Desat Delay	x		20 sec								
NBP Alarm Suppr.	x		On								
Extd. Auto OnOff	x		Disabled								
Color	x		Cyan				White				

1. Profile SpotCheck for English language software only.

2. Setting is available for the CL  $\text{SpO}_2$  pod, and also for the label %SpO<sub>2</sub>T, and on monitors that are currently connected to a telemetry device via a Short Range Radio (SRR) connection.

3.Setting is only applicable for CL Sp02 pod if Mode is set to Auto.

4.Setting is only applicable for monitors with FAST SpO<sub>2</sub> (Option A01) and OxiMax compatible SpO<sub>2</sub> (Option A02).

5.Setting is only applicable if SmartAlarmDelay is set to On.

### SpO<sub>2</sub> Configuration Implications

**(SpO<sub>2</sub> Label>** The **On/Off** state of the SpO<sub>2</sub> measurement cannot be preconfigured. SpO<sub>2</sub> is automatically switched **On** when an SpO<sub>2</sub> sensor is connected to the monitor.

**Mode** This setting is only applicable for monitors that have a Short Range Radio (SRR) interface installed. It is only available for the label %SpO<sub>2</sub>T. Configure **Mode** to **Manual** to allow %SpO<sub>2</sub>T measurements from the telemetry device to be made on request and not continuously, helping to save the telemetry device's battery power when it is connected to a monitor via a short-range radio link. To ensure there is no gap in SpO<sub>2</sub> measurements when moving from standard telemetry transmission to short range radio transmission, the SpO<sub>2</sub> mode will be automatically switched to **Continuous** in this situation unless **Manual** mode is set in both the telemetry device and the monitor.

**Perfusion** If **Perfusion** is switched **Off**, Perfusion is not measured and the Perf numeric disappears from the Screen. Note that you will only see the Perfusion numeric on the Screen if **Perfusion** is switched **On**, and a Perf numeric is configured on the Screen.

**Signal Quality** Set **Signal Quality** to **Off**, if you don't want the signal quality indicator to be displayed next to the SpO<sub>2</sub> numeric on the Screen. Note that this setting is only applicable for monitors with FAST SpO<sub>2</sub> (Option A01) and OxiMax compatible SpO<sub>2</sub> (Option A02).

**Average** The SpO<sub>2</sub> numeric represents an average value calculated from several SpO<sub>2</sub> values. **Average** lets you adjust the averaging time between **5**, **10**, and **20** seconds. It represents the approximate time period used for the calculation. The exact averaging algorithm depends on the SpO<sub>2</sub> technology (option) used and on the signal conditions. The longer the averaging time, the longer the time needed until the SpO<sub>2</sub> value reflects the physiological event. Fast averaging is useful for situations where an extremely fast measurement is required or few artifacts are expected. Use slow averaging where you expect the number of artifacts to be relatively high.

**Average in Mon.** This setting determines whether the setting **Average** can be changed in Monitoring mode. Set **Average in Mon.** to **Yes** to enable the user to change the averaging time in Monitoring mode.

**SmartAlarmDelay** Set **SmartAlarmDelay** to **On** if you want the  $SpO_2$  limit alarms to be delayed using an intelligent algorithm. This setting can be used to suppress alarms which occur because a limit is exceeded for a short time or by a small amount.

To accommodate different levels of patient stability, there are three different settings: **Short**, **Medium** and **Long**. Select the appropriate setting for the treatment area where the monitor is to be used. The **Short** setting ensures a quick response to changing conditions for less stable patients. The delay is only extended for very small deviations from the alarm limit (up to 2%). The **Medium** and **Long** settings extend the delay further to avoid unnecessary alarms for more stable patients. With the **Medium** setting the delay is extended for deviations up to 4%, with the **Long** setting for deviations up to 9%.

All settings use the default delay of 10 seconds when the delay is not extended. This means that irrespective of which setting is made, at the latest when a deviation from the alarm limit of 9% is exceeded, the delay will revert to the default 10 seconds delay. You can see the exact delays applied in the following table:

Deviation from violated	Resulting alarm delay				
alarm limit	Short	Medium	Long		
1%	25 sec (maximum delay)	50 sec (maximum delay)	100 sec (maximum delay)		
2%	12 sec	25 sec	50 sec		
3%		16 sec	33 sec		
4%		12 sec	25 sec		
5%			20 sec		
6%	10		16 sec		
7%	10 Sec	10 sec	14 sec		
8%		10 sec	12 sec		
9%			11 sec		
>9%			10 sec		

**High/Low/Desat Alarm Delay** The alarm delay defines the amount of time that the averaged SpO<sub>2</sub> value needs to be above or below the corresponding alarm limits before an alarm is activated. For the high and low alarms, these settings offer the **Short**, **Medium** and **Long** choices when the **SmartAlarmDelay** setting is set to **On** and the standard time choices when the **SmartAlarmDelay** setting is set to **Off**.

**NBP Alarm Suppr.** This setting has an effect only when using  $SpO_2$  options FAST-SpO<sub>2</sub> or OxiMax-compatible  $SpO_2$ . Set **NBP Alarm Suppr.** to **On** to suppress INOPs that would otherwise be generated when you measure NBP on the same limb as  $SpO_2$ . If **NBP Alarm Suppr.** is configured to **On**, the monitor automatically remembers the  $SpO_2$  value measured before cuff inflation and suppresses any  $SpO_2$  INOPs while the cuff is inflated.

**Extd.** Auto On/Off The default for this setting is **Disabled**. If **Enabled**, the SpO<sub>2</sub> measurement will be automatically switched Off when the SpO<sub>2</sub> sensor comes off the patient's finger, and the Global Setting **Sensor Disconnct** is set to **Auto Off** (see "Sensor Disconnct" on page 172), and at least one of the following criteria is met:

- the resulting **SpO2** Sensor Off INOP is silenced,
- alarms are paused or switched off. This also applies if alarms are remotely suspended from a connected Information Center,
- both the SpO<sub>2</sub> alarm and the Pulse(SpO<sub>2</sub>) alarms are switched off.

If the sensor is reapplied, the  $SpO_2$  measurement is automatically turned **On**.

Note that the setting **Extd.** Auto **OnOff** has no effect if a telemetry device or a CL SpO<sub>2</sub> pod is connected to the monitor via a short range radio connection.

- **WARNING** Never set **Extd.** Auto On/Off to **Enabled** if continuous SpO<sub>2</sub> monitoring is intended, because the SpO<sub>2</sub> measurement may be inadvertently turned off, when
  - the SpO<sub>2</sub> sensor is off the patient's finger and the user silences other alarms, or
  - all alarms are off when the sensor comes off the finger, or
  - the Pulse (SpO<sub>2</sub>) and the SpO<sub>2</sub> alarms are switched off when the sensor comes off the finger, or
  - the user switches all alarms off while the sensor is off the finger, or
  - the user switches off the Pulse (SpO<sub>2</sub>) and the SpO<sub>2</sub> alarms, while the sensor is off the finger.

**CAUTON** Consider the implications when you configure **Extd.** Auto **On/Off** differently for different Measurement Settings Blocks and Profiles.

## Configuring Pulse from SpO<sub>2</sub>

```
Measurement Settings:
Main Setup -> Measurements -> <SpO<sub>2</sub> Label> -> Pulse (<SpO<sub>2</sub> Label>)
```

Factory Defaults	actory Defaults													
Item Name	O <sub>J</sub> Mo	per. ode	<ul> <li>MX800,</li> <li>MP2 - MP90</li> <li>MP5T, MP5SC</li> <li>X2</li> <li>Profile Adult</li> <li>Profile Pedi</li> <li>Profile Neo</li> </ul>											
	С	Μ												
High Limit	x	x	not applicable, see "Configuring	ECG/Pulse Alarms"	on page 38.									
Low Limit	x	x												
Pulse Alarms	x	x												
AlarmSrc (ECG)	x	x												
Pulse ( <spo<sub>2 Label&gt;)</spo<sub>	x	x	On											
System Pulse	x	x	not applicable, see "Configuring	the System Pulse" or	1 page 41.									
QRS Volume	x	x	not applicable, see "Configuring	User Interface Settin	gs" on page 126.									
$\Delta$ ExtrTachy	x		not applicable, see "Configuring	ECG/Pulse Alarms"	on page 38.									
Tachy Clamp	x													
$\Delta$ ExtrBrady	x													
Brady Clamp	x													
Alarms Off	x													
AlarmSource Sel.	x													
PulseAlarms Tele	x													

### Pulse from SpO<sub>2</sub> Configuration Implications

**Pulse** (<**SpO**<sub>2</sub> **Label**>) This setting lets you switch the Pulse from the related SpO<sub>2</sub> label **On** or **Off**. If you switch **Off** a Pulse that is currently selected as the source for the System Pulse (see "Configuring the System Pulse" on page 41), the monitor will use the next available Pulse from the list of possible pulse sources as system pulse.

### Configuring $\Delta SpO_2$ (Oxygen Saturation Difference)

MX800 Δ SpO<sub>2</sub> is a derived measurement.
MP40-90 only
Measurement Settings: Main Setup -> Measurements -> ΔSpO2

Factory Defaults												
Item Name	Oj Me	per. ode	MX800, MP40 - MP90									
	C	М	Profile Adult	Profile Pedi	Profile Neo							
First SpO <sub>2</sub>	x	x	SpO <sub>2</sub>									
Second SpO <sub>2</sub>	x	x	SpO <sub>2</sub> r									
$\Delta$ SpO <sub>2</sub>	x	x	Off									
Measurement	x		Enabled									
Color	x		Green									

### $\Delta$ SpO<sub>2</sub> Configuration Implications

First  $\text{SpO}_2/\text{Second SpO}_2$  This setting is only available when **Measurement** is **Enabled**. The formula used to calculate the  $\Delta$  SpO<sub>2</sub> value is:  $\Delta$  SpO<sub>2</sub> = First SpO<sub>2</sub> - Second SpO<sub>2</sub>. Possible sources are: SpO<sub>2</sub>, SpO<sub>2</sub>pr, SpO<sub>2</sub>po, SpO<sub>2</sub> r, SpO<sub>2</sub> 1.

**Measurement**/ $\Delta$ SpO<sub>2</sub> Set **Measurement** to **Enabled**, if you want the monitor to automatically switch the  $\Delta$  SpO<sub>2</sub> measurement **On** when both configured SpO<sub>2</sub> sources are available. The user can still switch **Off**  $\Delta$  SpO<sub>2</sub> in monitoring mode.

Set **Measurement** to **Disabled**, if you want the  $\Delta$  SpO<sub>2</sub> measurement to be permanently disabled, which means that in monitoring mode it will not be possible to switch  $\Delta$  SpO<sub>2</sub> **On**.

## Configuring NBP (Non-Invasive Blood Pressure)

Measurement Settings: Main Setup -> Measurements -> NBP

Factory Defaults																			
	Operation Mode		MX800,	MP20 - MP90	(H10/20/40)	MX800,	MP5 - MP90	(H30)	MP20 (M20/M21)	MP5 (H10/20/40)	MP5SC, MP2/X2	MP5SC, MP5#P05	MP5SC, MP5#P05				MP5T, MP5 (B10/B11/B14		
Name	С	Μ								]	Profil	e							
Item 1			Adult	Pedi	Neo	Adult	Pedi	Neo	Adult	Pedi	Neo	EWS Scoring/SpotCheck <sup>1</sup>	Frequent Vitals	RRT	Resus	Adult	Pedi	Neo	Outdoor
Alarms from	x	x	Sys.	1	1			1	1		1		1	1	1				
Sys. High	х	х	160	120	90 (0	180													160
Sys. Low	x	x	90	70 70	40	/0													90
Dia. Filgn	x	x	90 50	/0	20														90 50
Mean High	x v	x	110	90	20 70														110
Mean Low	x	x	60	50	24	65													60
Alarms	x	x	On	50	21	0)													
NBP	x	x	On																
Repeat Time	x	х		15 min	_		3 min			10 min	_	10 min	15 min				10 min		10 min
Mode	x	x	V	Auto	Manual							Manual		Auto			Manual		Auto
Phase A <sup>2</sup>	х	х	Ė	4 1 imes	5 Times							n/a							
every <sup>1</sup>	x	x			15 min							n/a							
Phase B <sup>1</sup>	x	х	Ηγ	4 1 mes	5 Times							n/a							
every <sup>1</sup>	x	х		10 min	15 min							n/a							
Phase C <sup>1</sup>	x	х	Ė	4 1 mes	5 Times							n/a							

Factory Defaults																			
a	Operation Mode		MX800,	MP20 - MP90	(H10/20/40)	MX800,	MP5 - MP90	(H30)	MP20 (M20/M21)	MP5 (H10/20/40)	MP5SC, MP2/X2	MP5SC, MP5#P05				MP5T,	MP5 (B10/B11/B14)		MP2/X2
Name	С	Μ								]	Profil	e							
Item ]			Adult	Pedi	Neo	Adult	Pedi	Neo	Adult	Pedi	Neo	EWS Scoring/SpotCheck <sup>1</sup>	Frequent Vitals	RRT	Resus	Adult	Pedi	Neo	Outdoor
every <sup>1</sup>	x	x	15		15 min							n/a							
Phase D <sup>1</sup>	x	x	. T.	4 1111165	5 Times							n/a							
every <sup>1</sup>	x	x	20 min		15 min							n/a							
Pulse(NBP)	x	х	On																
Unit	x		mml	Hg															
Done Tone	x		Off			On										On			Off
Start Time	x			Synchronized			Not Synchron.										Not Synchron.		Synchronized
VP Pressure	x		60 mmHg	40 mmHg	30 mmHg														60 mmHg
Reference	x		V	Auscultatory	Invasive					_									Auscultatory
NBP Time	x		not a Inter	applic rface S	able, Settin	this se gs" or	etting 1 page	is sto 126.	red in	the N	Monit	or Set	tings	Block	: see '	'Conf	igurir	ng Uso	er
Color	x			Red			Magenta										Magenta		White

Profile SpotCheck for English language software only.
 Settings are only visible when Mode is set to "Sequence".

#### **NBP** Configuration Implications

**Phase A** (B/C/D), every These settings are only visible if **Mode** is set to **Sequence** and you select **Setup Sequence** in the Setup NBP menu. You can then define up to four measurement cycles which will run consecutively. For each cycle you can set the number of measurements and the interval between them. If you want to run less than four cycles in a sequence, set the number of measurements for one or more cycles to **Off**.

**Pulse (NBP)** This lets you enable (**On**) or disable (**Off**) display of the Pulse numeric derived from the NBP measurement. If the NBP numeric area on the monitor screen is configured large enough, the Pulse(NBP) numeric will be displayed next to the NBP label in the NBP segment.

**Start Time** If you set **Start Time** to **Synchronized**, the monitor will time the second measurement in a series to coincide with the next easy-to-document time. For example, if you start the first measurement at 08:23, and the **Repetition Time** is set to 10 minutes, the monitor will automatically perform the next measurement at 8:30, then 8:40 and so on.

**Done Tone** Set **Done Tone** to **On** if you want to hear a short prompt tone and see a prompt message at completion of each NBP measurement.

**VP Pressure** This setting determines the cuff pressure used during a Veni Puncture inflation. The cuff deflates automatically after a set time (adult/pediatric: 170 seconds, neonatal: 85 seconds) if it is not manually deflated beforehand.

**Reference** The NBP measurement reference method can be **Auscultatory** or **Invasive**. **Invasive** delivers NBP values that very closely approximate values measured intra-arterially. **Auscultatory** delivers NBP values that very closely approximate values measured using the manual cuff method. The two references can exhibit a difference of 20 to 30 mmHg in patients with elevated pressures, with the auscultatory reference registering the lower values. Note that when **Patient Category** is set to **Neo**, the setting **Reference** is not shown. For the Neo patient category, the **Reference** used will always be **Invasive**. For further information, see the Application Note on NBP supplied on the monitor documentation DVD.

### **Configuring Invasive Pressure**

Not When an MMS is connected to the monitor for the first time, it uses the default Pressure label **ABP**. When

MP5T MP5SC

a Measurement Extension Module is connected for the first time, the Pressure label used for the combined
 Pressure/Temp connector is CVP, the label used for the single Pressure connector is PAP; plug-in Pressure modules use the label P. If you then change the pressure label in monitoring mode, each device will remember the new label the next time they are reconnected.

The configuration settings for Invasive Pressure can be set individually for each Pressure label. The selection of labels depends on the configured **Label Set**, see "Global Settings" on page 168.

## P<sup>1</sup>, ABP, ART, Ao, UAP, FAP, BAP, P1, P2, P3, P4 Settings

Measurement Settings: Main Setup -> Measurements -> <Press Label>

Factory Defaults										
Item Name	Oj M	per. ode	MX800, MP5 - MI MP2/X2	P90 (H10/20	//40)	MX800, MP5 - M	MP2/X2			
	С	M	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor	
Alarms from	x	x	Systolic		•		•	•		
Sys. High	x	x	160	120	90	180			160	
Sys. Low	x	x	90	70	55	70			90	
Dia. High	x	x	90	70	60				90	
Dia. Low	x	x	50	40	20				50	
Mean High	x	x	110	90	70				110	
Mean Low	x	x	70	50	36				70	
Alarms	x	x	On							
ABP (or other label)	x	x	not applic Configura	ot applicable, the Pressure On/Off state is not a setting, see "Invasive Pressure Configuration Implications" on page 61.						
Pulse ( <press label="">)</press>	x	x	not applic	able, see "Cor	nfiguring Pulse	e from Invasiv	ve Pressure" o	n page 63.		
Scale	x	x	150	100	100				150	
Mean Only	x	x	No							
Filter	x		12 Hz							
Mercury Cal	x		Yes							
Artifact Suppr.	x		60 sec							
Unit	x		mmHg							
Color	x		Red						White	
Extreme Alarms	x		Disabled							
$\Delta$ Extreme High	x		15	10	5				15	
$\Delta$ Extreme Low	x		15	10	5				15	
Sys. High Clamp	x		190	140	105				190	
Sys. Low Clamp	x		80	60	45	65			80	
Dia. High Clamp	x		100	80	75				100	
Dia. Low Clamp	x		45	35	15				45	
Mean High Clamp	x		125	100	75				125	
Mean Low Clamp	x		65	45	30				65	

<sup>1.</sup> The label P will be interpreted as P1 by the IntelliVue Information Center. It is therefore not recommended to use P and P1 simultaneously on the IntelliVue monitor when connected to an IntelliVue Information Center.

### CVP, RAP, LAP, UVP Settings

Measurement Settings: Main Setup -> Measurements -> <Press Label>

Factory Defaults											
Item Name	O <sub>I</sub> Mo	per. ode	MX800, MP5 - MP MP2/X2	90 (H10/20/	/40)	MX800, MP5 - M	MX800, MP5 - MP90 (H30)				
	С	Μ	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor		
Alarms from	x	x	Mean								
Sys. High	x	х	14	10	10				14		
Sys. Low	x	х	6	2	2				6		
Dia. High	x	х	6	2	2				6		
Dia. Low	х	х	-4	-4	-4				-4		
Mean High	x	х	10	4	4				10		
Mean Low	х	х	0	0	0				0		
Alarms	x	x	On				·	·			
CVP (or other label)	x	x	not applica Configurat	not applicable, the Pressure On/Off state is not a setting, see "Invasive Pressure Configuration Implications" on page 61.							
Scale	x	x	30								
Mean Only	x	х	Yes								
Filter	x		12 Hz								
Mercury Cal	x		Yes								
Artifact Suppr.	x		60 sec								
Unit	x		mmHg								
Color	x		Cyan			Blue			White		
Extreme Alarms	x		Disabled								
$\Delta$ Extreme High	x		5	5	5				5		
$\Delta$ Extreme Low	x		5	5	5				5		
Sys. High Clamp	x		20	15	15				20		
Sys. Low Clamp	x		0	0	0				0		
Dia. High Clamp	x		10	5	5				10		
Dia. Low Clamp	x		-5	-5	-5				-5		
Mean High Clamp	x		15	10	10				15		
Mean Low Clamp	x		-5	-5	-5				-5		

### **PAP Settings**

Measurement Settings: Main Setup -> Measurements -> PAP

Factory Defaults									
Item Name Oper Mod			MX800, MP2 - MP90 X2	MP2/X2					
	С	Μ	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor			
Alarms from	x	x	Diastolic						
Sys. High	x	x	34	60	60	34			
Sys. Low	x	x	10	24	24	10			
Dia. High	x	x	16	4	4	16			
Dia. Low	x	x	0	-4	-4	0			
Mean High	x	x	20	26	26	20			
Mean Low	x	x	0	12	12	0			
Alarms	x	x	On	a					
РАР	x	x	not applicable, the Configuration Im	ot applicable, the Pressure On/Off state is not a setting, see "Invasive Pressure Configuration Implications" on page 61.					
Scale	x	x	30						
Mean Only	х	x	No						
Filter	х		12 Hz						
Mercury Cal.	х		Yes						
Artifact Suppr.	x		60 sec						
Unit	x		mmHg						
Color	x		Yellow			White			
Extreme Alarms	x		Disabled						
$\Delta$ Extreme High	x		5	5	5	5			
$\Delta$ Extreme Low	x		5	5	5	5			
Sys. High Clamp	x		45	65	65	45			
Sys. Low Clamp	x		5	15	15	5			
Dia. High Clamp	x		20	5	5	20			
Dia. Low Clamp	x		-5	-5	-5	-5			
Mean High Clamp	х		25	35	35	25			
Mean Low Clamp	x		-5	5	5	-5			

### ICP, IC1, IC2 Settings

Measurement Settings: Main Setup -> Measurements -> <Press Label>

Factory Defaults									
Item Name	O <sub>I</sub> Mo	oer. ode	MX800, MP2 - MP90 X2	MP2/X2					
	С	Μ	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor			
Alarms from	x	x	Mean						
Sys. High	x	x	14	10	10	14			
Sys. Low	x	x	6	2	2	6			
Dia. High	x	x	6	2	2	6			
Dia. Low	x	x	-4	-4	-4	-4			
Mean High	x	x	10	4	4	10			
Mean Low	x	x	0	0	0	0			
Alarms	x	x	On						
ICP (or other label)	x	x	not applicable, th Configuration In	ot applicable, the Pressure On/Off state is not a setting, see "Invasiv Configuration Implications" on page 61.					
Scale	x	x	30						
Mean Only	x	x	Yes						
Filter	x		12 Hz						
Mercury Cal	x		Yes						
Artifact Suppr.	x		60 sec						
Unit	x		mmHg						
Color	х		Magenta			White			
Extreme Alarms	x		Disabled						
$\Delta$ Extreme High	x		10	10	10	10			
$\Delta$ Extreme Low	x		10	10	10	10			
Sys. High Clamp	x		20	15	15	20			
Sys. Low Clamp	x		0	0	0	0			
Dia. High Clamp	x		10	5	5	10			
Dia. Low Clamp	х		-5	-5	-5	-5			
Mean High Clamp	x		15	10	10	15			
Mean Low Clamp	x		-5	-5	-5	-5			

#### **Invasive Pressure Configuration Implications**

**Alarms From** lets you choose the pressure alarm source. You can monitor for alarm conditions in systolic, diastolic and mean pressure, either singly or in parallel.

**<Pressure Label>** The **On/Off** state of a Pressure label cannot be preconfigured. A pressure label is automatically switched **On** when a pressure transducer is connected to a pressure socket on the monitor.

Mean Only If you configure Mean Only to Yes, only the mean pressure numeric will be displayed.

Filter This setting lets you apply a 12 Hz or a 40 Hz filter to the pressure signal. Use the 12 Hz filter when the pressure transducer is connected to the intra-arterial catheter via a fluid filled tubing system (pressure line). The 12 Hz filter reduces resonant effects that can be introduced by the tubing system. The 40 Hz filter should only be selected when using special pressure transducers, such as catheter-tip pressure transducers, or transducers that are directly connected to the intra-arterial catheter without the need for a fluid filled tubing system.

**Mercury Cal** This setting determines whether the menu entries **Cal. Press** and **Cal. Factor** are shown in the pressure's setup menu. If you want users to be able to perform a mercury calibration while in monitoring mode, set **Mercury Cal** to **Yes**. For detailed information about performing a mercury calibration, see the monitor Instructions for Use.

Artifact Suppr. Some clinical procedures may affect blood pressure, for example, a flush procedure or a blood sample. The setting Artifact Suppr.lets you suppress the monitor's normal response (alarming) to these non-physiological artifacts for a specified duration (30, 60, or 90 seconds, or Off). During artifact suppression, the monitor shows the INOP message "<Pressure Label> ARTIFACT", and a question mark is shown beside the pressure numerics. Pressure alarms and the "<Pressure Label> Non-Pulsatile" INOP are suppressed during the configured period.

**Extreme Alarms** This setting let you enable or disable the extreme pressure alarms.

 $\Delta$  **Extreme High/Low** Extreme High and  $\Delta$  **Extreme Low** setting to define the difference between the pressure limit and the corresponding extreme limit. For example, if the High Limit for a pressure is 160 mmHg and  $\Delta$  **Extreme High** is 15 mmHg, the resulting Extreme High limit is 175 mmHg. Note that the  $\Delta$  **Extreme High** and  $\Delta$  **Extreme Low** settings are the same for all pressure alarm sources: systolic, diastolic, and mean.

Sys.High/Low Clamp The Sys.High Clamp and Sys.Low Clamp allow you to configure a safety threshold for the Extreme Low and Extreme High <u>systolic</u> pressure alarms. For example, if the High Limit for the systolic pressure is 180 mmHg and the  $\Delta$  Extreme High setting is 15 mmHg (180 + 15 = 195) with a Sys. High Clamp set at 190, the resulting extreme high systolic pressure alarm would be signalled at 190 instead of 195 mmHg. If the clinician sets the high or low systolic pressure alarm limits above or below the limit clamps, the normal yellow alarm limits become extreme pressure limits and a red alarm is signalled when the limit is violated. Be sure to set the clamps beyond the configured pressure limits.

**Dia.High/Low Clamp** The **Dia.High Clamp** and **Dia.Low Clamp** allow you to configure a safety threshold for the Extreme Low and Extreme High <u>diastolic</u> pressure alarms. For example, if the Low Limit for the diastolic pressure is 60 mmHg and the  $\triangle$  **Extreme Low** setting is 15 mmHg (60 - 15 = 45) with a **Dia.Low Clamp** set at 50, the resulting extreme low diastolic pressure alarm would be signalled at 50 instead of 45 mmHg. If the clinician sets the high or low diastolic pressure alarm limits above or below the limit clamps, the normal yellow alarm limits become extreme pressure limits and a red alarm is signalled when the limit is violated. Be sure to set the clamps beyond the configured pressure limits.

Mean High/Low Clamp The Mean High Clamp and Mean Low Clamp allow you to configure a safety threshold for the Extreme Low and Extreme High <u>mean</u> pressure alarms. For example, if the High Limit for the mean pressure is 120 mmHg and the  $\Delta$  Extreme High setting is 15 mmHg (120 + 15 = 135) with a Mean High Clamp set at 125, the resulting extreme high mean pressure alarm would be signalled at 125 instead of 135 mmHg. If the clinician sets the high or low mean pressure alarm limits above or below the limit clamps, the normal yellow alarm limits become extreme pressure limits and

a red alarm is signalled when the limit is violated. Be sure to set the clamps beyond the configured pressure limits.

### **Configuring Pulse from Invasive Pressure**

```
Not Measurement Settings:
MP5T Main Setup -> Measurements -> <Press Label> -> Pulse (<Press Label>)
MP5SC
```

Factory Defaults	Factory Defaults										
Item Name	Oper. Mode		MX800, MP2 - MP90 X2								
	С	Μ	Profile Adult	Profile Pedi	Profile Neo						
High Limit	x	x	not applicable, see "Configurin	not applicable, see "Configuring ECG/Pulse Alarms" on page 38.							
Low Limit	x	x									
Pulse Alarms	x	x									
AlarmSrc (ECG)	x	x									
Pulse ( <press label="">)</press>	x	x	On	On							
System Pulse	x	x	not applicable, see "Configurin	g the System Pulse" on page	41.						
QRS Volume	x	x	not applicable, see "Configurin	g User Interface Settings" on	page 126.						
$\Delta$ ExtrTachy	x		not applicable, see "Configurin	g ECG/Pulse Alarms" on paş	ge 38.						
Tachy Clamp	x										
$\Delta$ ExtrBrady	x										
Brady Clamp	x										
Alarms Off	x										
AlarmSource Sel.	x										
PulseAlarms Tele	x										

### **Pulse from Invasive Pressure Configuration Implications**

**Pulse (<Press Label>)** This setting lets you switch the Pulse from the related Invasive Pressure label **On** or **Off**. If you switch **Off** a Pulse that is currently selected as the source for the System Pulse (see "Configuring the System Pulse" on page 41), the monitor will use the next available Pulse from the list of possible pulse sources as system pulse.

### Configuring CPP (Cerebral Perfusion Pressure)

#### Measurement Settings: Main Setup -> Measurements -> CPP

CPP is a derived measurement. The measurement unit used for the CPP calculation depends on the unit setting for arterial source and ICP.

Factory Defaults									
Item Name	Oper. Mode		MX800, MP2 - MP90 X2		MP5T, MP5SC MP5 (B10/B11/B14)			MP2/X2	
	С	Μ	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor
High Limit	x	x	130	100	90				130
Low Limit	x	x	50	40	30				50
Alarms	x	x	On						
СРР	x	x	Off			Disabled			Off
Measurement	x		Enabled						
Arterial Source	x	x	ABPm	ABPm					
Scale	x		105 mmH	g					
Color	x		Magenta						White

### **CPP** Configuration Implications

**CPP** / **Measurement** Set **Measurement** to **Enabled**, if you want the monitor to automatically switch the CPP measurement **On** when both the ICP and the set arterial source are available. The user can still switch **Off** CPP in monitoring mode.

Set **Measurement** to **Disabled**, if you want the CPP measurement to be permanently disabled, which means that in monitoring mode it will not be possible to switch CPP **On**.

**Arterial Source** This setting is only available when **Measurement** is **Enabled**. The formula used to calculate CPP is: CPP = Arterial Source - ICP. Possible sources are: ABPm, ARTm, AoM, FAPm, BAPm

### Configuring PPV (Pulse Pressure Variation)

#### MX800 Measurement Settings: Main Setup -> Measurements -> PPV

PPV is a derived measurement. Pulse Pressure Variation can be calculated in two different ways on this monitor - directly from the pressure measurement or in conjunction with the continuous cardiac output (CCO) measurement. Note that PPV settings made here do not apply to the PPV calculated by the continuous cardiac output measurement. Only one PPV can be active at a time. See "Configuring CCO (Continuous Cardiac Output)" on page 66.

Factory Defaults									
Item Name	Oper. Mode		MX800, MP5 - MP90						
	С	Μ	Profile Adult	Profile Pedi	Profile Neo				
Arterial Source	x	х	ABP						
PPV	x	x	Off						
Measurement	x		Disabled	Disabled					

#### **PPV Configuration Implications**

**PPV** / Measurement If you set Measurement to Enabled, the user can switch the PPV measurement On in monitoring mode, provided the set arterial source is available. If Enabled, the derived PPV may generate a label conflict with the PPV calculated by the CCO measurement, see "CCO Configuration Implications" on page 67.

If set to **Disabled**, the PPV measurement is permanently disabled, which means that in monitoring mode it will not be possible to switch PPV **On**.

Arterial Source This setting is only available when **Measurement** is **Enabled**. Possible sources are: P, ABP, ART, AO, FAP, BAP. The formula used to calculate PPV is:

$$PPV = \frac{\sum_{i=1...4}^{PP} PP_{max}[i] - \sum_{i=1...4}^{PP} PP_{min}[i]}{\sum_{i=1...4}^{PP} PP_{mean}[i]} = 2 \times \frac{\sum_{i=1...4}^{PP} PP_{max}[i] - \sum_{i=1...4}^{PP} PP_{min}[i]}{\sum_{i=1...4}^{PP} PP_{max}[i] + \sum_{i=1...4}^{PP} PP_{min}[i]}$$

### Configuring C.O. (Cardiac Output)

```
Not MP5 Measurement Settings: Main Setup -> Measurements -> C.O.
Not MP2
```

Factory Defaults										
Item Name		per. ode	MX800, MP20 - MP90 (H10/20/40)			MX800, MP20 - MP90 (H30)				
	С	Μ	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo		
Method	x	x	not applicable	, this is not a s	etting, see "C.O	D. Configuratio	on Implications	"		
Measuring Mode	x	x	Standard							
Auto-Calibration <sup>1</sup>	x		On							
RL Shunt <sup>1/2</sup>	x		Off							
C.O.	x	x	not applicable Implications".	, the C.O. On	/Off state is no	t a setting, see	'C.O. Configu	ration		
Tblood High Limit	x	x	39.0 °C							
Tblood Low Limit	x	x	36.0 °C							
Alarms	x	x	On	On						
Temperature Unit	x		°C	°C						
Color	x		Green			Yellow				

1.Setting only available if Transpulmonary method is selected.

2.Setting not available in the U.S.A or in clinical environments under FDA control.

#### C.O. Configuration Implications

**Method** This lets you choose the C.O. method to configure the settings for each method. If a cardiac output catheter is connected, the correct method is automatically detected from the catheter type connected and cannot be manually changed.

If you use the **Transpulmonary** method, and the PPV derived from an arterial source is **Enabled** (see "Configuring PPV (Pulse Pressure Variation)" on page 64), a label conflict with the PPV derived from the continuous cardiac output measurement may be generated.

**Measuring Mode** This setting lets you change the C.O. measurement mode. If set to **Auto**, the clinician will be able to quickly perform a series of injections without further interaction with the monitor. After the clinician has initially started the C.O. measurement, for example by selecting the pop-up key **Start C.O.**, the monitor will prompt the clinician when the measurement is ready for the next injection, and the injection can be performed. If no injection is detected within 30 seconds (Right-Heart method) or 90 seconds (Transpulmonary method), the user is prompted again. If set to **Standard**, the clinician has to select the pop-up key **Start C.O.** again for each new injection.

Auto-Calibration This setting is only available if Method is set to Transpulmonary. Set this to Off if you do not want to automatically trigger a CCO calibration every time you save the C.O. value. This results in two separate pop-up keys in the Cardiac Output Procedure window: one labeled Save C.O., the other labeled Cal CCO. If Auto-Calibration is set to On, both functions are combined and only one pop-up key will be available: Save C.O.&Cal CCO.

**RL** Shunt This setting is only available if **Method** is set to **Transpulmonary**. Set **RL** Shunt to **On** to enable Right-Left Shunt detection. This setting is not available in the U.S.A or in clinical environments under FDA control.

**C.O.** The **On/Off** state of the Cardiac Output measurement cannot be preconfigured. Cardiac Output is automatically switched **On** when a C.O. transducer is connected to the monitor. In configuration mode, **C.O.** can be manually switched **On**, even if no catheter is connected.

### Configuring CCO (Continuous Cardiac Output)

```
Not MP5 Measurement Settings: Main Setup -> Measurements -> CCO
Not MP2
```

Factory Defaults									
Item Name	Oper. Mode		MX800, MP20 - MP90			X2	X2		
	C	М	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor
Settings common to CCO and CCI									
Alarms From	x	x	CCO						
CCO From	x	x	ABP						
PPV From CCO	x		Off						
CCO	x	x	not applicable Implications"	not applicable, the CCO On/Off state is not a setting, see "CCO Configuration Implications" on page 67.					
Color	x		Green				White		
CCO settings									
CCO High Limit	x	x	8.5 l/min	3.7 l/min	1.3 l/min				8.5 l/min

Factory Defaults										
Item Name	Oper. Mode		MX800, MP20 - MP90			X2				
	С	M	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor	
CCO Low Limit	x	x	4.0 l/min	2.6 l/min	0.3 l/min				4.0 l/min	
Alarms	x	x	On							
CCI settings										
CCI High Limit	x	x	4.3 l/min/m <sup>2</sup>	3.7 l/min/m <sup>2</sup>	5.2 l/min/m <sup>2</sup>				4.3 l/min/m <sup>2</sup>	
CCI Low Limit	х	x	2.0 l/min/m <sup>2</sup>	2.6 l/min/m <sup>2</sup>	1.2 l/min/m <sup>2</sup>				2.0 l/min/m <sup>2</sup>	
Alarms	x	x	On							

#### **CCO** Configuration Implications

Alarms From To set CCO alarms to be triggered by the indexed CCO value, set Alarms From to CCI.

The **CCO From** setting defines the arterial pressure source for CCO. The following pressure labels can be used as pressure source for the CCO: ABP, Ao, ART, UAP (plus FAP and BAP if **Full** is selected as the **Label Set**, see see "Global Settings" on page 168).

**PPV From CCO** This setting lets you switch the PPV calculated from the CCO measurement **On** or **Off**. Pulse Pressure Variation can be calculated in two different ways on this monitor - in conjunction with the continuous cardiac output measurement, or directly from the invasive pressure measurement. Note that this setting does not apply to the PPV calculated from the pressure measurement.

**CCO** The **On/Off** state of the CCO measurement cannot be preconfigured. CCO is automatically switched **On** when an appropriate C.O. transducer is connected to the monitor.

### Configuring SVR (Systemic Vascular Resistance)

#### MX800 Measurement Settings: Main Setup -> Measurements -> SVR

MP20-90 SVR is a derived measurement.

only

Factory Defaults										
Item Name	Oj Me	per. ode								
	С	Μ	Profile Adult	ofile Adult Profile Pedi Profile Neo						
Label	х	x	SVR	SVR						
Arterial Source	x	x	ABPm							
Set CVP	x	x	0 mmHg							
SVR	x	x	Off	Off						
Measurement	x		Enabled							
Color	x		green							

#### **SVR** Configuration Implications

**Label** This setting is only available when **Measurement** is **Enabled**. It lets you select whether the SVR or the SVRI (indexed SVR) is displayed. It is not possible to display both values at one time.

**Arterial Source** This setting is only available when **Measurement** is **Enabled**. Possible sources are: ABPm, ARTm, AoM, UAPm, FAPm, BAPm. The formula used to calculate SVR is:

SVR = 79,96 
$$\cdot \frac{(\text{Arterial Source}_{mean} - \text{CVP}_{mean})}{\text{CCO}}$$

**Set CVP** This setting is only available when **Measurement** is **Enabled**. It defines a value to be used in place of CVP to calculate the SVR if no measured CVP is available. It can be set between 0 and 16 mmHg.

**SVR** / **Measurement** If **Measurement** is set to **Enabled**, the monitor automatically switches the SVR measurement **On** when CCO and the set arterial source is available. The user can still switch **Off** SVR in monitoring mode.

Set **Measurement** to **Disabled**, if you want the SVR measurement to be permanently disabled, which means that in monitoring mode it will not be possible to switch SVR **On**.

Note that the settings made here do not affect the SVR calculated in the Hemo Calcs window.

### **Configuring SO**<sub>2</sub> (Intravascular Oxygen Saturation)

The configuration settings for SO<sub>2</sub> can be set individually for each label - SO<sub>2</sub>, SvO<sub>2</sub>, and ScvO<sub>2</sub>.

### SO<sub>2</sub>, SvO<sub>2</sub>, and ScvO<sub>2</sub> Settings

MX800 Measurement Settings: Main Setup -> Measurements -> <SO<sub>2</sub> Label> MP40-90

only

Factory Defaults										
Item Name	Oper. Mode		M1011A: MX800, MP40 - MP90 M1021A: MX800, MP60 - MP90							
	С	Μ	Profile Adult	Profile Pedi	Profile Neo					
High Limit	x	x	80%	80%						
Low Limit	x	x	SvO <sub>2</sub> : 60% SO <sub>2</sub> /ScvO <sub>2</sub> : 70%							
Alarms	x	x	On	On						
SO <sub>2</sub>	x	x	not applicable, the SO <sub>2</sub> On/Off state is not a setting, see "SO2 Configuration Implications".							
Light Intensity	x		On							
Catheter Factor <sup>1</sup>	x	x	not applicable, this is not a s	etting, see "SO2 Configuration	on Implications".					
Hb/Hct Entry <sup>1</sup>	x	x	Hct[%]							
Hct [%]l <sup>1</sup>	x	x	not applicable, this is not a setting, see "SO2 Configuration Implications".							
Calibration Value	x	x	not applicable, this is not a setting, see "SO2 Configuration Implications".							
Color	х		Yellow							

1. Setting available for the M1011A SO<sub>2</sub> module only.

### SO<sub>2</sub> Configuration Implications

<SO<sub>2</sub> Label> The On/Off state of the SO<sub>2</sub> measurement cannot be preconfigured. SO<sub>2</sub> is automatically switched **On** when an  $SO_2$  transducer is connected to the monitor.

**Light Intensity** Set this to **Off** if you do not want the Light Intensity Indicator to be displayed next to the SO<sub>2</sub> numeric.

**Catheter Factor** Depending on the probe/catheter in use, you may need to enter a catheter correction factor. The appropriate correction factor is indicated in the 'Accessories' chapter of the IntelliVue Instructions for Use or in the catheter documentation. The **Catheter Factor** can only be entered during an in-vivo calibration and is stored in the Optical Module. Note that this is not a measurement setting that can be permanently stored in the monitor configuration.

**Hb/Hct Entry** This setting determines the lab value that should be used for the in-vivo calibration. Available choices are Hct [%], Hb [g/d1], or Hb [mmo1/1].

Hct(or Hb) Depending on the configuration of the setting Hb/HCT Entry, this lets you enter either the Hct or the Hb value obtained from the laboratory analysis. Hct(or Hb) can only be entered during an in-vivo calibration and is stored in the Optical Module. Note that this is not a measurement setting that can be permanently stored in the monitor configuration.

Calibration Value This shows the calibration value resulting from the last in-vivo calibration. It is stored in the Optical Module and is not a measurement setting that can be permanently stored in the monitor configuration.

### Configuring Sp-vO<sub>2</sub> (Oxygen Extraction )

#### Measurement Settings: Main Setup -> Measurements -> Sp-vO<sub>2</sub> **MX800**

MP40-90

- Sp-vO<sub>2</sub> is a derived measurement. Oxygen extraction is the difference between the measured SpO<sub>2</sub> and only  $SvO_2$  values. To calculate the Sp-vO<sub>2</sub>, the monitor needs an  $SO_2$  source (must be labeled  $SvO_2$ ) and an  $SpO_2$  source which can be set to any of the available  $SpO_2$  labels except  $\% SpO_2T$ .

Factory Defaults															
Item Name	Oper. MX800 Mode MP60 -		r. MX800, le MP60 - MP90								АХ800, АР60 - МР90				
	С	Μ	Profile Adult	Profile Pedi	Profile Neo										
SpO <sub>2</sub> Source	x	x	SpO <sub>2</sub>		·										
Sp - vO <sub>2</sub>	x	x	Off	Off											
Measurement	x		nabled												
Color	x		Green												

### Sp-vO<sub>2</sub> Configuration Implications

**SpO**<sub>2</sub> **Source** This setting is only available when **Measurement** is **Enabled**. The formula used to calculate Oxygen Extraction is:  $Sp-vO_2 = SpO_2$  Source -  $SvO_2$ . **SpO<sub>2</sub>** Source determines the  $SpO_2$ source used for the calculation. Possible sources are: SpO<sub>2</sub>, SpO<sub>2</sub>pr, SpO<sub>2</sub>po, SpO<sub>2</sub> r, SpO<sub>2</sub> l.

**Sp-vO<sub>2</sub>** / **Measurement** If **Measurement** is set to **Enabled**, the monitor automatically switches the Sp-vO<sub>2</sub> measurement **On** when the set SpO<sub>2</sub> source and the SvO<sub>2</sub> value are available. The user can still switch **Off** Sp-vO<sub>2</sub> in monitoring mode.

Set **Measurement** to **Disabled**, if you want the Sp-vO<sub>2</sub> measurement to be permanently disabled, which means that in monitoring mode it will not be possible to switch Sp-vO<sub>2</sub> **On**.

### Configuring Transcutaneous Gas (tcGas M1018A)

#### MX800 Measurement Settings: Main Setup -> Measurements -> tcGas MP40-90

only

Factory Defaults										
Item Name	Oj Mo	Oper.         MX800,           Iode         MP40 - MP90								
	С	Μ	Profile Adult	Profile Pedi	Profile Neo					
TcpO <sub>2</sub> High Limit	x	х	80 mmHg	0 mmHg						
TcpO <sub>2</sub> Low Limit	x	x	50 mmHg							
TcpO <sub>2</sub> Alarms	x	x	On							
TcpCO <sub>2</sub> HighLimit	х	x	50 mmHg							
TcpCO <sub>2</sub> Low Limit	х	x	30 mmHg							
TcpCO <sub>2</sub> Alarms	х	x	On							
TcpO <sub>2</sub>	x	x	not applicable, the TcpO <sub>2</sub> ( Implications" on page 70.	ot applicable, the TcpO <sub>2</sub> On/Off state is not a setting, see "TcGas Configuration mplications" on page 70.						
TcpCO <sub>2</sub>	x	x	not applicable, the TcpCO <sub>2</sub> On/Off state is not a setting, see "TcGas Configuration Implications" on page 70.							
Site Time	x	x	4.0 hrs							
Site Timer	x		Enabled							
Ambient Pressure	x	x	not applicable, Ambient Pre Implications" on page 70.	essure is not a setting,	see "TcGas Configuration					
HeatPowerDisplay	x	x	not applicable, HeatPowerI Implications" on page 70.	Display is not a setting	, see "TcGas Configuration					
Disable Timer	x		Not Allowed							
Heat Switch Off	x		No							
Transducer Temp.	x	x	43.0 °C							
CO <sub>2</sub> Correction	x		On							
MetabolismFactor	x		8 mmHg							
TcGas Unit	x		mmHg							
Temperature Unit	x		<sup>0</sup> C							
TcpO <sub>2</sub> Color	x		Blue	Blue						
TcpCO <sub>2</sub> Color	x		Green							

#### **TcGas Configuration Implications**

Prolonged continuous monitoring may increase the risk of undesirable changes in skin characteristics, such as irritation, reddening, blistering or burns. If the site timer is disabled, the transducer will heat indefinitely while on a patient.

 $TcpO_2/TcpCO_2$  The On/Off state of the  $TcpO_2/TcpCO_2$  measurement cannot be preconfigured. TcGas measurements are automatically switched **On** when a tcGas transducer is connected to the monitor.

**Site Time** This setting defines the period after which the clinician is reminded by the monitor to change the sensor site. When the time expires, the monitor sounds a tone and displays a change site INOP. Depending on how **Heat Switch Off** is configured, the monitor either switches off the transducer heating or continues monitoring. Choose the time you want the transducer to remain on the measurement site. The optimum time depends on the transducer temperature and your patient's skin sensitivity.

**Site Timer** This setting is only available if **Disable Timer** is configured to **Allowed**. To disable the site timer, set **Site Timer** to **Disabled**.

Ambient Pressure is not a setting that can be stored in the configuration. It uses the Global Setting Altitude (see "Global Settings" on page 168) to determine the default Ambient Pressure. Ambient Pressure can be adjusted in both Monitoring and Configuration mode. The monitor remembers this pressure setting until a new one is entered.

**HeatPowerDisplay** is not a setting that can be stored in the configuration, it automatically defaults to **Absolute**. When a tcGas transducer is connected, **HeatPowerDisplay** lets you change the way the heating power of the tcGas sensor is displayed. Choices are **Absolute** and **Relative**. For more detail, see the IntelliVue Instructions for Use.

**Disable Timer** If **Disable Timer** is set to **Allowed**, the user can disable the site timer in monitoring mode so that the Change Site reminder message is not shown.

Heat Switch Off If Heat Switch Off is set to Yes, the transducer heater is automatically switched off when the site time period has elapsed. If Heat Switch Off is set to No, the transducer will remain at operating temperature while it is attached to the patient, and tcGas monitoring will not be interrupted when the site time period is over.

**Transducer Temp.** Lets you select the temperature to heat the patient's skin under the tcGas transducer. This temperature should be selected according to the patient's age, weight and physical condition, and in accordance with the hospital policy. Usually, a higher transducer temperature gives a better correlation and a quicker response time. However, higher temperatures also increase the risk of skin burns. Most physicians prefer a temperature between 42°C (107° F) and 44°C (111° F), and a site time of four hours or less. Usually, the higher the transducer temperature, the less the site time should be. Whenever you change the temperature setting, the monitor forces you to make a new calibration.

 $CO_2$  Correction / MetabolismFactor Transcutaneous pCO<sub>2</sub> values tend to be higher than arterial values due to the metabolic processes of the skin and the effect of heating on the blood under the transducer.

The transducer temperature causes an increase in partial  $CO_2$  pressure. If  $CO_2$  Correction is set to **On**, the monitor automatically corrects the measured tcp $CO_2$  for this increase.

 $CO_2$  production in the epidermis increases the  $CO_2$  value. If  $CO_2$  Correction is set to On, this metabolic effect is corrected according to the value configured for **MetabolismFactor**. The monitor automatically deducts the set value from the measured tcp $CO_2$  value.

### Configuring Transcutaneous Gas (IntelliVue TcG10)

**MX800** The default settings for the IntelliVue TcG10 in combination with the IntelliBridge EC10 module and their configuration implications are specific to individual IntelliVue TcG10 and IntelliBridge drivers.

only They are stored in the IntelliBridge EC10 module and cannot be stored in the monitor configuration. See the documentation supplied with the the IntelliVue TcG10 Instructions for Use and IntelliBridge EC10 module.

### Configuring CO<sub>2</sub> (Capnometry)

 $CO_2$  can be measured by an anesthetic gas analyzer (AGM, G1, or G5), measurement extension modules (Microstream, Sidestream, or Mainstream), or the integrated  $CO_2$  measurement in the MP5. The settings listed in this section do not apply to  $CO_2$  measured by an anesthetic gas analyzer.

Most settings apply to all supported  $CO_2$  extensions. Where a setting only applies to a particular device, this is indicated.

The algorithm with which the  $CO_2$  measurement is calculated, changes according to the configured altitude setting. Make sure that the correct altitude setting is entered before the  $CO_2$  measurement is used. **Altitude** can be configured as a Global Setting, see "Configuring General Global Settings" on page 168.

#### Measurement Settings: Main Setup -> Measurements -> CO<sub>2</sub>

Factory Defaults										
Item Name	Oper. Mode		MX800, MP5 - MP90 (H10/20/40), MP2/X2			MX800, MP5 - MP90 (H30)			MP2/X2	
	С	Μ	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor	
etCO <sub>2</sub> High	x	x	50			60			50	
etCO <sub>2</sub> Low	x	x	30			25			30	
imCO <sub>2</sub> High	x	x	4							
CO <sub>2</sub> Alarms	x	x	On							
CO <sub>2</sub>	x	x	not applicable, the CO $_2$ On/Off state is not a setting, see "CO2 Configuration Implications" on page 73							
imCO <sub>2</sub>	x		On			Off			On	
N <sub>2</sub> O Corr. <sup>1</sup>	x	x	Off							
Oxygen Corr. <sup>2</sup>	x	x	16%							
Gas Corr. <sup>2</sup>	x	x	Off							
Agent Corr. <sup>2</sup>	x	x	0%							
Scale	x	x	40 mmHg			50 mmHg			40 mmHg	
Unit	x		mmHg							
Color	x		Yellow			White			White	
Max Hold	x		Off							
HumidtyCorr	x		BTPS							

1. Setting available for M3015A, M3016A and MP5 with Microstream  $\rm CO_2$  only.
2.Setting available for M3014A only.

# CO<sub>2</sub> Configuration Implications

 $CO_2$  The On/Off state of the CO<sub>2</sub> measurement cannot be preconfigured. CO<sub>2</sub> is automatically switched On when a CO<sub>2</sub>transducer is connected to the monitor.

**imCO**<sub>2</sub> This setting lets you switch the inspired minimum  $CO_2$  (imCO<sub>2</sub>) numeric **On** or **Off**. The imCO<sub>2</sub> value is the smallest  $CO_2$  concentration measured during inspiration. This helps you to detect unphysiological  $CO_2$  concentrations in the inspired gas.

The  $imCO_2$  High limit defines the alarm limit for the  $imCO_2$  numeric.

**N20 Corr.** This settings lets you correct the  $CO_2$  reading for proportions of  $N_2O$ . If  $N_2O$  is present in the ventilation gas mixture, you must turn this on. If this setting is not available in the **Setup CO<sub>2</sub>** menu, the  $CO_2$  measurement in your Measurement Extension Module does not require  $N_2O$  correction or it is setup with **Gas Corr.** (see below).

**Gas Corr.** This settings allows correction of  $CO_2$  reading for proportions of Helium or  $N_2O$ . If Helium or  $N_2O$  is present in the ventilation gas mixture, you must make the appropriate selection. If this setting is not available in the **Setup CO<sub>2</sub>** menu, the  $CO_2$  measurement in your Measurement Extension Module does not require  $N_2O$  or Helium correction, or the  $N_2O$  correction is setup with **N20 Corr.** (see above).

Agent Corr. This setting lets you correct the  $CO_2$  reading for proportions of the following anesthetic agents: Halothane, Enflurane. Isoflurane, Sevoflurane, Desflurane. Corrections can be applied between 0.0% and 20.0%. If any of the specified anesthetic agents is present in the ventilation gas mixture, you must select the appropriate concentration.

**Oxygen Corr.** This settings lets you correct the  $CO_2$  reading for proportions of  $O_2$  in the gas mixture. If this setting is not available in the **Setup**  $CO_2$  menu, the  $CO_2$  measurement in your Measurement Extension Module does not require  $O_2$  correction.

**Max Hold** If **Max Hold** is configured to **10** sec or **20** sec, the etCO<sub>2</sub> numeric shows the highest  $CO_2$  value measured within the previous 10 or 20 seconds. If set to **Off** the etCO<sub>2</sub> numeric shows breath-to-breath value.

**HumidtyCorr** This setting determines the method used to correct the influence of water vapor in the patient's breath on the  $CO_2$  reading. The options are Body Temperature Pressure Saturated (**BTPS**) or Standard Temperature Pressure Dry (**STPD**). Setting **HumidtyCorr** to **BTPS** takes the partial pressure contributed by the water vapor into consideration and therefore results in lower  $CO_2$  readings when compared to **STPD**. For an exact definition and the formula used, see the section on "Measurement Specifications" in the "Installation and Specifications" chapter of the monitor's Instructions for Use.

# Configuring awRR from CO<sub>2</sub> (Airway Respiration Rate)

Measurement Settings: Main Setup -> Measurements -> awRR

AwRR can be derived from the  $CO_2$  measured by an anesthetic gas analyzer (AGM, G1, or G5), or by any of the  $CO_2$  measurement extension modules (Microstream, Sidestream, or Mainstream), or by the integrated  $CO_2$  measurement in the MP5. The settings listed in this section do **not** apply for the awRR derived from an anesthetic gas analyzer.

Factory Defaults									
Item Name	Ор Ма	oer. ode	MX800, MP2 - MP90 X2						
	С	Μ	Profile Adult	Profile Adult Profile Pedi Profile Neo					
High Limit	x	x	30		100				
Low Limit	x	x	8		30				
Apnea Time	x	x	20 sec	20 sec					
Alarms	x	x	On						
awRR	x	x	On						

#### awRR Configuration Implications

**Apnea Time** The apnea alarm is a high priority red alarm used to detect apneas. The **Apnea Time** defines the time period between the point where the monitor cannot detect any respiration activity and the indication of the apnea alarm.

 ${\tt awRR}\,$  This setting lets you switch the awRR measurement from  ${\rm CO}_2\,{\tt On}$  or  ${\tt Off.}\,$ 

# Configuring Resp (Impedance Respiration)

```
Measurement Settings: Main Setup -> Measurements -> Resp
```

Factory Defaults									
Item Name	Oper. Mode		Oper. MX800, Mode MP5 - MP90 (H10/20/40) MP2/X2		MX800, MP5 - MP90 (H30)			MP2/X2	
	С	Μ	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor
High Limit	x	x	30		100				30
Low Limit	x	x	8		30				8
Apnea Time	x	x	20 sec						
Alarms	x	x	On						
Resp	x	x	On	On			Off		
Detection	x	x	Auto						
Color	x		Yellow			White			White

#### **Resp Configuration Implications**

**Apnea Time** The apnea alarm is a high priority red alarm used to detect apneas. The **Apnea Time** defines the time period between the point where the monitor cannot detect any respiration activity and the indication of the apnea alarm.

**Resp** This setting lets you switch the Resp measurement **On** or **Off**. If **Resp** is switched **Off**, the small current applied to the Resp electrodes to enable the impedance measurement is switched off.

**Detection** The respiration detection level can be configured to be set either automatically or manually. For further information, see the section on "Changing Resp Detection Modes" in the monitor's Instructions for Use.

# **Configuring Spirometry**

MX800 Measurement Settings: Main Setup -> Measurements -> Spirometry

```
MP40-90
```

only

Factory Defaults								
Item Name	Oper. Mode		MX800, MP40 - MP90					
	С	Μ	Profile Adult	Profile Pedi	Profile Neo			
No Al. til Breath	x		On					
Color	x		White					

# **Spirometry Configuration Implications**

**No Al. til Breath** If set to set **On**, the monitor suppresses alarms from the Spirometry module until it detects that a patient has been connected to the module (when breathing is detected).

# Spirometry AWF (Airway Flow) Settings

```
Measurement Settings: Main Setup -> Measurements -> Spirometry -> AWF
```

Factory Defaults								
Item Name	Oj Me	per. ode	MX800, MP40 - MP90	ЛХ800, ЛР40 - МР90				
	С	M	Profile Adult	Profile Pedi	Profile Neo			
Scale	x	x	150 l/min	100 l/min	20 l/min			
Color	x		White					

# Spirometry AWP (Airway Pressure) Settings

Measurement Settings: Main Setup -> Measurements -> Spirometry -> AWP

Factory Defaults												
Item Name	Oj M	per. ode	MX800, MP40 - MP90									
	С	Μ	Profile Adult	ofile Adult Profile Pedi Profile Neo								
PIP High	x	x	40 cmH2O 25 cmH2O 20 cmH2O									
PIP Alarms	x	x	On	On								
PEEP High	x	x	25 cmH2O									
PEEP Low	x	x	0 cmH2O									
PEEP Alarms	x	x	On									
Scale	x	x	40 cmH2O 40 cmH2O 20 cmH2O									
Color	x		White									

### Spirometry AWV (Airway Volume) Settings

Measurement Settings: Main Setup -> Measurements -> Spirometry -> AWV

Factory Defaults											
Item Name	Oj M	Pper. MX800, fode MP40 - MP90									
	С	M	Profile Adult	ofile Adult Profile Pedi Profile Neo							
MVexp High	x	x	3.0 l/min 4.0 l/min 0.8 l/min								
MVexp Low	x	x	4.0 l/min	0.4 l/min							
MVexp Alarms	x	x	On								
MV	x	x	exp + in								
TV	x	x	exp + in								
Scale	x	x	800 ml 200 ml 50 ml								
Color	x		White								

# **Spirometry Configuration Implications**

**MV** This setting lets you choose the measured components for minute volume (inspiratory, expiratory, inspiratory + expiratory or off). If set to **Off**, there will be no alarming for minute volume.

**TV** This setting lets you choose the measured components for tidal volume (inspiratory, expiratory, inspiratory + expiratory or off). If set to **Off**, there will be no alarming for tidal volume.

# Spirometry Gas Compensation Settings

```
Measurement Settings: Main Setup -> Measurements -> Spirometry -> Gas Compensation
```

Factory Defaults							
Item Name	Oj Me	per. ode	MX800, MP40 - MP90				
	С	Μ	Profile Adult	Profile Pedi	Profile Neo		
Mode	x	x	Manual				
Balance Gas	x	x	N <sub>2</sub>	N <sub>2</sub>			
Inspired O <sub>2</sub>	x	x	30%				
Inspired Agent	x	x	0.0%				
Inspired Temp	x	x	25 <sup>0</sup> C				
Unit	x		<sup>0</sup> C				

#### **Spirometry Configuration Implications**

**Mode** Use this setting to choose the gas compensation mode. Select **Manual** to manually enter gas concentrations or **Gas Analyzer** to derive gas concentrations from the Philips gas analyzer.

Note: Gas concentrations from the gas analyzer are only available for Philips gas analyzers, not for devices connected via a Vuelink or IntelliBridge plug-in module. If gas concentrations from the gas analyzer are selected but not all data is available, the missing data is taken from manually entered values. In case of invalid data or no data at all, the INOP message SPIRO GAS COMPENS? is displayed.

Balance Gas This setting lets you select the type of balance gas used. Choices are N2, and N20.

**Inspired**  $O_2$  / **Inspired Agent** / **Inspired Temp** These settings can be adjusted to match the concentration of inspired  $O_2$  and anesthetic agent, as well as the temperature of the inspired gas.

# Configuring RRspir (Respiration from Spirometry)

```
MX800 Measurement Settings: Main Setup -> Measurements ->
MP40-90 Spirometry -> RRspir
only
```

Factory Defaults							
Item Name	Oper. Mode		MX800, MP40 - MP90				
	С	Μ	Profile Adult	Profile Pedi	Profile Neo		
High Limit	x	x	30 rpm	•	60 rpm		
Low Limit	x	x	8 rpm		30 rpm		
Apnea Time	х	x	20 sec				
RRspir Alarms	x	x	On				
RRspir	х	x	On				

### **RRspir Configuration Implications**

**Apnea Time** The apnea alarm is a high priority red alarm used to detect apneas. The **Apnea Time** defines the time period between the point where the monitor cannot detect any respiration activity and the indication of the apnea alarm.

**RRspir** This setting lets you switch the RRspir measurement **On** or **Off**.

# **Configuring EEG**

#### MX800 Measurement Settings: Main Setup -> Measurements -> EEG MP40-90

only

Factory Defaults									
Item Name	Oj Mo	per. ode	MX800, MP40 - MP90						
	С	Μ	Profile Adult	Profile Pedi	Profile Neo				
TP	x	x	On						
SEF	x	x	On						
MDF	x	x	Off						
PPF	x	x	Off						
Delta	x	x	Off						
Theta	x	x	Off						
Alpha	x	x	Off						
Beta	x	x	Off						
SEF Threshold	x		90%						
Numeric Average	x		8 sec						
Wave Scale	x	x	100uV						
Show Gridlines	x		No						
Low Filter	x	x	0.5 Hz						
High Filter	x	x	30 Hz						
Buffer A	x		not applicable, this sett	ting is stored in the Monitor	Settings Block: see "Configuring CSA				
Buffer B	x		Buffers" on page 166.						
Buffer C	x								
Smoothing CSA	x		On						
Impedance Limit	x	x	5 kOhm						
Color	x		Yellow						
EEG	x	x	not applicable, the EE0 Implications".	G On/Off state is not a settir	ng, see "EEG Configuration				

### **EEG Configuration Implications**

**TP** This setting lets you switch the **TP** numeric **On** or **Off**. The **TP** (Total Power) numeric indicates the power in the measured frequency band.

**SEF** lets you switch the **SEF** numeric **On** or **Off**. The **SEF** (Spectral Edge Frequency) is the frequency below which a configurable percentage (set by the **SEF Threshold**) of the Total Power is measured.

**MDF** lets you switch the **MDF** numeric **On** or **Off**. The **MDF** (Mean Dominant Frequency) is the mean value of the frequency which dominates the measured EEG.

**PPF** lets you switch the **PPF** numeric **On** or **Off**. The PPF (Peak Power Frequency) is the frequency with the highest measured amplitude.

**Delta** lets you switch the **Delta** numeric **On** or **Off**. The **Delta** numeric is the percentage of total power in the Delta wave frequency band (0.5 to 4 Hz).

**Theta** lets you switch the **Theta** numeric **On** or **Off**. The **Theta** numeric is the percentage of total power in the Theta wave frequency band (4 to 8 Hz).

**Alpha** lets you switch the **Alpha** numeric **On** or **Off**. The **Alpha** numeric is the percentage of total power in the Alpha wave frequency band (8 to 13 Hz)

**Beta** lets you switch the **Beta** numeric **On** or **Off**. The **Beta** numeric is the percentage of total power in the Beta wave frequency band (13 to 30 Hz).

**SEF** Threshold defines the percentage of the TP for which the SEF is calculated.

Numeric Average lets you define the averaging time used for all EEG numerics.

#### Wave Scale / Show Gridlines

- When **Show Gridlines** is set to **No**, you can choose from the available **Wave Scale** values. Scaling information is displayed as a size bar beside the EEG wave.
- When **Show Gridlines** is set to **Yes**, scales are defined as a range, such as  $\pm$  50  $\mu$ V or  $\pm$  250  $\mu$ V. Gridlines and the current wave scale values are shown with the EEG wave.

Note that this only changes the visual appearance of the wave. It does not affect the signal analyzed by the monitor or printed in reports or recordings.

**Low Filter / High Filter** Set the low and high pass filters to screen out undesirable interference from the raw EEG wave display.

**Smoothing CSA** This setting defines whether smoothing of the CSA lines is **On** or **Off**.

**Impedance Limit** Allows you to set the **Impedance Limit** for all electrodes simultaneously. If the limit is exceeded during monitoring, an INOP will appear and the graphic impedance indicator will change.

**EEG** The On/Off state of the EEG measurement cannot be preconfigured. EEG measurements are automatically switched **On** when an EEG transducer is connected to the monitor.

# **Configuring EEG Montages**

MX800 Measurement Settings: Main Setup -> Measurements -> EEG -> MP40-90 Show Montage

only

- 1 In the Setup EEG menu, select Show Montage to enter the EEG Impedance/Montage window.
  - 2 From the drop-down list, select the name of the montage you want to configure.
  - 3 Select **Change Electrds** and follow the instructions given in the window.

- 4 Confirm when finished.
- 5 For each other montage, repeat steps 2 to 4.

# **Renaming EEG Montages**

- 1 In the Setup EEG menu, select Show Montage to enter the EEG Impedance/Montage window.
- 2 Select the pop-up key Change Name and use the on-screen keyboard to enter the new name.
- 3 Select **Enter** to save your changes.

Factory Defaults							
Item Name	Oj Mo	per. ode	MX800, MP40 - MP90				
	С	Μ	Profile Adult	Profile Pedi	Profile Neo		
Select Montage	x	x	Montage A				
Montage A							
Electrode 1+	x		FP1				
Electrode 1-	x		Т3				
Electrode 2+	x		Fp2				
Electrode 2-	x		Τ4				
Montage B							
Electrode 1+	x		O1				
Electrode 1-	x		Т3				
Electrode 2+	x		O2				
Electrode 2-	x		T4				
Montage C							
Electrode 1+	x		F3				
Electrode 1-	x		C3				
Electrode 2+	x		F4				
Electrode 2-	x		C4				
Montage D							
Electrode 1+	x		C3				
Electrode 1-	x		Р3				
Electrode 2+	x		C4				
Electrode 2-	x		P4				
Montage E							
Electrode 1+	x		Fp1				
Electrode 1-	x		T5				
Electrode 2+	x		Fp2				
Electrode 2-	x		Т6				

### **EEG Montages Configuration Implications**

**Select Montage** Lets you select the default montage the monitor uses when the EEG measurement is started.

# Configuring BIS (Bispectral Index)

```
MX800 Measurement Settings: Main Setup -> Measurements -> BIS
MP20-90
```

only

Factory Defaults	Factory Defaults										
Item Name	Op Mo	per. ode	MX800, MP20 - MP90	) (H10/20/40)		MX800, MP20 - MP90 (H30)					
	С	Μ	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo			
SQI	x		On								
EMG	x		On								
SR	x		On								
Bursts <sup>1</sup>	x		On			Off					
SEF	x		Off								
TP	x		Off								
Scale	x		100uV	00uV							
Show Gridlines	x		No	yo							
Filters	x		On								
Low Filter	x		2 Hz								
High Filter	x		70 Hz								
Notch Filter	x		On								
High Limit	x		70								
Low Limit	x		20								
Alarms	x		On								
Cont. Imp. Check	x		not applicable,	this is not a set	ting, see "BIS C	Configuration In	nplications"				
Smoothing Rate	x		30 sec			15 sec					
Color	x		Yellow			Magenta					
BIS	x	x	not applicable,	the BIS On/O	ff state is not a s	setting, see "BIS	Configuration	Implications".			

1.Numeric available with BISx module only.

# **BIS Configuration Implications**

**EMG** This setting lets you switch the **EMG** numeric **On** or **Off**. The **EMG** (Electromyographic Activity) numeric reflects the electrical power of muscle activity and high frequency artifacts.

**SR** lets you switch the **SR** numeric **On** or **Off**. The **SR** (Suppression Ratio) is the percentage of time over the last 63-second period during which the EEG is considered to be in a suppressed state.

**Bursts** lets you switch the **Bursts** numeric **On** or **Off**. To configure this setting, you must disconnect the BIS/BISx Engine from the BIS module. The **Bursts** numeric helps you quantify suppression by measuring the number of EEG bursts per minute, where an EEG burst is defined as a period of activity followed and preceded by inactivity (at least 0.5 second).

**SEF** lets you switch the **SEF** numeric **On** or **Off**. The **SEF** (Spectral Edge Frequency) is the frequency below which 95% of the Total Power is measured.

**TP** lets you switch the **TP** numeric **On** or **Off**. The **TP** (Total Power) numeric indicates the power in the frequency band 0.5 to 30 Hz. The useful range is 30 - 100 dB.

Scales / Gridlines When Gridlines are switched Off, you can choose from the available scale values: 50  $\mu$ V, 100  $\mu$ V, 200  $\mu$ V, and 500  $\mu$ V. Scaling information is displayed as a vertical bar on the EEG wave together with its height equivalent in  $\mu$ V.

When **Gridlines** are switched **On**, scales are defined as a range, either  $\pm 25 \,\mu\text{V}, \pm 50 \,\mu\text{V}, \pm 100 \,\mu\text{V}$ , or  $\pm 250 \,\mu\text{V}$ . Scaling information is shown in the form of gridlines.

Low Filter / High Filter / Notch Filter These settings let you apply filters to the raw EEG wave. The Low Filter and the High Filter screen out undesirable interference from the raw EEG wave display. The Notch Filter removes line frequency interference. Filter settings affect the EEG wave and the SEF and TP values, but they do not affect the BIS, EMG, SR, and SQI values.

**Cont. Imp. Check** This setting can be temporarily changed in monitoring mode, but the changes cannot be permanently stored in config mode. The default is **On**. The current setting is kept in the monitor's buffered memory and retained for a max of 60 sec after the monitor is switched off. If the monitor is switched off for more than 60 sec, **Cont. Imp. Check** will be reset to **On**.

**Smoothing Rate** This setting lets you define how the monitor averages the BIS value. Set this to **15 Sec** to increase responsiveness to changes in the patient's state. If set to **30 Sec**, the BIS trend will be smoother with decreased variability and sensitivity to artifacts.

**BIS** The On/Off state of the BIS measurement cannot be preconfigured. BIS measurements are automatically switched On when an BIS transducer is connected to the monitor.

# **Configuring Temperature**

When an MMS is connected to the monitor for the first time, it uses the default Temperature label **Temp**.

When a Measurement Extension Module is connected for the first time, the Temp label used for the combined Pressure/Temp connector is **Trect**, the label used for the single Temp connector is **Tskin**; plug-in Temperature modules use the label **Temp**. If you then change the Temp label, the information will be automatically stored and each device will remember the new label the next time they are reconnected.

The configuration settings for Temperature can be set individually for each Temp label. The selection of labels depends on the configured **Label Set**, see "Configuring General Global Settings" on page 168.

# Temp, Trect, Tcore, Tskin, Tesoph, Tnaso, Tart, Tven, Tvesic, Ttymp, Tcereb, Tamb, T1, T2, T3, T4 Settings

Measurement Settings: Main Setup -> Measurements -> <Temp Label>

Factory Defaults									
Item Name	Oper. Mode		MX800, MP5 - MP90 MP2/X2	) (H10/20/40)		MX800, MP5 - M	IP90 (H30)	)	MP2/X2
	С	Μ	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor
High Limit	x	x	39	39					
Low Limit	x	x	36			35 3			36
Alarms	x	x	On						
Temp (or other label))	x	x	not applicable Implications"	not applicable, the Temp On/Off state is not a setting, see "Temp Configuration Implications" on page 83.					
Unit	x		<sup>0</sup> C						
Range	x		3543	3543					
Color	x		Green			Light Gre	een		White

See "Configuring C.O. (Cardiac Output)" on page 65 for Tblood settings. Tinj has no settings. Taway is sourced from a VueLink or IntelliBridge plug-in module, therefore no settings can be changed.

# **Temp Configuration Implications**

**<Temp Label>** The **On/Off** state of the Temp measurement cannot be preconfigured. The Temp measurement is automatically switched **On** when a Temp probe is connected to a Temp socket on the monitor.

Unit Lets you select the temperature unit for the temperature label.

**Range** This setting defines the measurement range for the temperature label. Available choices are 1...45, 11...45, and 35...43.

The configured **Range** is used for the horizon screen trend application. When a temperature is viewed as horizon trend,

- the high end of the **Range** defines the maximum temperature that can be selected in the related Screen Trend menu under **Set High Horizon**,
- the low end of the **Range** defines the minimum temperature that can be selected in the related Screen Trend menu under **Set Low Horizon**.

# **Configuring Predictive Temp**

```
MP5/ pToral, pTaxil, pTrect Settings
```

```
MP5T Measurement Settings: Main Setup -> Measurements -> <pTemp Label>
MP5SC
only
```

Factory Defaults	Factory Defaults							
Item Name	Oj M	per. ode	er. MP5, MP5T, MP5SC de					
	С	Μ	Profile Adult Profile Pedi Profile Neo					
Label	x	x	not applicable, the 'Label' is r Implications".	not applicable, the 'Label' is not a setting, see "Predictive Temp Configuration implications".				
Value Lifetime	x	x	1 h					
Mode	x	x	not applicable, 'the Mode' is 1 Implications".	not applicable, 'the Mode' is not a setting, see "Predictive Temp Configuration Implications".				
Prompt Tones	x		On					
Unit	x		°C					
Color	x		Yellow	Yellow				
Preferred Label	x		pToral					
pToral (or other label)	х	x	not applicable, the Predictive Configuration Implications".	Temp On/Off state is not a se	tting, see "Predictive Temp			

# **Predictive Temp Configuration Implications**

Label Lets you select the label you want to configure. This is not a setting and cannot be preconfigured.

**Value Lifetime** Lets you configure the life time of a predicted temp value. After the configured life time, a predictively measured Temp value disappears from the monitor screen, as well as from the screen of a connected Information Center. This setting applies to all predictive temp labels.

**Mode** Lets you switch between **Continuous** and **Predictive** measurement mode. This switch only applies when monitoring, it is not a setting and cannot be preconfigured. See the IntelliVue Instructions for Use for more detail.

**Prompt Tones** Set this to **On** if you want the monitor to indicate when it is ready for a new measurement and when a measurement is finished by a prompt message and a prompt tone.

**Unit** Lets you select the temperature unit.

**Preferred Label** Lets you configure which predictive temp label the monitor will use when one of the following circumstances occurs:

- an oral or axillary probe is connected after a rectal probe has been used before,
- the patient is discharged,
- a coldstart is performed.

<PTemp Label> The On/Off state of the predictive temp measurement cannot be preconfigured. It is automatically switched On when a predictive temp sensor is connected to the monitor.

# Configuring $\Delta$ Temp (Temperature Difference)

Measurement Settings: Main Setup -> Measurements ->  $\Delta$ Temp

 $\Delta$ Temp is a derived measurement.

Item Name	Oper. Mode		per. MX800, MP5T, M ode MP2 - MP90 MP5 (B1 X2		/T, MP5SC (B10/B11/B14)		MP2/X2		
	С	Μ	Profile Adult	Profile Pedi	Profile Neo	Profile Adult	Profile Pedi	Profile Neo	Profile Outdoor
First Temp	x	x	Trect				•		
Second Temp	x	x	Tblood						
$\Delta$ Temp	x	x	Off						
Measurement	x		Enabled			Disabled			Enabled
Color	x		Green						White

# $\Delta$ Temp Configuration Implications

First Temp/Second Temp This setting is only available when Measurement is Enabled. It lets you select two temperature labels to calculate the temperature difference. Note that none of Predictive Temp labels can be selected for the  $\Delta$ Temp calculation.

The formula used to calculate  $\Delta$ Temp is:  $\Delta$ Temp = First Temp - Second Temp.

 $\Delta \text{Temp}$  / Measurement If Measurement is set to Enabled, the monitor automatically switches the  $\Delta \text{Temp}$  measurement On when both configured Temp sources are available. The user can still switch Off  $\Delta \text{Temp}$  in monitoring mode.

Set **Measurement** to **Disabled**, if you want the  $\Delta$ Temp measurement to be permanently disabled, which means that in monitoring mode it will not be possible to switch  $\Delta$ Temp **On**.

# **Configuring VueLink**

MX800 Measurement Setting: Main Setup -> Measurements -> VueLink X (or MP40-90 Device Name)

only

Factory Defaults										
Item Name	Oper. Mode		Oper. Mode		MX800, MP40 - MP90	0 (H10/20/40)		MX800, MP40 - MP90 (H30)		
	С	M	Profile Adult	ofile Adult Profile Pedi Profile Neo			Profile Pedi	Profile Neo		
Device Alarms	x		Accepted	Accepted Ignored						
Default Color	x		Green	Green						

#### VueLink Configuration Implications

Device Alarms The VueLink module itself generates INOPs, but does not generate alarms. If the external device's alarms are on, the module transmits these to the monitor. Device Alarms lets you select whether these alarms are indicated on the monitor (Accepted) or Ignored. Note that the setting **Device** Alarms is not cloned between monitors. If you clone configurations between IntelliVue monitors with VueLink plug-in modules, you must check that these settings are correct and adjust them according to customer specifications, if needed.

**Default Color** The default color is the color used for any numerics that are not linked to a particular wave, and for any waves for which no color is specifically configured. Note that this setting is not cloned between monitors. If you clone configurations between IntelliVue monitors with VueLink plug-in modules, you must check that these settings are correct and adjust them according to customer specifications, if needed.

<Other Settings> All other VueLink settings are specific to the individual driver. They are stored in the VueLink module and cannot be stored in the monitor configuration. See the documentation supplied with the VueLink module for configuration information.

# **Configuring IntelliBridge**

**MX800** 

**MP40-90** 

The default settings for the IntelliBridge (EC10) plug-in module and their configuration implications are specific to individual IntelliBridge drivers. They are stored in the IntelliBridge EC10 module and cannot be stored in the monitor configuration. See the documentation supplied with the IntelliBridge EC10 only module and the related IntelliBridge Device Driver Instructions for Use.

# **Configuring the Gas Analyzer**

#### **General Gas Analyzer Settings** MX800

#### MP5-90 Measurement Settings: Main Setup -> GM (AGM)

option All gas analyzer settings are available on monitors with option H30 only. The MP5 does not support the H30 only AGM (M1026A/B).

Factory Defaults								
Item Name	Oj Me	Oper. MX800, Mode MP5 - MP90 (H30)						
	С	Μ	Profile Adult	Profile Pedi	Profile Neo			
Agent <sup>1</sup>	x	x	ISO					
CO <sub>2</sub>	x	x	not a setting, see "Configuring	not a setting, see "Configuring CO2 from Gas Analyzer" on page 92				
awRR	x	x	not a setting, see "Configuring	not a setting, see "Configuring awRR from Gas Analyzer (Airway Respiration Rate)" on page 92				
O <sub>2</sub>	x	x	not a setting, see "O2 Settings"	on page 87				
N <sub>2</sub> O	x	x	not a setting, see "N2O (Nitrou	us Oxide) Settings" on page 88				
ISO <sup>1</sup>	x	x	not a setting, see "ISO (Isoflura	n) Settings" on page 89				
AGT <sup>2</sup>	x	x	not a setting, see "AGT / AGT1 / AGT2 Settings" on page 88					
AGT1 <sup>3</sup>	x	x	not a setting, see "AGT / AGT"	1 / AGT2 Settings" on page 88				
AGT2 <sup>3</sup>	x	x	not a setting, see "AGT / AGT"	1 / AGT2 Settings" on page 88				

Factory Defaults									
Item Name	Oper. MX800, Mode MP5 - MP90 (H30)								
	С	Μ	Profile Adult	ofile Adult Profile Pedi Profile Neo					
MAC	x	x	not a setting, see "Configuring I	MAC (Minimum Alveolar Conc	entration)" on page 93				
No Al. til Breath	x		On	Dn					
AutoStandbyAfter	x		120	20					
Setup Agent <sup>1/3</sup>	x		not a setting, see "General Gas A	Analyzer Configuration Implicat	ions" on page 87				

1.Setting only available when using a G1 (M1013A).

2.Setting only available when using an AGM (M1026A/B).

3.Setting only available when using a G5 (M1019A).

# **General Gas Analyzer Configuration Implications**

**Agent** This setting is available when using the M1013A IntelliVue G1 only. It lets you select the agent that will be analyzed by the M1013A.

**Setup Agent** This operation is available when using the M1013A IntelliVue G1 and the M1019A IntelliVue G5 only. To configure the individual settings for each anesthetic gas for the IntelliVue G1 and G5, select **Setup Agent**, and then in the Setup Agent menu, select the agent and adjust the settings as needed.

**No Al. til Breath** If set to set **On**, the monitor suppresses alarms from the Gas Analyzer until it detects that a patient has been connected to the gas analyzer (when breathing is detected).

**AutoStandbyAfter** This setting defines the time after which the gas analyzer automatically goes into Standby when no breath is detected. During Standby, the gas analyzer's gas sample intake pump and other internal components are automatically switched off to increase the lifetime of the device. The message GM (or AGM) STANDBY is shown on the monitor.

# O<sub>2</sub> Settings

```
Measurement Settings: Main Setup -> GM (or AGM) -> 02
```

Factory Defaults							
Item Name	Of Mo	per. ode	MX800, MP5 - MP90 (H30)				
	С	Μ	Profile Adult	Profile Pedi	Profile Neo		
inO <sub>2</sub> High	x	x	100%	100%			
inO <sub>2</sub> Low	x	x	18%				
inO <sub>2</sub> Alarms	x	x	On				
O <sub>2</sub>	x	x	et + in				
Scale	x	x	100				
Unit	x		%				
Color	x		Green				

#### N<sub>2</sub>O (Nitrous Oxide) Settings

Measurement Settings: Main Setup -> GM (or AGM)->  $N_2O$ 

Factory Defaults									
Item Name	Oj Me	per. ode	MX800, MP5 - MP90 (H30)						
	С	Μ	Profile Adult	rofile Adult Profile Pedi Profile Neo					
inN <sub>2</sub> O High	x	x	80%	80%					
inN <sub>2</sub> O Alarm	x	x	On						
N <sub>2</sub> O	x	x	et + in						
Scale	x	x	60						
Unit	x		%						
Color	х		Blue						

# AGT / AGT1 / AGT2 Settings

Measurement Settings: Main Setup -> GM (or AGM) -> AGT (AGT1, AGT2)

Factory Defaults									
Item Name	Oj Me	per. ode	MX800, MP5 - MP90 (H30)						
	С	Μ	Profile Adult	rofile Adult Profile Pedi Profile Neo					
Agent Channel	x	x	et + in						
Agent Id <sup>1</sup>	x	x	Automatic						

1. Setting only available when using an AGM (M1026A/B).

# AGT / AGT1 / AGT2 Configuration Implications

**Agent Channel** This setting lets you define which numerics are displayed with any anesthetic agent waveform on the screen.

- et displays the endtidal numerics,
- in displays the inspiratory numerics,
- et+in displays both endtidal and inspiratory numerics.
- Off switches off the anesthetic gas measurement. No waveforms or numerics will be shown for anesthetic gases, and no alarms will be generated.

Agent Id This setting is available for the M1026A/B AGM only. Setting Agent Id to Manual requires that the user manually chooses the correct anesthetic agent during monitoring. If set to Automatic, the gas analyzer automatically identifies the predominant anesthetic agent in the breathing circuit. To configure the individual settings for each anesthetic gas for the M1026A/B AGM, you must first set Agent ID to Manual. This allows you to select the individual gases. If you use Manual agent identification, the agent that was selected last will become the default agent. If you want to use Automatic agent identification, make sure to switch Agent ID back to Automatic when you are done.

#### HAL (Halothan) Settings

```
Main Setup -> GM -> Setup Agent -> HAL
Main Setup -> AGM -> HAL
```

Factory Defaults								
Item Name	Oj M	Oper. MX800, Mode MP5 - MP90 (H30)						
	С	Μ	Profile Adult	Profile Adult Profile Pedi Profile Neo				
inHAL High	x	x	2.0%	2.0%				
inHAL Low	x	x	0.0%	0.0%				
inHAL Alarms	x	x	On					
etHAL High	x	x	1.6%					
etHAL Low	x	x	0.0%					
etHAL Alarms	x	x	On	On				
Scale	x	x	2.0					
Unit	x		%					
Color	x		Red					

# ISO (Isofluran) Settings

```
Measurement Settings:
Main Setup -> GM -> Setup Agent -> ISO
Main Setup -> AGM -> ISO
```

Factory Defaults									
Item Name	Oj Me	per. ode	MX800, MP5 - MP90 (H30)						
	С	М	Profile Adult	Profile Adult Profile Pedi Profile Neo					
inISO High	x	x	3.0%	3.0%					
inISO Low	x	x	0.0%						
inISO Alarms	x	x	On	On					
etISO High	x	x	2.5%						
etISO Low	x	x	0.0%						

Factory Defaults								
Item Name	Oper. Mode		MX800, MP5 - MP90 (H30)					
	С	Μ	Profile Adult	Profile Adult Profile Pedi Profile Neo				
etISO Alarms	x	x	On					
Scale	x	x	3.0	5.0				
Unit	x		%					
Color	x		Magenta					

# **ENF (Enfluran) Settings**

Measurement Settings:

Main Setup -> GM -> Setup Agent -> ENF

Main Setup -> AGM -> ENF

Factory Defaults							
Item Name	Oj Me	Oper. MX800, Mode MP5 - MP90 (H30)					
	С	Μ	Profile Adult	Profile Neo			
inENF High	x	x	4.0%	·			
inENF Low	x	x	0.0%	0.0%			
inENF Alarms	x	x	On	On			
etENF High	x	x	3.3%				
etENF Low	x	x	0.0%				
etENF Alarms	x	x	On	On			
Scale	x	x	4.0				
Unit	x		%				
Color	x		Orange				

# SEV (Sevofluran) Settings

Measurement Settings: Main Setup -> GM -> Setup Agent -> SEV Main Setup -> AGM -> SEV

Factory Defaults									
Item Name	Oj Me	Der. MX800, Dde MP5 - MP90 (H30)							
	С	Μ	Profile Adult	Profile Adult Profile Pedi Profile Neo					
inSEV High	x	x	6.0%						
inSEV Low	x	x	0.0%	0.0%					
inSEV Alarms	x	x	On						
etSEV High	x	x	5.0%						
etSEV Low	x	x	0.0%						
etSEV Alarms	x	x	On	On					
Scale	x	x	6.0	6.0					
Unit	x		%	%					
Color	x		Yellow						

# **DES (Desfluran) Settings**

Measurement Settings:

Main Setup -> GM -> Setup Agent -> DES

Main Setup -> AGM -> DES

Factory Defaults							
Item Name	Oj M	per. ode	MX800, MP5 - MP90 (H30)				
	С	Μ	Profile Adult	Profile Pedi	Profile Neo		
inDES High	x	x	15.0%				
inDES Low	х	x	0.0%				
inDES Alarms	х	x	On				
etDES High	х	x	10.0%				
etDES Low	х	x	0.0%				
etDES Alarms	х	x	On				
Scale	х	x	15.0				
Unit	х		%				
Color	x		Cyan				

# Configuring CO<sub>2</sub> from Gas Analyzer

#### MX800 Measurement Settings: Main Setup -> GM (or AGM) -> CO<sub>2</sub>

MP5-90

CO<sub>2</sub> can be measured by an anesthetic gas analyzer (AGM, G1, or G5), measurement extension modules (Microstream, Sidestream, or Mainstream), or the integrated CO<sub>2</sub> measurement in the MP5. The settings listed in this section only apply to CO<sub>2</sub> measured by an anesthetic gas analyzer.

Factory Defaults								
Item Name	O <sub>I</sub> Mo	oer. ode	. MX800, <sup>2</sup> MP5 - MP90 (H30)					
	С	Μ	Profile Adult	Profile Pedi	Profile Neo			
etCO <sub>2</sub> High	x	x	60 mmHg					
etCO <sub>2</sub> Low	x	x	25 mmHg	25 mmHg				
etCO <sub>2</sub> Alarms	x	x	On	On				
imCO <sub>2</sub> High	x	x	4 mmHg					
imCO <sub>2</sub> Alarm	x	x	Off					
CO <sub>2</sub>	x	x	et + im					
Scale	x	x	50 mmHg					
Unit	x		mmHg	mmHg				
Color	x		White	White				
Humidity Corr.	x		Wet					

# Gas Analyzer CO<sub>2</sub> Configuration Implications

**Humidity Corr**. This setting determines the method used to correct the influence of water vapor in the patient's breath on the  $CO_2$  reading. The options are **Wet** or **Dry**. Setting **HumidtyCorr** to **Wet** takes the partial pressure contributed by the water vapor into consideration and therefore results in lower  $CO_2$  readings when compared to **DRY**. For an exact definition and the formula used, see the section on "Measurement Specifications" in the "Installation and Specifications" chapter of the Gas Analyzer Instructions for Use.

# Configuring awRR from Gas Analyzer (Airway Respiration Rate)

#### MX800 Measurement Settings: Main Setup -> GM (or AGM) -> awRR

MP5-90

AwRR can be derived from the  $CO_2$  measured by an anesthetic gas analyzer (AGM, G1, or G5), or by any of the  $CO_2$  measurement extension modules (Microstream, Sidestream, or Mainstream), or by the integrated  $CO_2$  measurement in the MP5. The settings listed in this section only apply for the awRR derived from an anesthetic gas analyzer.

Factory Defaults									
Item Name	Oj M	per. ode	MX800, MP5 - MP90 (H30)						
	С	Μ	Profile Adult	Profile Pedi	Profile Neo				
High Limit	x	x	40 rpm		60 rpm				
Low Limit	x	x	8 rpm		30 rpm				
Apnea Time	x	x	40 sec	40 sec					
Alarms	x	x	On						
awRR	x	x	On						

#### awRR Configuration Implications

**Apnea Time** The apnea alarm is a high priority red alarm used to detect apneas. The **Apnea Time** defines the time period between the point where the monitor cannot detect any respiration activity and the indication of the apnea alarm.

awRR This setting lets you switch the awRR measurement from the Gas Analyzer On or Off.

# Configuring MAC (Minimum Alveolar Concentration)

```
MX800 Measurement Settings: Main Setup -> GM (or AGM) -> MAC MP5-90
```

```
only
```

Factory Defaults									
Item Name	Oper. Mode		Oper. Mode		MX800, MP5 - MP90 (H30)				
	С	Μ	Profile Adult	Profile Adult Profile Pedi Profile Neo					
MAC	x	x	Off						
MACawk <sup>1</sup>	x	x	Off	Off					
Correction <sup>1</sup>	x		Off						
Color	x		White						

1.Setting not available in the U.S.A. or in clinical environments under FDA control. MAC correction is switched off and MACawk value is not available.

#### **MAC** Configuration Implications

The **MAC** (Minimum Alveolar Concentration) value of an anesthetic gas or agent denotes the concentration at which 50% of a population of anesthetized patients do not respond with movement to a painful stimulus. The **MACawk** (MAC awake) represents the concentration at which 50% of a population of anesthetized patients responds to verbal command.

**MAC** Determines whether the MAC numeric is displayed or not.

**Correction** The IntelliVue monitor offers three methods of MAC calculation:

• Uncorrected MAC (Off)

• Ambient Pressure corrected MAC

(not available in the U.S.A or in clinical environments under FDA control.)

• Enhanced MAC Correction

(not available in the U.S.A. or in clinical environments under FDA control)

If **Correction** is set to **Off**, the uncorrected MAC is calculated, i.e the MAC value is not corrected for ambient pressure, age, temperature or any other individual factors influencing the effect of volatile anesthetic agents.

If **Correction** is set to **Amb**. **Pressure**, the MAC is corrected for the ambient pressure measured during the last zero calibration.

If **Correction** is set to **Enhanced**, the MAC value is corrected for the patient's age and temperature, and the ambient pressure measured during the last zero calibration.

The age is derived from the **Date Of Birth** entry in the Patient Demographics window. The temperature is taken from the currently measured value for one of the following temperature labels: **Tcore**, or **Tblood**.

**MACawk** Determines whether the MAC awake numeric is displayed or not. The **MACawk** numeric can only be calculated if **Correction** is configured to **Enhanced**.

# **Monitor Settings**

This section lists all the settings grouped in the Monitor Settings Block. Read any information on configuration implications at the end of the relevant tables before you make any configuration changes.

# **Understanding Monitor Settings**

What sets monitor settings apart from measurement settings is that they are not specific to one measurement. Monitor settings affect the general behavior of the monitor. Alarm settings are a good example to help you understand the difference between monitor and measurement settings: general alarm settings, such as Alarm Volume or the Alarms Off time are monitor settings. They determine the monitor's general alarming behavior. Individual alarm limits that can be set individually for each measurement are measurement settings. They only affect the selected measurement.

The IntelliVue patient monitor uses two categories of monitor settings: normal and unique monitor settings. Normal monitor settings can be configured differently for different monitor settings blocks (e.g. Monitor A, Monitor B). Unique monitor settings cannot be configured differently. They are the same in each monitor settings block and are automatically included in all monitor settings blocks when you store them to one block. The following table provides an overview of normal vs. unique monitor settings:

Monitor Settings										
Normal	Page	Unique	Page							
Alarms	96	Trend Groups	137							
Alarm Recordings	101	Trend Priorities	140							
Auto Alarm Limits	102	Trend Scales / Trend Units	141							
INOP Severity	103	Event Surveillance	144							
Screen Trend Settings	104	Event Annotations	151							
Horizon Trend Settings	104	SSC Sepsis Protocol	152							
Global Trend Style	105	Guardian Early Warning Scoring	153							
Trend Windows	106	Recordings (except Vital Signs)	154							
Trend Recordings	108	Timers	158							
ST Map	109	Global SmartKeys, Function Keys	162							
ProtocolWatch	109	CSA Buffers	166							
SpotCheck Monitoring	110	Drug Calculator	166							
C.O. Window	111									
Wedge Window	112									
Loops Window	113									
CSA Window	113									
ECG Application	114									
Calculations (except Drug Calc.)	115									
Reports	116									
Other Report Settings	121									
Auto Reports	122									
ECG Reports	123									
CSA Reports	124									
Trend Reports	125									
User Interface (except Keys)	126									
Network	132									

# **Configuring Alarms**

Monitor Setting: Main Setup -> Alarms -> Alarm Settings

Factory Defaults									
Item Name	Oper. Mode		MX800, MP5 - MP90 (H10/20/40) MP2/X2 MP5SC	MP5SC	CO-J#C-JWI			MX800, MP5 - MP90 (H30)	MP2/X2
	С	Μ			P	Profile			
			Adult Pedi Neo	EWS Scoring SpotCheck <sup>1</sup>	Frequent Vitals	RRT	Resus	Adult Pedi Neo	Outdoor
Alarm Volume	x	x	5						7
Alarms Off	x		2 min	Infinite	2 min				
Pause Al. 5Min	x		Enabled						
Pause Al. 10Min	x		Enabled						
Auto Alarms Off	x		Disabled						
AlarmOffReminder	x		Off						
AlarmOffAtStart	x		No	Yes	No				
Visual Latching	x		Red&Yell					Red Only	Red&Yell
Audible Latching	x		Red&Yell					Off	Red&Yell
Alarm Reminder	x		On						
Reminder Time	x		3 min						
Alarm Sounds	x		Traditional						
RedAlarmInterval	x		10 sec						
Yel. Al. Interval	x		20 sec						
Alarm Low	x		4					2	4
Red Alarm Volume	x		AlarmVol+2						
Yell. Alarm Volume	x		AlarmVol+0						
Inop Volume	x		AlarmVol+0						
AutoIncrease Vol.	x		2 Steps						
IncreaseVolDelay	x		20 sec						
Keep Blinking	x		No						
Relay1 Sensitiv.	x		R & Y & I						
Relay2 Sensitiv.	x		Red &Yell						
Relay3 Sensitiv.	x		Red						
CyanRelayLatency	х		5 sec						

Factory Defaults									
Item Name	Oj Mo	per. ode	MX800, MP5 - MP90 (H10/20/40) MP2/X2 MP5SC	MP5SC MD5#D05	CU1#CIM			MX800, MP5 - MP90 (H30)	MP2/X2
	С	M	Profile						
			Adult Pedi Neo	EWS Scoring SpotCheck <sup>1</sup>	Frequent Vitals	RRT	Resus	Adult Pedi Neo	Outdoor
Yel. RelayLatency	x		2 sec						
Alarm Text	x		Standard	Enhan	ced			Standard	
NoCentrMonMinVol	x		4	-	_				
LED Brightness	x		High	Low	High				

1.Profile SpotCheck for English language software only.

#### **Alarm Settings Configuration Implications**

**Alarm Volume** Use this setting to define the base volume of the red and yellow audible alarm indicators and the INOP tones.

Alarms Off Use this setting to determine how long the monitor's alarm capabilities will be switched off when the user selects the Alarms Off or Pause Alarms key. Possible choices are: 1min, 2min, 3min, Infinite. Be aware that if you configure Alarms Off to Infinite, all of the monitor's alarming capabilities will be permanently switched off when the user selects the Alarms Off key. It is not recommeded to configure Alarms Off to Infinite in monitors that can be used as companion devices to a host monitor, such as the X2 or MP5.

**Pause Al. 5 Min / Pause Al. 10 Min** If these settings are enabled, the user can extend the alarm pause to 5/10 minutes. If **Alarms Off** is set to **Infinite**, these settings are automatically disabled.

**Alarm Low** Use this setting to define a minimum value for the alarm volume. The alarm volume cannot be set lower than this value.

**Red Alarm Volume / Yell. AlarmVolume / Inop Volume** Use these settings to set the alarm volume level for each alarm type relative to the (base) volume selected under **Alarm Volume**. Available choices are: **AlarmVol+1**, **AlarmVol+2**, **AlarmVol+3**.

**Auto Alarms Off** This setting can be configured in Service Mode only. It can be used to switch off the monitor's alarming capabilities if no vital parameters are left with alarms switched On. The recommended value for this settings is **Disabled**.

# **WARNING** If you configure the setting **Auto Alarms Off** to **Enabled**, the monitor will automatically switch off its alarming capabilities if the user turns Off the individual alarms for all **vital parameters** (see below) that are currently activated and switched On.

The following measurements are considered vital parameters:

- ECG/Pulse
- RR/awRR
- All invasive blood pressure (for example ABP, ART, CVP, PAP)
- SpO<sub>2</sub>
- etCO<sub>2</sub>

**AlarmOffReminder** If this setting is enabled, the monitor issues a short reminder tone every three minutes when all alarms have been switched off (by selecting the **Alarms Off/Pause Alarms** SmartKey), or if the alarms for the following measurements have been switched off individually: ECG/Pulse, RR/awRR, all invasive blood pressures, SpO<sub>2</sub>, etCO<sub>2</sub>.

**AlarmsOffAtStart** If AlarmsOffAtStart is enabled, alarms will be initially suspended or off the next time the monitor is switched on. Even if it is enabled, this setting only takes effect if the power down time is more than one minute, and the the Global Setting **Automat Default** is set to **Yes**.

In order for alarms to be suspended or switched off initially,

- the monitor must be switched off for more than one minute
- the last main alarm state was set to off or suspended.

Visual Latching / Audible Latching The visual and audible latching settings can affect the arrhythmia alarm sounds. Both Visual Latching and Audible Latching should be set to Red or Red and Yellow if arrhythmia is on.

If the monitor is connected to an Information Center, both **Visual Latching** and **Audible Latching** should be set to **Red&Yell** to enable alarms to be silenced at the Information Center.

**Alarm Reminder** Use this setting to define how alarm indications behave if alarm conditions remain active after they have been acknowledged:

- On: After the configured **Reminder Time**, the alarm tone is repeated for a limited time (6 seconds).
- ReAlarm: After the Reminder Time the alarm tone is repeated continuously (this is the same as a new alarm).
- Off: No Alarm Reminder is issued.

**Reminder Time** Use this setting to define the interval between acknowledging an alarm and issuing an alarm reminder. The choices available are 1, 2, or 3 minutes.

**Alarm Sounds** Use this setting to change the alarm sound of the monitor to suit the alarm standards valid in your hospital.

- **Traditional**: The traditional ("Carenet") sounds used in previous HP/Agilent/Philips patient monitor generations.
- ISO: A new set of alarm sounds that complies with the ISO/IEC Standard 9703-2.

**RedAlarmInterval / Yel. Al. Interval** Use this setting to define the interval between alarm sounds (ISO alarm sounds only). The choices available are 5, 10, or 15 seconds for red alarms, and 10, 20, or 30 seconds for yellow alarms.

**Auto Increase Vol** Use this setting to define how the alarm volume of unacknowledged alarms behaves.

- 1 Step: After the time defined by Increase Volume Delay, the alarm volume is increased by one volume step.
- 2 Step: After the time defined by Increase Volume Delay, the alarm volume is increased by two volume steps.
- Off: The Alarm Volume of unacknowledged alarms does not change.

**Increase Volume Delay** Use this setting to define the interval after which the alarm volume increases in steps.

**Keep Blinking** Use this setting to specify whether the numerics that are in an active alarm condition keep flashing even if all alarms are off or paused, or if individual alarms are switched off.

(Nurse Call) RelayX Sensitivity The RelayX Sensitivity setting defines the alarm or INOP conditions that will trigger an alarm on nurse call relay. Only serious INOPs (that are indicated with an INOP tone at the monitor) are indicated on the nurse call relay. The nurse call relay follows the status of the monitor alarms, e.g. when the alarms are switched off at the monitor, no alarms will be indicated on the nurse call relay.

When you use a nurse call relay that is connected to the traditional nurse call connector (phone jack), only **Relay 1 Sensitivity** must be specified.

**INOPRelayLatency / Yel.RelayLatency** Use this setting to define how long a yellow alarm or INOP condition must be active before an alarm is issued on any device connected to the alarm relay. These settings are valid for all serious INOP conditions/all yellow alarms respectively.

Alarm Text Use this setting to define how alarm messages are presented on the monitor screen:

- Standard: Alarm texts are displayed in text form, for example \*\* Spo2 LOW
- Extended: Alarm texts are displayed as numeric values, for example, \*\* Spo2 94 < 96, where the second number shows the current alarm limit, and the first number shows the maximum amount by which this limit was exceeded.

**NoCentrMonMinVol** If your monitor is connected to an IntelliVue Information Center, and the connection is interrupted, the INOP message **No Central Monit**. will appear, accompanied by an INOP tone. To help ensure that this INOP, and any other active alarm, is not overlooked, the INOP and alarm tones may be configured to have a minimum volume. In this case, INOP and alarm tones will sound even if the monitor alarm volume is set to zero.

**LED Brightness** lets you configure the brightness of the alarm lamps. Three choices are available: **High**, **Medium**, and **Low**.

#### Alarm Behavior (For Assistance Publique in France only)

To achieve the behavior required by the Assistance Publique in France, you must configure the settings listed below to the values given in the table:

Item Name	French Alarm Behavior	Comment
Alarm Source	ECG	See "Configuring ECG/Pulse Alarms"
Alarm Source Selection	Disabled	on page 38.
Alarms Off	Disabled, by setting to 1 or 2 or 3 min (not infinite)	See "Configuring Alarms" on page 96.
Pause Al. 5Min	Disabled	
Pause Al. 10Min	Disabled	
Auto Alarms Off	Enabled	
Alarm OffRemind.	On	
Visual Latching	Red&Yell	
Audible Latching	Red&Yell	
Alarm Reminder	ReAlarm or On	
Alarm Rem. Time	1 or 2 or 3 min	
Alarm Low	>= 1	
Keep Blinking	Yes	

# **Configuring Alarm Recordings**

Monitor Setting: Main Setup -> Alarms -> Alarm Recording

Factory Defaults								
Item Name		per. ode	MX800, MP5 - MP90 (H10/20/40)	MX800, MP5 - MP90 (H30)				
	С	Μ	MP5T, MP5SC MP2/X2					
HR	x	x	Off	Red Only				
PVC	x	x	Off	Red Only				
ST	x	x	Off					
QT	x	x	Off					
SpO <sub>2</sub>	x	x	Off	Off				
Pulse	x	x	Off					
Press	x	x	Off					
NBP	x	x	Off					
CCO	x	x	Off					
CO <sub>2</sub>	x	x	Off					
awRR	x	x	Off					
O <sub>2</sub>	x	x	Off					
Resp	x	x	Off					
tcGas	x	x	Off					
Temp	x	x	Off					
N <sub>2</sub> 0	x	x	Off					
Agent	x	x	Off					
VueLnk	x	x	Off					

# **Alarm Recording Settings Configuration Implications**

<Measurement> If you set a <Measurement> to Red Only, an alarm recording will automatically be triggered when the measurement enters a red alarm condition. If you set it to Red&Yell, both yellow and red alarms will trigger an alarm recording for that measurement.

# **Configuring Auto Alarm Limits**

Monitor Setting: Main Setup -> Alarms -> Setup AutoLimits

Factory Defaults								
Item Name	Oper. Mode		MX800, MP2 - MP90					
	С	Μ	MP5T, MP5SC					
			X2					
All	x		Enabled					
HR	x		Enabled					
ST	x		Enabled					
SpO <sub>2</sub>	x		Enabled					
Pulse	x		Enabled					
Press	x		Enabled					
NBP	x		Enabled					
CO <sub>2</sub>	x		Enabled					
awRR	x		Enabled					
O <sub>2</sub>	x		Enabled					
RR	x		Enabled					
tcGas	x		Enabled					
Temp	x		Enabled					
N <sub>2</sub>	x		Enabled					
N <sub>2</sub> O	x		Enabled					
Agent	x		Enabled					

# **Alarm AutoLimits Settings Configuration Implications**

**All** Set this to **Disabled** if you do not want the user to be able to apply AutoLimits to all enabled measurements at once by using the **All Lim. Narrow** or **All Lim. Wide** pop-up keys in the Alarm Limits window.

<Measurement> If you set a <Measurement> to Disabled, AutoLimits cannot be applied to this measurement.

# **Configuring INOP Severity**

Monitor Setting: Main Setup -> Alarms -> Inop Severity

Factory Defaults										
Item Name	Oper. Mode		Oper. Mode		Oper. Mode		MX800, MP20 - MP90	MP5, MP5T, MP5SC	MP2/X2	
	С	Μ								
ECG Leads Off	x		Cyan	Cyan						
Replace TeleBatt	x		Cyan							
Tele Disconnect.	x		Cyan							
Cuff Overpress	x		Cyan							
Cuff NotDeflated	x		Cyan	2yan						
Occlusion	x		Cyan							

#### **INOP Severity Settings Configuration Implications**

**ECG Leads Off** Set **ECG Leads Off** to **Yellow** or **Red** if you want the "ECG Leads Off" INOP to be signaled as a yellow or red INOP. This INOP alerts the clinician when not all required leads for ECG monitoring are attached to the patient. If, after a discharge, no ECG has been measured yet, the INOP severity will be **Cyan** regardless of the configuration. Once a valid ECG has been received, the severity will behave as configured.

**Replace TeleBatt** Set **Replace TeleBatt** to **Yellow** or **Red** if you want the "Replace Battery T" INOP to be signaled as a yellow or red INOP. This INOP alerts the clinician when a telemetry device is directly connected (via cable or short-range radio connection) to a monitor and the battery in the telemetry device is almost empty and must be replaced. Note that if a telemetry device is paired with a monitor without a direct connection, the severity of the "Replace Battery T" INOP is controlled by the Information Center.

**Tele Disconnect.** Set **Tele Disconnect.** to **Yellow** or **Red** if you want the "Tele Disconnect." INOP to be signaled as a yellow or red INOP. This INOP alerts the clinician when the connection between the monitor and the telemetry device is interrupted.

**Cuff Overpress** Set **Cuff Overpress** to **Yellow** or **Red** if you want the "Cuff Overpress" INOP to be signaled as a yellow or red INOP. This INOP alerts the clinician when the NBP cuff pressure exceeds the overpressure safety limits.

**Cuff NotDeflated** Set **Cuff NotDeflated** to **Yellow** or **Red** if you want the "Cuff NotDeflated" INOP to be signaled as a yellow or red INOP. This INOP alerts the clinician when the NBP cuff pressure has exceeded 15mmHg (2kPa) for more than 3 minutes for Adult or pediatric patients, or the cuff pressure has exceeded 5mmHg (0.7kPa) for more than 90 seconds (for neonatal patients).

**Occlusion** Set **Occlusion** to **Yellow** or **Red** if you want the INOPs "CO<sub>2</sub> Occclusion" and "<Gas Analyzer> Occclusion" to be signaled as a yellow or red INOP. These INOPs alert the clinician when the sample line or exhaust line tubing is blocked.

# **Configuring Screen Trend Settings**

Monitor Setting: Main Setup -> Trends

Factory Defaults					
Item Name	Oj Mo	per. ode	MX800, MP2 - MP90		
	С	М	MP5T, MP5SC		
			X2		
ScreenTrend Time	x	x	30 min		
HorizonArrowTime	x	x	10 min		

#### Screen Trend Configuration Implications

**ScreenTrend Time** Use this setting to set the Screen Trend Time for all graphical and horizon screen trends. Choices are: **30min**, **1h**, **2h**, **4h**, **8h**, or **12h**.

This is the Global screen trend time. This setting can be overridden by the **Change TrendTime** configuration (see see "Configuring Screen Trends" on page 26) which lets the user set a different ScreenTrend Time for a particular screen trend channel or a group of aligned screen trends.

HorizonArrowTime This setting determines the time period used for calculating the direction of the Horizon Trend Indicator, which shows how the patient trend has developed in the set time period. Choices are: 10min, 5min, or 2min.

# **Configuring Horizon Trend Settings**

The horizon view presents trend information superimposed over a defined baseline or base range. This helps you visualize changes in your patient's condition since the baseline/base range was set.

The position of the horizon baseline and the scale used when a certain measurement is first displayed in horizon trend view, is defined by the settings Horizon High, Horizon Low, Scale Delta and Unit. The defaults for Horizon High, Horizon Low, and Scale Delta are based on clinical considerations, the default for Unit follows the measurement unit defined for the corresponding measurement label. These default are stored invisibly in the IntelliVue patient monitor software. The user can adapt Horizon High, Horizon Low, and Scale Delta during monitoring.

If you are not satisfied with the default settings, you can modify the defaults for up to 25 measurement labels.

To modify Horizon Trend default settings,

- 1 In configuration mode, select Main Setup -> Trends -> Horizon Settings.
- 2 Select the pop-up key **Add** to bring up the Setup Measurement menu.
- 3 Select **Label** and choose the measurement label for which you want to define changed default Horizon Trend Settings. A maximum of 25 labels can be added.
- 4 Adjust each setting as required, and close the menu.

Factory Defaults					
Item Name	O <sub>F</sub>	per.	MX800,		
	1010	bae	MP2 - MP90		
	C	Μ	MP5T, MP5SC		
			X2		
Label	x		<none></none>		
Horizon High	x		<none></none>		
Horizon Low	x		<none></none>		
Scale Delta	x		<none></none>		
Unit	x		<none></none>		

#### Monitor Setting: Main Setup -> Trends -> Horizon Settings

#### **Horizon Trend Configuration Implications**

Unit Choose the measurement unit that you will use to define the values for Horizon High, Horizon Low and Scale Delta.

Horizon High/Low Set Horizon High to select the upper horizon value. Set Horizon Low to select the lower horizon value. If the high and low horizon values are the same, the horizon is a baseline, if the values are different, the horizon is a range.

**Scale Delta** defines the distance between the horizon and the upper and lower scale limits. Note that the upper and lower scale limits may also be restricted by the measurement ranges defined for a label.

Make sure the values for Horizon High/Low and Scale Delta match the Unit you enter. Be aware that the master unit of a label is defined in its measurement setup menu. For example, for the label **Temp** this would be the Setup Temp menu (Main Setup -> Measurements -> Temp).

If for a label, the unit defined in the Horizon Settings > Setup Measurement menu differs from the master unit defined in the related measurement setup menu, the values defined for Horizon High/Low and Scale Delta will be automatically converted when you close the Horizon Settings -> Setup Measurement menu to match the unit defined in the measurement setup menu.

**Example:** In the Horizon Settings window, you add the label "Temp". You set the **Unit** to °C, and **Horizon High** and **Horizon Low** to 35.0°C. If you then change the **Unit** in the Setup Temp menu to °F, the **Horizon High/Low** will be automatically converted to the equivalent of 35 °C in Fahrenheit which would be 95.0°F.

# **Configuring Global Trend Style**

Monitor Setting: Main Setup -> Trends

Factory Defaults					
Item Name	О <sub>Г</sub> Мо	per. ode M	MX800, MP2 - MP90 MP5T, MP5SC X2		
Global Style	x	x	Band		

#### **Global Trend Style Configuration Implications**

**Global Style** The **Global Style** setting affects the presentation of measurements with compound (multiple) values (for example ABP or  $CO_2$ ) in the Graphical Trends window and on screen trends. If you set this to **Band**, the area between the trend lines, for example, between the systolic and diastolic pressures, is filled with color. If you set it to **Line**, the trends are displayed as separate continuous lines.

This setting applies to the graphical trends displayed in the GraphTrends window and the screen trends. This setting can be overridden for individual parameters displayed in the GraphTrends window by changing the **Style** setting for these parameters to **Band** or **Line** in the Trend Group Parameters menu (see see "Configuring Trend Groups" on page 137).

# **Configuring Trend Windows**

#### Vital Signs Window

```
Monitor Setting: Main Setup -> Trends -> Setup VitalSigns
```

Factory Defaults										
Item Name	ne Oper. Mode C M		MX800, MP20 - MP90 (H10/20/	MX800, MP5 - MP90 (H30)	MP20 (#M20 / #M21)	MP5SC, MP5#P05				
			40)		MP5 (H10/20/40) MP5T MP2/X2					
Trend Group	x	x	Standard	Standard						
Column	x	x	Interval	Interval NBP						
Interval	x	x	30 min 5 min 10 min							
Show Unit	x		Off							
Color	x		On							
Timeline	x	x	Bottom Top							

### **Graphical Trends Window**

Monitor Setting: Main Setup -> Trends -> SetupGraphTrends

Factory Defaults								
Item Name	Oper. Mode		MX800, MP20 - MP90 (H10/20/40)	MX800, MP5 - MP90 (H30)	MP20 (#M20 /#M21) MP5 (H10/20/40)			
	C	Μ			MP5T, MP5SC, MP5#P05 MP2/X2			
TrendGroup	x	x	Standard					
Interval	x	x	30 min	5 min	10 min			
Timeline	x	x	Bottom					

#### **Trend Window Settings Configuration Implications**

**Trend Group** Use this setting to define the default trend group that is displayed each time a trend window is opened.

**Column** (Vital Signs window only) Use this setting to define how often a column is created. To view the trend with one column for the set **Interval**, select **Interval**. To view it with one column for each **NBP** measurement, select **NBP**.

**Interval** Use this setting to define the default time interval (resolution of the trend data) that is displayed each time a trend window is opened.

**Show Unit** (Vital Signs window only) If **Show Unit** is configured to **On**, the measurements in the Vital Signs window are shown together with their units.

**Color** (Vital Signs window only) If **Color** is configured to **On**, the measurements in the Vital Signs window are displayed in their individual parameter colors. If set to **Off**, all measurements are displayed in white.

**Timeline** With this setting you define whether the timeline is shown on the **Top** or the **Bottom** of the table.

#### **Histogram Window**

MX800	Monitor	Setting:	Main	Setup	->	Trends	->	Setup	Histogram
MP5-90									

only

Factory Defaults					
Item Name	Oper. Mode		MX800, MP5 - MP90		
	C	М			
Data Source	x	x	Realtime SpO <sub>2</sub> 1		
Period	x	x	12 h		

#### **Histogram Window Settings Configuration Implications**

**Data Source** Use this setting to configure which data source is displayed each time the histogram window is opened.

- If you are monitoring two SpO<sub>2</sub> sources and select **Realtime SpO<sub>2</sub> 1**, the realtime numerics from the SpO<sub>2</sub> label with the higher priority will be used as the source for the histogram.
- If you are monitoring two SpO<sub>2</sub> sources and select **Realtime SpO<sub>2</sub> 2**, the realtime numerics from the SpO<sub>2</sub> label with the lower priority will be used as the source for the histogram.
- Select **Trended Data** to select a data source from the trend database.

**Period** Use this setting to define the default time period that is displayed each time a histogram window is opened. Choices are **30 min**, **1h**, **2h**, **4 h**, **8 h**, **12h**, and **24 h**.

# **Configuring Vital Signs Recording**

```
MX800 Monitor Setting: Main Setup -> Recordings -> Vital Signs
MP5-90
only
```

Factory Defaults							
Item Name	Oper. Mode		Oper. Mode		MX800, MP20 - MP90	MP20 (M20/M21) MP5 (H10/20/40)	
	С	Μ	MP5 (H30)	MP5T, MP5SC			
End Case Record.	x	x	Off	On			
Trend Group	x	x	All				
Period	x	х	6 hours	3 hours			
Column	x	х	Interval				
Interval	x	x	30 min	10 min			
Show Unit	x		Off				

# Vital Signs Recording Configuration Implications

**End Case Record.** Set this to **On** if you want the Vital Signs recording be triggered when a patient is discharged using the End Case function.

**Trend Group.** Use this setting to define the default trend group that is recorded each time a Vital Signs recording is triggered.

**Period.** Use this setting to define the period of time for which trend data should be printed on the recording. Available choices are: 1, 2, 3, 6, 12, 24, 48, 72, and 96 hours.

**Column.** Use this setting to define in which way the Vital Signs recording is displayed on the recorder paper.

- To display the trended values with the time stamps for the set **Interval** time on top of the table select **Interval**. Each measurement of the set **Trend Group** is displayed in one row.
- To display it with the time stamps left of the printed table select **NBP**. Each measurement of the set **Trend Group** is displayed in one column.

**Interval.** Use this setting to determine the default time interval (resolution of the trend data) that is recorded each time a Vital Signs recording is triggered. Available choices are: **12** sec, **1** min, **5** min, **10** min, **15** min, **30** min, **1** hours, **2** hours, **3** hours.

**Show Units.** If **Show Units** is configured to **On**, the measurements in the Vital Signs recording are printed together with their units.
### **Configuring ST Map**

Main Setup -> ST Map

Factory Defaults						
Item Name	Oj Ma	per. ode M	MX800, MP2 - MP90 MP5T, MP5SC			
Interval	x	x	5 min			
Scale	x	x	2 mm			

#### **ST Map Settings Configuration Implications**

**Interval** From the ST Map window, use the pop-up key **Select Interval** to configure the time interval between the trended ST map samples when using ST Map in Trend View. The interval ranges from 12 seconds to 30 minutes.

**Scale** In the ST Map window, switch to Trend View and use the **Size Up** / **Size Down** keys to define the scale that the monitor uses in the ST Map application. Available choices are **1mm**, **2mm**, **3mm**, **5mm**, **10mm**, and **15mm**.

### **Configuring ProtocolWatch**

```
MX800 Main Setup -> ProtocolWatch
MP5-90
```

only

Factory Defaults								
Item Name	Oj Mo	per. ode	MX800, MP5 - MP90 MP5SC	MP5#P05 MP5SC				
	С	Μ		Profile				
	C	М	Adult, Pedi, Neo	Spot Check <sup>1</sup>	EWS Scoring	Frequent Vitals	RRT	Resus
CVP Threshold	х		100 mmHg					
CVP Thresh. Unit	x		mmHg					
Protocol	х	x	Off	SpotCheck	EWS SPS			

1.Profile SpotCheck for English language software only.

#### ProtocolWatch Application Configuration Implications

ProtocolWatch (PW) is a clinical decision support tool. It allows you to run a clinical protocol which can monitor developments in the patient's condition. ProtocolWatch notifies you when certain conditions or combinations of conditions occur and it documents developments in a log which can be printed. For detailed information on how to use this application, see the monitor's Instructions for Use.

**CVP Threshold** This setting lets you define the maximum CVP value the monitor will automatically enter into a protocol when CVP is continuously measured. Use this setting to prevent false high CVP values from being entered into a protocol when the CVP is continuously measured.

CVP Thresh. Unit This setting lets you change the unit used for the CVP Threshold.

**Protocol** This setting lets you preselect the protocol you want to run. Selecting the **Protocol** also determines which protocol-specific configuration settings are displayed (see below) and can be configured. At this point, the following protocols are available:

- SSC Sepsis Protocol
- Guardian Early Warning Scoring Protocols:
  - SpotCheck
  - EWS SPS

If you select **Off**, no protocol will be preselected. Note that **Protocol** can always be changed by the clinician during monitoring.

### Configuring SpotCheck Monitoring

```
MP5SC, Main Setup -> SpotCheck-> Automatic VS
```

MP5

0	n	ly	

Factory Defaults							
Item Name		oer. ode	MP5SC, MP5#P05				
	С	Μ	Profile				
			Adult, Pedi,	EWS Scoring, SpotCheck <sup>1</sup>	Frequent Vitals	RRT	Resus
			Neo				
Interval	x	x	No		·	Yes	
Interval Time	x	x	1 hrs			2 min	
NBP	x	x	No		Yes	No	
SpO2	x	x	No		Yes	No	
Patient Alarm	x	x	No		Yes	No	

1.Profile SpotCheck for English language software only.

These settings are profile dependent monitor settings. They only take effect if currently either **SpotCheck** (see "Configuring Guardian Early Warning Scoring" on page 153) or **EWS SPS** protocol (see "Configuring Recordings" on page 154) is executed.

#### SpotCheck Monitoring Configuration Implications

Using an MP5SC, or an MP5 with the appropriate option, you can collect vital signs at intervals. Each set of data is saved in a SpotCheck record and can be viewed in a SpotCheck trend. The MP5SC can be used to collect vital signs from multiple patients.

When a patient is being monitored with the MP5/MP5SC, SpotCheck records can be generated automatically triggered by a specific intermittent measurement (SpO2 or NBP), a patient alarm or following a schedule.

**Interval** This setting lets you switch on the interval for automatic vital signs acquisition.

Interval time This setting lets you define the interval time for automatic vital signs acquisition. Choices are 2 min, 2.5 min, 3 min, 5 min, 10 min, 15 min, 20 min, 30 min, 45 min, 1 hrs, 2 hrs, 4 hrs, 8 hrs, 12 hrs, 24 hrs.

**Patient Alarm** This setting lets you switch on the automatic vital signs acquisition, triggered by a patient alarm.

 $SpO_2$  This setting lets you switch on the automatic vital signs acquisition, triggered by the SpO<sub>2</sub> measurement (IntelliVue CL SpO<sub>2</sub> Pod only).

**NBP** This setting lets you switch on the automatic vital signs acquisition, triggered by the NBP measurement.

### Configuring the C.O. Window

**MX800** This lets you configure the measurement parameters shown in the results table of the C.O. procedure **MP20-90** window.

### only Monitor Setting: Main Setup -> Cardiac Output -> Table Contents

- 1 To configure the C.O. window settings, you must either have a C.O. transducer connected or manually switch the C.O. measurement **on**. You can do this by turning **C.O. on** in the C.O. Setup menu. Make sure that while you are configuring without a connected C.O. transducer, you do not pause, switch off or silence alarms.
- 2 Select Main Setup > Cardiac Output to open the Cardiac Output window.
- 3 Select the pop-up key **Table Contents** to enter the **Table Contents** menu. The left column displays the parameters that are already switched on. The right column contains other available parameters.
- 4 Select a parameter in the right column and select the left arrow key to move the selected parameter to the left column. The maximum number of entries that can be moved to the left varies depending on the monitor model and display resolution.
- 5 Close the menu when you are finished.

Factory Defaults	Factory Defaults							
Item Name	Oj Mo	per. ode	MX800, MP20 - MP90					
	С	М						
C.O.	x	x	On					
C.I.	x	x	On					
ITBV	x	x	Off					
ITBVI	x	x	On					
EVLW	x	x	Off					
EVLWI	x	x	On					
GEDV	x	x	Off					
GEDVI	х	x	Off					
ETVI	х	x	On					
CFI	х	x	On					
Tblood	х	x	Off					
Tinj	х	x	On					
InjVol	х	x	On					
CathCt	х	x	On					
CompCt	x	x	On					
PVPI <sup>1</sup>	х	x	Off					
GEF <sup>1</sup>	x	x	Off					
RLShnt <sup>1</sup>	х	x	Off					

1.Setting not available in the U.S.A or in clinical environments under FDA control.

# Configuring the Wedge Window

```
MX800 Monitor Setting: Main Setup -> Wedge MP20-90
```

only

Factory Defaults						
Item Name	Oj M	per. ode	MX800, MP20 - MP90 (H10/20/40)	MX800, MP20 - MP90 (H30)		
	C	М				
Reference Wave 1	x	x	Primary Lead			
Reference Wave 2	x	x	Resp	CO <sub>2</sub>		
Wave Speed	x	x	25 mm/sec			
PAWP Color	x		Green	Yellow		

# **Configuring the Loops Window**

```
    MX800
    Monitor Setting: Main Setup -> Loops

    MP40-90
    Factory Defaults

    Item Name
    Oper.
    MX800,
Mode

    C
    M

    Loop Type
    x
    x
```

### **Configuring the CSA Window**

#### MX800 CSA Window Configuration

```
MP40-90 M
only c
```

```
Monitor Setting: Main Setup -> Measurements -> EEG ->
```

/	perab	CDA	WTHOOM	

Factory Defaults							
Item Name	Oper. Mode		MX800, MP40 - MP90				
	С	Μ					
Buffer	x	x	A (2 Sec)				
Trend SEF	x	x	On				
Trend MDF	x	x	Off				
Trend PPF	x	x	Off				
Clipping	x		On				
Frequency Scale	x		030 Hz				

#### **CSA Window Configuration Implications**

**Buffer** defines which of the three preconfigured buffers (see "Configuring CSA Buffers" on page 166) is used in the CSA window. This setting can also be changed in monitoring mode. Note that the default buffer interval for CSAs viewed in the CSA window is optimized for a quick update of CSA information.

**Trend SEF / Trend MDF / Trend PPF** defines which of the trend lines (SEF, MDF, PPF) are displayed in the CSA window. These settings can also be changed in monitoring mode.

**Clipping** Set **Clipping** to **On** to improve the 3-D presentation of the CSA and make it more "readable". When set to **On**, peaks in the spectral lines are artificially clipped at a certain height (see graphic). If **Clipping** is **Off**, peaks can be displayed over the full window height which may result in a more cluttered presentation.



**Frequency Scale** defines the bandwidth displayed in the CSA. Note that the calculation is always done on the full bandwidth.

### **Configuring ECG Application**

#### **ECG** Application Configuration

```
Monitor Setting: Main Setup -> Measurement -> ECG
```

Factory Defaults						
Item Name	Oj Me	per. ode	MX800, MP5 - MP90 (H10/20/40)	MX800, MP5 - MP90 (H30)		
	C	Μ	MP2/X2			
			MP5T, MP5SC			
AutoFilter	x		Off	On		
Fix Pacer Amplit	x		Off			
Default ECG Size	x		Size x1	Size x2		

#### **ECG Application Configuration Implications**

**Auto Filter** If the **AutoFilter** setting is configured to **On** the monitor will automatically switch to the setting **Filter** if electromagnetic interference is detected.

**Default ECG Size** This setting lets you preconfigure the default size with which all ECG waves are drawn on the Screen. The Choices are **x0.5**, **x1**, **x2**, **x4**, **AutoSize**. If you select **AutoSize**, the monitor chooses the optimal adjustment factor for all the ECG waves so that they use the space available to them as efficiently as possible. Use the 1 mV calibration bar as an indicator of the actual signal strength.

**Fix Pacer Amplit** Set this to **On** to configure the pacer spikes to have a fixed size, for ease of identification on the monitor Screen. The spikes are then shown in the background as a dotted line. The length of the dotted line is fixed to the height of the wave channel and is independent of the actual pacer amplitude. Set it to **Off** to display the pacer spikes as a solid line in their original height and the pace pulse markers next to the pacer spikes.



### **Configuring Calculations**

```
MX800 Monitor Setting: Main Setup -> Calculations
MP20-90
```

only

Factory Defaults	Factory Defaults						
Item Name	Oper. Mode		MX800, MP20 - MP90				
	С	Μ					
Calc. Time Ref.	x		C.O. Time				
Height Unit	x		not applicable, these settings are stored as Global Settings, see "Global Settings" on page 168.				
Weight Unit	x						
BSA Form. Adult	x		Dubois				
BSA Form. Pedi	x		Dubois				
BSA Form. Neo	x		Boyd				
Hemo Press Unit	x		mmHg				
Gas Press Unit	x		mmHg				
Hb Unit	x		g/dl				
Hemo Calcs	x		On				
Oxy Calcs	x		On				
Vent Calcs	x		Off				

#### **Calculations Configuration Implications**

**Calc. Time Ref.** (relevant for Hemo Calcs only) The calculation time reference determines the timestamp of all measurement values that are used for a hemodynamic calculation except the C.O. value. Select **C.O. Time** if you want to use the values measured at exactly the time of the most recently saved C.O. measurement.

Select **Current Time** if you want to use the currently measured values (i.e. the values measured at the time you entered the Calculations window). The most recent available C.O. value is used for the calculation. Be aware that if **Calc. Time Ref.** is set to **Current Time**, and the calculation is performed significantly later then the C.O. value has been saved, the difference in timestamps may reduce the clinical validity of the calculation results.

**BSA Form. Adult/Pedi/Neo** Defines the formula used to calculate the body surface area. The choices are **Dubois** and **Boyd**.

Hemo Press Unit Defines the unit used for hemodynamic pressures in the calculation window. The choices are mmHg and kPa.

**Gas Press Unit** Defines the unit used for gas pressures in the calculation window. The choices are **mmHg** and **kPa**.

**Hb** Unit Defines the unit used for hemoglobin in the calculation window. The choices are g/dl and mmol/l.

**Hemo Calcs** Set **Hemo Calcs** to **On** to make the **Hemo Calcs** menu entry available in the Calculations menu in monitoring mode.

**Oxy Calcs** Set **Oxy Calcs** to **On** to make the **Oxy Calcs** menu entry available in the Calculations menu in monitoring mode.

**Vent Calcs** Set **Vent Calcs** to **On** to make the **Vent Calcs** menu entry available in the Calculations menu in monitoring mode.

### **Configuring Reports**

Not Monitor Setting: Main Setup -> Reports -> Setup Reports -> Report MP5T For some report types, some of the settings are not shown. This means that they cannot be changed.

Factory Defaults						
Item Name	Of Mo C	per. ode M	MX800, MP2 - MP90 X2			
Realtime Rep						
Report Type	x	x	VisibleWaves			
Report Size	x	x	Unspecified			
Orientation	x	x	Unspecified			
Target Device	x	x	Unspecified			
VitalsReport						
Report Type	x	x	Vital Signs			
Report Size	x	x	Unspecified			
Orientation	x	x	Unspecified			
Target Device	x	x	Unspecified			
Graph Report						
Report Type	x	x	Graph Trend			
Report Size	x	x	Unspecified			
Orientation	x	x	Unspecified			

Factory Defaults					
Item Name	Of	oer.	MX800,		
	Mo	ode	MP2 - MP90		
	С	Μ	X2		
Target Device	x	x	Unspecified		
EventEpisode					
Report Type	x	x	Episode		
Report Size	x	x	Unspecified		
Orientation	x	x	Unspecified		
Target Device	x	x	Unspecified		
Event Review					
Report Type	x	x	Review		
Report Size	x	x	Unspecified		
Orientation	x	x	Unspecified		
Target Device	x	x	Unspecified		
ECG Report A					
Report Type	x	x	ECG3X4		
Report Size	x	x	Unspecified		
Orientation	x	x	Unspecified		
Target Device	x	x	Unspecified		
ECG Report B					
Report Type	x	x	ECG12x1		
Report Size	x	x	Ledger		
Orientation	x	x	Unspecified		
Target Device	x	x	Unspecified		
12 Lead Rep.					
Target Device	x	x	Unspecified		
ST Map Rep.					
Report Type	x	x	ST Map		
Report Size	x	x	Unspecified		
Orientation	x	x	Unspecified		
Target Device	x	x	Unspecified		
ECG QT Rep.					
Report Type	x	x	ECG QT Rep.		
Report Size	x	x	Unspecified		
Orientation	x	x	Unspecified		
Target Device	x	x	Unspecified		
EEG Report					
Report Type	x	x	EEG Report		
Report Size	x	x	Unspecified		

Factory Defaults										
Item Name	Of	oer.	MX800,							
	Mo	ode	MP2 - MP90							
	С	М	X2							
Orientation	x	x	Unspecified							
Target Device	x	x	Unspecified							
C.O. Report										
Target Device	x	x	Unspecified							
Wedge Report										
Target Device	x	x	Unspecified							
ProtWatchRep										
Report Type	x	x	Protocol 1							
Report Size	x	x	Unspecified							
Orientation	x	x	Unspecified							
Target Device	x	x	Unspecified							
Alarm Limits										
Report Type	x	x	Alarm Limits							
Report Size	x	x	Unspecified							
Orientation	x	x	Unspecified							
Target Device	x	x	Unspecified							
Calc. Report										
Target Device	x	x	Unspecified							
Calc. Review										
Target Device	x	x	Unspecified							
Loops Report										
Target Device	x	x	Unspecified							
Drug Calc										
Target Device	x	x	Unspecified							
Histogram										
Report Type	x	x	Histogram							
Report Size	x	x	Unspecified							
Orientation	x	x	Unspecified							
Target Device	x	x	Unspecified							
System Report										
Report Type	x	x	Test Report							
Report Size	x	x	Unspecified							
Orientation	x	x	Unspecified							
Target Device	x	x	Unspecified							
User Report A										
Report Type	x	x	None							

Factory Defaults	actory Defaults									
Item Name Ope Mod		oer. ode	MX800, MP2 - MP90							
	С	M	X2							
Report Size	x	x	Unspecified							
Orientation	x	x	Unspecified							
Target Device	x	x	Unspecified							
User Report B										
Report Type	x	x	None							
Report Size	x	x	Unspecified							
Orientation	x	x	Unspecified							
Target Device	x	x	Unspecified							

For information on configuring ECG reports, see "Configuring ECG Reports" on page 123.

For information on configuring CSA reports, see "CSA Reports Configuration" on page 124.

For information on configuring Trend reports, see "Configuring Trend Reports" on page 125.

#### **Reports Configuration Implications**

Each time a report is triggered, the monitor looks through the list of printers in the order they appear in the **Setup Printers** menu and prints the report on the first enabled printer that meets the requirements of the triggered report.

**Report Type** Lets you select a template for the report. The selection of templates listed depends on the report selected. The following templates are available:

- **VisibleWaves**: all waves currently visible, in the order they appear on the screen.
- All Waves: all measured waves.
- **RT** Waves: all currently measured realtime waves, according to the monitor's priority list.
- HiRes Waves: all measured HiRes waves.
- OxyCRG Waves: the OxyCRG/Neonatal Event Review waves.
- Vital Signs: trend information in tabular form.
- **Graph Trend**: trend information in graphic form.
- Histogram: trend information in form of a histogram.
- **Episode**: a single patient event episode.
- **Review**: an overview of patient events.
- Event Rev All:
- ECG3X4, ECG6X2, ECG12X1, ECG4X2, ECG8X1, ECG12X1(2P): Different formats of ECG reports.
- 12 Lead Rep.: ECG 12 Lead report in different formats, specified in the Setup 12 Lead menu of the Capture 12 Lead application.
- **ST** Map: ST Map report.
- ECG QT: QT report.
- **EEG Report**: EEG report.
- Protocol 1 / 2 / 3: ProtocolWatch reports.

- Alarm Limits: a list of all currently set alarm limits.
- **Battery Stat**: Battery Status report.

**Report Size** Lets you choose the paper size to be used for the report. The selection of sizes listed depends on the report type selected: **Unspecified**, **Universal**, **A4**, **Letter**, **LrgUniversal**, **A3**, or **Ledger**.

- If set to **Unspecified**, the report prints on the first available printer in the list of printers which is enabled and which has a paper size appropriate for the chosen template.
- If set to **Universal**, the report prints on the first available printer in the list of printers which is enabled and which offers the paper size A4 or US letter.
- If set to LrgUniversal, the report prints on the first available printer in the list of printers which is enabled and which offers the paper size A3 or ledger.

**Orientation** lets you set the orientation of the report printout. The selection of orientations listed depends on the report type and report size selected:

- **Unspecified**: the report uses the default orientation for the chosen report type.
- Landscape: the report uses landscape orientation.
- **Portrait**: the report uses portrait orientation.

**Target Device** Lets you choose which printer the print job will be sent to:

- If set to **Unspecified**, the report prints on the first printer in the list of printers which is enabled and which has a paper size appropriate for the chosen template. If no printer is available when the report is triggered, the report is sent to the print database from where it will be automatically printed, when an appropriate printer becomes available.
- If set to Local 1 / 2, the report will be sent to the corresponding local printer. If the printer is not available when the report is triggered, the report is not printed, and the information is lost.
- If set to **Remote 1 / 2 /3**, the report will be sent to the corresponding remote printer. If the printer is not available when the report is triggered, the report is not printed, and the information is lost.
- If set to **Database**, the report will be sent to the print database (provided this is enabled, see "Print Database" on page 209). The print database is a special section of the monitor database which acts as a buffer for print jobs. Reports stored in the print database will not be cleared by a discharge or by a power cycle. Reports stored in the print database will be handled depending on how the setting **Auto Prnt Dbs** is set, see "Configuring Other Report Settings".

#### **Configuring Other Report Settings**

```
Not Monitor Setting: Main Setup -> Reports
MP5T
MP5SC
Factory Defaults
Item Name Oper. MX800,
```

raciory Delauns										
Item Name	Oj Me	per. ode	MX800, MP2 - MP90							
	С	M	X2							
Auto Print Dbs	x		Always							
Addressograph	x		None							

#### **Other Report Settings Configuration Implications**

Auto Prnt Dbs This setting determines how the monitor handles reports stored in the print database.

- If Auto Prnt Dbs is set to Always, print jobs stored in the print database are automatically printed when a printer with a paper size matching the template of the report becomes available.
- Set **Auto Prnt Dbs** to **Never** if you do not want the monitor to automatically send reports stored in the print database to a matching printer. This enables the clinician to print only selected reports stored in the print database.
- Set Auto Prnt Dbs to Host Only if you connect an X2 or MP5 to a host monitor (companion mode) and want to prevent reports stored in the print database of the companion monitor being sent to a matching printer. This ensures that reports triggered on the companion while disconnected from the host and the network (for example during transport) are not automatically printed when the companion is connected to a host monitor. If Auto Prnt Dbs is set to Host Only reports triggered on the host monitor are still sent to a matching printer.

Addressograph This lets you configure an addressograph field at the top of the report. Choices are **Left** side, **Right** side, or **None**. An addressograph field is an empty field which has a width of 60mm, its height depends on the report. This enables the clinician to label the report with their own patient data. If you configure **Addressograph** to **Left** or **Right**, only the first character of the patient's middle name (middle initial) may be shown on the report.

### **Configuring Auto Reports**

```
Not Monitor Setting: Main Setup -> Reports -> Auto Reports
MP5T
MP5SC
```

Factory Defaults				
Item Name	Oper. Mode		MX800, MP5 - MP90 (H10/20/40)	MX800, MP5 - MP90 (H30)
	C	Μ	MP2/X2	
Auto Report A				
Report	x	x	None	
End Case Report	x	x	On	Off
Scheduled Rep.	x	x	On	
Start Hour	x	x	7	
Start Minute	x	x	0	
Rep. Freq.(Hr)	x	x	24	
Rep. Freq.(Min)	x	x	0	
Auto Report B				
Report	x	x	None	
End Case Report	x	x	On	Off
Scheduled Rep.	x	x	On	U
Start Hour	x	x	7	
Start Minute	x	x	0	
Rep. Freq.(Hr)	x	x	24	
Rep. Freq.(Min)	x	x	0	
Auto Report C				
Report	x	x	None	
End Case Report	x	x	On	Off
Scheduled Rep.	x	x	On	
Start Hour	x	x	7	
Start Minute	x	x	0	
Rep. Freq.(Hr)	x	x	24	
Rep. Freq.(Min)	x	x	0	
Auto Report D				
Report	x	x	None	
End Case Report	x	x	On	Off
Scheduled Rep.	x	x	On	11
Start Hour	x	x	7	
Start Minute	x	x	0	
Rep. Freq.(Hr)	x	x	24	
Rep. Freq.(Min)	x	x	0	

#### **Auto Reports Configuration Implications**

Auto Reports print automatically when a specified trigger occurs. There are two types of Auto Reports:

- Scheduled reports can be set up to print at predefined intervals, starting at a predefined time of day. The start time you set applies for every following day. For example, if you set a start time of 07:00 and a repeat time of six hours, the first report will print at 07:00 every day, the next at 13:00 and so on.
- End Case Reports print when a patient is discharged using the monitor's End Case function. An Auto Report can include both a Scheduled Report and an End Case report.

#### Setting up an End Case Report

- 1 Select Main Setup -> Reports -> Auto Reports
- 2 Select one of the four available Auto Report "slots" (A, B, C, or D)
- 3 Select **Report**, then select the type of report you want to be printed when a patient is discharged using the End Case function, for example "VitalsReport".
- 4 Set End Case Report to On.
- 5 Set **Scheduled Rep.** to **Off**, if do not want the monitor to trigger a Vital Signs Report at predefined intervals.
- 6 If needed, set up the VitalsReport or whatever type of report you used for the EndCase Report.
- 7 If you want more than one report to be printed when using End Case on a patient, repeat steps 2 through 6, selecting a different Auto Report (A, B, C, or D) and allocating it a different report type.

### **Configuring ECG Reports**

#### Not ECG Reports Configuration

```
MP5T Monitor Setting: Main Setup -> Reports -> ECG Reports
MP5SC
```

Factory Defaults									
Item Name Oper. Mode			IX800, IP2 - MP90						
	С	Μ	X2						
ReportLead Layout	x		Internat						
ECG Gain	x	x	10 mm/mV						
Speed	x	x	25 mm/sec						
Annotation	x	x	Off						

#### **ECG Reports Configuration Implications**

**Report Lead Layout** The layout of the report can be configured to either **International** or **Cabrera**.

**ECG Gain** This lets you set a defined ECG Gain to determine how ECG waves will appear on the ECG report printouts.

**Speed** Allows you to set the ECG wave speed used on the printout.

**Annotation** Set **Annotation** to **On** if the printed ECG wave should be annotated with beat labels. Pace pulse marks are automatically printed beside the wave for paced patients.

### **Configuring CSA Reports**

#### MX800 CSA Reports Configuration

```
MP40-90 Monitor Setting: Main Setup -> Reports -> CSA on EEG Rep.
only
```

Factory Defaults										
Item Name	Oper. Mode		MX800, MP40 - MP90							
	С	М								
Buffer	x	x	C (120 Sec)							
Trend SEF	x	x	On							
Trend MDF	x	x	Off							
Trend PPF	x	x	Off							
Clipping	x		On							
Frequency Scale	x		030 Hz							

#### **CSA Reports Configuration Implications**

**Buffer** defines which of the three preconfigured buffers (see "Configuring CSA Buffers" on page 166) is used on a CSA report. This setting can also be changed in monitoring mode. Note that the default buffer interval for CSA reports is intended to provide an overview of longer term CSA trends.

**Trend SEF / MDF / PPF** defines which of the available trend lines (SEF, MDF, PPF) are printed on the CSA report. This setting can also be changed in monitoring mode.

**Clipping** Set **Clipping** to **On** to improve the 3-D presentation of the CSA and make it more "readable". When set to **On**, peaks in a spectral line are artificially clipped at a certain height (see graphic under "Configuring CSA Buffers" on page 166). If **Clipping** is **Off**, peaks can reach as high as the window allows which may result in a more cluttered presentation.

**Frequency Scale** defines the bandwidth used for the CSA report.

### **Configuring Trend Reports**

```
Not Vital Signs Report
```

```
MP5T Monitor Setting: Main Setup -> Reports -> Vital Signs Rep.
MP5SC
```

Factory Defaults									
Item Name	Oper. Mode C M		MX800, MP20 - MP90	MP20 (M20/M21) MP5 (H10/20/40)					
			MP5 (H30)	MP2/X2					
				MP5SC, MP5#P05					
TrendGroup	x	x	All						
Period	x	x	6 hours	3 hours					
Column	x	x	Interval						
Interval	x	x	30 min 10 min						
Show Units	x		)ff						

#### **Graphical Trend Report**

```
Not Monitor Setting: Main Setup -> Reports -> Graph Trend Rep.
MP5T
```

```
MP5SC
```

Factory Defaults									
Item Name	Oper. Mode		MX800, MP20 - MP90	MP20 (M20/M21) MP5 (H10/20/40)					
	CM		MP5 (H30)	MP2/X2					
				MP5SC, MP5#P05					
TrendGroup	x	x	All						
Period	x	x	6 hours	3 hours					
Automatic Period	x	x	Off						

#### **Trend Report Settings Configuration Implications**

**Trend Group** Use this setting to define the default trend group that is printed each time a trend report is triggered.

**Column.** Use this setting to define in which way the Vital Signs Report is displayed on the report paper.

- To display the trended values with the time stamps for the set **Interval** time on top of the table select **Interval**. Each measurement of the set **Trend Group** is displayed in one row.
- To display it with the time stamps left of the printed table select **NBP**. Each measurement of the set **Trend Group** is displayed in one column.

**Interval** (Vital Signs Report only) Use this setting to determine the default time interval (resolution of the trend data) that is printed each time a trend report is triggered.

**Show Units** (Vital Signs Report only) If **Show Units** is configured to **On**, the measurements in the Vital Signs report are printed together with their units.

**Period** Use this setting to define the period of time for which trend data should be printed on the report. If **Automatic Period** is configured to **On**, all trend data for the current patient will be printed, irrespective which trend period is selected.

Automatic Period (Graphical Trend Report only) When Automatic Period is set to Off, the Period setting defines the period of trend information printed on Graphic Trend Reports. When Automatic Period is On, the Period setting is ignored and the Graphic Trend Report shows trend information for the entire period stored in the trend database. The time is shown on the report's horizontal axis, which always extends across one page, and the measurement trends are printed below each other on the vertical axis.

### **Configuring User Interface Settings**

Factory Defa	ults										
Item Name			per. ode	MX800, MP20- MP90 (H10/20/ 40)	MX800, MP5- MP90 (H30)	MP20 (M20/M21) MP5 (H10/20/40) MP5T, MP5SC	MP58 MP5#	6C #P05		MP2/X2	MP2/X2
		С	М			Profi	le				
				Adult Pedi Neo	Adult Pedi Neo	Adult Pedi Neo	EWS Scoring/SpotCheck <sup>1</sup>	rrequent vitais RRT	Resus	Adult Pedi Neo	Profile Outdoor
General	QRS Volume	x	х	1	3	1	0		3	1	3
	QRS Low	x		0			•				
	QRS Type	x		not applical	not applicable, this setting is stored as a global setting, see "Global Settings" on page 1						on page 168.
	Prompt Volume	x		8	4	8					10
	Tone Modulation	x	x	Yes			No		Yes		
	Tone Mod. Type	x		Enhanced							
	Global Speed	x	x	25mm/s							
	RespiratorySpeed	x	x	6.25mm/s							
	EEG Speed	x	x	25 mm/s							
	Touch ToneVolume	x		1							3
	Touch Enable <sup>2</sup>			Yes							
	MMS Keys <sup>3</sup>	x		Enabled						not applicat	ole
	ArrhyOff Message	x		Yes	No	Yes					
	Meas. Selection	x		Window							

Monitor Setting: Main Setup -> User Interface

Factory Defa	ults											
Item Name			per. ode	MX800, MP20- MP90 (H10/20/ 40)	MX800, MP5- MP90 (H30)	MP20 (M20/M21) MP5 (H10/20/40) MP5T, MP5SC	MP MP	MP5SC MP2/X2 MP2/X MP5#P05			MP2/X2	
		С	M			Profi	le					
				Adult Pedi Neo	Adult Pedi Neo	Adult Pedi Neo	EWS Scoring/SpotCheck <sup>1</sup>	Frequent Vitals	RRT	Resus	Adult Pedi Neo	Profile Outdoor
	Meas. Deactivate	x		Manual								
	Timer Volume	x		4								6
	OtherBed Colors	x		not applical Settings" on	ble, this settin page 132.	ig is stored as a networ	rk set	ting	: see	"Co	nfiguring Ne	etwork
	Global SmartKeys	x		not applicable, these settings are stored as unique monitor settings: see "Configuring User								
	Oper. 1 Fn Keys	x		Interface Settings - Keys" on page 162.								
	Oper. 2 Fn Keys	x										
	Oper. 1 RemCtrl	x										
	Oper. 2 RemCtrl	x										
Companion	Operating <sup>4</sup>	x		Enabled not applicable								
	Display <sup>4</sup>	x		Curr. Screen not applicable								
Display 1	Brightness <sup>5</sup>	x	x	Optimum 10								
	Standby Brightn. <sup>5</sup>	x		Optimum								
	TransportBrightn <sup>6</sup>	x		Optimum								10
	Menu LineSpacing <sup>3</sup>	x		Wide not applicable						ole		
	Display Units	x		No								
	Alarm Limits	x		Yes	No	Yes						
	Auto Fill Waves	x	x	Yes	No	Yes						
	Show ST In Wave	x		No	Yes	No						
	NBP Time	x		Meas Time								
	Wave Style	x		Line	Filled							
	Wave Line Style	x		Thin	Medium							
Display 2 <sup>7</sup>	Menu LineSpacing <sup>3</sup>	x		Wide							not applicab	ole
	Display Units	x		No								
	Alarm Limits	x		Yes	No	Yes						
	Auto Fill Waves	x	x	Yes	No	Yes						
	Show ST In Wave	x		No	Yes	No						
	Hide Alarm Info <sup>8</sup>	x		No								
	Hide Keys <sup>8</sup>	x		No								

Factory Def	aults											
Item Name		Oj M	per. ode	MX800, MP20- MP90 (H10/20/ 40)	MX800, MP5- MP90 (H30)	MP20 (M20/M21) MP5 (H10/20/40) MP5T, MP5SC	MP MP	MP5SC MP5#P05			MP2/X2	MP2/X2
		С	M			Profi	ile					
				Adult Pedi Neo	Adult Pedi Neo	Adult Pedi Neo	EWS Scoring/SpotCheck <sup>1</sup>	Frequent Vitals	RRT	Resus	Adult Pedi Neo	Profile Outdoor
	NBP Time	x		Meas Time		Ш						10
	Wave Style	x		Line	Filled	Line						
	Wave Line Style	x		Thin	Medium	Thin						
Display 3 <sup>9</sup>	Menu LineSpacing	x		Wide		not applicable, only up to two displays supported						
	Display Units	x		No								
	Alarm Limits	x		Yes	No							
	Auto Fill Waves	x	x	Yes	No							
	Show ST In Wave	x		No	Yes							
	Hide Alarm Info <sup>8</sup>	x		No								
	Hide Keys <sup>8</sup>	x		No								
	NBP Time	x		Meas Time								
	Wave Style	x		Line	Filled							
	Wave Line Style	x		Thin	Medium							

1.Profile SpotCheck for English language software only.

2.Setting can be changed in service mode only.

3.Setting not available in MP2/X2 monitors.

4.Setting not available in MP2/X2 and MP5 monitors.

5.Setting only affects monitors that have a built-in display.

6.Setting only available in monitors that can be operated on battery power.

7.Setting only applicable for monitors with two main displays.

8.Setting not applicable if display is the XDS Remote Display.

9.Setting only applicable for monitors with three main displays.

#### **User Interface Configuration Implications**

**QRS Volume** Sets the default volume of the QRS tone. The QRS tone is derived from either the ECG or Pulse, depending on which is currently selected as the alarm source.

**QRS** Low Defines the minimum QRS tone volume that can be selected by the user while in monitoring mode.

**Prompt Volume** Defines the volume of the tone the monitor emits to draw the user's attention to a prompt message shown in the monitor's prompt/status line.

**Tone Modulation** if you set **Tone Modulation** to **Yes**, the pitch of the SpO<sub>2</sub> tone will change with the measured signal strength. If you are using two SpO<sub>2</sub> sensors simultaneously, you can determine which sensor will serve as the source for the tone modulation pitch, by selecting the corresponding SpO<sub>2</sub> label as the System Pulse source. For example, if you measure SpO<sub>2</sub> l and SpO<sub>2</sub>r and want SpO<sub>2</sub>r to be the source for the tone modulation, in the Setup Pulse menu, set **System Pulse** to **SpO<sub>2</sub>r**.

**Tone Modulation Type** This setting lets you choose between **Standard** and **Enhanced**. **Standard** is the regular Nellcor behavior. The difference in frequency per % saturation change is small which might make it difficult to hear smaller changes. **Enhanced** results in a larger (and therefore more obvious) frequency decrease for each drop in SpO<sub>2</sub> level. Due to the larger steps, when the saturation drops below 70%, the absolute frequency may become so low that the perceived volume will be low and it will be hard to hear a frequency change per % saturation.

**Global Speed** The **Global Speed** setting defines the speed of all non-respiratory and non-EEG waves on the Screen. The **Global Speed** setting can be overridden by fixed wave channel speeds. See see "Configuring the Wave Channel Speed" on page 26.

**RespiratorySpeed** The **Respiratory Speed** setting defines the speed of all respiratory waves (CO<sub>2</sub>, Resp. anesthetic agents and O<sub>2</sub>) on the Screen. The **RespiratorySpeed** setting can be overridden by fixed wave channel speeds. See see "Configuring the Wave Channel Speed" on page 26.

**EEG Speed** The **EEG Speed** setting defines the speed of all EEG waves (including BIS) on the Screen. The **EEG Speed** setting can be overridden by fixed wave channel speeds. See see "Configuring the Wave Channel Speed" on page 26.

**Touch Tone Volume** The **Touch Tone Volume** setting defines the volume of the tone you hear every time you select a field on the monitor screen. You may want to set this to 0 if you want to operate the monitor in a quiet environment.

**MMS Keys** To prevent users from using the hardkeys on the Multi-Measurement Module, set **MMS Keys** to **Disabled**. This setting is not available in the MP2 and X2.

**ArrhyOff Message** If arrhythmia analysis is switched off, the message "Arrhythmia Off" is permanently displayed beside the first ECG wave on both the bedside monitor and on the Information Center. If you do not want this message to appear, you must set **ArrhyOff Message** to **Off**.

**Meas. Selection.** The **Meas. Selection** setting defines the behavior of the monitor if a measurement label conflict occurs.

- Set this to **Indicator** to make the measurement selection icon with question marks your only indicator of the label conflict.
- Set it to Window to pop up the Measurement Selection window indicating the label conflict.
- Set it to Auto Select. to let the monitor resolve the conflict automatically by assigning a new, generic label to the newly connected measurement device. Be aware that this behavior only applies to the following plug-in module measurements:
  - SpO<sub>2</sub>
  - Invasive Pressure
  - Temperature

Auto Select. does not work on any MMS or X2 measurements.

**Meas.** Deactivate This setting defines the monitor's behavior when you connect a measurement device (MMS, X2, or plug-in module) to the monitor, and

- a measurement label of the newly connected device duplicates the label of an already connected measurement device, and
- the already connected device is switched off.

If **Meas**. **Deactivate** is set to **Manual**, the monitor deactivates the **newly** connected measurement, due to the label conflict.

If **Meas**. **Deactivate** is set to **Auto**, the monitor deactivates the **previously** connected measurement device and activates the newly connected device.

**Timer Volume** determines the volume of the notification tone for all timers.

**Companion** - **Operating** This setting is only available on host monitors that can support the X2 or MP5 as a multi-measurement module (companion mode). It determines whether the companion monitor (X2 or MP5) can still be operated, when it is connected to a host monitor. If **Enabled**, functions you can operate on an X2 or MP5 are restricted to measurements originating in that device. If **Disabled**, no operation is possible.

**Companion** - **Display** This setting is only available on host monitors that can support the X2 or MP5 as a multi-measurement module (companion mode). It determines which Screen is shown on the companion monitor (X2 or MP5), when it is connected to a host monitor. Choices are:

- Curr. Screen: shows the Screen that was active before connecting to the host.
- **Blank Screen**: shows a special companion mode standby Screen.

**Brightness** Defines the default brightness for monitoring. This setting is not applicable for an MP80/ 90 monitor (external display). For **Brightness**, the choice **Optimum** is equivalent to **8**.

**Standby Brightness** Lets you choose a brightness setting for when the monitor is in Standby. This setting is not applicable for an MX800, MP80/90 monitor (external display). For **Standby Brightness**, the choice **Optimum** is equivalent to **1**.

**Transport Brightness** This setting is only available on the MP2 - MP50. It defines the display brightness when the monitor is running on battery power. For **Transport Brightness**, the choice **Optimum** is equivalent to **4**.

#### User Interface - Display Settings Configuration Implications

**Menu LineSpacing** Use this to change the line spacing for all menus. **Wide** provides more room between menu entries and is the recommended setting for touchscreen use. **Narrow** lets you see more menu entries on one menu page and is recommended when using mouse or SpeedPoint/Navigation Point as the primary input device.

**Display Units** If **Display Units** is set to **Yes**, the measurement units are displayed next to the measurement numerics, provided that there is enough space.

**Alarm Limits** If **Alarm Limits** is set to **Yes**, the alarm limits are displayed next to the measurement numerics, provided that there is enough space.

Auto Fill Waves If Auto Fill Waves is set to Yes, the monitor automatically assigns available waves that would otherwise not be displayed, to wave channels for which the preconfigured waves are currently not available. Set Auto Fill Waves to No, if you do not want waves other than the ones preconfigured to automatically appear on the Screen.

An example: assume you are viewing a 4 wave Screen with the following wave channel configuration (top to bottom): ECG, Any SpO<sub>2</sub>, Any Press, CO<sub>2</sub>. With **Auto Fill Waves** set to **Yes**, if you were currently not measuring CO<sub>2</sub> but a 2nd Invasive Pressure, the monitor would automatically assign the 2nd Invasive Pressure to the 4th wave channel. With **Auto Fill Waves** set to **No**, the 4th wave channel would be empty.

**Show ST In Wave** If **Show ST in Wave** is set to **Yes**, the current ST value will be shown next to each ECG wave.

**Hide Alarm Info** This setting only applies to monitors with two or three main displays (excluding the XDS Remote Display). It is only available for **Display 2** and **Display 3**. If you set it to **Yes**, for example for **Display 3**, this display will no longer show any alarm related information, such as alarm messages, alarm limits next to the numerics, and Alarm off symbols. Flashing numerics will also be deactivated on this display.

Note that this setting has no effect on the XDS Remote Display. The monitor will behave as if the setting was set to **No**.

**Hide Keys** This setting only applies to monitors with two or three main displays (excluding the XDS Remote Display). It is only available for **Display 2** and **Display 3**. If you set it to **Yes**, for example for **Display 3**, the Operating Area, including permanent keys, SmartKeys, and the Measurement Selection key will be deactivated and invisible on this display.

Note that this setting has no effect on the XDS Remote Display. The monitor will behave as if the setting was set to **No**.

**NBP Time** If **NBP Time** is set to **Meas Time**, the time shown beside the NBP numeric will show the timestamp of the most recent NBP measurement. If set to **Next Meas**, and NBP mode is set to **Auto** or **Sequence**, the time until the next automatic measurement is shown, along with a graphic representation of the remaining time.

**Wave Style** This setting lets you change the presentation of certain respiratory waveforms (CO<sub>2</sub>, AWF, AWP, and AWV). If you set this to **Filled**, the area underneath the waves is filled with color. If you set it to **Line**, the waves are displayed in the standard way, as continuous lines.

**Wave Line Style** This setting lets you configure the thickness of all waves and HiRes Trends on display 1 (2,3). For better visibility over a distance you might want to use **Medium** or **Thick**. The choices are: **Thin**, **Medium**, **Thick**, **Extra Thick**.

#### Display-Related Configuration Implications for Monitors which are connected to an XDS Remote Display

In an MX800, MP2/X2, MP5, MP60/70, MP80, MP90 (with single CPU), the XDS Remote Display will be the second main display. The XDS Remote Display will use the settings made for Display 2. Note that the User Interface settings Hide Alarm Info and Hide Keys made for Display 2 will have no effect on the XDS Remote Display. The monitor will behave as if the settings are set to No.

- In an MX800 with Independant Display Interface, or an MP90 with dual CPU, the XDS Remote Display will be the third main display. The XDS Remote Display will use the settings made for Display 3. Note that the User Interface settings Hide Alarm Info and Hide Keys made for Display 3 will have no effect on the XDS Remote Display. The monitor will behave as if the settings are set to No.
- NOTE If you clone a configuration that was made for a Dual CPU MP90 or MX800 with Intependent Display Interface with an XDS Remote Display as the third main display to a smaller monitor with an XDS Remote Display as the second main display, the configuration settings made on the MX800 or MP90 for Display 2 will on the smaller monitor be used for the XDS Remote Display.

### **Configuring Network Settings**

Factory Defaults									
Item Name Op Mo		per. ode	MP2/X2	MX800, MP5 - MP90 (H10/20/40)	MX800, MP5 - MP90 (H30)				
	С	M			MP5SC, MP5#P05				
Auto Window	x	x		not applicable, see "Network Configuration	n Implications"				
Auto Win Disable	x		Allowed						
Auto Window Type	x			PatWindow	Off				
Auto Window Disp <sup>1</sup>	x			Display 1					
CareGroup Status	x			On					
Caregroup	x			Standard					
CentralMonitorng	x		Mandatory		Optional				
Tele Screen	x		on ECG						
Return To	x		Previous						
Other BedColors	x			Enabled					
Remote Controls	x		not applicabl	e, this settings is stored as a global setting, se	e "Global Settings" on page 168				
CaregroupToneVol	x		8	4					
Caregroup Tone	x		Standard						

Monitor Setting: Main Setup -> Network

1.Setting available for MX800 or MP90 with more than one main display only.

#### Monitor Setting: Main Setup -> Network -> Setup IIT

Factory Defaults									
Item Name Oper. Mode		MP2/X2	MX800, MP5 - MP90 (H10/20/40)	MX800, MP5 - MP90 (H30)					
	С	M							
$IIT^1$	x		enabled						
RF Access Code <sup>1</sup>	x		1						

1.Setting available for X2, MP2, MP5, MP20/30 and MP40/50 only. Setting is a global setting.

#### **Network Configuration Implications**

Auto Win Disable This setting can be used to control the behavior of the Auto Window Enable/Disable setting.

The following choices are configurable:

- Allowed, to make the user selection of Auto Window: Disable possible and to disable the auto window pop-ups until the user enables it again.
- 5 min, to make the user selection of Auto Window: Disable possible and to disable the auto window pop-ups for a period of 5 minutes.
- Not Allowed, to make the user selection of Auto Window: Disable impossible and to disable Auto Window permanently.

Auto Window Type If you want to prevent automatic notification of alarm conditions at the other beds in the Care Group, configure Auto Window Type to Off. If you want notification at the monitor of alarm conditions at other beds in the Care Group, configure either:

- Care Group, to make the My Care Group window pop up.
- Alarming Beds, to make the Alarming Beds window pop up, that shows all beds in the associated care group that currently have unsilenced alarms.
- **Pat.Window**, to make the Other Patient Window for the alarming bedside pop up.

Note that if the Information Center is configured to unit-based care groups and **Auto Window Type** is configured to **Pat.Window**, the monitor may automatically fall back to **Alarming Beds**.

Auto Window can be temporarily disabled in monitoring mode. To do this, select the network symbol on the monitor's information line, then select **Auto Window** and toggle to **Disabled**. Remember to reenable the Auto Window as soon as possible.

Auto Window Disp This setting applies only to monitors with multiple main displays. It defines on which of the connected displays the automatic pop-up window configured under Auto Window Type is shown. If the configured display is not available, the monitor automatically uses Display 1.

**CareGroup Status** If you are asked to hide the Care Group Overview Bar on all Screens, set the **CareGroup Status** to **Off**.

**Caregroup** This setting lets you change the way care groups are defined.

- Set this to **Standard** if you want the beds in your care group to be defined by the care group setup at the IntelliVue Information Center. Depending on your revision of the Information Center, the following care group models are supported:
  - Bed-Based CareGroups: lets you assign a maximum number of 12 patients from a clinical unit to a care group.
  - Unit-Based CareGroup (IIC Rev. G and higher): assigns all beds on all Information Centers assigned to a clinical unit to one large care group (up to 64 patients monitored by up to 4 Information Centers).

For more detail, please refer to the IntelliVue Information Center Instructions for Use.

• Set it to **My Central** if you need to assign more than 12 beds, but not more than 16 beds to a care group. This care group model is typically used in facilities with only one IntelliVue Information Center (IIC). "My Central" care groups include all beds (up to 16) from a directly connected IIC, but cannot combine beds from different IICs. The selection of beds in a "My Central" care group is static and cannot be configured.

Be aware that in order to be included in the My Central care group, beds need to be assigned to a care group at the Information Center. Also, at the IIC, configure "Overview Auto-Alarm" and "Overview Prompt-Tone" for all Care Groups to the same settings. This ensures that all beds in the "My Central" Care Group exhibit the same alarm behavior.

**Central Monitorng** If **CentralMonitorng** is set to **Mandatory**, and the monitor was not connected to an Information Center when switched on, or loses its connection to the Central during monitoring, it will generate the INOP message "No Central Monit.", accompanied by an INOP tone. If **CentralMonitorng** is set to **Optional**, the monitor generates the same INOP, but only when the monitor loses the connection during monitoring. The INOP will not be generated if the monitor is not connected to an Information Center when it is switched on. This setting is intended for standalone monitors.

**Tele Screen** Set **Tele Screen** to **On Pair** if you want the monitor to automatically switch to a Screen with a Telemetry Data Overview screen element embedded when the user "pairs" the monitor with a telemetry device. If there is more than one of these special Screens available, the monitor uses the first Screen in the Screen list. If **Tele Screen** is set to **On ECG**, the change to the Tele Screen happens if the monitor is paired with the tele transmitter **and** a valid ECG signal from the Tele transmitter is available. Set **Tele Screen** to **Off**, to switch off the automatism completely. The availability of this function depends on the Information Center revision the monitor is connected to. See your Information Center Instructions for Use for further details.

**Return To** This setting determines which Screen the monitor loads when it is unpaired from the telemetry device or when, while paired, the ECG is sourced from the bedside.

- **Previous** loads the Screen that was active before the Telemetry Screen was loaded.
- **Default** loads the Screen defined for the default profile.
- **Off** does not automatically switch the Screen.

**OtherBed Colors** This determines whether the measurement information from another bed is shown in the colors assigned at the Information Center or in monochrome (green on black). The availability of this function depends on the Information Center revision the monitor is connected to. See your Information Center Instructions for Use for further details.

**Caregroup Tone** A new alarm that occurs in any of the beds assigned to the monitor's care group can be announced with a tone. The **Caregroup Tone** setting lets you toggle between a **Standard** and **Enhanced** tone. The **Enhanced** tone is a more prominent tone to draw attention to the screen. The **Caregroup Tone** will only be generated if an alarm exceeds the Auto Alarm Severity level configured at the Information Center. The volume of the **Caregroup Tone** is determined by the **CaregroupToneVol** setting (see below). Note that the **Caregroup Tone** can be completely disabled at the Information Center.

**CaregroupToneVol** This setting defines the volume of the caregroup tone. It can be set in a range between 0 and 10. If you set **CaregroupToneVol** to **0**, this is indicated by a crossed speaker symbol in any embedded Other Bed window. For more information on care groups and Other Bed windows, see the Monitor and Information Center Instructions for Use. **IIT** This setting is not a monitor setting, it is a **global** setting. It is available with IntelliVue X2, MP2, MP5, MP20/30 and MP40/50 monitors only. The Instrument Telemetry network interface can be disabled to suppress network related technical INOPs if the device is operated in an infrastructure without telemetry.

**RF Access Code** This setting is not a monitor setting, it is a **global** setting. It is available with IntelliVue X2, MP2, MP5, MP20/30 and MP40/50 monitors only. It is needed to establish communication of the IntelliVue Instrument Telemetry transceiver with the access points of the wireless network. The IntelliVue Instrument Telemetry transceiver only communicates with an access point that is configured to the same RF Access Code.

# **Unique Monitor Settings**

Some Monitor settings are unique settings. This means that they are the same in every Profile and they are automatically included in each monitor settings block when you store them. See "Understanding Monitor Settings" on page 95 for more detail.

Monitor Settings									
Normal	Page	Unique	Page						
Alarms	96	Trend Groups	137						
Alarm Recordings	101	Trend Priorities	140						
Auto Alarm Limits	102	Trend Scales / Trend Units	141						
INOP Severity	103	Event Surveillance	144						
Screen Trend Settings	104	Event Annotations	151						
Horizon Trend Settings	104	SSC Sepsis Protocol	152						
Global Trend Style	105	Guardian Early Warning Scoring	153						
Trend Windows	106	Recordings (except Vital Signs)	154						
Trend Recordings	108	Timers	158						
ST Map	109	Global SmartKeys, Function Keys	162						
ProtocolWatch	109	CSA Buffers	166						
SpotCheck Monitoring	110	Drug Calculator	166						
C.O. Window	111								
Wedge Window	112								
Loops Window	113								
CSA Window	113								
ECG Application	114								
Calculations (except Drug Calc.)	115								
Reports	116								
Other Report Settings	121								
Auto Reports	122								
ECG Reports	123								
CSA Reports	124								
Trend Reports	125								
User Interface (except Keys)	126								
Network	132								

The following table provides an overview of normal vs. unique monitor settings:

# **Configuring Trend Groups**

Unique Monitor Setting: Main Setup -> Trends -> Trend Groups

Fac	Factory Defaults												
#	OI	per.	MX800,										
	IVI (	oae	MP2 - MP90										
			MP5T, MP5SC										
			X2										
	С	Μ	Name	Parameters	Scale	Style							
1	x	x	All	All parameters	Global	Global							
2	x	x	Standard	HR, SpO <sub>2</sub> , SpO <sub>2</sub> pr, SpO <sub>2</sub> po, SpO <sub>2</sub> r, SpO <sub>2</sub> l	Global	Global							
				NBP	Global	Global							
				CO <sub>2</sub> , RR, awRR	Global	Global							
				Any Press	Global	Global							
				Any Temp	Global	Global							
2	x	x	Cardiac	HR, PVC	Global	Global							
				STindx, ST, Any QT	Global	Global							
4	x	x	Hemo	HR	Global	Global							
				ABP, Pulse(ABP)	Global	Global							
				ART, Pulse(ART)	Global	Global							
				Ao, Pulse(Ao)	Global	Global							
				PAP, Pulse(PAP)	Global	Global							
				CVP	Global	Global							
				RAP	Global	Global							
				LAP	Global	Global							
				ICP	Global	Global							
				UAP, Pulse(UAP)	Global	Global							
				UVP	Global	Global							
				P, Pulse(P)	Global	Global							
				PAWP, CPP	Global	Global							
				C.O., C.I., CCO, CCI	Global	Global							
				ITBV, ITBVI, EVLW, EVLWI	Global	Global							
				Tblood	Global	Global							
5	x	x	Resp	CO <sub>2</sub>	Global	Global							
				awRR	Global	Global							
				O <sub>2</sub>	Global	Global							
				RR	Global	Global							

Fac	Factory Defaults									
#	O	per.	MX800,							
	M	ode	MP2 - MP90							
			MP5T, MP5SC							
			X2							
	С	M	Name	Parameters	Scale	Style				
6	x	x	Spirometry	PIP, PEEP	Global	Global				
				TVexp	Global	Global				
				TVin	Global	Global				
				MVexp	Global	Global				
				MVin	Global	Global				
				RRspir	Global	Global				
				COMP	Global	Global				
				Raw	Global	Global				
7	x	x	Neuro	BIS, TP, SEF, SQI (BIS), EMG, SR	Global	Global				
				TP1, TP2	Global	Global				
				SEF1, SEF2	Global	Global				
				MDF1, MDF2	Global	Global				
				PPF1, PPF2	Global	Global				
				Delta1, Delta2	Global	Global				
				Theta1, Theta2	Global	Global				
				Alpha1, Alpha2	Global	Global				
				Beta1, Beta2	Global	Global				
8	x	x	Temp	AnyTemp, Any DiffTemp	Global	Global				
9	x	x	Gases	CO <sub>2</sub>	Global	Global				
				awRR	Global	Global				
				O <sub>2</sub>	Global	Global				
				N <sub>2</sub> O	Global	Global				
				ISO	Global	Global				
				SEV	Global	Global				
				ENF	Global	Global				
				HAL	Global	Global				
				DES	Global	Global				
	1			MAC	Global	Global				

Fac	tory	7 De	Defaults							
#	Oper. Mode		MX800, MP2 - MP90 MP5T, MP5SC X2							
	С	Μ	Name	Parameters	Scale	Style				
10	x	x	External Device	CO <sub>2</sub>	Global	Global				
				awRR	Global	Global				
				O <sub>2</sub> , FIO <sub>2</sub> , PIP	Global	Global				
				TV	Global	Global				
				MINVOL	Global	Global				
				SpMV	Global	Global				
				PEEP	Global	Global				
				pH	Global	Global				
				$PCO_2, PcO_2$	Global	Global				
				PO <sub>2</sub>	Global	Global				
				MnAwP	Global	Global				
				RRaw	Global	Global				

#### **Trend Groups Configuration Implications**

The measurements grouped in trend groups define the trends displayed together in the Vital Signs or Graphics Trends windows and printed in trends reports and recordings. The trend group **All** contains all available measurements, you can change its name, but not the order or selection of parameters as they appear when this group is selected.

Add Lets you add a new trend group. If you want to add a specific label, select this label to add it to the group, e.g. **ABP**. If you do not want to add a specific label, select **any <label>**, e.g. **Any Press**. Be aware that selecting **Any <label>** together with specific labels duplicates the values in the resulting trend view.

**Delete** Lets you delete a trend group.

**Change** Lets you change the parameters of a trend group.

**Sort Up / Sort Down** Lets you change both the sequence of trend groups, and the sequence of the trended measurement parameters within a group.

**Add Separatr** Lets you add line separators. Trended parameters listed between line separators are displayed overlapping in one trend segment.

**Scale** Lets you change the scales for the trended parameters. If set to **Global**, the Graphical Trends window and the Graph Trends Report use the scales as defined in the general Trend Scales configuration, see "Configuring Trend Scales / Trend Units" on page 141.

**Style** Lets you change how trended parameters are presented in the Graphical Trends window and on the Graph Trends Report. Select **Line** to display the trends as a continuous line. For measurements with compound values (for example, the systolic and diastolic pressures), select **Band** to fill the area between trend lines with color. If set to **Global**, the trend windows and reports use the style as defined in the Global Style configuration, see "Configuring Global Trend Style" on page 105.

### **Configuring Trend Priorities**

Unique Monitor Setting: Main Setup -> Trends -> Trend Priority

Factory Defa	Factory Defaults							
Item Name	Oper. Mode		MX800,	MX800,				
	С	M	MP57, MP58C	MF5 - MF90 (H30)				
			X2					
Priority	x	x	HR	HR				
			PVC	PVC				
			SpO <sub>2</sub>	SpO <sub>2</sub>				
			SpO <sub>2</sub> 1	SpO <sub>2</sub> 1				
			SpO <sub>2</sub> r	SpO <sub>2</sub> r				
			Any Press	Any Press				
			СРР	СРР				
		l			ССО	ССО		
			CCI	CCI				
			CO <sub>2</sub>	CO <sub>2</sub>				
			awRR	awRR				
			RR	RR				
				Any Agent				
				BIS				
				EMG				
				SQI				

#### **Trend Priority Configuration Implications**

The monitor stores trend information for up to 32 monitored measurements, depending on the installed database option and the configuration of the trend database (see "Trend Database" on page 207). If you are monitoring more measurements than can be trended, the monitor determines which measurements are trended acording to an internal priority list.

The **Trend Priority** configuration overrides this internal measurement priority. It allows you to set your own priority for trended measurements. The **Trend Priority** shows the trended measurements in order of their priority - the measurement with the highest priority is at the top of the list. Any additional measurement that is monitored, but not listed in the **Trend Priority** menu, is assigned a priority according to the internal priority list.

Note that the monitor provides a second trend database exclusively reserved for aperiodic parameters. Aperiodic parameters are parameters that are measured intermittently, such as NBP, C.O., C.I., PAWP (Wedge), manually entered measurements, or lab results from external devices obtained from the VueLink or IntelliBridge plug-in module. Aperiodic parameters do not count towards the max. number of trended parameters allowed by the trend database configuration and therefore do not have to be considered when configuring the **Trend Priority**.

To add measurements to the priority list,

• select the pop-up key **Add** and choose from the pop-up list of available measurements.

To delete measurements,

• select the measurement that should be deleted, and select the pop-up key **Delete**.

To change the priority order,

• use the **Sort Up** and **Sort Down** pop-up keys.

### **Configuring Trend Scales / Trend Units**

Unique Monitor Setting: Main Setup -> Trends -> Parameter Scales

Factory Defaults									
Item Name		per. ode	Unit	MX800, MP2 - MP90 MP5T, MP5SC X2					
	С	M		Profile Adult	Profile Pedi	Profile Neo			
HR	x	x	bpm	30180		30210			
PVC	x	x	/min	020					
Any ST	x	x	mm	-2.5+2.5					
STindx	x	x	mm	0.05.0					
QTc	x	x	msec	350450		375425			
ΔQTc	x	x	msec	-4040		-2020			
QT	x	x	msec	300500		·			
QT-HR	x	x	bpm	50130	60140	80160			
Any Pulse	x	x	bpm	30180		30210			
SpO <sub>2</sub>	х	х	%	80100					
$\Delta SpO_2$	x	x	%	050					
Perf	x	x		0.010.0		0.05.0			
NBP	x	x	mmHg	30200	20150	10100			
	x	x	kPa	4.028.0	2.020.0	1.014.0			
ABP, ART, Ao, UAP,	x	x	mmHg	0200	0150	0100			
BAP, FAP, P, P1, P2, P3, P4,		x	kPa	0.028.0	0.020.0	0.014.0			
PAP	x	x	mmHg	060	040	030			
	x	x	kPa	0.08.0	0.06.0	0.04.0			

Factory Defaults									
Item Name	O <sub>I</sub> Mo	per. ode	Unit	MX800, MP2 - MP90 MP5T, MP5SC X2					
	С	M		Profile Adult	Profile Pedi	P	Profile Neo		
CVP, RAP, LAP, UVP	x	x	mmHg	030					
	x	x	kPa	0.04.0					
ICP, IC1, IC2	x	x	mmHg	060					
	x	x	kPa	0.08.0					
PAWP	x	x	mmHg	030					
	x	x	kPa	0.04.0					
СРР	x	x	mmHg	0100					
	x	x	kPa	0.014.0					
PPV	x	x	%	020					
CO,CCO	x	x	l/min	0.012.0	0.06.0	0	0.03.0		
CI, CCI	x	x	l/min/m2	0.06.0					
SV	x	x	ml	1200					
SI	x	x	ml/m2	1100					
SVV	x	x	%	020					
dPmax	x	x		2002000					
ITBV	x	x	ml	5003000					
ITBVI	x	x	ml/m2	5001300					
EVLW	x	x	ml	02500					
EVLWI	x	x	ml/kg	0.020.0					
GEDV	x	x	ml	4002400					
GEDVI	x	x	ml/m2	4001000					
CFI	x	x		1.015.0					
PVPI	x	x		0.05.0					
GEF	x	x	%	1040					
SvO <sub>2</sub> , ScvO <sub>2</sub> , SO <sub>2</sub>	x	x	%	4080					
LI	x	x		059					
Sp-vO <sub>2</sub>	x	x	%	-4040					
tcpO <sub>2</sub>	x	x	kPa	4.020.0					
	x	x	mmHg	30150					
tcpCO <sub>2</sub>	x	x	kPa	1.011.0					
	x	x	mmHg	1080					
CO <sub>2</sub>	x	x	kPa	0.08.0		0	0.011.0		
	x	x	mmhg	060		0	80		
awRR	x	x	rpm	060		0	110		

Factory Defaults							
Item Name	Item Name Oper. Mode		Unit	MX800, MP2 - MP90 MP5T, MP5SC X2			
	C	М		Profile Adult	Profile Pedi	Profile Neo	
O <sub>2</sub>	x	x	%	0100			
	x	x	mmHg	0800			
	x	x	kPa	0100			
FiO <sub>2</sub>	x	x		0.001.00			
	x	x	%	0100			
RR	x	x	rpm	060		0110	
PIP	x	x	mmHg	060			
MnAwp	x	x	mmHg	030			
TV	x	x	ml	01000	0500	0100	
MINVOL	x	x	liter	0.010.0	0.06.0	0.03.0	
SpMV	x	x	liter	0.010.0	0.06.0	0.03.0	
PEEP	x	x	mmHg	015			
BIS	x	x		0100			
SQI (BIS)	x	x	%	0100			
EMG	x	x	dB	060			
ТР	x	x	dB	4080			
TP1, TP2	x	x	nW	0.001.00			
SR	x	x	%	0100			
Bursts	x	x	/min	030.0			
SEF	x	x	Hz	15.030.0			
SEF1,SEF2	x	x	Hz	0.030.0			
MDF1, MDF2	x	x	Hz	0.030.0			
PPF1, PPF2	x	x	Hz	0.030.0			
Alpha1, Alpha2	x	x	%	0.0100.0			
Beta1, Beta2	x	x	%	0.0100.0			
Delta1, Delta2	x	x	%	0.0100.0			
Theta1,Theta2	x	x	%	0.0100.0			
Any Temp	x	х	°F	95.0110.0			
	x	x	°C	35.043.0			
Tblood	x	x	°F	80.0110.0			
	x	x	°C	28.043.0			
Any DiffTemp	x	x	°F	-12.012.0			
	x	x	°C	-6.06.0			
N <sub>2</sub> O	х	x	%	0100			
	x	x	kPa	0100			
	x	x	mmHg	0800			

Factory Defaults									
Item Name		per. ode	Unit	MX800, MP2 - MP90 MP5T, MP5SC X2					
	С	Μ		Profile Adult	Profile Pedi	Profile Neo			
ISO	x	x	%	0.04.0					
	x	x	kPa	0.04.0					
	x	x	mmHg	030					
SEV	x	x	%	0.06.0					
	x	x	kPa	0.06.0					
	x	x	mmHg	050					
ENF	x	x	%	0.06.0					
	x	x	kPa	0.06.0					
	x	x	mmHg	050					
HAL	x	x	%	0.03.0					
	x	x	kPa	0.03.0					
	x	x	mmHg	025					
DES	x	x	%	020					
	x	x	kPa	020					
	x	x	mmHg	0160					
SVR	x	x	DS/cm <sup>5</sup>	4002400					
SVRI	x	x	DSm <sup>2</sup> /cm <sup>5</sup>	5 8004800					
pH x		x		7.07.8					
PCO <sub>2</sub>	x	x	mmHg	2550	2560	2580			
PO <sub>2</sub>	x	x	mmHg	40160					
RRaw	x	x	rpm	060		0110			
PcO <sub>2</sub>	x	x	mmHg	2550	2560	2580			

#### **Trend Scales/Units Configuration Implications**

These settings apply to the graphical trends displayed in the GraphTrends window and the screen trends. They can be overridden for individual parameters displayed in the GraphTrends window by changing the **Scale** setting for these parameters from **Global** to a specific value in the Trend Group Parameter menu (see see "Configuring Trend Groups" on page 137).

### **Configuring Event Surveillance**

MX800 Unique Monitor Setting: Main Setup -> Event Surveill. -> Setup Events MP5-90

only
### Levels of Event Surveillance

The appearance of the events windows and menus and the settings you can configure for events depends on the event surveillance option purchased for the monitor: basic event surveillance (BES), advanced event surveillance (AES), or neonatal event review (NER). This table lists the differences between the options:

Event Functionality	Basic Event Surveillance (BES) Option C06	Advanced Event Surveillance (AES) Option C07	Neonatal Event Review (NER) Option C04
Available for monitor models	MX800,	MX800,	MX800,
	MP5 - MP90	MP60 - MP90	MP5 - MP90
Event groups	1	6	NER
Measurements per group	3	4	3 (plus 1 for episode recording)
Triggers per measurement	1	2	1
Trigger types	Simple ("at least one")	Combined ("at least two")	Simple ("at least one")
Annotation	no	yes	yes
Types of event episode	Average Trend Realtime Wave	High Resolution Trend Average Trend Realtime Wave	High Resolution Trend
Event views	Graphic Event Review window, Graphic Event Episode window	Summary view, graphic and tabular Event Review window, graphic and tabular Event Episode window	Graphic and tabular Event Review window, Graphic and tabular Event Episode window
Database capability	25 events for 24 hours	25 events for 24 hours 25 events for 8 hours 50 events for 8 hours 50 events for 24 hours	25 events for 24 hours 25 events for 8 hours 50 events for 8 hours 50 events for 24 hours
Event Notification	no	yes	no

Select one of the listed Event Groups to start configuring it. Then either select each item and select the correct setting, or select **Guided Setup** to move automatically from each setting to the next.

Factory Defaults	Factory Defaults						
Item Name Oper. Mode		per. ode	MX800, MP5 - MP90				
	С	Μ					
Group 1							
Group Name	x		Standard				
Group Type	x		Standard				
Activated <sup>1</sup>	x	x	Yes				
Notification Type	x		None				
Episode Type	x	x	Average Trend (20min)				
Pre/Post Time	x	x	-10/+10 min				
Trigger Condition	x		At Least One Param.				

Factory Defaults						
Item Name	Oper. Mode		MX800, MP5 - MP90			
	С	Μ				
Parameters	х		HR(Pulse), SpO <sub>2</sub> , Resp			
Param. 1: Trigger Type	x	x	HR(Pulse)	All ***/** Alarms		
Param. 2: Trigger Type	x	x	SpO <sub>2</sub>	All ***/** Alarms		
Param. 3: Trigger Type	x	x	Resp	All ***/** Alarms		
Param. 4: Trigger Type	х	x	Blank			

1.As a factory default, group 1 is activated in monitors with options H10, H30, or H40. In monitors with option H20, group 1 is deactivated.

Factory Defaults	Factory Defaults						
Item Name	Or Mo	oer. ode	MX800, MP60 - MP90				
	С	M					
Group 2	1						
Group Name	x		Neuro				
Group Type	x		Standard				
Activated	x	x	No				
Notification Type	x		None	None			
Episode Type	x	x	Average Trend (20min)				
Pre/Post Time	x	x	-10/+10 min				
Trigger Condition	x		At Least One Param.				
Parameters	x		HR(Pulse), ABP, CPP,	BIS			
Param. 1: Trigger Type	x	x	HR(Pulse)	All ***/** Alarms			
Param. 2: Trigger Type	x	x	ABP	All **HIGH Alarms			
				All **LOW Alarms			
Param. 3: Trigger Type	x	x	CPP ** Mean LOW				
Param. 4: Trigger Type	x	x	BIS				

Factory Defaults	Factory Defaults							
Item Name Oper. Mode			MX800, MP60 - MP90					
	С	M						
Group 3								
Group Name	x		Hemo					
Group Type	x		Standard					
Activated	x	x	No					
Notification Type	x		None	None				
Episode Type	x	x	Average Trend (20min)					
Pre/Post Time	x	x	-10/+10 min					
Trigger Condition	x		At Least One Para	At Least One Param.				
Parameters	x		HR(Pulse), SpO <sub>2</sub>	, ABP, CVP				
Param. 1: Trigger Type	x	x	HR(Pulse)	All ***/** Alarms				
Param. 2: Trigger Type	x	x	SpO <sub>2</sub>	All ***/** Alarms				
Param. 3: Trigger Type	x	x	ABP	All **HIGH Alarms				
	All ** LOW			All ** LOW Alarm				
Param. 4: Trigger Type	x	x	CVP	***/** All Mean				

Factory Defaults	Factory Defaults							
Item Name	Oper. Mode		MX800, MP60 - MP90					
	С	Μ						
Group 4								
Group Name	x		Ventil.					
Group Type	x		Standard	Standard				
Activated	x	x	No	No				
Notification Type	x		None	None				
Episode Type	x	x	HighResTrend (4min)	HighResTrend (4min)				
Pre/Post Time	x	x	-2/+2 min					
Trigger Condition	x		At Least One Param.					
Parameters	x		HR(Pulse), SpO <sub>2</sub> , Resp	p, etCO <sub>2</sub>				
Param. 1: Trigger Type	x	x	HR(Pulse) *** EXTR TACHY					
				*** EXTR BRADY				
Param. 2: Trigger Type	x	x	SpO <sub>2</sub> All ***/** Alarms					

Param. 3: Trigger Type	x	x	Resp	All ***/** Alarms	
Param. 4: Trigger Type	x	x	etCO <sub>2</sub>	All ***/** Alarms	

Factory Defaults	Factory Defaults						
Item Name	Oj Mo	per. ode	MX800, MP60 - MP90				
	С	M					
Group 5							
Group Name	x		Arrhy/ST				
Group Type	x		Standard				
Activated	x	x	No				
Notification Type	x		None				
Episode Type	x	x	RealtimeWaves (15se	ec)			
Pre/Post Time	x	x	-5/+10 sec				
Trigger Condition	x		At Least One Param.				
Parameters	x		HR(Pulse), PVC, All	ST Leads			
Param. 1: Trigger Type	x	x	HR(Pulse)	*** EXTR TACHY			
				*** EXTR BRADY			
Param. 2: Trigger Type	x	x	PVC	All ***/** Alarms			
Param. 3: Trigger Type	x	x	x All STLeads ** HIGH				
		** LOW					
Param. 4: Trigger Type	x	x					

Factory Defaults					
Item Name	Oper. Mode		MX800, MP5 - MP90		
	С	Μ			
Group 6					
Group Name			NER		
Group Type	x		NER		
Activated <sup>1</sup>	x	х	Yes		
Notification Type			None		
Episode Type	x	x	High Res.Trend (4 min)		
Pre/PostTime	x	x	-2/+2 min		
Trigger Condition			At Least One Param.		
Parameters			HR, SpO <sub>2</sub> , Resp		

Param. 1: Trigger Type	x	x	x HR	HR	*** EXTR BRADY	
Param. 2: Trigger Type	x	x	SpO <sub>2</sub>	*** DESAT		
Param. 3: Trigger Type	x	x	Resp	*** APNEA		
Param. 4: Trigger Type	x	x				

1.As a factory default, group 6 is activated in monitors with option H20. In monitors with option H10, H30, or H40, group 6 is deactivated.

### **Event Settings Configuration Implications**

Events are electronic records of episodes in the patients' condition. They can be used to drive alert notification to assist compliance to any protocol that is being used by the clinician.

**Group Name** This setting lets you change the name of each event group, except of the Neonatal Event Review (NER) group, which has fixed settings.

**Group Type** This setting lets you change the type of event group from **Standard** to **NER** and vice versa. Selecting **NER** as **Group Type** for an event group, automatically changes all settings for this group to the predefined NER group settings. Only one event group can be assigned as the NER group. If there is already an NER event group, changing the **Group Type** for another group to **NER**, changes the **Group Type** of the existing NER group to **Standard**.

Activated This setting defines whether an event group is currently active, that is it detects events according to its configuration. If the status is **Deactivated** event surveillance is effectively switched off. With Advanced Event Surveillance (AES, Option #C07) up to six event groups may be active at any given time. With Basic Event Surveillance (BES, Option #C06) or with Neonatal Event Review (NER, Option #C04) only one event group is available.

**Notification Type** This setting is available in Advanced Event Surveillance only. It defines the type of notification that is issued when an event is detected. For each event group, the appropriate notification can be selected depending on the severity of condition.

- Set **Notification Type** to **None** to receive no notification at all. Any captured event will still be stored and can be reviewed in the Event Episode or Event Review window.
- Set it to Screen Prompt to get a status message with a prompt tone.
- Set it to \* Alarm, \*\* Alarm, or \*\*\* Alarm to receive an alarm notification that will be independent from the alarm settings for each measurement. To prevent dual alarming, these options are only available if Trigger Condition is set to At Least Two Param. or higher. These event alarms are handled exactly like measurement alarms; they can be silenced and are also suspended when all alarms are suspended. You should only use alarm notification for events which are comparable in severity to standard measurement alarms to avoid potential confusion due to too many alarms.
- **\*\*** Alarm (PopUp), **\*\*\*** Alarm (PopUp): if you select **\*\*** Alarm (PopUp) or **\*\*\*** Alarm (PopUp), the Event Episode window will automatically open on the Main Screen in addition to the normal alarm notifications when an event is detected.

**Episode Type** This setting lets you define the level of detail captured in an event episode for up to four measurements. The higher the data resolution, the shorter the period that the monitor can store in its memory. The choices are:

- Realtime Wave (15sec) available in BES and AES (#C06, #C07)
- HighRes Trend (4min) available in AES (#C07) and NER (#C04)
- Average Trend (20min) available in BES and AES (#C06, #C07)

In addition to the wave or trend data, the following data is always stored with each event:

- Numeric vital signs for all (up to 1030) measurements monitored.
- Any alarm conditions active when the event episode was triggered.
- Annotations connected with the event.

**Pre/Post Time** When an event occurs, information for a predefined duration is stored. This is the event episode. It includes information from a defined period before the trigger, called the event **Pre-time**. The episode time after the event is called the event **Post-time**. If a further event occurs during the event post-time it changes a single event to a combined event (combi-event). Manually-triggered event episodes document patient information from the time leading up to the event trigger; they do not have a post-time. The following table lists the available choices for each Event Episode Type:

Event Episode Type	Pre-time	Post-time
Average Trend	2 minutes	18 minutes
20 minutes, five samples per minute	4 minutes	16 minutes
	6 minutes	14 minutes
	8 minutes	12 minutes
	10 minutes	10 minutes
	12 minutes	8 minutes
	14 minutes	6 minutes
	16 minutes	4 minutes
	18 minutes	2 minutes
HighRes Trend	1 minute	3 minutes
Four minutes, four samples per second.	2 minutes	2 minutes
	3 minutes	1 minute
Realtime Wave	5 seconds	10 seconds
15 seconds at 12.5 mm/s	10 seconds	5 seconds

**Parameters** Up to four measurement parameters (three with BES and NER) can be included in each event group. For each parameter you can define two trigger conditions (one in BES and NER). If at least one of these conditions is met this parameter counts towards the number of events that can start an event capture.

The following categories of trigger conditions are available:

Patient alarms: this means that an event is triggered when either a specific patient alarm, such as
 \*\*\*EXTREME TACHY, or all patient alarms of a set severity for a certain measurement occur. An
 example for this last type of condition would be All \*\*\* HR Alarms. No events of this kind are
 triggered if alarms are switched off. Changing alarm limits changes the event trigger definitions.

- User-defined limit violations: allow you to define event triggers that are independent of alarm limits. You must set a threshold value and a threshold time for the trigger. If you set the trigger threshold time to 10 seconds, the monitor triggers an event if the threshold is violated for more than 10 seconds. Example: "HR higher than 120 bpm for 10sec (and longer)"
- User-defined value deviations: If you set user-defined deviation triggers, you can define event triggers that are independent of specific limits and based instead on deviations from the current values. You must set a deviation and a period of time in which the deviation occurs. There are three types of deviation available: **ANY** deviation, **UP** deviation where only changes in a positive direction are detected and **DOWN** deviation where only changes in a negative direction are detected. The deviation can be defined either in relative terms as a percentage, for example 10%, or as an absolute value, such as 10 bpm. Examples:
  - etCO<sub>2</sub>: UP Deviation of 300% within 5 minutes.
  - RESP: ANY Deviation of 8 rpm within 5 minutes.
- On-measurement triggers: this means that an event is triggered when an aperiodic measurement (such as NBP) or a procedure (such as Cardiac Output) is finished.

Trigger Condition If more than one trigger is available for the measurements in the event group, the trigger condition may be At Least One Param., At Least Two Param., At Least Three Par. or All Four Parameter.

- If the trigger is **At Least One Param**., the monitor starts an event capture if a trigger occurs in any of this event group's measurements.
- If the trigger is **At Least Three Par.**, the monitor captures events when three or more trigger thresholds from this event group's measurements are violated.
- With Enhanced Condition you cannot only select a minimum number of triggers to trigger an event, but define which specific measurement triggers these must be. For example, At Least Two Param. will cause an event to be captured if a trigger occurs in any two of this event group's measurements with Enhanced Condition you can select for example that only when triggers are in HR and SpO<sub>2</sub> an event will be captured.

# **Configuring Event Annotations**

```
MX800 Unique Monitor Setting: Main Setup -> Event Surveill. -> Setup Events
MP5-90 -> Event Annotation
only
```

	Factory Defaults						
	Item Name Oper. Mode C M		per. ode M	MX800, MP5 - MP90			
	Annotations (Text / Group)		p)	Text	Group		
	Annotation 1	x		No Intervention	All Groups		
	Annotation 2	x		Mild Stimulation	All Groups		
	Annotation 3xAnnotation 4x			Moderate Stimulation	All Groups		
				Vigorous Stimulation	All Groups		
	Annotation 5	x		Awake	Standard		

Factory Defaults							
Item Name	Oper. Mode		MX800, MP5 - MP90				
	С	Μ					
Annotation 6	x		Sleeping	Standard			
Annotation 7	x		Gagging/Emesis	Standard			
Annotation 8	x		Feeding	Standard			
Annotation 9	x		Stressful Procedure	Standard			
Annotation 10	x		Skin Color: Pink	NER			
Annotation 11	x		Skin Color: Dusky	NER			
Annotation 12	x		Skin Color: Cyanotic	NER			
Annotation 13	х		Skin Color: Mottled	NER			
Annotation 14	x		Skin Color: Jaundice	NER			
Annotation 15	x		Annotation 15	No Group			
Annotation 16	x		Annotation 16	No Group			
Annotation 17	x		Annotation 17	No Group			
Annotation 18	x		Annotation 18	No Group			
Annotation 19	x		Annotation 19	No Group			
Annotation 20	x		Annotation 20	No Group			

When you configure additional annotations, you can choose whether they appear with one particular Event Group or with all Event Groups. **No Group** indicates that the annotation is not yet linked to appear with any Event Group.

# **Configuring SSC Sepsis Protocol**

# MX800 Unique Monitor Setting: Main Setup -> ProtocolWatch

MP5-90 only

Factory Defaults								
Item Name	Oper. Mode		MX800, MP5 - MP90					
	С	Μ						
CVP Threshold	x		not applicable, these setting are stored as monitor settings, see "Configuring					
CVP Thresh. Unit	x		ProtocolWatch" on page 109.					
Protocol	x	x						
StartUp Time	x		0 min					
Shift Duration	x		8 hours					
AutoScreenChange	x		Yes					
Standby Time	x		7 days					
Drotrecogin Alfa	x		Yes					
LowDose Steroids	x		Yes					

### **SSC Sepsis Protocol Configuration Implications**

The following settings are only available when **Protocol** is set to **SSC** Sepsis.

**StartUp Time** If the SSC Sepsis protocol is active, and the patient category is Adult, and the monitor detects a valid HR or Pulse for the duration of the configured **StartUp Time**, the monitor automatically enters the Severe Sepsis Screening phase. If **StartUp Time** is set to **0 min**, the screening will start between about 3 minutes after the monitor detects a valid Pulse or HR.

**Shift Duration** This setting lets you adjust the frequency of ProtocolWatch tasks that should be conducted once per shift to the units shift duration. Choices are **8** hrs or **12** hrs.

**AutoScreenChange** Set this to **Yes**, if you want the monitor to prompt you to change the active Screen to the Sepsis Screen when entering the Sepsis Resuscitation and Sepsis Management phase.

**Standby Time** After completion of the Sepsis Management phase, a sepsis standby phase begins which allows time for further patient stabilization and recovery. During this phase Severe Sepsis Screening is suspended. **Standby Time** lets you adjust the length of the standby phase between 1 and 7 days.

**Drotrecogin Alfa** Set this to **Yes** if you want the recommendation for Drotrecogin Alfa to appear during the SSC Sepsis Management phase.

**LowDose Steroids** Set this to **Yes** if you want the recommendation for Low Dose Steroids to appear during the SSC Sepsis Management phase.

### Configuring Guardian Early Warning Scoring

### MP5SC, Unique Monitor Setting

- **MP5** The goal of an early warning score is to help you recognize the early signs of deterioration in patients. Depending on the score calculated, an Action List with appropriate recommendations is displayed.
- #P05
  - only When Guardian Early Warning Scoring is delivered from the factory, there are two protocols implemented: the **EWS SPS** protocol and the **SpotCheck** protocol.

The **EWS SPS** protocol is developed for single parameter scoring and based on a protocol recommended by the Institute for Healthcare Improvement (IHI); (see: <u>http://www.ihi.org/IHI/Topics/CriticalCare/</u>IntensiveCare/Changes/IndividualChanges/EstablishCriteriaforActivatingtheRapidResponseTeam.htm).

The **SpotCheck** protocol is developed for monitors with English software only. It enables the monitor to be turned into a spot check monitor without early warning scoring functionality.

In addition, you can use these Guardian Early Warning Scoring protocols (or additionally developed customized protocols) to calculate a score based on the vital signs. Up to 3 different protocols can be configured. Out of the factory only one protocol is provided.

This functionality is highly configurable, to allow customization for the vital signs measured and the type of scoring used.

**WARNING** When using Guardian Early Warning Scoring, a printout of the scoring table and the Action Lists must be created. These printouts must be used to verify that the configuration of the scoring functionality matches the hospital's requirements.

Philips does **not** accept responsibility for any Guardian Early Warning Scoring protocol configuration created using the Support Tool. Before a Guardian Early Warning Scoring protocol is used on a patient monitor, a signed copy of it must be approved by a hospital representative.

- **WARNING** When you clone a configuration to a monitor, the associated Guardian Early Warning Scoring protocol is automatically cloned with the configuration. Therefore, before cloning a configuration to a monitor, you must always check
  - whether there is a Guardian Early Warning Scoring protocol in the configuration
  - whether this configuration is correct for the hospital unit you are working in
  - that you have a Guardian Early Warning Scoring protocol offline configuration report on file, signed by a hospital representative.

For detailed information on configuring Guardian Early Warning Scoring protocols, see the chapter "Using the EWS Configuration Editor" in the Support Tool Instructions for Use.

# **Configuring Recordings**

```
Unique Monitor Setting: Main Setup -> Recordings
```

Factory Defaults										
Item Name	Oper. Mode		MX800, MP20 - MP90	MP20 (M20/M21) MP5 (H10/20/40)	MP2/X2					
	С	Μ	MP5 (H30)	MP5T, MP5SC						
General										
Central Config	x	x	No							
ECG Gain	x	x	10 mm/mV							
Delayed Recording										
Recording Name	x		Recordng							
Recorder	x	x	Local		Central 2-Ch					
Channel 1	x	x	Primary Lead							
Channel 2	x	x	ABP							
Channel 3	x	x	Blank							
Channel 4 <sup>1</sup>	x	x	Blank							
Overlap	x	x	Off							
Speed	x	x	25 mm/s							
Delay Time	x		15 sec							
Run Time	x		20 sec							
Alarm Recording										
Recorder	x	x	Local		Central 2-Ch					
Channel 1	x	x	Primary Lead							
Channel 2	x	x	Alarm Par							
Channel 3	x	x	Blank							
Overlap	x	x	Off	Off						
Speed	x	x	25 mm/s							
Delay Time	x		15 sec							

Factory Defaults									
Item Name	Of	per.	MX800,	MP20 (M20/M21)	MP2/X2				
	Me	ode	MP20 - MP90	MP5 (H10/20/40)					
	С	Μ	MP5 (H30)	MP5T, MP5SC					
Run Time	x		20 sec						
Realtime A									
Recording Name	x		Recordng						
Recorder	x	x	Local		Central 2-Ch				
Channel 1	x	x	Primary Lead						
Channel 2	x	x	ABP	Blank	ABP				
Channel 3	x	x	Blank						
Channel 4 <sup>1</sup>	x	x	Blank						
Overlap	x	x	Off						
Speed	x	x	25 mm/s						
Run Time	x		Continuous						
Realtime B									
Recording Name	x		Recordng						
Recorder	x	x	Local		Central 2-Ch				
Channel 1	x	x	Primary Lead						
Channel 2	x	x	ABP						
Channel 3	x	x	Pleth						
Channel 4 <sup>1</sup>	x	x	Blank						
Overlap	x	x	Channel 2+3		Off				
Speed	x	x	25 mm/s						
Run Time	x		Continuous						
Realtime C <sup>2</sup>									
Recording Name	x		Recordng	not applicable, MP20/30, MP5, MP5T, M	P5SC, and MP2/X2				
Recorder	x	x	Local	do not support Realtime C recordings.					
Channel 1	x	x	Primary Lead						
Channel 2	x	x	ABP	BP					
Channel 3	x	x	Pleth	leth					
Channel 4 <sup>1</sup>	x	x							
Overlap	x	x	Channel 1+2+3						
Speed	x	x	25 mm/s						
Run Time	x		Continuous						

Factory Defaults								
Item Name	Oper. Mode		MX800, MP20 - MP90	MP20 (M20/M21) MP5 (H10/20/40)	MP2/X2			
	С	M	MP5 (H30)	MP5T, MP5SC				
HiResTrend <sup>3</sup>								
Recording Name	x		Recordng	ordng				
Recorder	x	x	Local	cal				
Channel 1	x	x	btbHR	bHR				
Channel 2	x	x	SpO2	)2				
Channel 3	x	x	Resp					
Overlap	x	x	Off					
Speed	x	x	2 cm/min	m/min				
Delay Time	x		6 min					
Run Time	x		Continuous					

1.Setting only available if a four-channel recorder is available and selected.

2.Realtime C recordings not available on MP2, MP5, and MP20/30 monitors.

3.HiRes Trend recordings not available on MP2 monitors.

For information on configuring Vital Signs Recordings, see see "Configuring Vital Signs Recording" on page 108.

### **Recordings Configuration Implications**

**ECG Gain** This defines how every recorded ECG wave, irrespective of template or recording type, will appear on the recorder strip. This does not affect the displayed ECG wave, or printed ECG reports. Set **ECG Gain** to **Auto** to use the same scale as the ECG wave on the monitor screen.

**Central Config** This setting defines for a central recording whether the layout of the recording (waves, speed, overlap, etc.) is defined by the bedside or the Information Center.

Select **No** to use the layout defined in the monitor, select **Yes** to use the layout defined in the Information Center.

When a telemetry device is paired with a bedside monitor, the ECG waveforms available at the Information Center are provided by the telemetry device. If the recorder is set to **Central**, and **Central Config** is set to **Yes**, the waveforms recorded will be the telemetry ECG waveforms, Pleth from telemetry if available and then any other waveforms from the bedside (except ECG). If the recorder is set to **Central**, and **Central Config** is set to **No**, the bedside monitor will send the request for the recording based on its configuration. If none of the waves are available at the Information Center, it will record the waves based on the layout defined in the Information Center. For example, if the requested recording is configured to be **Primary ECG** (bedside ECG) and **ABP** and there is no ABP waveform available, the recording will be the paired telemetry ECG waveforms. **Recorder** choose which recorder the recording will print to. Choices are **Local**, **Central 2-Ch.**, **Central 4-Ch.** 

If you configure a **Local** recorder, and no local recorder is available, the monitor will automatically send the recording to a central recorder, if available.

For alarm recordings the additional choice **Printer** is available. If you select **Printer**, all other settings disappear and the alarm recording will be printed as a realtime report, following the settings configured for Realtime Reports, see "Configuring Reports" on page 116. You can use this choice if you need to generate Alarm Recordings on monitors that have no local recorder, such as the MP2 or X2, especially in circumstances when the monitor has no connection to a central recorder, for example during transport.

**Channel 1 - 4** defines which waveform to record in each channel. **Channel 4** will only be available when the **Central 4-Ch** recorder has been selected. If the wave assigned to a recording channel in a particular template is not available when a recording is triggered, the channel is left blank on the recording strip. The pop-up list of available (currently monitored) waves differs according to the recording type:

- Realtime, delayed and alarm recordings: the list shows all the currently available waves.
- High-resolution recordings: the list shows all the available high-resolution waves

In addition to the currently available waves, you can choose from several other settings which make an automatic allocation when the recording starts:

- Alarm Par will always record the measurement in alarm in the chosen recorder channel
- **Primary Lead** will always record the current primary lead in the chosen recorder channel
- Secondary Lead will always record the current secondary lead in the chosen recorder channel
- Agent will always record the currently selected anesthetic agent.

For high-resolution recordings only the **Agent** setting is available.

**Overlap** defines whether the recorded waveforms will be printed overlapping or beside each other.

**Speed** lets you define the recording print speed.

**Delay Time** Some recordings start documenting on the recorder strip from a pre-set time before the recording is started. This interval is called the "Delay Time" and can be set to 10 or 15 seconds for Delayed and Alarm recordings and to 1 - 6 minutes for HiResTrnd recordings.

**Runtime** defines how long this type of recording is configured to run. Continuous recordings run indefinitely.

# **Configuring Timers**

```
MX800 Unique Monitor Setting: Main Setup -> Timers -> Setup <Timer Label>
MP5-90
only Factory Defaults
```

Fac	ctory Defaults			
#	Item Name		per. ode	MX800,
		С	Μ	
1	Label	x	х	Timer A
	Run Time	x	x	1 min
	Туре	x		Basic
	Direction	x	х	Up
	Notification	x		No Sound
	Auto Window	x		No
	Color	x		White
	Timer Volume	х	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.
2	Label	x	x	Timer B
	Run Time	x	x	5 min
	Туре	x		Basic
	Direction	x	x	Down
	Notification	x		No Sound
	Auto Window	x		No
	Color	x		White
	Timer Volume	х	х	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.
3	Label	x	х	Timer C
	Run Time	x	x	10 min
	Туре	x		Basic
	Direction	x	x	Up
	Notification	x		No Sound
	Auto Window	x		No
	Color	x		White
	Timer Volume	x	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.
4	Label	x	x	Timer D
	Run Time	x	х	15 min
	Туре	x		Basic
	Direction	x	x	Down
	Notification	x		No Sound
	Auto Window	x		No
	Color	х		White
	Timer Volume	x	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.

Fact	Factory Defaults						
#	Item Name	OF	oer.	MX800,			
		Mo	ode	MP5 - MP90			
		С	М				
5	Label	x	x	Bypass			
	Run Time	x	x	30 min			
	Туре	x		Basic			
	Direction	x	x	Down			
	Notification	x		No Sound			
	Auto Window	x		No			
	Color	x		White			
	Timer Volume	x	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.			
6	Label	x	x	Clamp			
	Run Time	x	x	10 min			
	Туре	x		Basic			
	Direction	x	x	Down			
	Notification	x		No Sound			
	Auto Window	x		No			
	Color	x		White			
	Timer Volume	x	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.			
7	Label	x	x	Code			
	Туре	x		No Limit			
	Color	x		White			
	Timer Volume	x	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.			
8	Label	x	x	Case			
	Туре	x		No Limit			
	Color	x		White			
	Timer Volume	x	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.			
9	Label	x	x	Docu			
	Run Time	x	x	60 min			
	Туре	x		Cyclic			
	Direction	x	x	Up			
	Notification	x		No Sound			
	Auto Window	x		No			
	Color	x		White			
	Timer Volume	x	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.			
10	Label	x	x	Tournq (Tourniquet)			
	Run Time	x	x	2 hours			
	Туре	x		Basic			

Fact	Factory Defaults						
#	Item Name	Of	oer.	MX800,			
		Mo	ode	MP5 - MP90			
		С	Μ				
	Direction	x	x	Down			
	Notification	x		No Sound			
	Auto Window	x		No			
	Color	x		White			
	Timer Volume	x	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.			
11	Label	x	х	Infus			
	Run Time	x	x	30 min			
	Туре	x		Basic			
	Direction	x	х	Down			
	Notification	x		No Sound			
	Auto Window	x		No			
	Color	x		White			
	Timer Volume	x	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.			
12	Label	x	x	PreOxy (Preoxygenation)			
	Run Time	x	x	5 min			
	Туре	x		Basic			
	Direction	x	x	Down			
	Notification	x		No Sound			
	Auto Window	x		No			
	Color	x		White			
	Timer Volume	x	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.			
13	Label	x	x	NST (Non-Stress Test)			
	Run Time	x	x	20 min			
	Туре	x		Basic			
	Direction	x	х	Up			
	Notification	x		Sound			
	Auto Window	x		No			
	Color	x		Blue			
	Timer Volume	x	x	not applicable, this setting is stored as a monitor setting, see "Configuring User Interface Settings" on page 126.			

### **Timer Configuration Implications**

**Timer Label** When you assign a label to a timer, the monitor automatically applies the settings preconfigured for this label to the timer. You can then change these settings. The timer label itself cannot be customized.

The IntelliVue MX800, MP60/70/80/90 can run a maximum of four timers at the same time (MP40/50: three timers, MP5 and 20/30: two timers). The selection and priority of the timers can be configured in the Timers window. For details, see "Configuring Timer Selection and Order" on page 179.

**Run Time** The run time can be set between 1 minute and 96 hours. **No Limit** timers have no run time. This setting can also be changed in monitoring mode.

**Type** This setting defines the timer type. It can also be changed in monitoring mode. The following timer types are available:

- A **Basic** timer has a single, defined run time. The progress is shown in the progress bar.
- An **Enhanced** timer is like a **Basic** timer, but the progress bar shows progress beyond the end of the run time.
- A Cyclic timer is like a **Basic** timer but restarts automatically when the run time is expired.
- A No Limit timer has no run time or progress bar and shows the time elapsed since the timer was started.

**Direction** Timers can count up or down, showing elapsed time or remaining time. No Limit timers automatically count up. This setting can be also changed in monitoring mode.

**Notification** When any timer expires (except a No Limit timer), its color changes to red and a message appears in the monitor status line on the Main Screen. The setting **Notification** lets you configure an alarm or a single tone as additional means of notification:

- Select **Alarm** to receive an INOP alarm when the timer expires.
- Select **Sound** to hear a single tone when the timer expires.
- Select **No Sound** for no additional notification.

Auto Window This setting lets you configure whether a window automatically pops up when the timer expires. Choice are **Yes** or **No**.

**Color** lets you configure the color for a timer. This setting only has an effect on timers that are displayed on the Main Screen (i.e. timers that are embedded on a Screen). The timers displayed in the Timers window are always shown in gray color.

**Timer Volume** This setting is stored as a normal Monitor setting, see "Configuring User Interface Settings" on page 126.

### **Configuring Timer Selection and Order**

The selection and order of timers as they appear in the Timers menu are stored as Global settings, see "Configuring Timer Selection and Order" on page 179.

# **Configuring User Interface Settings - Keys**

### **Global SmartKeys**

Unique Monitor Setting: Main Setup -> User Interface

Factory Defaults							
Item Name	Ope r. Mo de C M	MX800, MP20 - MP90	MP20 (M20/M21) MP5 MP5T, MP5SC	MP5SC MP5#P05	MP2/X2		
Global	x	Start/Stop (NBP)	Start/Stop (NBP)	Start/Stop (NBP)	Start/Stop (NBP)		
SmartKeys		Stop All (NBP)	Repeat Time (NBP)	Stop All (NBP)	Measmt. Select.		
		Repeat Time (NBP)	Delayed Record	Repeat Time (NBP)	Admit/Dischrge		
		Zero Press	Vitals Trend	End Case	AlarmLimits		
		RT Record	Default Profile	Profiles	Vitals Trend		
		Delayed Record	End Case	<none></none>	Profiles		
		Standby	<none></none>	<none></none>	Alarm Volume		
		Wedge	<none></none>	<none></none>	QRS Volume		
		C.O. / CCO	<none></none>	<none></none>	Monitor Standby		
		Calcs	<none></none>	<none></none>	Stop All (NBP)		
		VeniPuncture	<none></none>	<none></none>	NBP STAT		
		Adjust Size	<none></none>	<none></none>	VeniPuncture (NBP)		
		Annot. Arrhy	<none></none>	<none></none>	Repeat Time (NBP)		
		RelearnArrhy	<none></none>	<none></none>	Zero Press		
		Vitals Trend	<none></none>	<none></none>	Adjust Size		
		Graph Trend	<none></none>	<none></none>	Brightness		
		Event Summary	<none></none>	<none></none>	Graph Trend		
		Remote Applics	<none></none>	<none></none>	Main Setup		
		External Device	<none></none>	<none></none>	<none></none>		
		PrintReports	<none></none>	<none></none>	<none></none>		
		End Case	<none></none>	<none></none>	<none></none>		
		AlarmLimits	<none></none>	<none></none>	<none></none>		
		Alarm Volume	<none></none>	<none></none>	<none></none>		
		QRS Volume	<none></none>	<none></none>	<none></none>		
		Brightness	<none></none>	<none></none>	<none></none>		

# **Global SmartKeys Configuration Implications**

**Global SmartKeys.** This lets you define the selection and sequence of the global SmartKeys. Global SmartKeys become effective (visible) when you activate a Screen that has no SmartKeys defined on it. The number of SmartKeys visible at a time depends on the monitor's display resolution and the resolution of the Screen:

SVGA: 6 XGA: 7 SXGA: 9 WXGA: 9 WXGA+: 10 WSXGA: 11

### Changing the Selection and Sequence of Global SmartKeys

To change the selection of the Global SmartKeys,

- 1 Select Main Setup -> User Interface -> Global SmartKeys.
- 2 From the pop-up key line, select **Add** to open the **Choices** menu that contains all available SmartKeys.
- 3 From the **Choices** menu, select the desired SmartKey. This adds the new key to the bottom of the list of configured SmartKeys (on the left).

To delete a SmartKey from the list of configured SmartKeys,

• select it in the list, then select the pop-up key **Delete**.

To move a SmartKey to a different position,

• use the **Sort Up** and **Sort Down** pop-up keys.

### **Function Keys**

MX800 Unique Monitor Setting: Main Setup -> User Interface

MP20-90

			-	
$\sim$		•		ъ.
U				Y
_	-	-		/

Factory Defaults	Factory Defaults							
Item Name	Oper. Mode		MX800, MP20 - MP90					
	С	Μ						
Oper. 1 Fn. Keys	x		F1	<none></none>				
			F2	<none></none>				
			F3	<none></none>				
			F4	<none></none>				
			F5	<none></none>				
			F6	<none></none>				
			F7	<none></none>				
			F8	<none></none>				
			F9	<none></none>				
			F10	<none></none>				
			F11	<none></none>				
			F12	<none></none>				

Factory Defaults	Factory Defaults						
Item Name	Oper. Mode		MX800, MP20 - MP90				
	С	M					
Oper. 2 Fn. Keys <sup>1</sup>	x		F1	<none></none>			
			F2	<none></none>			
			F3	<none></none>			
			F4	<none></none>			
			F5	<none></none>			
				F6	<none></none>		
			F7	<none></none>			
			F8	<none></none>			
			F9	<none></none>			
			F10	<none></none>			
			F11	<none></none>			
			F12	<none></none>			

1.Setting only available on MX800 or MP90 with more than one CPU.

### **Function Key Configuration Implications**

Be aware that after upgrading a monitor from any software revision prior to E.0, no functions will be assigned to the function keys.

**Oper. 1 Fn. Keys.** This setting lets you assign specific SmartKey functions to the 5 function keys (F1 - F5) on a connected Remote SpeedPoint and the 12 function keys (F1 - F12) on an attached PS/2 keyboard.

**Oper. 2 Fn Keys.** This setting is only available for MX800 with Independent Display Interface, or MP90 monitors with more than one CPU board. If you have configured the MX800 with Intependent Display Interface or MP90 for two operators, this setting lets you assign specific SmartKey functions to the 5 function keys (F1 - F5) on the Remote SpeedPoint assigned to **Operator 2**, and the 12 function keys (F1 - F12) on a PS/2 keyboard assigned to **Operator 2**.

### **Remote Control Keys**

MX800	Unique	Monitor	Setting:	Main	Setup	->	User	Interface
MP20-90								

only

Factory Defaults								
Item Name		per. ode	MX800, MP20 - MP90					
	С	M	Page 1	Page 2				
Oper. 1 RemCtrl	x		Strt/Stp NBP	Quick Admit				
			Stop All NBP	End Case				
			Repeat NBP	Standby				
			Auto Size	VitalsTrend				
			Capture 12 Lead	Calcs				
			ST Map	Lab Results				
			Zero Press	Start C.0.				
			Freeze Waves	Wedge				
			DelaydRecord	RT Record				
Oper. 2 RemCtr <sup>1</sup>	x		Strt/Stp NBP	Quick Admit				
			Stop All NBP	End Case				
			Repeat NBP	Standby				
			Auto Size	VitalsTrend				
			Capture 12 Lead	Calcs				
			ST Map	Lab Results				
			Zero Press	Start C.0.				
			Freeze Waves	Wedge				
			DelaydRecord	RT Record				

1.Setting only available on MX800 or MP90 with more than one CPU.

### **Remote Control Key Configuration Implications**

These setting let you configure the SmartKeys that appear when the SmartKeys hardkey on the Remote Control is selected for Operator 1 and Operator 2.

**Oper. 1 RemCtrl.** This setting lets you configure the SmartKeys that appear when the SmartKeys hardkey on the Remote Control is selected for Operator 1.

**Oper. 2 Fn Keys.** This setting is only available for MX800 with Independant Display Interface, or MP90 monitors with more than one CPU board. If you have configured the MX800 or MP90 for two operators, this setting lets you configure the SmartKeys that appear when the SmartKeys hardkey on the Remote Control (assigned to Operator 2) is selected for Operator 2.

# **Configuring CSA Buffers**

```
MX800 Unique Monitor Setting: Main Setup -> Measurements -> EEG
MP40-90
```

only

Factory Defaults											
Item Name	Oper. Mode		MX800, MP40 - MP90								
	С	Μ									
Buffer A	x		2 sec								
Buffer B	x		30 sec								
Buffer C	x		120 sec								

### **CSA Buffer Configuration Implications**

These CSA buffer settings apply for CSAs viewed on screen and for CSA reports.

**Buffer A / Buffer B / Buffer C** A buffer defines the interval between the spectral lines displayed in the CSA. The smaller the interval, the more often the CSA is updated, and the shorter the time span covered by the CSA display. **Buffer A**, **Buffer B**, and **Buffer C** give you three preconfigured choices which are then available for configuration of the CSA window and CSA reports.

# **Configuring the Drug Calculator**

### Unique Monitor Setting

Configuration of the drug calculator cannot be done in the monitor's configuration mode, it can only be done with the Support Tool. When the Drug Calculator is delivered from the factory, the only drug in the Drug Calculator drug list is the generic drug "Any Drug".

Philips does **not** accept responsibility for any drug configuration created using the Support Tool. Before the drug list is used on a patient monitor, a signed copy of it must be approved by a hospital representative.

Up to 75 drugs (including the generic drug **ANY DRUG**) can be configured for all three patient categories. Configuration includes

- Amount and Volume
- Dose
- Rate
- Units
- · Minimum/maximum ranges and start values
- Titration Table settings, such as Dose and Rate increments
- Whether the Rule of 6 may be used weight-based drugs in the neonatal and pediatric patient category.
- **WARNING** When you clone a configuration to a monitor, the associated drug list is automatically cloned with the configuration. Therefore, before cloning a configuration to a monitor, you must always check
  - whether there is a drug list in the configuration
  - whether this configuration is correct for the hospital unit you are working in

• that you have a Drug Calculator Offline Configuration Report on file, signed by a hospital representative, with the same CRC number as the drug list in the configuration.

For detailed information on configuring the drug calculator, see the chapter "Using the Drug Calculator Configuration Editor" in the Support Tool Instructions for Use.

# **Global Settings**

This section lists all global settings. Just like unique monitor settings (see "Understanding Monitor Settings" on page 95), global settings are set once per monitor and are independent of the Profiles and Settings Blocks. The difference is that any changes you may configure are automatically stored, there is no need to save them.

Read any information on Configuration Implications at the end of the sections before you make any configuration changes.

# **Configuring General Global Settings**

```
Global Setting: Main Setup -> Global Settings
```

Factory Defaults									
Item Name	Oper. Mode		MX800, MP20 - MP90	MX800, MP20 -	MP5 (H30)	MP5 (H10/20/40)	MP5T, MP5SC,	MP2 / X2	
	С	M	(H10/20/40)	MP90(H30)			MP5#P05		
Default Profile	x		The factory defaul Configuration Ove	t Profile depends erview starting see	on the monit e on page 222	or model and H	I option. See	the section	
Altitude (m)	x	1	0						
Line Frequency <sup>1</sup>	x		60Hz						
QRS Type	x		QRS Tone						
ECG Cable Color <sup>1</sup>	x		AAMI						
Asystole Detect.	x		Standard						
Pat. Sel. Default	x		Cont Monitor	Ask User	not applical	ble, settings are	not available	for MP2/X2	
MMS Sett. Upload	x		No	Yes	and MP5.				
MMS Trend Upload	x		No	Yes					
MMS PW Sync	x		No	Yes					
AskUser Reminder	x		Off						
Height Unit <sup>1</sup>	x		in						
Weight Unit <sup>1</sup>	x		lb	kg	kg	lb			
Automat. Default	x		Yes						
Auto Discharge	x		See "Configuring A	Auto Discharge So	ettings" on pa	ige 174			
Ask For New Pat	x		See "Configuring A	Ask for New Patie	ent Settings" o	on page 175			
Demograph. Fields			See "Configuring l	Demographic Fiel	lds Settings" o	on page 176			
Quick Admit			See "Configuring (	Quick Admit Sett	ings" on page	e 177			
Tele Discharge <sup>2</sup>	x		not applicable, sett available for MX80	ting is not 00, MP20-90	Off OnDiscon Off nect				
TransportProfile	x		not applicable, this available for MX80	s setting is not 00, MP20-90	As Is				
Remote Controls	x		Enabled						
Silence Key	x		Checkmark (MX8 only)	00, MP60-90	not applical	ble			
Arrhy Text	x		* Alarm						
Sensor Disconnct	x		No Auto Off				Auto Off <sup>3</sup>	No Auto Off	

Factory Defaults											
Item Name	Oper. Mode		MX800, MP20 - MP90	MX800, MP20 -	MP5 (H30)	MP5 (H10/20/40)	MP5T, MP5SC,	MP2 / X2			
	С	Μ	(H10/20/40)	MP90(H30)			MIP5#P05				
ConfirmAlarmsOff	x		No								
Power Loss Sound	x		not applicable, settin available for MX800	ng is not , MP2-90	Enabled		not applicable				
Label Set	x		Restricted					·			
LAN Data Export	x		All								
TeleUnassign <sup>4</sup>	x		not applicable, settin available for MX800	ig is not , MP20-90	1 min						
TAAP <sup>2.</sup>	x		not applicable, settin available for MX800	ig is not , MP20-90	Enabled			MP2: Enabled			
Domoto Dioplay			Saa "Canfiguring Da	moto Display S	 attings" on n	179		A2. Disabled			
Remote Display	x		See Configuring Re	inote Display Se	ettings on pa	ige 1/0					
Setup Internal PC	x		MX800 only; See "C	Configuring Ren	note Display S	Settings" on paş	ge 178				

1.For new monitors shipped from the factory, the defaults for these settings are set for the country to which the monitor is shipped, see "Configuring Country-Specific Settings" on page 186.

2.Setting only available for monitors that have a telemetry device (TAAP) connector or a short range radio interface installed. 3.MP5SC only

4.Setting only available for monitors that have a short range radio interface installed.

### **General Global Settings Configuration Implications**

**Default Profile** To set the default Profile, select Profiles in the Monitor Info Line, select Profile in the Profiles window, then select the Profile you want to set as default Profile from the pop-up list. Select the **Set Default** softkey. This change takes effect immediately and you do not need to save it. Use the table in the section "Profile Settings" on page 32 to document the default Profile.

**Altitude** Some measurements use the configured altitude setting to derive a typical ambient pressure which is used in the calculation of partial pressure values. To ensure correct measurement values, the altitude setting must be correctly set.

**Line Frequency** Use the **Line Frequency** setting to configure the correct line frequency for the AC Power, either 50 Hz or 60 Hz. If the Line Frequency is incorrectly set, this may affect the ECG signal quality.

**QRS Type** Select **QRS Tone** or **QRS Tick**. If **Tone Modulation** is set to **Yes**, the **QRS Type** automatically switches to **QRS Tone**. For both types, the frequency and rhythm information is derived from either the ECG or Pulse, depending on which is currently selected as the alarm source.

**ECG Cable Color** This setting determines the labels the monitor uses when it refers to individual ECG electrodes, such as in a LEAD Off INOP message that will be issued when an individual ECG electrode has fallen off. If **ECG Cable Color** is set to **AAMI**, the monitor uses the labels **RA**, **LA**, **LL**, **RL**, **V**, and **V1** through **V6**. If set to **IEC**, it uses **RA**, **LA**, **LL**, **RL**, and **C1** through **C6**.

**Asystole Detect.** Set **Asystole Detect.** to **Enhanced** to improve alarming on asystole under certain conditions. In enhanced mode, an asystole alarm will be suppressed for up to nine seconds (= Asystole Threshold + 5 sec.) if a valid beat-to-beat Pulse is detected from an active pulsatile invasive Pressure measurement.

**Pat.Sel.Default** This setting defines how the monitor behaves when there is a patient identification mismatch between the MMS and the monitor. If you set this to **Cont Monitor** or **Continue MMS**, the monitor resolves the mismatch automatically. To require user confirmation before the mismatch is resolved, set this to **Ask User**. For more detail, please refer to the monitor's Instructions for Use.

**AskUser Reminder** This setting lets you specify a time after which the clinician will be reminded of an unresolved patient identification mismatch. If the user ignores a patient identification mismatch by closing the Patient Selection window, the monitor will automatically pop up the Patient Selection window on the Main Screen after the configured time (**5min**, **10min**, **15min**, or **30min**). To disable this behavior, set **AskUser Reminder** to **Off**.

**MMS** Sett.Upload If set to Yes, the active settings from the MMS measurements will be uploaded to the monitor when you connect an MMS to a monitor and one of the following conditions applies:

- the patient in the MMS and the patient in the monitor are the same, i.e. no patient identification mismatch occurs.
- the patient in the MMS and the patient in the monitor are different, and **Pat.Sel.Default** is configured to **Continue MMS**.
- the patient in the MMS and the patient in the monitor are different, and **Pat.Sel.Default** is configured to **Ask User**, and the clinician resolves the patient identification mismatch by selecting **Same Patient** or **Cont MMS**.

Note: if **Pat.Sel.Default** is set to **Cont Monitor**, **MMS Sett.Upload** is automatically set to **No** and cannot be changed.

**MMS Trend Upload** If set to **Yes**, the trend data from the MMS measurements will be uploaded to the monitor when you connect an MMS to a monitor and one of the following conditions applies:

- the patient in the MMS and the patient in the monitor are the same, i.e. no patient identification mismatch occurs.
- the patient in the MMS and the patient in the monitor are different, and **Pat.Sel.Default** is configured to **Continue MMS**.
- the patient in the MMS and the patient in the monitor are different, and **Pat.Sel.Default** is configured to **Ask User**, and the clinician resolves the patient identification mismatch by selecting **Same Patient** or **Cont MMS**.

Note: iff **Pat.Sel.Default** is set to **Cont Monitor**, **MMS Trend Upload** is automatically set to **No** and cannot be changed.

**MMS PW Sync** If set to **Yes**, the ProtocolWatch information stored in the MMS (PW data, PW state, PW logs and active protocol) will be uploaded to the monitor when you connect an MMS to a monitor and one of the following conditions applies:

• the patient in the MMS and the patient in the monitor are the same, i.e. no patient identification mismatch occurs.

- the patient in the MMS and the patient in the monitor are different, and **Pat.Sel.Default** is configured to **Continue MMS**.
- the patient in the MMS and the patient in the monitor are different, and **Pat.Sel.Default** is configured to **Ask User**, and the clinician resolves the patient identification mismatch by selecting **Same Patient** or **Cont MMS**.

Note: if **Pat.Sel.Default** is set to **Cont Monitor**, **MMS PW Sync** is automatically set to **No** and cannot be changed.

**NOTE** It is not possible to transfer SSC Sepsis Protocol data from a monitor with release F.0 software to another monitor with release G.0 software (or higher) and vice versa.

**Tele Discharge** This setting is only available in monitors with a telemetry device (TAAP) connector or a short range radio interface. It determines the automatic discharge behavior of the monitor **only** when it is used in a mode where it:

- has no connection to a host monitor (companion mode),
- has no connection to an Information Center, and
- a telemetry transceiver is directly connected via cable or short range radio link to the monitor.

The available configuration choices are:

- OnDisconnect The monitor automatically discharges the patient from the monitor when the telemetry transceiver is disconnected or unassigned from the monitor. Be aware that if you then measure NBP or Pred. Temp with the monitor before you connect a new transceiver, only the measurement readings with the latest timestamp will be uploaded to the Information Center when you connect the new transceiver.
- OnDevChange The monitor automatically discharges the patient from the monitor when a different transceiver is connected or assigned to the monitor. The transceivers are distinguished by their telemetry labels. If you connect the transceiver to the monitor via a short range radio link, assigning a different transceiver automatically unassigns the previous transceiver.

With **Tele Discharge** configured to **OnDevChange**, be aware of the following: if you want to measure NBP or Pred. Temp for a patient and want to upload this data via the transceiver to the Information Center, always connect the transceiver to the monitor **before** you make the measurements, otherwise the measurement data will be erased by the discharge when you connect the new transceiver.

Off This setting is not recommended if you want to use the monitor for spot-checking. With Tele Discharge set to Off, the monitor does not perform an automatic discharge.
 If you disconnect a transceiver and then measure NBP or Pred. Temp with the monitor, the latest measurement readings will be uploaded to the Information Center when you connect a new transceiver.

**Height Unit/Weight Unit** define the unit used when entering the height / weight of the patient. Choices are **in** or **cm** for height and **lb** or **kg** for weight. Be aware that these settings can be overwritten by the Region settings applied during an Upgrade or Cloning procedure with the IntelliVue Support Tool.

#### Automat. Default

 If Automat. Default is set to Yes, and the monitor is switched off for more than one minute, the default Profile is reloaded in the monitor. Any unstored changes made to the Settings Blocks and Profiles are lost. If Automat. Default is set to No, and the monitor is switched off for more than one minute, the active settings from the most recent session are retained. Automatic Default does not affect the monitor behavior when you discharge a patient. After discharge, the default Profile is always restored.

If the monitor is switched off and then on again in less than one minute, all active settings are retained, irrespective of the Automat. Default setting.

- **TransportProfile** (MP5, X2 only) This setting is only available on monitors that can be connected to a host monitor and work in companion mode. It defines which settings become active in the monitor when the monitor is disconnected from the host monitor, for example to be used in a transport situation.
  - If set to **As Is**, the active settings from the host monitor are used, no user interaction is required.
  - If set to Def. Profile, settings are reset to the default profile defined in the monitor. The user needs to confirm this action.
  - If set to Ask User, the monitor will prompt the user to select a profile from the list of configured profiles.

**Remote Controls** Some functions of the IntelliVue bedside monitor, such as silencing alarms, Starting/Stopping NBP measurements, arrhythmia settings, and HR alarm limits can be remotely controlled from an Information Center. For a complete list of functions that can be remotely controlled, please refer to your Information Center Instructions for Use. Set **Remote Controls** to **Disabled** if you do not want to allow users to control these functions from the Information Center.

For remote controls to work, they must be **Enabled** at the monitor **and** at the Information Center. If you disable them at the bedside monitor, the user at the Information Center may not be notified of this change. The controls at the Information Center may appear to work, but they will not change anything at the monitor.

**Silence Key** This setting is applicable for the MX800, MP60/MP70/MP90 only. It lets you change the symbol shown on the Silence SmartKey. The Silence hardkey on early versions of the IntelliVue patient monitor and on the Remote SpeedPoint is labelled with a loudspeaker. If your equipment is labelled with the loudspeaker, you might want to set this to "Loudspeaker".

**Arrhy Text** This setting defines whether short arrhythmia alarm messages are displayed as one star (\*) or two star (\*\*) alarms. If you are using an IntelliVue Information Center you might want to set this to one star (\*) for consistency.

Sensor Disconnct The default of this setting is No Auto Off.

If you set **Sensor Disconnct** to **Auto Off**, and you **Confirm** the settings change, parameters are switched off automatically during main alarms off state or individual alarms off state when you disconnect the transducer. In Companion Mode, your host monitor's setting determines the **Sensor Disconnct** setting for the companion.

If this setting is configured to **No Auto Off** "no sensor" INOPs are shown even when alarms are Off or Paused. In some cases no unplugged INOPs are generated at all:

- Parameters without physiological alarms (e.g. Delta Temp, EEG)
- in Standby Mode.

If this setting is configured to **Auto Off** no unplugged INOPs are generated when main alarms are Off or Paused (or yellow off/yellow paused).

#### ConfirmAlarmsOff

This setting determines whether pausing alarms or switching alarms off has to be confirmed by the user before it becomes effective. If **ConfirmAlarmsOff** is configured to **Yes**, a pop-up key line will appear asking to confirm that alarms should be paused (or switched off).



**Power Loss Sound** (MP5 only) Lets you defines whether the power loss sound in the MP5 is **Enabled** or **Disabled**. If **Enabled**, a sound will be generated whenever the main power is lost or the power cord is disconnected while the monitor is running.

Label Set The Full label set provides extra labels for Pressure and Temp.

- The **Restricted** label set offers the following labels:
  - Pressure: P, ABP, ART, Ao, PAP, CVP, RAP, LAP, ICP, UAP, UVP
  - Temp: Temp, Trect, Tcore, Tskin, Tesoph, Tnaso, Tart, Tven
- The **Full** label set offers the following additional labels:
  - Pressure: FAP, BAP, IC1, IC2, P1, P2, P3, P4
  - Temp: Tvesic, Ttymp, Tcereb, Tamb, T1, T2, T3, T4

Note: If you connect an MMS or FMS from a monitor using the **Full** label set to an IntelliVue monitor using a **Restricted** label set or an M3/M4 monitor, any additional labels switch to labels available in the target monitor. This may cause a label conflict with other monitored measurements. If you connect a monitor using the **Full** label set to an Information Center with certain software revisions, this may affect the availability of measurement information from the additional labels on the Information Center. See the Information Center documentation for information on label set compatibility.

**LAN Data Export** If the network (LAN) interface is not used for a connection to an Information Center, it can be used for MIB data export. If the monitor is connected to an Information Center, the MIB data export is automatically disabled for the LAN interface (the serial interface can still be used). The setting **LAN Data Export** lets you configure how much of the MIB data export information is sent via the LAN interface:

- All: full functionality, all available MIB data export information is sent.
- Anonymous: restricted functionality, no patient demographics information is included.
- Off: MIB data export is disabled for the LAN interface.

**TAAP** This setting is only available in monitors that have either a telemetry device (TAAP) connector or a short range radio interface installed. It determines whether the monitor supports connecting a telemetry device directly with a cable (TAAP connection), or assigning a telemetry device to the monitor via a direct short range radio link (wireless TAAP connection).

Set **TAAP** to **Enabled** if you want the monitor to support a TAAP or WTAAP connection.

Set **TAAP** to **Disabled**, if you want to disable the monitors's capability to support a TAAP/WTAAP connection. **TAAP** must be configured to **Disabled**, if you want to use the monitor as a companion to a host monitor (MX800, MP20-90).

For more detailed information on configuring the IntelliVue monitor for use in a telemetry environment, refer to the section "Configuring Auto Discharge Settings" on page 174.

**TeleUnassign** This setting is only available in monitors that have a short range radio interface installed. It determines whether the monitor will automatically break the assignment to a telemetry device connected via a short range radio connection under certain circumstances.

- If configured to 1 min, the monitor will automatically unassign a telemetry device from the monitor when the monitor
  - is switched off for longer than 1 minute, or
  - is placed in Standby mode for longer than 1 minute while having no connection to the IntelliVue Information Center and the telemetry device.
- If configured to **Never**, the monitor will not automatically break the assignment.

For general information about the configuration of the IntelliVue Information Center and Telemetry Devices refer to their Configuration Guides.

For specific information about the configuration for different use models refer to:

- Telemetry Use Models (page 297)
- Cableless (CL Pod) Measurements Use Models (page 307).

# **Configuring Auto Discharge Settings**

Global Setting: Main Setup -> Global Settings -> Auto Discharge

Factory Defaults									
Item Name	O <sub>I</sub> Ma	per. ode M	MX800, MP2 - MP90 MP5T, MP5SC X2						
Power Off	x		Never						
Standby	x		Never						
No Basic Vitals	x		Never						

### Auto Discharge Configuration Implications

**Power Off** can be configured to a specific time (**1min**, **10min**, **30min**, **1h**, **3h**, or **8h**) or to **Never**. If the monitor is switched on, after being switched off for longer than the specified time, it will automatically discharge the current patient and begin monitoring a new patient

**Standby** can be configured to a specific time (**1min**, **10min**, **30min**, **1h**, **3h**, or **8h**) or to **Never**. If monitoring is resumed, after the monitor was in Standby for longer than the specified time, it will automatically discharge the current patient and begin monitoring a new patient

**No Basic Vitals** can be configured to a specific time (**1min**, **10min**, **30min**, **1h**, **3h**, or **8h**) or to **Never**. If no basic vitals (HR, RR, Pulse, SpO<sub>2</sub>, NBP) have been measured for the specified time, the monitor will automatically discharge the current patient and begin monitoring a new patient

# **Configuring Ask for New Patient Settings**

Global Setting: Main Setup -> Global Settings -> Ask For New Pat

Factory Defaults									
Item Name		per.	MX800,						
	M	ode	MP2 - MP90						
	С	M	MP5T, MP5SC						
			X2						
Power Off	x		Never						
Standby	x		Never						
No Basic Vitals	x		Never						
Ask Paced Mode	x		No						

### Ask for New Patient Configuration Implications

**Power Off** can be configured to a specific time (**1min**, **10min**, **30min**, **1h**, **3h**, or **8h**) or to **Never**. If the monitor is switched on, after being switched off for longer than the specified time, it will ask the user whether a new patient is now being monitored. The user can then select **Yes** to discharge the current patient and to begin monitoring a new patient or **No** to continue monitoring with the current patient data and settings.

**Standby** can be configured to a specific time (**1min**, **10min**, **30min**, **1h**, **3h**, or **8h**) or to **Never**. If monitoring is resumed, after the monitor was in Standby for longer than the specified time, it will ask the user whether a new patient is now being monitored. The user can then select **Yes** to discharge the current patient and to begin monitoring a new patient or **No** to continue monitoring with the current patient data and settings.

**No Basic Vitals** can be configured to a specific time (**1min**, **10min**, **30min**, **1h**, **3h**, or **8h**) or to **Never**. If no basic vitals (HR, RR, Pulse, SpO<sub>2</sub>, NBP) have been measured for the specified time, the monitor will ask the user whether a new patient is now being monitored. The user can then select **Yes** to discharge the current patient and to begin monitoring a new patient or **No** to continue monitoring with the current patient data and settings.

**Ask Paced Mode** can be configured to **Yes** or **No**. If you set it to **Yes** and the clinician selects **Yes** when asked whether this is a new patient, the monitor will prompt the clinician to enter the patients paced mode.

# Configuration Recommendations when using an X2 or MP5 with a Telemetry Label

You can declare an X2 or MP5 as a telemetry device at the Information Center (assigning a telemetry label). This causes the X2 or MP5 to be treated as as a telemetry device, including the ability to be paired with a host monitor (MX800, MP20-MP90). If you plan to use an X2/MP5 with a telemetry label and connect it to / disconnect it from a host monitor, you should configure the following global settings:

Recommended Configuration												
Global Settings		On host monitor MX800, MP20 - MP90	On X2 / MP5									
Pat. Sel. Default		Ask User	not applicable									
AskUser Reminder		5 min	5 min									
Ask for New Patient	Power Off	10 min	10 min									
	Standby	10 min	10 min									
	No Basic Vitals	10 min	10 min									

# **Configuring Demographic Fields Settings**

Global Setting: Main Setup -> Global Settings -> Demograph.Fields

Factory Defaults										
Item Name	Oper. Mode		MX800, MP2 - MP90	MP5SC, MP5#P05						
	С	Μ	MP5T							
			X2							
Last Name	x		Optional							
First Name	x		Optional							
Middle Name	x		Hidden							
Lifetime Id	x		Optional	Required						
Encounter Id	x		Hidden							
Date of Birth	x		Optional							
Lifetime Id Lbl	x		MRN							
Encounter Id Lbl	x		Encounter Id							

### **Demographic Fields Configuration Implications**

These settings determine which fields appear in the Patient Demographics window. They also determine if fields are mandatory for admission.

Last Name, First Name, Middle Name Configure <Name label> Name to Required, if you want them to be mandatory fields for admission.

Lifetime Id, Encounter Id Configure Lifetime Id, Encounter Id to Required, if you want them to be mandatory fields for admission. How the Lifetime Id or Encounter Id fields are actually labeled, depends on the configuration made under Lifetime Id Lbl and Encounter Id Lbl.

Date of Birth Configure Date of Birth to Hidden, if you want it to be hidden for admission. Date of Birth cannot be set to Required for admission.

Lifetime Id Lbl Use this seting to select how the Lifetime Id field should be labeled in the Patient Demographics window. Possible choices are: MRN, Record Id, Lifetime Id, Patient Id, Serial Number, and SSN. Make sure the same lifetime id label is used consistently across the entire enterprise.

**Encounter Id Lbl** Use this setting to select how the Encounter Id field should be labeled in the Patient Demographics window. Possible choices are: **Encounter Id**, **Visit Id**, **Account Number**, **Charge Number**, **Case Id**, and **Subject Number**. Make sure the same encounter id label is used consistently across the entire enterprise.

**NOTE** At least one name field or one Id field must be set to **Required** or **Optional**.

Check the hidden fields after upgrading or downgrading.

It is strongly recommended that the required demographic fields are configured consistently on the IntelliVue Information Center and the IntelliVue Patient monitor. When connected to an Information Center, the configuration of the demographic fields in the monitor will be permanently overwritten by the configuration of the Information Center.

# **Configuring Quick Admit Settings**

Global Setting: Main Setup -> Global Settings -> Quick Admit

Factory Defaults	Factory Defaults								
Item Name	Oper. Mode		MX800, MP2 - MP90						
	С	M	MP5T, MP5SC						
			X2						
Last Name	x		Off						
First Name	x		Off						
Middle Name	x		Off						
Lifetime Id	x		On						
Encounter Id	x		Off						
Patient Cat.	x		Off						
Paced	x		Off						
Date of Birth	x		Off						
QuickAdmitDischg	x		Ask User						

### **Quick Admit Configuration Implications**

These settings define which data fields are used when performing a Quick Admit procedure.

If you are using a barcode reader to enter the Quick Admit data, make sure that the setting made here corresponds to the information provided by the barcode.

The settings are greyed out and not accessible in this menu if corresponding Demographic Fields are set to **Required** or **Hidden**.

- They are automatically switched On if they are Required in the Demographic Fields settings.
- They are automatically switched Off if they are Hidden in the Demographic Fields settings.
- At least one name field or one Id field must be visible.

Last Name, First Name, Middle Name, Encounter Id, Patient Cat. Paced, Date of Birth Configure these settings to Off, if you want them to appear in the Quick Admit window.

**Lifetime Id** Configure **Lifetime Id** to **Off**, if you want to switch it off in the Quick Admit window.

**QuickAdmitDischg** When a Quick Admit is initiated, the monitor compares the information entered into the Quick Admit fields (see above) with the information that is currently stored for that field. If the information is different, the monitor optionally discharges the previous patient, depending on how the **QuickAdmitDischg** setting is configured:

- If set to Ask User, the monitor asks the user whether they want to discharge the previous patient.
- If set to Yes, the monitor automatically discharges the previous patient.
- If set to No, the monitor overwrites the data in the Quick Admit Field with the new data, but does
  not discharge the patient.

**NOTE** • At least one name field or one Id field must be visible.

- If the monitor is connected to an Information Center, the monitor enters "---" into the Last Name, Lifetime Id, and Encounter Id fields to enable admission at the Information Center.
- Check the Quick Admit settings after upgrading or downgrading.

# **Configuring Remote Display Settings**

MX800 MP60-90	Global Setting	lobal Setting: Main Setup -> Global Settings -> Remote Display													
MP2/X2 MP5	Factory Defaults														
only	Item Name	Of Mo	oer. ode M	MX800, MP60 - MP90 MP2/X2 MP5											
	Access Rights	x		Operating											
	Password	x		0000											
	Standby Image	x		Boot Image											

### **Remote Display Configuration Implications**

These settings manage aspects of the connection of an IntelliVue monitor to the XDS Remote Display.

Access Rights This settig determines how the XDS Remote Display can access the IntelliVue monitor. The following choices are available:

- **None**: a connected XDS Remote Display can neither display information from the IntelliVue monitor, nor remotely operate it.
- **Viewing**: a connected XDS Remote Display can display information from the IntelliVue monitor, but not remotely operate it.
- **Operating**: a connected XDS Remote Display can both display information from the IntelliVue monitor and remotely operate it.

**Password** To get access to the IntelliVue monitor from an XDS Remote Display, the same password must be configured in both devices. The maximum length of the password is 16 characters. To reset the password, overwrite it in both the monitor and the XDS software.

**Standby Image** This setting lets you change the presentation of the standby screen on the XDS Remote Display. The following choices are available:

- Boot Image: the Standby screen shows the basic (black background) boot image.
- Moving Image: the Standby screen shows a black screen with an image moving across the screen, similar to a screensaver.
- **Blank**: the Standby screen shows a black screen.

# **Configuring Setup Internal PC Settings**

MX800	Global	Setting:	Main	Setup	->	Global	Settings	->	Internal	PC
only										

Factory Defaults									
Item Name	Oper. Mode		MX800						
	С	М							
Auto Start PC	x		Disabled						
PC Audio	x		Disabled						

### **Setup Internal PC Configuration Implications**

These settings determin the start behavior of the Internal PC of a patient monitor.

**Auto Start PC** With this setting you enable or disable the automatic start of the internal PC when the patient monitor is switched on. Choices are **Disabled** or **Enabled**.

**PC** Audio With this setting you enable or disable the audio output of the internal PC when the patient monitor is switched on. Choices are **Disabled** or **Enabled**.

### **Configuring Timer Selection and Order**

Global Setting: Main Setup -> Timers

The selection and order of timers as they appear in the Timers menu are stored as Global settings.

Factory Defaults									
Item Name	Oper. Mode		MX800, MP60 - MP90	MP40 - MP50	MP20 - MP30	MP5, MP5T, MP5SC	MP2 X2		
	С	Μ							
<timer 1=""></timer>	x		Timer A	not applicable					
<timer 2=""></timer>	x		Timer B	not applicable					
<timer 3=""></timer>	x		Timer C not applicable						
<timer 4=""></timer>	x		Timer D	not applicable					

### **Timer Selection and Order Configuration Implications**

The maximum number of timers that can be simultaneously displayed on the IntelliVue monitor depends on your monitor model. The IntelliVue MX800, MP60/70/80/90 can run a maximum of four timers, the MP40/50 can run three timers, the MP5, MP20/30 two timers. The MP2/X2 does not provide a timer function.

The selection and order of timers is important when you change a numeric on the Main Screen into a timer:

- The selection determines which timer labels are actually available to choose from.
- The order determines which timer label is used when you change a numeric into an Any Timer. The monitor automatically uses the label that is located highest in the Timers window, provided that is not displayed on the Main Screen yet.

To change the selection and order of timers in the Timers menu,

- 1 Select **Main Setup -> Timers** to open the Timers menu.
- 2 Select the timer label that you want to change.
- 3 From the pop-up key line, select **Setup <Timer X>** to open the Setup menu for this timer label.
- 4 Select **Label** and change it to a different label. Notice that the monitor automatically applies the settings preconfigured for this label to the timer.

# **Configuring Manual Data Entry**

MX800 MP5-90	Global Setting:	Ma	in	Setup -> Enter MeasValu	ies -> Setup Meas.					
only	Factory Defaults									
	Item Name		Oper.         MX800,           Mode         MP5 - MP90           C         M		MP5SC, MP5#P05					
	Labels for General Use									
	Label	x		T1						
	Unit	x		°C						
	Color	x		Green	White					
	Interval	x		4h						
Factory Defaults										
------------------	---------------	------------------	----------------------	----------------						
Item Name	Or Mo C	oer. ode M	MX800, MP5 - MP90	MP5SC, MP5#P05						
Msmnt	x	x	Off	On						
Label	x		CVP	n/a						
Unit	x		mmHg							
Color	x		Red							
Interval	x		1 h							
Msmnt	x	x	Off							
Format	x	x	Mean							
Label	x		Glu	n/a						
Unit	x		mmol/l							
Color	x		Green							
Interval	x		4 h							
Msmnt	x	x	Off							
Label	x		Hct	n/a						
Unit	x		%PCV							
Color	x		Green							
Interval	x		24 h							
Msmnt	x	x	Off							
Label	x		Нь	n/a						
Unit	x		g/dl							
Color	x		Green							
Interval	x		24 h							
Msmnt	x	x	Off							
Label	x		n/a	SpRR						
Unit	x			rpm						
Color	x			White						
Interval	x			4 h						
Msmnt	x	x		On						
Label	x		n/a	U/O						
Unit	x			ml/hour						
Color	x			White						
Interval	x			4 h						
Msmnt	x	x		On						
Label	х		n/a	LOC						
Unit	x			n/a						
Color	x			White						
Interval	x			4 h						
Msmnt	x	x		On						

Factory Defaults										
Item Name	Oper. Mode		Oper. Mode		Oper. Mode		Oper. Mode		MX800, MP5 - MP90	MP5SC, MP5#P05
	С	M								
Label	x		n/a	AVPU						
Unit	x			n/a						
Color	x			White						
Interval	x			4 h						
Msmnt	x	x		On						
Label	x		n/a	Concern						
Unit	x			n/a						
Color	x			White						
Interval	x			4 h						
Msmnt	x	x		On						
Label	x		n/a	Pain						
Unit	x			n/a						
Color	x			White						
Interval	x			4 h						
Msmnt	x	x		On						
Label	x		n/a	Breathing						
Unit	x			n/a						
Color	x			White						
Interval	x			4 h						
Msmnt	x	x		On						
Label	x		n/a	Airway						
Unit	x			n/a						
Color	x			White						
Interval	x			4 h						
Msmnt	x	x		On						
Label	x		n/a	Conscs.State						
Unit	x			n/a						
Color	x			White						
Interval	x			4 h						
Msmnt	x	x		On						
Label	x		n/a	Urination						
Unit	x			n/a						
Color	x			White						
Interval	x			4 h						
Msmnt	x	x		On						

Factory Defaults				
Item Name	Oper. Mode		MX800, MP5 - MP90	MP5SC, MP5#P05
	С	M		
Label	x		n/a	Р
Unit	x			mmHg
Color	x			White
Interval	x			4 h
Msmnt	x	x		On
Labels reserved for Proto	colW	atch	1	
Label <sup>1</sup>	П		T1 <sup>3</sup>	n/a
Unit <sup>1</sup>			°C	
Color	x		Green	
Interval <sup>2</sup>	x		4 h	
Msmnt	x	x	Off	
Format <sup>1</sup>			not applicable, temperature labels don't have different formats	
Label <sup>1</sup>			SpRR	n/a
Unit <sup>1</sup>			rpm	
Color	x		Green	
Interval <sup>2</sup>	x		2 h	
Msmnt	x	x	Off	
Format <sup>1</sup>			not applicable, this label does not have different formats	
Label <sup>1</sup>			Lact	n/a
Unit <sup>1</sup>			mmol/l	
Color	x		Green	
Interval <sup>2</sup>	x		2 h	
Msmnt	x	x	Off	
Format <sup>1</sup>	x	x	not applicable, this label does not have different formats	
Label <sup>1</sup>			ScvO <sub>2</sub>	n/a
Unit <sup>1</sup>			%	
Color	x		Green	
Interval <sup>2</sup>	x		1 h	
Msmnt	x	x	Off	
Format <sup>1</sup>	x	x	not applicable, this label does not have different formats	

Factory Defaults						
Item Name	Oper. Mode		Oper. Mode		MX800, MP5 - MP90	MP5SC, MP5#P05
	С	Μ				
Label <sup>1</sup>			SvO <sub>2</sub>	n/a		
Unit <sup>1</sup>			%			
Color	x		Green			
Interval <sup>2</sup>	x		1 h			
Msmnt	x	x	Off			
Format <sup>1</sup>			not applicable, this label does not have different formats			
Label <sup>1</sup>	1		Glu <sup>3</sup>	n/a		
Unit <sup>1</sup>			mmol/l			
Color	x		Green			
Interval <sup>2</sup>	x		4 h			
Msmnt	x	x	Off			
Format <sup>1</sup>			not applicable, this label does not have different formats			
Label <sup>1</sup>			CVP <sup>3</sup>	n/a		
Unit <sup>1</sup>			mmHg			
Color	x		Red			
Interval <sup>2</sup>	x		1 h			
Msmnt	x	x	Off			
Format <sup>1</sup>			Sys&Dia&Mean			

1.For ProtocolWatch labels, Label, Unit, and Format cannot be modified.

2.For ProtocolWatch labels, the choices for Interval are restricted to the times used in the ProtocolWatch application.

3. This label is not visible in the ProtocolWatch section, if it is also configured as a general label.

#### Manual Data Entry Configuration Implications

You can manually enter measurement values into the monitor that have been measured with other equipment or manually, for example, manual temperatures, or lab values. The monitor is shipped with a number of measurements preconfigured for manual entry (see table above).

A maximum of 20 measurements can be configured, 13 for general purposes, the remaining seven are reserved for the ProtocolWatch application. These will only be shown in the Enter Measurement Values menu if the ProtocolWatch option is installed on the monitor and the ProtocolWatch application is active. If you add a measurement to the general section with the same label as a measurement reserved for the ProtocolWatch application, the label will disappear from the ProtocolWatch section. This has no negative effect on the ProtocolWatch application. For details on configuring the ProtocolWatch application, see the section "Configuring SSC Sepsis Protocol" on page 152.

#### To add more measurements for manual entry,

1 In configuration mode, select Main Setup -> Enter MeasValues to open the Enter Measurement Values window. The measurements that are currently configured for manual data entry are displayed.

- 2 Select the pop-up key **Setup Meas.** to open the Setup Measurement Values window, then select the pop-up key **Add**.
- 3 In the Setup Measurement submenu, select **Label** and choose the required measurement label from the pop-up list.
- 4 Select the **Unit** and **Color** that should be used for the chosen label.
- 5 Select **Interval** to define the time after which a manually entered value becomes invalid (no value is then displayed). Values can be entered up to two hours after they have been measured or up to the measurement interval, if this is shorter.
- 6 Select **Msmnt** to define whether the selected measurement will be **On** or **Off**. The On/Off state can be changed by the user in Monitoring mode.
- 7 If available, select **Format** to define an input format. For pressures, for example, you can configure whether the user should enter all pressure values (**Sys&Dia&Mean**) or only the **Mean** pressure. The **Format** can be changed by the user in Monitoring mode.

# **Configuring Country-Specific Settings**

#### Global Setting: Main Setup -> Global Settings

Some settings are made in the factory to match the typical requirements in a specific country. Line frequency, units for weight and height, and ECG cable colors (AAMI or IEC) have been set to appropriate values. If you suspect that these settings may not match your institution's requirements, check the settings and change them if necessary.

The settings are listed here for all countries alphabetically.

Factory Defaults - By Country						
Country	All Monitor Models					
	Line Frequency	Weight Unit	Height Unit	ECG Cable Color		
Afghanistan	50	kg	cm	AAMI		
Åland Islands	50	kg	cm	IEC		
Albania	50	kg	cm	IEC		
Algeria	50	kg	cm	IEC		
American Samoa	60	lb	in	AAMI		
Andorra	60	lb	in	AAMI		
Angola	50	kg	cm	IEC		
Anguilla	60	lb	in	AAMI		
Antarctica	60	lb	in	AAMI		
Antigua and Barbuda	50	kg	cm	AAMI		
Argentina	50	kg	cm	AAMI		
Armenia	50	kg	cm	IEC		
Aruba	60	kg	cm	AAMI		
Australia	50	kg	cm	AAMI		
Austria	50	kg	cm	IEC		
Azerbaijan	50	kg	cm	IEC		
Bahamas, The	60	kg	cm	AAMI		
Bahrain	50	kg	cm	AAMI		
Bangladesh	60	lb	in	AAMI		
Barbados	50	kg	cm	AAMI		
Belarus	50	kg	cm	IEC		
Belgium	50	kg	cm	IEC		
Belize	60	lb	in	AAMI		
Benin	60	lb	in	AAMI		
Bermuda	60	kg	cm	AAMI		
Bhutan	60	lb	in	AAMI		
Bolivia	50	kg	cm	AAMI		
Bosnia and Herzegovina	50	kg	cm	IEC		

Factory Defaults - By Country					
Country	All Monitor Models				
	Line Frequency	Weight Unit	Height Unit	ECG Cable Color	
Botswana	50	kg	cm	IEC	
Bouvet Island	60	lb	in	AAMI	
Brazil	60	kg	cm	AAMI	
British Indian Ocean Territory	60	lb	in	AAMI	
Brunei Darussalam	50	kg	cm	AAMI	
Brunei	50	kg	cm	IEC	
Bulgaria	50	kg	cm	IEC	
Burkina Faso	50	kg	cm	IEC	
Burundi	50	kg	cm	IEC	
Cambodia	50	kg	cm	IEC	
Cameroon	50	kg	cm	IEC	
Canada	60	kg	cm	AAMI	
Cape Verde	60	lb	in	AAMI	
Cayman Islands	60	kg	cm	AAMI	
Central African Republic	50	kg	cm	IEC	
Chad	60	lb	in	AAMI	
Chile	50	kg	cm	AAMI	
China	50	kg	cm	IEC	
Christmas Islands	60	lb	in	AAMI	
Cocos Keeling Islands	60	lb	in	AAMI	
Colombia	60	kg	cm	AAMI	
Comoros	60	lb	in	AAMI	
Congo	50	kg	cm	IEC	
Congo, Democratic Republic of the	50	kg	cm	IEC	
Cook Islands	60	lb	in	AAMI	
Costa Rica	60	kg	cm	AAMI	
Côte d'Ivoire	50	kg	cm	IEC	
Croatia	50	kg	cm	IEC	
Cuba	60	kg	cm	IEC	
Сургиз	50	kg	cm	IEC	
Czech Republic	50	kg	cm	IEC	
Denmark	60	lb	in	AAMI	
Djibouti	50	kg	cm	IEC	
Dominica	50	kg	cm	AAMI	
Dominican Republic	60	kg	cm	AAMI	
Ecuador	60	kg	cm	AAMI	

Factory Defaults - By Country						
Country	All Monitor Models					
	Line Frequency	Weight Unit	Height Unit	ECG Cable Color		
Egypt	50	kg	cm	IEC		
El Salvador	60	kg	cm	AAMI		
Equatorial Guinea	50	kg	cm	IEC		
Eritrea	50	kg	cm	IEC		
Estonia	50	kg	cm	IEC		
Ethiopia	50	kg	cm	IEC		
Falkland Islands, Malvinas	60	lb	in	AAMI		
Faroe Islands	60	lb	in	AAMI		
Fiji	60	lb	in	AAMI		
Finland	50	kg	cm	IEC		
France	50	kg	cm	IEC		
French Guiana	50	kg	cm	IEC		
French Polynesia	60	lb	in	AAMI		
French Southern Territories	60	lb	in	AAMI		
Gabon	50	kg	cm	IEC		
Gambia, The	50	kg	cm	IEC		
Georgia	60	lb	in	AAMI		
Germany	50	kg	cm	IEC		
Ghana	50	kg	cm	IEC		
Gibraltar	60	lb	in	AAMI		
Greece	50	kg	cm	IEC		
Greenland	60	lb	in	AAMI		
Grenada	50	kg	cm	AAMI		
Guadeloupe	50	kg	cm	IEC		
Guam	60	lb	in	AAMI		
Guatemala	60	kg	cm	AAMI		
Guernsey	50	kg	cm	IEC		
Guinea	60	lb	in	AAMI		
Guinea-Bissau	60	lb	in	AAMI		
Guyana	60	kg	cm	AAMI		
Haiti	60	kg	cm	AAMI		
Heard Island and McDonald Islands	60	lb	in	AAMI		
Holy See, Vatican City State	60	lb	in	AAMI		
Honduras	60	kg	cm	AAMI		
Hong Kong	50	kg	cm	IEC		
Hungary	50	kg	cm	IEC		

Factory Defaults - By Country					
Country	All Monitor Models				
	Line Frequency	Weight Unit	Height Unit	ECG Cable Color	
Iceland	50	kg	cm	IEC	
India	50	kg	cm	IEC	
Indonesia	50	kg	cm	IEC	
Iran, Islamic Republic of	50	kg	cm	AAMI	
Iraq	50	kg	cm	AAMI	
Ireland	50	kg	cm	IEC	
Isle of Man	50	kg	cm	IEC	
Israel	50	kg	cm	IEC	
Italy	50	kg	cm	IEC	
Jamaica	50	kg	cm	AAMI	
Japan	60	kg	cm	IEC	
Jersey	50	kg	cm	IEC	
Jordan	50	kg	cm	AAMI	
Kazakhstan	50	kg	cm	IEC	
Kenya	50	kg	cm	IEC	
Kiribati	60	lb	in	AAMI	
Korea, Democratic People's Republic of	60	lb	in	AAMI	
Korea, Republic of	60	kg	cm	AAMI	
Kuweit	50	kg	cm	AAMI	
Kyrgyzstan	60	lb	in	AAMI	
Lao People's Democratic Republics	50	kg	cm	IEC	
Latvia	50	kg	cm	IEC	
Lebanon	50	kg	cm	AAMI	
Lesotho	50	kg	cm	IEC	
Liberia	50	kg	cm	IEC	
Libyan Arab. Jamahiriya	60	lb	in	AAMI	
Liechtenstein	60	lb	in	AAMI	
Lithuania	50	kg	cm	IEC	
Luxembourg	50	kg	cm	IEC	
Macao	60	lb	in	AAMI	
Macedonia, The former Yugoslav. Rep. of	50	kg	cm	IEC	
Madagascar	50	kg	cm	IEC	
Malawi	50	kg	cm	IEC	
Malaysia	50	kg	cm	IEC	
Maldives	60	lb	in	AAMI	
Mali	50	kg	cm	IEC	

Factory Defaults - By Country						
Country	All Monitor Models					
	Line Frequency	Weight Unit	Height Unit	ECG Cable Color		
Malta	50	kg	cm	IEC		
Marshall Islands	60	lb	in	AAMI		
Martinique	60	kg	cm	IEC		
Mauritania	50	kg	cm	IEC		
Mauritius	60	lb	in	AAMI		
Mayotte	60	lb	in	AAMI		
Mexico	60	kg	cm	AAMI		
Micronesia, Fed. States of	60	lb	in	AAMI		
Moldova, Republic of	60	lb	in	AAMI		
Monaco	60	lb	in	AAMI		
Mongolia	60	lb	in	AAMI		
Montenegro	50	kg	cm	IEC		
Montserrat	50	kg	cm	AAMI		
Могоссо	50	kg	cm	IEC		
Mozambique	50	kg	cm	IEC		
Myanmar	60	lb	in	AAMI		
Namibia	50	kg	cm	IEC		
Nauru	60	lb	in	AAMI		
Nepal	60	lb	in	AAMI		
Netherlands	50	kg	cm	IEC		
Netherlands Antilles	50	kg	cm	AAMI		
New Caledonia	60	lb	in	AAMI		
New Zealand	50	kg	cm	AAMI		
Nicaragua	60	kg	in	AAMI		
Niger	50	kg	cm	IEC		
Nigeria	50	kg	cm	IEC		
Niue	60	lb	in	AAMI		
Norfolk Islands	60	lb	in	AAMI		
Northern Mariana Islands	60	lb	in	AAMI		
Norway	50	kg	cm	IEC		
Oman	50	kg	cm	AAMI		
Pakistan	50	kg	cm	IEC		
Palau	60	lb	in	AAMI		
Palestinian Territory	50	kg	cm	AAMI		
Panama	60	lb	in	AAMI		
Papua New Guinea	60	lb	in	AAMI		

Factory Defaults - By Country					
Country	All Monitor Model	S			
	Line Frequency	Weight Unit	Height Unit	ECG Cable Color	
Paraguay	50	kg	cm	AAMI	
Peru	60	kg	cm	AAMI	
Philippines	60	kg	cm	AAMI	
Pitcairn	60	lb	in	AAMI	
Poland	50	kg	cm	IEC	
Portugal	50	kg	cm	IEC	
Puerto Rico	60	lb	in	AAMI	
Qatar	50	kg	cm	AAMI	
Reunion	60	lb	in	AAMI	
Romania	50	kg	cm	IEC	
Russian Federation	50	kg	cm	IEC	
Rwanda	50	kg	cm	IEC	
Saint Helena	60	lb	in	AAMI	
Saint Kitts and Nevis	60	kg	cm	AAMI	
Saint Lucia	50	kg	cm	AAMI	
Saint Pierre and Miquelon	60	lb	in	AAMI	
Saint Vincent and the Grenadines	50	kg	cm	AAMI	
Samoa	60	lb	in	AAMI	
San Marino	60	lb	in	AAMI	
Sao Tome and Principe	60	lb	in	AAMI	
Saudi Arabia	50	kg	cm	AAMI	
Senegal	50	kg	cm	IEC	
Serbia	50	kg	cm	IEC	
Serbia & Montenegro	50	kg	cm	IEC	
Seychelles	60	lb	in	AAMI	
Sierra Leone	50	kg	cm	IEC	
Singapore	50	kg	cm	IEC	
Slovakia	50	kg	cm	IEC	
Slovenia	50	kg	cm	IEC	
Solomon Islands	60	lb	in	AAMI	
Somalia	50	kg	cm	IEC	
South Africa	50	kg	cm	IEC	
South Georgia and the South Sandwich Islands	60	lb	in	AAMI	
Spain	50	kg	cm	IEC	
Sri Lanka	60	lb	in	AAMI	

Factory Defaults - By Country					
Country	All Monitor Mode	els			
	Line Frequency	Weight Unit	Height Unit	ECG Cable Color	
Sudan	50	kg	cm	IEC	
Suriname	60	kg	cm	AAMI	
Svalbard and Jan Mayen	60	lb	in	AAMI	
Swaziland	60	lb	in	AAMI	
Sweden	50	kg	cm	IEC	
Switzerland	50	kg	cm	IEC	
Syrian Arab Rep	50	kg	cm	AAMI	
Taiwan, Province of China	60	kg	cm	AAMI	
Tajikistan	60	lb	in	AAMI	
Tanzania, United Republic of	60	lb	in	AAMI	
Thailand	50	kg	cm	AAMI	
Timor-Leste	60	lb	in	AAMI	
Togo	60	lb	in	AAMI	
Tokelau	60	lb	in	AAMI	
Tonga	60	lb	in	AAMI	
Trinidad and Tobago	60	lb	in	AAMI	
Tunisia	50	kg	cm	IEC	
Turkey	50	kg	cm	IEC	
Turkmenistan	60	lb	in	AAMI	
Turks and Caicos Islands	60	kg	cm	AAMI	
Tuvalu	60	lb	in	AAMI	
Uganda	60	lb	in	AAMI	
Ukraine	60	lb	in	AAMI	
UK	50	kg	cm	IEC	
United Arab Emirates	50	kg	cm	AAMI	
United Kingdom	50	kg	cm	IEC	
United States	60	lb	in	AAMI	
United States (Weight kg)	60	kg	in	AAMI	
United States (Height cm, Weight kg)	60	kg	cm	AAMI	
United States Minor Outlying Islands	60	lb	in	AAMI	
Uruguay	50	kg	cm	AAMI	
Uzbekistan	60	lb	in	AAMI	
Vanuatu	60	lb	in	AAMI	
Venezuela	60	lb	in	AAMI	
Viet Nam	50	kg	cm	IEC	
Virgin Islands (British)	50	kg	cm	AAMI	

Factory Defaults - By Country						
Country	All Monitor Models					
	Line Frequency	Weight Unit	Height Unit	ECG Cable Color		
Virgin Islands (US)	60	lb	in	AAMI		
Wallis and Futuna Islands	60	lb	in	AAMI		
Western Sahara	50	kg	cm	IEC		
Yemen	50	kg	cm	AAMI		
Zambia	60	lb	in	AAMI		
Zimbabwe	60	lb	in	AAMI		

# **Configuring Printers**

E.

Global Setting: Main Setup -> Reports -> Setup Printers

Factory Defaults							
Item Name	( ]	Oper. Mode		MX800, MP20 - MP90	MP2/X2 MP5, MP5T,		
	С	S	M		MP5SC		
Printer: Local 1 <sup>1</sup>							
Chg Printer Name	x	x		Local 1	not applicable, the		
Port	x	х		not applicable, this is not a setting, see "Printer Configuration Implications" on page 195	MP2/X2 and MP5/ MPT do not support		
Config Printer <sup>2</sup>		x		Manual	iocai printing		
Printer Status	x	x	x	Disabled			
Paper Size	x	x		Letter			
Resolution	x	x		300 dpi			
Color Support	x	x		Monochrome			
Duplex Option	x	х		Simplex			
Printer: Local 2 <sup>1</sup>							
Chg Printer Name	x	x		Local 2	not applicable, the		
Port	x	x		not applicable, this is not a setting, see "Printer Configuration Implications" on page 195	MP2/X2 and MP5/ MP5T, MP5SC do		
Config Printer <sup>2</sup>		х		Manual	printing		
Printer Status	x	x	x	Disabled			
Paper Size	x	x		Letter			
Resolution	х	x		300 dpi			
Color Support	x	x		Monochrome			
Duplex Option	x	х		Simplex			
Printer: Remote 1							
Chg Printer Name	x	х		Remote 1			
Port	x	x		not applicable, this is not a setting, see "Printer Conf page 195	iguration Implications" on		
Config Printer <sup>2</sup>		x		Auto			
Printer Status	x	x	x	Enabled			
Paper Size	x	x		Letter			
Resolution	x	x		300 dpi			
Color Support	x	x		Monochrome			
Duplex Option	x	x		Simplex			
Printer: Remote 2							
Chg Printer Name	x	x		Remote 2			
Port	x	x		not applicable, this is not a setting, see "Printer Conf page 195	iguration Implications" on		
Config Printer <sup>2</sup>		x		Auto			

Factory Defaults							
Item Name	Oper. Mode		r. le	MX800, MP20 - MP90	MP2/X2 MP5, MP5T, MP5SC		
	C	S	Μ				
Printer Status	x	x	x	Enabled			
Paper Size	x	x		Letter			
Resolution	x	x		300 dpi			
Color Support	x	x		Monochrome			
Duplex Option	x	x		Simplex			
Printer: Remote 3							
Chg Printer Name	x	x		Remote 3			
Port	x	x		not applicable, this is not a setting, see "Printer Configuration Implications" on page 195			
Config Printer <sup>2</sup>		x		Auto			
Printer Status	x	x	x	Enabled			
Paper Size	x	x		Letter			
Resolution	x	x		300 dpi			
Color Support	x	x		Monochrome			
Duplex Option	x	x		Simplex			
Printer: Database							
Chg Printer Name	x	x		Database			
Port	x	x		not applicable, this is not a setting, see "Printer Configuration Implications" on page 195			
Config Printer <sup>2</sup>		х		Manual			
Printer Status	x	x	x	Enabled			
Paper Size	х	х		Letter			

1.Local printers will only be shown in the list of printers if a Parallel Printer Interface is installed. 2.Setting can only be changed in service mode.

#### **Printer Configuration Implications**

**Printer** This is not a setting, it lets you select the printer you want to configure. The printer **Database** is not a physical printer, it refers to the print database. This is a special section of the monitor database which acts as a buffer for print jobs. Print jobs stored in the print database are automatically printed when a print device with a paper size matching the template of the report is available. Reports stored in the print database will not be cleared by a discharge or by a power cycle. To be able to use the print database, it must be enabled, see "Print Database" on page 209.

**Chg Printer Name** Lets you change the printer name. If the monitor is connected to an Information Center, the name of the printer is determined by the Information Center and cannot be changed at the monitor.

**Port** This is not a setting. **Port** lets you view the printer port to which the selected printer is assigned. Available printer ports are **Local 1**, **Local 2**, **Remote 1**, **Remote 2**, **Remote 3**, and **Database**. Several printers can be mapped to the same printer port. For example, both **Local 1** and **Local 2** could be mapped to the same local printer to allow printing from different paper trays of one printer.

Port Local 1 has the highest priority, port Database has the lowest priority. If you print a report for which no specific printer has been assigned (Target Device = Unspecified, see "Configuring Reports" on page 116), the monitor tries to print on port Local 1 first. If this is not possible, because the printer is not available or there is a mismatch between the configured report size and the actual printer paper size, the monitor tries to send the report to the printer connected to port Local 2, followed by **Remote 1**, and so on. If the monitor has no connection to a printer, the report will be stored in the print database, from which it will be printed as soon as a connection to an appropriate printer is available.

**Config Printer** This setting is available in Service mode only. It lets you define whether the printer is automatically or manually configured. **Auto**matic printer configuration is only available for remote printers, i.e. printers that are connected to the Information Center. For local printers and printing to the database, this setting is automatically set to **Manual**.

When **Config Printer** is set to **Auto**, printer settings for paper size, resolution, color support and duplex option sent from an Information Center or other source override the settings configured at the monitor. They will be unavailable ("grayed out") at the monitor. When **Config Printer** is set to **Manual**, the printer settings from the monitor override printer settings from an Information Center or other source.

**Printer Status** This lets you enable or disable the selected printer.

If **Port** is one of the remote ports, and **Config Printer** is set to **Auto**, and printing on this port is not possible, **Printer Status** is automatically **Disabled** and cannot be changed.

**Paper Size** This lets you configure the printer paper size. Possible choices are: **A4**, **Letter**, **A3** or **Ledger** (11x17 inches). This setting is not available if **Config Printer** is configured to **Auto**.

**Resolution** The printer resolution can be set to **300 dpi**, **600 dpi** or **1200 dpi**. The horizontal and vertical resolutions are assumed to be identical. This setting is not available if **Config Printer** is configured to **Auto** or if **Printer Status** is **Disabled**.

**Color Support** This lets you configure whether the printer supports color. It can be set to **Monochrome** or **8 Colors**. This setting is not available if **Config Printer** is configured to **Auto** or if **Printer Status** is **Disabled**.

**Duplex Option** This lets you configure **Simplex** or **Duplex** printing. If the printer does not support duplex printing, this setting is ignored. This setting is not available if **Config Printer** is configured to **Auto** or if **Printer Status** is **Disabled**.

#### **Printer Configuration Examples**

#### **Configuring a Locally Connected Printer**

These steps show you how to carry out a typical configuration for a monitor connected to a local printer.

- 1 In the Setup Printers menu, select the first printer in the list (Port is set to Local 1).
- 2 Set **Printer Status** to **Enabled**. **Disabled** means that no reports will be printed on the printer. If this menu entry is grayed out, it means that no printer of this type is connected to the specified port. Make sure that all other printers in the list are set to **Disabled**.

- 3 Select **Chg Printer Name** and then use the pop-up keyboard to enter a name for the printer you are currently configuring. Maximum length is 12.
- 4 Select **Paper Size** and set the paper size for reports printed on this printer.
- 5 Select **Resolution** and set the resolution at which reports should be printed.
- 6 Select **Color Support** to toggle to **Monochrome** for black and white printers or **8 Colors** for color printers. If your printer is not a color printer and you set this to color, reports will not print correctly.
- 7 Select **Duplex Option** to toggle to **Duplex** if the connected printer can print double-sided reports, or **Simplex** for single-sided print-outs.

Only one local printer can be connected to each monitor. You can use the second local port to print reports from a second paper tray, if required.

- 1 Select the second printer in the list, and make sure **Port** is set to **Local 2** and **Printer Status** is set to **Enabled**.
- 2 Assign different names to the two paper trays, for example **Bed4\_USLettr** and **Bed4\_Ledger**.
- 3 Configure the other printer settings as required for the second paper tray.

#### **Configuring a Centrally Connected Printer**

These steps show you how to carry out a typical configuration for a monitor connected to a central printer.

- 1 In the **Setup Printers** menu, select the third printer in the list and make sure that **Port** is set to **Remote 1**.
- 2 Set **Printer Status** to **Enabled**. **Disabled** means that no reports will be printed on the printer. If this menu entry is grayed out, it means that no printer of this type is connected to the specified port. Make sure that all other printers in the list are set to **Disabled**.
- 3 If the printer name is not sent from the Information Center, select **Chg Printer Name** and then use the pop-up keyboard to enter a name for the printer you are currently configuring. Maximum length is 12. If the printer name is defined at the Information Center, Chg Printer Name will be unavailable ("grayed out").

(The settings described in steps 4 to 7 are only available if the service mode setting **Config Printer** is set to **Manual**).

- 4 Select **Paper Size** and set the paper size for reports printed on this printer.
- 5 Select **Resolution** and set the resolution at which reports should be printed.
- 6 Select Color Support to toggle between Monochrome for black and white printers or8 Colors for color printers.

The IntelliVue Information Center currently does not support color printers. If a black and white printer is connected to your Information Center and you set **Color Support** for a remote printer to **8 Colors**, reports will not print correctly.

7 Select **Duplex Option** to toggle to **Duplex** if the connected printer can print double-sided reports, or **Simplex** for single-sided print-outs.

If only one remote printer is connected to the monitor, you can use the second and third remote printer ports to print from different paper trays on the printer. The service mode setting **Config Printer** must be set to Manual for this.

- 1 To print reports from the second paper tray, select the fourth printer in the list, make sure **Port** is set to **Remote 2**, and **Printer Status** is set to **Enabled**.
- 2 To print reports from the third paper tray, select the fifth printer in the list, make sure **Port** is set to **Remote 3**, and **Printer Status** is set to **Enabled**.
- 3 Configure the other printer settings as required for each paper tray.

#### **Configuring one Locally and One Centrally Connected Printer**

This is a typical configuration for a monitor connected to one local and one central printer.

- 1 To configure the local printer, in the **Setup Printers** menu, select the first printer in the list and make sure that **Port** is set to **Local 1**. Set **Printer Status** to **Enabled**. Change the printer name if required and configure the correct settings for the locally connected printer as described above.
- 2 To configure the central printer, in the **Setup Printers** menu, select the third printer in the list and make sure that **Port** is set to **Remote 1**. Set **Printer Status** to **Enabled**. Change the printer name if required and configure the settings for the centrally connected printer as described above.
- 3 Make sure that all other printers in the list are set to **Disabled**.

# Configuring a Monitor to Capture Alarm Events in the Print Database during Transport

You may want to use this feature on transport monitors which have no recorder.

- 1 Under **Databases** > **Database** Config, make sure that **Print Database** is set to **Small** or **Large**. Any change must be confirmed to take effect. This will cause the monitor to reboot.
- 2 Under Alarms > Alarm Recording, select all alarms that should trigger a capture (eg HR Red Only, PVC Red Only, etc.).
- 3 Under Recordings > Setup Recordings, select Alarm, and change the Recorder to Printer. This causes any alarm recording to be sent as a Realtime Report to a connected printer. If during transport no printer is connected to the monitor, the Realtime Report will be stored in the print database (if configured appropriately, see next steps)
- 4 Under Reports > Setup Reports, select Realtime Rep as the Report.
  - a. Configure the **Target Device** to either **Unspecified** (factory default) or **Database**.
  - b. Configure the Report Size to either Universal or Unspecified. In both cases, the report will be printed on a printer which has either US Letter or A4 format.
- 5 Under **Reports** > **Setup Printers**, select **Database** as the **Printer**, and configure the **Paper Size** to either **Letter** or **A4**, depending on your prefered paper format.
- 6 Under **Reports**, select **AutoPrint Dbs** and set it to the desired behavior. For details, refer to "Other Report Settings Configuration Implications" on page 121.
- 7 Store the changes.

#### **Printing a Test Report**

To verify your printer configuration it is strongly recommended that you print a test report.

To print a test report,

select Main Setup -> Reports -> Setup Printers -> Print Test Rep.

# Hardware Settings

This section lists all hardware settings. Just like unique monitor settings and global settings, hardware settings are set once per monitor and are the same in every Profile. Any changes you make to the hardware settings configuration are automatically stored, there is no need to save them in an extra step.

Hardware settings must be entered for each monitor individually, they are stored in the monitor, and cannot be cloned using the IntelliVue Support Tool.

Most hardware settings can be changed in service mode only. For detailed configuration implications on these settings, please refer to the Service Guide provided on the Documentation DVD shipped with your monitor.

Factory Defaults								
Item Name	tem Name Oper. Mode		MX800, MP90	MP5	MP2/X2			
	С	S	Μ					
Multiple Display <sup>1</sup>		x		See see "Configuring Multiple Display Settings" on page 201	See see "Configuring Multiple not applicable Display Settings" on page 201			
Video <sup>2</sup>		x		See see "Configuring Video Settings" on not applicable page 202				
Standby Image	x	x		Boot Image				
Interfaces		x		See see "Configuring Interfaces a page 204	See see "Configuring Interfaces and Input Device Settings" on not applicabl page 204			
Keyboard		x		US				
Data Export 1 <sup>3</sup>	x	x		Fix 115200	Fix 115200			
Data Export 2 <sup>3</sup>	x	x		Fix 115200				
SRR <sup>4</sup>		x		not applicable On				
SRR Channel <sup>4</sup>		x		not applicable	rt applicable See see "Configu Channels" on pag			

#### Hardware Setting: Main Setup -> Hardware

1.Entry available on MX800 or MP90 monitors with multiple main displays only.

2.Entry available on MX800, MP40/50, MP60/70, MP80/90 monitors only.

3.Setting available on monitors with a LAN or MIB/RS232 interface only.

4.Setting available on monitors with a short range radio interface only.

**Video** Video settings are available in **service mode only** and allow technical personnel to set the correct resolution for the connected display(s). For detailed configuration implications, refer to the IntelliVue Service Guide and "Configuring Video Settings" on page 202.

**Standby Image** This setting lets you change the presentation of the standby screen. Choices for the first display are **Fixed Image** or **Moving Image**. For the 2nd and 3rd independent display, two additional choices are available: **Blank** and **Video Off**.

• **Boot Image**: the Standby screen shows the boot image configured under Video settings, see "Configuring Video Settings" on page 202.

- Moving Image: the Standby screen shows a black screen with an image moving across the screen, similar to a screensaver.
- Blank: the Standby screen shows a black screen, the display is not shut off.
- Video Off: the video signal and display are turned off.

**Interfaces** Interface settings can be changed in **service mode only**. Supported interface board configurations are listed in the section "Installation Instructions" of the IntelliVue Service Guide.

**Keyboard** This setting is available in service mode only and allows technical personnel to select the language of the keyboard that is connected to the P/S2 interface connector. For detailed configuration implications, refer to the IntelliVue Service Guide.

**Data Export** The two **Data Export** settings let you determine the port speeds (baud rate) for up to two MIB/RS232 data output ports. **Data Export 1** determines the speed of the port labeled **DtOut1**, and **Data Export 2** determines the speed of the port labeled **DtOut2**. The two data output ports can be located on the same or on two separate MIB/RS232 interfaces. For details on assigning data output ports to the MIB/RS232 ports, refer to "Configuring Interfaces and Input Device Settings" on page 204.

**SRR** This setting is available for monitors with a short range radio interface only. Configure **SRR** to **Off**, if you want to switch off the short range radio capabilities of the monitor.

## **Configuring Multiple Display Settings**

MX800 Multiple Display settings are available for MX800 and MP90 monitors with multiple main displays only.

#### MP90 Hardware Setting: Main Setup -> Hardware -> Multiple Display only

Factory Defaults							
Item Name	Oper. Mode		r. le	MX800, MP90			
	С	S	Μ				
Display Layout	1	x		Horizontal			
Display 1		x		Operator 1			
Display 2		x		Operator 1			
Display 3		x		Operator 1			
Oper. 1 Windows		x		Same Display			
Oper. 2 Windows		x		Same Display			
FMS 1 Keys	x	x		Display 1			
FMS 2 Keys	x	x		Display 1			
GM Keys	x	x		Display 1			
Meas Sel.Window	x	х		Display 1			
ADT Window	x	х		Display 1			
Timer Window	x	x		Display 1			
ProtWatch Window	x	х		Display 1			
Event Surv. Window	x	х		Display 1			

#### **Multiple Display Configuration Implications**

**Display Layout** This setting can be changed in **service mode only**. For detailed configuration implications, refer to the MX800, MP80/MP90 IntelliVue Service Guide.

**Display 1 / Display 2 / Display 3** These settings can be changed in service mode only. For detailed configuration implications, refer to the MX800, MP80/MP90 IntelliVue Service Guide.

**Oper. 1 Windows / Oper. 2 Windows** These settings can be changed in service mode only. For detailed configuration implications, refer to the MX800, MP80/MP90 IntelliVue Service Guide.

**FMS 1 Keys** defines on which display a setup menu or application window appears when any of the hard keys on a plug-in module in FMS 1 is pressed. If the configured display is not available, the monitor automatically uses Display 1.

**FMS 2 Keys** defines on which display a setup menu or application window appears when any of the hard keys on a plug-in module in FMS 2 is pressed. If the configured display is not available, the monitor automatically uses Display 1.

**GM Keys** defines on which display the gas monitor setup menu appears when the Setup Airway Gases key on the gas monitor front panel is pressed. If the configured display is not available, the monitor automatically uses Display 1.

**Meas. Sel.Window** defines on which display the Measurement Selection window pops up if **Meas. Selection** (see see "Configuring User Interface Settings" on page 126) is configured to **Window**, and a label conflict occurs, and no other menu/window is open at the same time. If the configured display is not available, the monitor automatically uses Display 1.

**ADT Window** defines on which display the Patient Demographics window pops up, if a patient identification mismatch occurs and no other menu/window is open at the same time. If the configured display is not available, the monitor automatically uses Display 1.

**Timer Window** defines on which display the Timers window pops up when a timer expires and the **Auto Window** setting for that timer is set to **Yes** (see see "Configuring Timers" on page 158), and no other menu/window is open at the same time. If the configured display is not available, the monitor automatically uses Display 1.

**ProtWatch Window** defines on which display the ProtocolWatch window pops up when the protocol currently running requires a user response. If the configured display is not available, the monitor automatically uses Display 1.

**Event Surv. Window** defines on which display the Event Episode window pops up when an event occurs and the **Notification Type** of an event group is configured to **\*\* Alarm (PopUp)** or **\*\*\*Alarm (PopUp)**. If the configured display is not available, the monitor automatically uses Display 1.

#### **Configuring Video Settings**

Video settings can be changed in **service mode only** and allow technical personnel to set the correct resolution, type, and size for connected display(s). For detailed configuration implications on these settings, please refer to the latest IntelliVue Patient Monitor Service Guide.

Factory Defaults										
Item Name		Oper. Mode		MX800	MP90	MP60/ 70	MP40/ 50	MP20/ 30	MP5	MP2/X2
	С	s	Μ							
Standby/Boot		x		Classic	-		•	not appli	cable	
Display 1 - Resolution		x		WSXGA+ (1680x1050)	XGA (1024 x 768)	SVGA <sup>1</sup>				
Display 1 - Display Type		x		LCD	LCD			LCD <sup>1</sup>		
Display 1 - Size		x		19" <sup>1</sup>	15"	15" <sup>1</sup>	12.1" <sup>1</sup>			
Display 2 - Resolution <sup>2</sup>		x		WSXGA+ (1680x1050)	XGA (1024 x 768)	not appli	cable			
Display 2 - Display Type <sup>2</sup>		x		LCD						
Display 2 - Size <sup>2</sup>		x		15"	15"					
Display 3 - Resolution <sup>3</sup>		x		not applicable	not applicable XGA (1024 x 768)					
Display 3 - Display Type <sup>3</sup>		x			LCD					
Display 3 - Size <sup>3</sup>		x			15"					

#### Hardware Setting: Main Setup -> Hardware -> Video

1.Setting can only be viewed, but not changed.

2.Setting only affects MX800 with Integrated Display Interface and MP90 with dual CPU monitors.

3.Setting only affects MP90 with dual CPU monitors with a connected D80 Intelligent Display.

#### **Video Settings Configuration Implications**

**Standby/Boot** This setting can be changed in **service mode only**. It lets you change the presentation of the Standby/Boot Screen from the **Classic** look (photo of nurse and child in the background) to the **Basic** (black background) look.

**Resolution** This setting can be changed in **service mode only**. It only affects MX800 and MP90 monitors with more than one CPU and allows you to set the correct display resolution for external display. If you are using a display with a single fixed (native) resolution (such as LCD or Flat Panel displays), the optimal display quality can only be reached if the configured **Resolution** matches the native resolution of the display. Available choices range from **640x480(VGA)** to **1280x1024(SXGA)**.

**Display Type** This setting can be changed in service mode only. It only affects MX800 and MP90 monitors with more than one CPU and lets you set the correct display type for an external display. Available choices are **LCD** and **CRT**. The **Display Type** setting effects the available choices for the setting **Size** (see below). This is necessary because the size measurement of a CRT display encompasses the full face of the picture tube, including the part hidden by the bezel, whereas on LCD displays, only the viewable screen is measured.

Size This setting can be changed in service mode only. It only affects MX800 Independent Display Interface and MP90 monitors and lets you set the correct size of the external display. Size refers to the width of the display measured diagonally from one corner to the opposite corner of the viewable screen. The available choices depend on the choice made for the setting **Display Type** and range from 10.4" (210x160mm) to 60" (1330x750mm). It is important to configure the Size correctly to enable the monitor to calculate the correct sweep speed of measurement waves across the screen.

Example: you are using a 22" LCD display with a horizontal dimension of 490mm, but leave the **Size** at the factory default value which is 15", equaling a horizontal dimension of 300mm. An ECG wave with a wave speed set to 25mm/sec would normally need 19.6 sec to be drawn across a screen that is 490mm wide. With **Size** incorrectly set to 15" (300mm), the ECG wave will only need 12 sec. This is 1.6 times faster than it actually should be, resulting in an effective wave speed of about 41 mm/s.

The **Size** setting also affects the distance between menu entries in setup menus. If you want to optimize monitor operation for use with a touchscreen, make sure that both **Size** and **Menu Line Spacing** (see "Configuring User Interface Settings" on page 126) are set correctly.

## **Configuring Interfaces and Input Device Settings**

MX800 Interfaces and Input Device settings can be changed in service mode only and allow technical personnel to configure the behavior of connected interface boards and input devices. For detailed configuration

Only implications, please refer to the latest IntelliVue Service Guide.

#### Hardware Setting: Main Setup -> Hardware -> Interfaces

Factory Defaults									
Interface	Driver		Oper. Mode		Oper. Mode		Oper. Mode		Setting
		С	s	M					
Remote Device IF	SpeedPoint		x		Same Display <sup>1</sup>				
	Mouse/Keyb		x		Same Display <sup>1</sup>				
	Keyb/Mouse		x		Same Display <sup>1</sup>				
Input Device IF	Mouse/Keyb		x		Same Display <sup>1</sup>				
	Keyb/Mouse		x		Same Display <sup>1</sup>				
MIB/RS232	Touch 1		x		Same Display <sup>1</sup>				
	Touch 2		x		Same Display <sup>1</sup>				
	GM		x		n/a				
	DtOut1		x		n/a				
	DtOut2		x		n/a				

1.Setting available on MX800 and MP90 monitors with multiple main displays only.

# **Configuring SRR Channels**

#### X2/MP2/ Hardware Setting: Main Setup -> Hardware -> SRR Channel

- MP5 SRR channel settings only apply for monitors that have a short range radio interface installed. They must
  - only be set to match the hospital's wireless infrastructure. SRR channel settings are hardware settings and will be set by service personnel at installation.

Factory Defaults							
Item Name	Oper. Mode		r. le	X2/MP2/MP5			
	С	S	Μ				
Channel	x	x		11			

#### **SRR** Channel Settings Configuration Implications

**Channel** Use this setting to configure the SRR channel the monitor should use. SRR provides a total of 16 channels in the ISM (2.4 GHz) band. The ISM band is not exclusively reserved for SRR applications. It is also used by, for example, the 2.4 GHz Wireless LAN (WLAN), the 2.4 GHz IntelliVue Telemetry network, Bluetooth devices, and cordless phones using the 2.4GHz ISM band. Depending on the hospital's existing wireless infrastructure, a number of SRR channels might already be occupied by other wireless applications.

For detailed instructions on setting up SRR channels in a new or existing wireless infrastructure, refer to the IntelliVue Service Guide and contact a Philips service representative.

# **Configuring Bed Information Settings**

Item Name	( N	Ope Mod	r. le	MX800, MP2 - MP90
	С	S	Μ	MP5T, MP5SC
				X2
Equipment Label	х	x		<empty></empty>
Hospital Label	x	x		<empty></empty>
IP Address		x		0.0.0
Subnet Mask		x		0.0.0
Default Gateway		x		0.0.00
IGMP		x		Off
CI Mode		x		Broadcast
CI Address		x		0.0.0
CI TTL		х		1

Hardware Setting: Main Setup -> Bed Information

#### **Bed Information Configuration Implications**

**Equipment Label** The equipment label must be entered for each individual monitor. It is stored with the monitor, it is **not cloned**. If the monitor is connected to an Information Center, the equipment label on the bedside monitor is the equivalent of the monitor label on the Information Center. These labels must match exactly. The maximum length for the equipment label is 16 characters; Note that as the IntelliVue Information Center will display only up to 12 characters, if your monitor will be connected to an Information Center, you should use labels not longer than 12 characters.

**Hospital Label** The hospital label must be entered for each individual monitor. It is stored with the monitor, it is **not cloned**. Note that as an Information Center will display only up to 12 characters, if your monitor will be connected to an Information Center, you should use labels not longer than 12 characters. The maximum length for the hospital label is 30 characters.

**IP** Address This setting will typically be configured by service personnel at installation. See the IntelliVue Service Guide for details.

**Subnet Mask** This setting will typically be configured by service personnel at installation. See the IntelliVue Service Guide for details.

**Default Gateway** This setting will typically be configured by service personnel at installation. See the IntelliVue Service Guide for details.

**IGMP** This setting will typically be configured by service personnel at installation. See the IntelliVue Service Guide for details.

**CI Mode** This setting will typically be configured by service personnel at installation. See the IntelliVue Service Guide for details.

**CI Address** This setting will typically be configured by service personnel at installation. See the IntelliVue Service Guide for details.

**CI TTL** This setting will typically be configured by service personnel at installation. See the IntelliVue Service Guide for details.

# **Monitor Database Configuration**

#### Main Setup -> Databases -> Database Config

The monitor's database is divided into sections that store events, trends, calculations, and print information separately. In config mode, you can configure the size of the trends, events, and print sections to suit your monitoring needs. The overall database size is defined by the purchased database option.

- 1 Select Main Setup -> Databases -> Database Config to enter the Database Configurations menu.
- 2 To configure the database,
  - a. you can use the pop-up keys to change the overall database configuration,
  - Select the Select Smallest pop-up key to select the configuration that takes up least database space. This setting applies across all database sections.
  - Select the **Select Default** pop-up key to return to the default configuration.
  - Select the **Select Active** pop-up key to return to the configuration that was loaded prior to your changes. This cancels any changes you have made.

OR

- b. you can use the menu items to change individual sections of the database.
- Event Surveillance: In the Database Configurations menu, select Event
  Surveillance, then select the event database configuration you require from the list of available configurations.
- **Calcs**: The life time of a calculation is the life time of the vital signs (in the trend database) that were used for the calculation.
- Trends: in the Database Configurations menu, the currently active database configuration is shown, for example, the entry 32P 4h@12s 24h@1min 48h@5min tells you that the trends section of the database contains trend information on 32 measurement parameters from the past 4 hours at a resolution of 12 seconds, from the past 24 hours at a resolution of 1 minute, and from the past 48 hours at a resolution of 5 minutes.

To change the setting, select the database section you wish to change, then select the required configuration from the list of available settings.

- Trend Transport: The trend transport database is used for the trend data transport between two monitors. It allows to transport up to 50 periodic numerics of continues parameters and all aperiodic values independent of the trend database configuration. The Trend transport database is a fixed setting. In Configuration mode, the setting is shown grayed-out.
- Print Database: In the Database Configurations menu, select Print Database, then select the database configuration you require from the list of available configurations.
- 12 Lead ECG: In the Database Configurations menu, select 12 Lead ECG, then select the database configuration you require from the list of available configurations.
- 3 Select the **Store Config** pop-up key to store your changes. You will be prompted to confirm this action. Selecting **Confirm** stores your changes.
- **CAURN** Selecting the **Store Config** pop-up key causes a coldstart, i.e. it discharges the patient, resets all settings to the default profile, and erases all information in the database. The monitor will automatically be switched off and then on again.

#### **Calculations Database**

The calculations database stores up to 50 calculations. This configuration cannot be changed, hence in Configuration mode, this setting is shown grayed-out.

#### Trend Database

This table illustrates the trend database configurations and their defaults for the different monitors with their H and database options.

Trend Database for IntelliVue Patient Monitors							
MX800	Maximal n	umber of parar	neters (P) in the	e past time (h) in resolution (s/min)			
Options H10/H30/H40	50P	12h@12s	48h@1min	96h@5min (default)			
	16P	4h@12s	24h@1min	48h@5min			

Trend Database for IntelliVue Patient Monitors									
Option H20	50P	12h@12s	48h@1min	96h@5min (default)					
	24P	24h@12s	24h@1min	24h@5min					
	16P	4h@12s	24h@1min	48h@5min					
MP5 - MP90, MP5T, (MP2 and X2 without H Option - see Option H10/40 below)									
Options H10/H40	16P	4h@12s	24h@1min	48h@5min (default)					
Option H20	12P	9h@12s	24h@1min	24h@5min (default)					
	16P	4h@12s	24h@1min	48h@5min					
Option H30	16P	5h@12s	24h@1min	24h@5min (default)					
	16P	4h@12s	24h@1min	24h@5min					
MP60 - MP90 with Extended Databa	se (Option (	C <b>03</b> )							
Options H10/H40	16P	4h@12s	24h@1min	48h@5min					
	24P		48h@1min	72h@5min					
	32P	2h@12s	32h@1min	48h@5min					
	32P	4h@12s	24h@1min	48h@5min					
	50P	2h@12s	32h@1min	48h@5min					
	50P	4h@12s	24h@1min	48h@5min (default)					
	50P	12h@12s	48h@1min	96h@5min <sup>1</sup> (default)					
Option H20	16P	4h@12s	24h@1min	48h@5min					
	12P	9h@12s	24h@1min	24h@5min					
	24P	9h@12s	24h@1min	24h@5min (default)					
	24P	12h@12s	12h@1min	12h@5min					
	12P	24h@12s	24h@1min	24h@5min					
	24P	24h@12s	24h@1min	24h@5min <sup>1</sup>					
	50P	12h@12s	48h@1min	96h@5min <sup>1</sup> (default)					
Option H30	16P	4h@12s	24h@1min	48h@5min					
	16P	5h@12s	24h@1min	24h@5min					
	32P	5h@12s	24h@1min	24h@5min					
	24P	12h@12s	12h@1min	12h@5min					
	32P	9h@12s	12h@1min	12h@5min					
	50P	5h@12s	24h@1min	24h@5min (default)					
	50P	12h@12s	48h@1min	96h@5min <sup>1</sup> (default)					

1.For Monitors with more than 8 MB data flash memory (hardware revision equal or higher than B.00.18)

### **Aperiodic Trend Database**

The IntelliVue patient monitor provides a second trend database exclusively reserved for aperiodic parameters. Aperiodic parameters are parameters that are measured intermittently, such as NBP, C.O., C.I., PAWP (Wedge), manually entered measurements, or lab results from external devices obtained from the VueLink or IntelliBridge plug-in module.

The aperiodic database can store a maximum of 600 individual measurements, and in addition up to 200 NBP measurements.

Note that the information stored in the aperiodic database does not contribute to the maximum number of parameters as defined by the monitor's database option (Standard or #C03). This means that aperiodic parameters do not count towards the max. number of trended parameters allowed and therefore do not have to be considered when configuring the Trend Priorities, see "Configuring Trend Priorities" on page 140.

### **Trend Transport Database**

The trend transport database is used for the trend data transport between two monitors. It allows to transport up to 50 periodic numerics of continues parameters (50P 8h@1min) and all aperiodic values independent of the trend database configuration. You are not able to change this setting, hence in Configuration mode, this setting is shown grayed-out.

### **Event Surveillance Database**

This table illustrates the default event database configurations available with different event options:

	Option C06, Basic Event Surveillance	Option C07, Advanced Event Surveillance	Option C04, Neonatal Event Review (NER)
	None	None	None
	25 events for 24 hours	25 events for 24 hours	25 events for 24 hours
Database capability		25 events for 8 hours	25 events for 8 hours
		50 events for 8 hours	50 events for 8 hours
		50 events for 24 hours	50 events for 24 hours

### **Print Database**

Default Print Database Configurations							
Options	MX800,	MP2/X2					
	MP20 - MP90	MP5					
Database capability	Small <sup>1</sup>	Large					

1.For MP60-90 with less than 8MB data flash memory (hardware revision lower than B.00.18) this setting is to set NONE.

Report types differ considerably in their storage space requirements. ECG Reports, for example, are large reports and require much space, whereas VitalsReports are much smaller. Therefore, it cannot be clearly specified how many reports can be stored in the print database.

With **Print Database** set to **Small**, it can, for example, store about five 3x4 ECG Reports, but only one 12x1 ECG Report.

The **Large** database is only recommended for monitors used in transport. It is about four times larger than the **Small** database and can store more reports accordingly. Note that the **Large** database might not be available for selection if the Event Surveillance database and the Trend database are configured to large sizes. To disable the **Print Database**, set it to **None**.

# 12 Lead ECG Database

The maximum number of 12 Lead ECG is **1** capture. This database ensures that a captured 12 lead ECG is still available after a monitor reboot. To disable the **12** Lead ECG database storage, set it to **None**. In this case, the the 12 Lead ECG database's memory capacity can be used to enlarge another database.

# **H** Option-Specific Settings

Depending on the H option installed on the monitor, the following settings may be affected regardless of the configuration file loaded onto the monitor:

- Default trend database option and available trend database options, see "Trend Database" on page 207.
- Supported HighResolution Waves, see "Changing the Content of a High Resolution Trend Element" on page 23.
- Support for gas analyzer: only H30 supports the use of a gas analyzer with the IntelliVue monitor.
- Activated Event Groups, see "Configuring Event Surveillance" on page 144.
- Monitor name on Boot/Standby Screen:
  - H10: The Philips Critical Care Patient Monitor ...
  - H20: The Philips Neonatal Patient Monitor ...
  - H30: The Philips Anesthesia Patient Monitor ...
  - H40: The Philips Critical/Cardiac Care Patient Monitor ...

# **Release-Specific Information**

# **H.0** Configuration Changes

For IntelliVue patient monitor Release H.0, the initial configuration settings were modified compared to Release G.0. These changes are documented below. The table lists new settings, settings which have been renamed, and settings for which the defaults have been changed.

The changes are listed based on the monitor model and option. No 'x' indicates that the change does not apply for the related model/option between G.0 and H.0.

New or renamed settings in H.0 Settings with changed defaults in H.0 (Text in brackets shows G.0 setting/default)		Type of change	MX800, MP20 - 90				MP20	MP5	5#P05	2, X2
			H10	H20	H30	H40	#M20 #M21	All H Options	MP5 SC, MP5	MP
"Measurement Settings" on page 33										
ECG	Sync Out Chan 1, 2	new setting			]	MX80	0 onl	у		
	Filter < Ext. Monitor	setting enhanced for patient category Adult	x	х	x	x	x	x	x	x
Capture 12 Lead	Filter	new setting	x	х	х	x	x	x	x	х
	Gain	new setting	x	х	х	x	x	x	x	x
	Chest Gain	new setting	x	х	x	x	х	x	x	х
	Paper Speed	new setting	x	х	х	x	х	x	x	х
	Format	new setting	x	х	х	x	х	x	x	x
	Time	new setting	x	х	х	x	х	x	x	x
	Rhythm Lead 1, 2, 3	new setting	x	х	х	x	х	x	x	x
	Lead Sequence	new setting	x	х	х	x	х	x	x	x
ECG/Pulse Alarms	Inop"PULS NO AL"	new setting	x	х	x	x	x	x	x	x
SpO <sub>2</sub>	SmartAlarmDelay	new setting	x	х	х	x	x	x	x	х
	High Alarm Delay	new setting	x	х	х	x	x	x	x	х
	Low Alarm Delay	if SmartAlarmDelay is set to On	x	х	х	х	x	x	x	x
NBP	Mode	setting renamed	х	х	х	x	x	x	х	х
	(Auto/Manual)									
	Phase A, B, C, D	setting renamed	x	х	х	x	x	x	x	x
	(Sequence A, B, C, D)									
	Repeat Time	setting renamed	x	х	х	x	x	x	x	x
	(Repetition Time)									

New or renamed settings in H.0		Type of change	MX800, MP20 - 90				MP20	MP5	#P05	2, X2
Settings with changed defaults in H.0			<u> </u>					su	MP5	MP
(Text in brackets shows G.0 setting/default)			H10	H20	H30	H40	#M20 #M2	All H Optio	MP5 SC,	
"Monitor Settings"	on page 95					1 1				
Network	Auto Win Disable	new setting	x	x	x	x	x	x	x	x
	Setup IIT	new menu					1 1			
	IIT	new setting	X2, MP2, MP5, MP20/30, MP40/50							
	RF Access Code	setting moved to Setup IIT								
Reports	12 Lead Rep.	new setting	x	x	x	x	x	x	x	x
User Interface	Oper. 1 RemCtrl	new setting	x	x	x	x	x			
	Oper. 2 RemCtrl [MP90/MX800 with more	new setting	x	х	х	x				
	than one CPU]									
Setup VitalSigns	Timeline	new setting	x	x	x	x	x	x	x	x
	Timeline	new setting	x v	x v	x v	x v	x v	x v	x v	x v
SetupGraph Irends			^	л	л	~	~	л	~	~
Vital Signs Recording	Column	new setting	x	х	х	х	х	x	х	
Vital Signs Report	Column	new setting	x	x	x	x	x	x	x	
Automatic VS	Interval	new setting							x	
[from SpotCheck Monitoring]	Interval Time	new setting							x	
	NBP	new setting							x	
	SpO <sub>2</sub>	new setting							х	
	Patient Alarm	new setting							x	
"Unique Monitor S	ettings" on page 136									
Timers	TimerB	maximum numbers of timer for MP5 increased to 2 timers						x	x	
"Global Settings" on page 168										
Main Setup	Sensor Disconnct	new setting	x	x	x	x	x	x	x	x
	QuickAdmit	setting renamed	x	х	х	x	x	x	x	x
	(Quick Admit Field)									
	Demograph Fields	setting increased	x	x	x	x	x	x	x	x
	Auto Discharge	new setting	x	x	x	x	x	x	x	x
Auto Discharge	Power Off	new setting	x	x	x	x	x	x	x	x
	Standby	new setting	x	x	х	x	x	x	x	x
	No Basic Vitals	new setting	х	х	x	x	х	х	х	х

New or renamed settings in H.0 Settings with changed defaults in H.0 (Text in brackets shows G.0 setting/default)		Type of change	MX	IX800, MP20 -	- 90	MP20	MP5	5#P05	P2, X2	
			H10	H20	H30	H40	#M20 #M21	All H Options	MP5 SC, MP	M
Internal PC	Auto Start PC	new setting	]	MX800 only						
	PC Audio	new setting	MX800 only							
"Hardware Settings" on page 200										
Main Setup	Data Export 1, 2 (Data Export)	setting renamed	x	x	x	x	x	x	x	x
	Wireless LAN Settings	setting moved into Service Mode	x	х	x	х	x	х	х	х
"Monitor Database Configuration" on page 206										
Database Config	Trends	settings increased	x	x	x	x	x	х	x	x
	Trend Transport	new setting	x	х	х	х	x	х	х	x
	Print Database	new default settings (for MP 60-90 with < 4MB data flash memory only)	x	x	x	x				
	12 Lead ECG	new setting	x	x	x	x	x	x	x	x

# **Screen & Profile Overview**

This appendix documents the Screens and Profiles configured for each monitor model in the factory. If you make changes to Screens or Profiles, this document will no longer reflect the factory default configuration. You then must create you own reference by storing printouts and/or electronic images of the Screens you design.

In the **Configuration Overview** section starting on page 222, the factory default Profiles supplied with each possible combination of options are listed.

The Screen Overview section starting on page 250 gives an overview of all initial and demo configuration Screen names for this monitor release. To view or print bitmaps of all Screens supplied with a specific initial or demo configuration, on the Documentation DVD supplied with your IntelliVue monitor, navigate to the folder Documentation\G.0\Configuration Guide\Screen Configurations and open/print the pdf document that has the same name as the required configuration file.

The initial configuration of your monitor may vary slightly depending on your geography and on the options purchased. The Screens documented here may be subject to slight changes.

# **About the Screen Configurations**

When a Screen is created using the Support Tool, the information in the Screen is saved in two formats:

- .rds: this format contains Screen information and can only be read by the Support Tool
- .png: a bitmap image is created for each Screen. Each Screen field is labelled to tell you which waves, numerics, SmartKeys, and special elements such as screen trends or ST snippets have been configured onto the Screens, and a date stamp tells you when the Screen was last modified.

### **Application Areas**

The H Option purchased with the monitor defines the clinical application area for which the Screens are designed.

- Option H10 Screens are designed for general purposes
- Option H20 Screens are designed for neonatal application areas
- Option H30 Screens are designed for anesthesia application areas
- Option H40 Screens are designed for cardiac care application areas.

#### Wave Options

The A Option purchased with the monitor defines the number of waves that can be shown on any Screen. With A12, up to twelve waves can be shown on a Screen, with A06, up to six waves can be shown, and so on.

### Using the Screen Library

This Appendix lists the Screens that are supplied with the initial monitor configurations and the Screens available in the demo configuration file. The demo configuration includes Screens that feature, for example:

- Screen Trends, allowing you to display trend segments embedded in the Screen. These could be entitled e.g.: G-08W-3Press-Split-Screen Trend-xga-Rev004.rds.
- ST Snippets, allowing you to display the current ST snippets superimposed over the baseline snippet permanently on the Screen. These could be entitled e.g.: C-05W-2Press-03ST-snippets-xga-Rev003.rds.
- Visitors Screen, allowing you to hide all waves and numerics for the duration of visiting time. This could be entitled e.g.: G-visitor-screen01-xga-Rev005.rds
- Example of SXGA Screen. This could be entitled: G-12W-1x3ovl-2x2ovl-1split-sxga-Rev004.rds

Other Screens that are not included in the config files provided by the factory can be found in the screen library of the Support Tool.
# Sample Screen Image (.bmp)



Element, abbreviation		Contains.			
1	Fixed Area	alarm message fields, patient information, etc. Cannot be modified with the Support Tool			
2	Wave field, W	wave label, e.g. "Primary Lead".			
3	Numeric fields, N	numeric label e.g. "aligned" for numerics automatically assigned with the adjacent wave.			
4	ST snippet, ST	ST label, e.g. "ST II".			
5	SmartKey list	list of SmartKeys in the order they will appear on Screen from left to right.			
6	High Res Trends, HW	high resolution trends label, e.g. "btbHR".			
7	Screen trends, T	Screen trend label, e.g. Temp.			
8	Alignment Groups	numbers in gray shaded boxes indicate different alignment groups			
9	Fixed Area	Permanent Keys, current operating mode, monitor status prompts. Cannot be modified with Support Tool.			
10	SmartKey area, SKA	SmartKeys in the order listed at 5.			
11	Filename and path	the Screen filename and the path on the harddrive where the Screen was stored. The .rds format contains the Screen itself, the .bmp format contains the reference image.			
12	Checksum	Unique identifier for the Screen			

# **MX800** Configuration Overview

#### **Option H10**

The H10 initial configuration filename is MX800, H10 Axx, WSXGA+, initial, H.0x.xx, Revxxx.cfg.

Profiles								
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display 1	Display 2	Monitor Settings Block	Meas. Settings Block
Adult	yes	yes	Adult	Paced	A12: 12 Waves	A12: 6Waves	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	A08: 8 Waves	es A08: 6Waves es A06: 4Waves	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	A00. 0 waves		Monitor A	Measmt. Neo

Monitor Settings Blocks				
Name	Locked			
Monitor A	yes			

Measurement Settings Blocks				
Name	Locked			
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens						
A12	Locked	A08	Locked	A06	Locked	
Service A	no	Service A	no	Service A	no	
12 Waves	no	8 Waves	no	6 Waves	no	
8 Waves	no	Overlapping A	no	Overlapping A	no	
Overlapping A	no	Overlapping B	no	Overlapping B	no	
Overlapping B	no	Dynamic Waves	no	Dynamic Waves	no	
Dynamic Waves	no	6 Waves	no	4 Waves	no	
6 Waves	no	Overlapping	no	Overlapping	no	
Overlapping	no	4 Waves	no	SSC Sepsis	no	
4 Waves	no	SSC Sepsis	no	Horizon	no	
SSC Sepsis	no	Horizon	no	Big Numerics	no	
Horizon	no	Big Numerics	no	EEG CSA	no	
Big Numerics	no	EEG CSA	no	12 Lead ECG	no	
EEG CSA	no	12 Lead ECG	no	Visitors	no	
12 Lead ECG	no	Visitors	no			
Visitors	no					

# **Option H20**

The H20 initial configuration filename is MX800, H20 Axx, WSXGA+, initial, H.0x.xx, Revxxx.cfg.

Profil
Drofile

Protiles	rotiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display 1	Display 2 (MP90 only)	Monitor Settings Block	Meas. Settings Block
Neo	yes	yes	Neo	Non-Paced	A12: OxyCRG B	A12: 12 Waves	Monitor A	Measmt. Neo
Pedi	no	yes	Pedi	Non-Paced	A08: OxyCRG B A06: OxyCRG A	A08: 8 Waves A06: 6 Waves	Monitor A	Measmt. Pedi

Monitor Settings Blocks				
Name Locked				
Monitor A	yes			

Measurement Settings Blocks				
Name	Locked			
Measmt. Neo	yes			
Measmt. Pedi	yes			

Screens							
A12	Locked	A08	Locked	A06	Locked		
Service A	no	Service A	no	Service A	no		
Oxy CRG A	no	OxyCRG A	no	OxyCRG A	no		
Oxy CRG B	no	OxyCRG B	no	OxyCRG B	no		
Oxy CRG C	no	8 Waves	no	6 Waves	no		
12 Waves	no	Overlapping A	no	Overlapping A	no		
8 Waves	no	Overlapping B	no	Overlapping B	no		
Overlapping A	no	Dynamic Waves	no	Dynamic Waves	no		
Overlapping B	no	6 Waves	no	4 Waves	no		
Dynamic Waves	no	Overlapping	no	Overlapping	no		
6 Waves	no	4 Waves	no	SSC Sepsis	no		
Overlapping	no	SSC Sepsis	no	Horizon	no		
4 Waves	no	Horizon	no	Big Numerics	no		
SSC Sepsis	no	Big Numerics	no	12 Lead ECG	no		
Horizon	no	12 Lead ECG	no	Visitors	no		
Big Numerics	no	Visitors	no		·		
12 Lead ECG	no		·				
Visitors	no						

The H30 initial configuration filename is MX800, H30 Axx, WSXGA+, initial, H.0x.xx, Revxxx.cfg.

Profiles										
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display 1	Display 2	Monitor Settings Block	Meas. Settings Block		
Adult	yes	yes	Adult	Paced	A12: 12 Waves	6 Waves	Monitor A	Measmt. Adult		
Pedi	no	yes	Pedi	Non-Paced	A08: BIS	A08: BIS	A08: BIS		Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	A00. D15		Monitor A	Measmt. Neo		

Monitor Settings Blocks				
Name	Locked			
Monitor A	yes			

Measurement Settings Blocks				
Name	Locked			
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens						
A12 Locke		A08	Locked	A06	Locked	
Service A	no	Service A	no	Service A	no	
12 Waves	no	BIS	no	BIS	no	
BIS	no	8 Waves	no	6 Waves	no	
8 Waves	no	Overlapping A	no	Overlapping A	no	
Overlapping A	no	Overlapping B	no	Overlapping B	no	
Overlapping B	no	Dynamic Waves	no	Dynamic Waves	no	
Dynamic Waves	no	6 Waves	no	4 Waves	no	
6 Waves	no	Overlapping	no	Overlapping	no	
Overlapping	no	4 Waves	no	SSC Sepsis	no	
4 Waves	no	SSC Sepsis	no	Horizon	no	
SSC Sepsis	no	Horizon	no	Big Numerics	no	
Horizon	no	Big Numerics	no	EEG CSA	no	
Big Numerics	no	EEG CSA	no	12 Lead ECG	no	
EEG CSA	no	12 Lead ECG	no	Visitors	no	
12 Lead ECG	no	Visitors	no			
Visitors	no		•			

The H40 initial configuration filename is MX800, H40 Axx, WSXGA+, initial, H.0x.xx, Revxxx.cfg.

Profiles								
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display 1	Display 2	Monitor Settings Block	Meas. Settings Block
Adult	yes	yes	Adult	Paced	A12: 12 Waves	12 Lead ECG	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	A08: 8 Waves		Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	100.0 Waves		Monitor A	Measmt. Neo

Monitor Settings Blocks		
Name	Locked	
Monitor A	yes	

Measurement Settings Blocks				
Name	Locked			
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens	Screens					
A12 Locked		A08	Locked	A06	Locked	
Service A	no	Service A	no	Service A	no	
12 Waves	no	8 Waves	no	6 Waves	no	
8 Waves	no	Overlapping A	no	Overlapping A	no	
Overlapping A	no	Overlapping B	no	Overlapping B	no	
Overlapping B	no	Dynamic Waves	no	Dynamic Waves	no	
Dynamic Waves	no	6 Waves	no	4 Waves	no	
6 Waves	no	Overlapping	no	Overlapping	no	
Overlapping	no	4 Waves	no	SSC Sepsis	no	
4 Waves	no	SSC Sepsis	no	Horizon	no	
SSC Sepsis	no	Horizon	no	Big Numerics	no	
Horizon	no	Big Numerics	no	EEG CSA	no	
Big Numerics	no	EEG CSA	no	ST MAP	no	
EEG CSA	no	ST MAP	no	7 Lead ECG	no	
ST MAP	no	7 Lead ECG	no	12 Lead ECG	no	
7 Lead ECG	no	12 Lead ECG	no	Visitors	no	
12 Lead ECG	no	Visitors	no			
Visitors	no		•			

# MP60/MP70/MP80/MP90 Configuration Overview

#### **Option H10**

The H10 initial configuration filename is MP60-90, H10 Axx, XGA, initial, H.0x.xx, Revxxx.cfg.

Profiles	Profiles														
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display 1	Display 2 (MP90 only)	Monitor Settings Block	Meas. Settings Block							
Adult	yes	yes	Adult	Paced	A12: 12 Waves	A12: 12 Waves	Monitor A	Measmt. Adult							
Pedi	no	yes	Pedi	Non-Paced	A08: 8 Waves	A08: 8 Waves	A08: 8 Waves	A08: 8 Waves	A08: 8 Waves	A08: 8 Waves	A08: 8 Waves	A08: 8 Waves	A08: 8 Waves A08: 8 Waves	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	A00: 0 waves A04: 4 Waves	A04: 4 Waves	Monitor A	Measmt. Neo							

Monitor Settings Blocks			
Name	Locked		
Monitor A	yes		

Measurement Settings Blocks			
Name	Locked		
Measmt. Adult	yes		
Measmt. Pedi	yes		
Measmt. Neo	yes		

Screens	Screens							
A12	Locked	A08	Locked	A06	Locked	A04	Locked	
Service A	no	Service A	no	Service A	no	Service A	no	
12 Waves	no	8 Waves		6 Waves		4 Waves	no	
8 Waves	no	Overlapping A	no	Overlapping A	no	Overlapping	no	
Overlapping A	no	Overlapping B	no	Overlapping B	no	SSC Sepsis	no	
Overlapping B	no	6 Waves	no	4 Waves	no	Horizon	no	
6 Waves	no	Overlapping	no	Overlapping	no	Big Numerics	no	
Overlapping	no	4 Waves	no	SSC Sepsis	no	EEG CSA	no	
SSC Sepsis	no	SSC Sepsis	no	Horizon	no	12 Lead ECG	no	
Horizon	no	Horizon	no	Big Numerics	no	Visitors	no	
Big Numerics	no	Big Numerics	no	EEG CSA	no			
12 Lead ECG	no	12 Lead ECG	no	12 Lead ECG	no			
Visitors	no	Visitors	no	Visitors	no			

The H20 initial configuration filename is MP60-90, H20 Axx, XGA, initial, H.0x.xx, Revxxx.cfg.

Profiles								
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display 1	Display 2 (MP90 only)	Monitor Settings Block	Meas. Settings Block
Neo	yes	yes	Neo	Non-Paced	A12: OxyCRG A	A12: OxyCRG A	Monitor A	Measmt. Neo
Pedi	no	yes	Pedi	Non-Paced	A08: OxyCRG A A06: OxyCRG A A04: OxyCRG	A08: OxyCRG A A06: OxyCRG A A04: OxyCRG	Monitor A	Measmt. Pedi

Monitor Settings Blocks			
Locked			
yes			

Measurement Settings Blocks				
Name	Locked			
Measmt. Neo	yes			
Measmt. Pedi	yes			

Screens	creens							
A12	Locked	A08	Locked	A06	Locked	A04	Locked	
Service A	no	Service A	no	Service A	no	Service A	no	
OxyCRG A	no	OxyCRG A	no	OxyCRG A	no	OxyCRG	no	
OxyCRG B	no	OxyCRG B	no	OxyCRG B	no	4 Waves	no	
OxyCRG C	no	8 Waves	no	6 Waves	no	Overlapping	no	
8 Waves	no	Overlapping A	no	Overlapping A	no	SSC Sepsis	no	
Overlapping A	no	6 Waves	no	4 Waves	no	Horizon	no	
6 Waves	no	Overlapping B	no	Overlapping B	no	Big Numerics	no	
Overlapping B	no	4 Waves	no	SSC Sepsis	no	EEG CSA		
SSC Sepsis	no	SSC Sepsis	no	Horizon	no	12 Lead ECG	no	
Horizon	no	Horizon	no	Big Numerics	no	Visitors	no	
Big Numerics	no	Big Numerics	no	12 Lead ECG	no			
12 Lead ECG	no	12 Lead ECG	no	Visitors	no			
Visitors	no	Visitors	no			_		

The H30 initial configuration filename is MP60-90, H30 Axx, XGA, initial, H.0x.xx, Revxxx.cfg.

Profiles									
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display 1	Display 2 (MP90 only)	Monitor Settings Block	Meas. Settings Block	
Adult	yes	yes	Adult	Paced	A12: 12 Waves	A12: 6 Waves	Monitor A	Measmt. Adult	
Pedi	no	yes	Pedi	Non-Paced	A08: BIS	A08: 6 Waves	Monitor A	Measmt. Pedi	
Neo	no	yes	Neo	Non-Paced	A04: BIS	A00: 0 waves A04: 4Waves	Monitor A	Measmt. Neo	

Monitor Settings Blocks			
Name	Locked		
Monitor A	yes		

Measurement Settings Blocks				
Name	Locked			
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens								
A12	Locked	A08	Locked	A06	Locked	A04	Locked	
Service A	no	Service A	no	Service A	no	Service A	no	
12 Waves	no	BIS	no	BIS	no	BIS	no	
BIS	no	Overlapping A	no	6 Waves		4 Waves	no	
Overlapping A	no	Overlapping B	no	Overlapping A	no	Overlapping	no	
Overlapping B	no	6 Waves	no	Overlapping B	no	SSC Sepsis	no	
6 Waves	no	Overlapping	no	4 Waves	no	Horizon	no	
Overlapping	no	4 Waves	no	Overlapping	no	Big Numerics	no	
SSC Sepsis	no	SSC Sepsis	no	SSC Sepsis	no	EEG CSA	no	
Horizon	no	Horizon	no	Horizon	no	12 Lead ECG	no	
Big Numerics	no	Big Numerics	no	Big Numerics	no	Visitors	no	
12 Lead ECG	no	12 Lead ECG	no	12 Lead ECG	no			
Visitors	no	Visitors	no	Visitors	no			

The H40 initial configuration filename is MP60-90, H40 Axx, XGA, initial, H.0x.xx, Revxxx.cfg.

Profiles	Profiles									
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display 1	Display 2 (MP90 only)	Monitor Settings Block	Meas. Settings Block		
Adult	yes	yes	Adult	Paced	A12: 12 Waves	12 Lead ECG	Monitor A	Measmt. Adult		
Pedi	no	yes	Pedi	Non-Paced	A08: 8Waves	12 Lead ECG	Monitor A	Measmt. Pedi		
Neo	no	yes	Neo	Non-Paced	A04: 4Waves	12 Lead ECG	Monitor A	Measmt. Neo		

Monitor Settings Blocks				
Name	Locked			
Monitor A	yes			

Measurement Settings Blocks				
Name	Locked			
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens	Screens								
A12	Locked	A08	Locked	A06	Locked	A04	Locked		
Service A	no	Service A	no	Service A	no	Service A	no		
12 Waves	no	8 Waves	no	6 Waves	no	4 Waves	no		
8 Waves	no	Overlapping A	no	Overlapping A	no	Overlapping	no		
Overlapping A	no	Overlapping B	no	Overlapping B	no	SSC Sepsis	no		
Overlapping B	no	6 Waves	no	4 Waves	no	Horizon	no		
6 Waves	no	Overlapping	no	Overlapping	no	Big Numerics	no		
Overlapping	no	4 Waves	no	SSC Sepsis	no	EEG CSA	no		
SSC Sepsis	no	SSC Sepsis	no	Horizon	no	12 Lead ECG	no		
Horizon	no	Horizon	no	Big Numerics	no	Visitors	no		
Big Numerics	no	Big Numerics	no	EEG CSA	no				
12 Lead ECG	no	12 Lead ECG	no	12 Lead ECG	no	1			
Visitors	no	Visitors	no	Visitors	no				

# MP40/MP50 Configuration Overview

#### **Option H10**

The H10 initial configuration filename is MP40-50, H10 Axx, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Adult	yes	yes	Adult	Paced	A08: 8Waves	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	A06: 6 Waves	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	104. 4 waves	Monitor A	Measmt. Neo

Monitor Settings Blocks				
Name	Locked			
Monitor A	yes			

Measurement Settings Blocks				
Name Locked				
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens						
A08	Locked	A06	Locked	A04	Locked	
Service A	no	Service A	no	Service A	no	
8 Waves	no	6 Waves	no	4 Waves A		
6 Waves	no	Overlapping	no	4 Waves B	no	
Overlapping	no	Split Screen A	no	Overlapping	no	
Split Screen A	no	4 Waves A no		Split Screen A	no	
4 Waves A	no	4 Waves B	no	3 Waves A	no	
4 Waves B	no	Split Screen B	no	3 Waves B	no	
Split Screen B	no	3 Waves	no	Split Screen B	no	
SSC Sepsis	no	SSC Sepsis	no	SSC Sepsis	no	
Horizon	no	Horizon	no	Horizon	no	
Big Numerics	no	Big Numerics	no	Big Numerics	no	
12 Lead ECG	no	12 Lead ECG no 12 Lead ECG		12 Lead ECG	no	
Visitors	no	Visitors no		Visitors	no	

The H20 initial configuration filename is MP40-50, H20 Axx, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Neo	yes	yes	Neo	Non-Paced	A08: OxyCRG A	Monitor A	Measmt. Neo
Pedi	no	yes	Pedi	Non-Paced	A06: OxyCRG A A04: OxyCRG	Monitor A	Measmt. Pedi

Monitor Settings Blocks				
Name Locked				
Monitor A	yes			

Measurement Settings Blocks				
Name Locked				
Measmt. Neo	yes			
Measmt. Pedi	yes			

Screens					
A08 Locked		A06	Locked	A04	Locked
Service A	no	Service A	no	Service A	no
OxyCRG A	no	OxyCRG A	no	OxyCRG	no
OxyCRG B	no	OxyCRG B	no	4 Waves A	no
8 Waves	no	6 Waves	no	4 Waves B	no
6 Waves	no	Overlapping	no	Overlapping	no
Overlapping	no	4 Waves A	no	3 Waves A	no
4 Waves A	no	4 Waves B	no	3 Waves B	no
4 Waves B	no	3 Waves	no	Split Screen	no
SSC Sepsis	no	SSC Sepsis	no	SSC Sepsis	no
Horizon	no	Horizon	no	Horizon	no
Big Numerics	no	Big Numerics	no	Big Numerics	no
12 Lead ECG	no	12 Lead ECG	no	12 Lead ECG	no
Visitors	no	Visitors	no	Visitors	no

The H30 initial configuration filename is MP40-50, H30 Axx, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Adult	yes	yes	Adult	Paced	A08: 8Waves	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	A06: BIS	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	7104, D15	Monitor A	Measmt. Neo

Monitor Settings Blocks				
Name Locked				
Monitor A	yes			

Measurement Settings Blocks				
Name	Locked			
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens					
A08 Locked		A06	Locked	A04	Locked
Service A	no	Service A	no	Service A	no
8 Waves	no	BIS	no	BIS	no
BIS	no	6 Waves A	no	4 Waves A	no
6 Waves A	no	6 Waves B	no	4 Waves B	no
6 Waves B	no	Overlapping	no	Overlapping	no
Overlapping	no	Split Screen	no	Split Screen	no
Split Screen	no	4 Waves A	no	3 Waves A	no
4 Waves	no	4 Waves B	no	3 Waves B	no
SSC Sepsis	no	SSC Sepsis	no	SSC Sepsis	no
Horizon	no	Horizon	no	Horizon	no
Big Numerics	no	Big Numerics	no	Big Numerics	no
12 Lead ECG	no	12 Lead ECG	no	12 Lead ECG	no
Visitors	no	Visitors	no	Visitors	no

The H40 initial configuration filename is MP40-50, H40 Axx, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles								
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block	
Adult	yes	yes	Adult	Paced	A08: 8Waves	Monitor A	Measmt. Adult	
Pedi	no	yes	Pedi	Non-Paced	A06: 6 Waves	Monitor A	Measmt. Pedi	
Neo	no	yes	Neo	Non-Paced	104. 4 waves 11	Monitor A	Measmt. Neo	

Monitor Settings Blocks				
Name Locked				
Monitor A	yes			

Measurement Settings Blocks				
Name Locked				
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens					
A08	Locked	A06	Locked	A04	Locked
Service A	no	Service A	no	Service A	no
8 Waves	no	6 Waves	no	4 Waves A	no
6 Waves	no	Overlapping	no	4 Waves B	no
Overlapping	no	Split Screen A	no	Overlapping	no
Split Screen A	no	ST Segments	no	Split Screen A	no
ST Segments	no	4 Waves A	no	ST Segments	no
4 Waves	no	4 Waves B	no	3 Waves	no
Split Screen B	no	Split Screen B	no	Split Screen B	no
SSC Sepsis	no	SSC Sepsis	no	SSC Sepsis	no
Horizon	no	Horizon	no	Horizon	no
Big Numerics	no	Big Numerics	no	Big Numerics	no
12 Lead ECG	no	12 Lead ECG	no	12 Lead ECG	no
Visitors	no	Visitors	no	Visitors	no

# MP20/MP30 Configuration Overview

For an overview of the configurations supplied with the models MP20 Junior and MP20L, see "MP20 Junior & MP20L Configuration Overview" on page 234.

#### **Option H10**

The H10 initial configuration filename is MP20-30, H10 Axx, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Adult	yes	yes	Adult	Paced	A06: 6Waves	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	A04: 4Waves	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	110 <i>5</i> . <i>5</i> waves 11	Monitor A	Measmt. Neo

Monitor Settings Blocks			
Name Locked			
Monitor A	yes		

Measurement Settings Blocks				
Name Locked				
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens					
A06	Locked	A04	Locked	A03	Locked
Service A	no	Service A	no	Service A	no
6 Waves	no	4 Waves A	no	3 Waves A	no
Overlapping	no	4 Waves B	no	3 Waves B	no
Split Screen A	no	Overlapping	no	3 Waves C	no
4 Waves A	no	Split Screen A	no	Overlapping	no
4 Waves B	no	3 Waves A	no	Split Screen	no
Split Screen B	no	3 Waves B	no	2 Waves A	no
3 Waves	no	Split Screen B	no	2 Waves B	no
Horizon	no	Horizon	no	Horizon	no
Big Numerics	no	Big Numerics	no	Big Numerics	no
12 Lead ECG	no	12 Lead ECG	no	12 Lead ECG	no
Visitors	no	Visitors	no	Visitors	no

The H20 initial configuration filename is MP20-30, H20 Axx, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Pedi	no	yes	Pedi	Non-Paced	A06: OxyCRG A	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	A04: OxyCRG A03: CRG	Monitor A	Measmt. Neo

Monitor Settings Blocks		
Name	Locked	
Monitor A	yes	

Measurement Settings Blocks				
Name Locked				
Measmt. Pedi	yes			
Measmt. Neo yes				

Screens					
A06	Locked	A04	Locked	A03	Locked
Service A	no	Service A	no	Service A	no
OxyCRG A	no	OxyCRG	no	CRG	no
OxyCRG B	no	4 Waves A	no	3 Waves A	no
6 Waves	no	4 Waves B	no	3 Waves B	no
Overlapping	no	Overlapping	no	3 Waves C	no
4 Waves A	no	Split Screen	no	Overlapping	no
4 Waves B	no	3 Waves A	no	Split Screen	no
3 Waves	no	3 Waves B	no	2 Waves	no
Horizon	no	Horizon	no	Horizon	no
Big Numerics	no	Big Numerics	no	Big Numerics	no
12 Lead ECG	no	12 Lead ECG	no	12 Lead ECG	no
Visitors	no	Visitors	no	Visitors	no

The H30 initial configuration filename is MP20-30, H30 Axx, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Adult	yes	yes	Adult	Paced	A06: BIS	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	A04: 4 Waves A	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	nog. g waves n	Monitor A	Measmt. Neo

Monitor Settings Blocks				
Name Locked				
Monitor A yes				

Measurement Settings Blocks				
Name Locked				
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens						
A06	Locked	A04	Locked	A03	Locked	
Service A	no	Service A	no	Service A	no	
BIS	no	4 Waves A	no	3 Waves A	no	
6 Waves A	no	4 Waves B	no	3 Waves B	no	
6 Waves B	no	Overlapping	no	3 Waves C	no	
Overlapping	no	Split Screen	no	Overlapping	no	
Split Screen	no	3 Waves A	no	Split Screen	no	
4 Waves A	no	3 Waves B	no	2 Waves A	no	
4 Waves B	no	Split Screen B	no	2 Waves B	no	
Horizon	no	Horizon	no	Horizon	no	
Big Numerics	no	Big Numerics	no	Big Numerics	no	
12 Lead ECG	no	12 Lead ECG	no	12 Lead ECG	no	
Visitors	no	Visitors	no	Visitors	no	

The H40 initial configuration filename is MP20-30, H40 Axx, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles								
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block	
Adult	yes	yes	Adult	Paced	A06: 6 Waves	Monitor A	Measmt. Adult	
Pedi	no	yes	Pedi	Non-Paced	A04: 4 Waves A	Monitor A	Measmt. Pedi	
Neo	no	yes	Neo	Non-Paced	1109. 9 Waves II	Monitor A	Measmt. Neo	

Monitor Settings Blocks			
Name	Locked		
Monitor A	yes		

Measurement Settings Blocks				
Name Locked				
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens						
A06	Locked	A04	Locked	A03	Locked	
Service A	no	Service A	no	Service A	no	
6 Waves	no	4 Waves A	no	3 Waves A	no	
Overlapping	no	4 Waves B	no	3 Waves B	no	
Split Screen A	no	Overlapping	no	3 Waves C	no	
ST Segments	no	Split Screen A	no	Overlapping	no	
4 Waves A	no	ST Segments	no	Split Screen	no	
4 Waves B	no	3 Waves	no	2 Waves A	no	
Split Screen B	no	Split Screen B	no	2 Waves B	no	
Horizon	no	Horizon	no	Horizon	no	
Big Numerics	no	Big Numerics	no	Big Numerics	no	
12 Lead ECG	no	12 Lead ECG	no	12 Lead ECG	no	
Visitors	no	Visitors	no	Visitors	no	

# MP20 Junior & MP20L Configuration Overview

MP20L is available in the US only.

#### **Option H10**

The H10 initial configuration filename is:

- for the MP20 Junior: MP20, H10 A03 M20, SVGA, initial, H.Ox.xx, Revxxx.cfg.
- for the MP20L: MP20, H10 A03 M21, SVGA, initial, H.Ox.xx, Revxxx.cfg.

Profiles								
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display MP 20 Junior	Display MP20 L	Monitor Settings Block	Meas. Settings Block
Adult	yes	yes	Adult	Paced	3 Waves A	3 Waves	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	3 Waves A	3 Waves	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	3 Waves A	3 Waves	Monitor A	Measmt. Neo

Monitor Settings Blocks				
Name Locked				
Monitor A	yes			

Measurement Settings Blocks			
Name	Locked		
Measmt. Adult	yes		
Measmt. Pedi	yes		
Measmt. Neo	yes		

Screens: MP20 Junior (#M20)		MP20L (#M21)		
A03	Locked	A03	Locked	
Service A	no	Service A	no	
3 Waves A	no	3 Waves	no	
3 Waves B	no	2 Waves	no	
3 Waves C	no	Big Numerics	no	
Big Numerics	no			
2 Waves A	no			
2 Waves B	no			
Overlapping	no			
Split Screen	no			
12 Lead ECG	no			

#### **Option H20 (MP20 Junior only)**

The H20 initial configuration filename for the MP20 Junior is:

MP20, H20 A03 M20, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Pedi	no	yes	Pedi	Non-Paced	3 Waves A	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	3 Waves A	Monitor A	Measmt. Neo

Monitor Settings Blocks			
Name	Locked		
Monitor A	yes		

Measurement Settings Blocks	Measurement Settings Blocks	
Name	Locked	
Measmt. Pedi	yes	
Measmt. Neo	yes	

Screens	_
A03	Locked
Service A	no
3 Waves A	no
3 Waves B	no
3 Waves C	no
Big Numerics	no
2 Waves A	no
2 Waves B	no
Overlapping	no
Split Screen	no
12 Lead ECG	no

# **MP5** Configuration Overview

#### **Option H10**

The H10 initial configuration filename is MP5, H10 Axx, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Adult	yes	yes	Adult	Paced	3 Waves	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	3 Waves	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	3 Waves	Monitor A	Measmt. Neo

Monitor Settings Blocks	
Name	Locked
Monitor A	yes

Measurement Settings Blocks		
Name	Locked	
Measmt. Adult	yes	
Measmt. Pedi	yes	
Measmt. Neo	yes	

Screens			
A04	Locked	A03	Locked
Service A	no	Service A	no
1 Wave	no	1 Wave	no
2 Waves	no	2 Waves	no
3 Waves	no	3 Waves	no
4 Waves	no	Vital Signs	no
Vital Signs	no	Split Screen	no
Split Screen A	no	Other Bed	no
Split Screen B	no	12 Lead ECG	no
Other Bed	no		
12 Lead ECG	no		

# Option H10/B10

The H10/B10 initial configuration filename is MP5, H10 A03 B10, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Pedi	no	yes	Pedi	Non-Paced	<b>Big Numerics</b>	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	Big Numerics	Monitor A	Measmt. Neo

Monitor Settings Blocks	
Name	Locked
Monitor A	yes

Measurement Settings Blocks	
Name	Locked
Measmt. Adult	yes
Measmt. Pedi	yes
Measmt. Neo	yes

Screens	
A03	Locked
Service A	no
Big Numerics	no
1 Wave	no
Horizon	no
Vital Signs A	no
Vital Signs B	no
Other Bed	no
Visitors	no

## Option H10/B11

The H10/B11 initial configuration filename is MP5, H10 A03 B11, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Pedi	no	yes	Pedi	Non-Paced	Big Numerics	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	<b>Big Numerics</b>	Monitor A	Measmt. Neo

Monitor Settings Blocks		
Name	Locked	
Monitor A	yes	

Measurement Settings Blocks			
Name	Locked		
Measmt. Adult	yes		
Measmt. Pedi	yes		
Measmt. Neo	yes		

Screens				
A03	Locked			
Service A	no			
Big Numerics	no			
1 Wave	no			
Horizon	no			
Vital Signs A	no			
Vital Signs B	no			
Other Bed	no			
Visitors	no			

# Option H10/B14

The H10/B14 initial configuration filename is MP5, H10 A03 B14, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Pedi	no	yes	Pedi	Non-Paced	<b>Big Numerics</b>	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	Big Numerics	Monitor A	Measmt. Neo

Monitor Settings Blocks				
Name	Locked			
Monitor A	yes			

Measurement Settings Blocks			
Name	Locked		
Measmt. Adult	yes		
Measmt. Pedi	yes		
Measmt. Neo	yes		

Screens				
A03	Locked			
Service A	no			
Big Numerics	no			
1 Wave A	no			
1 Wave B	no			
2 Waves	no			
Horizon	no			
Vital Signs A	no			
Vital Signs B	no			
Other Bed	no			
Visitors	no			

The H20 initial configuration filename is MP5, H20 Axx, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Pedi	no	yes	Pedi	Non-Paced	3 Waves	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	3 Waves	Monitor A	Measmt. Neo

Monitor Settings Blocks			
Name	Locked		
Monitor A	yes		

Measurement Settings Blocks			
Name	Locked		
Measmt. Adult	yes		
Measmt. Pedi	yes		
Measmt. Neo	yes		

Screens						
A04	Locked	A03	Locked			
Service A	no	Service A	no			
1 Wave	no	1 Wave	no			
2 Waves	no	2 Waves	no			
3 Waves	no	3 Waves	no			
4 Waves	no	CRG	no			
OxyCRG	no	Vital Signs	no			
Vital Signs	no	Split Screen	no			
Split Screen A	no	Other Bed	no			
Split Screen B	no					
Other Bed	no					

# **MP5T Configuration Overview**

## **Option H10**

The initial configuration filename is MP5T, H10 A03, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Adult	yes	yes	Adult	Paced	3 Waves	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	3 Waves	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	3 Waves	Monitor A	Measmt. Neo

Monitor Settings Blocks				
Name	Locked			
Monitor A	yes			

Measurement Settings Blocks			
Name	Locked		
Measmt. Adult	yes		
Measmt. Pedi	yes		
Measmt. Neo	yes		

Screens	Locked
Service A	no
1 Wave	no
2 Waves	no
3 Waves	no
Vital Signs	no
ST Map	no
12 Lead ECG	no

# **MP5SC and MP5#P05 Configuration Overview**

#### **Option H10**

Option H10 is the only H option available for MP5SC or MP5#P05 monitors.

NOTE MP5SC and MP5#P05 monitors do have additional Profiles to the standard Profiles, Adult, Pedi and Neo. If not otherwise specified, the settings for the MP5, H10, Profile Adult monitors apply for the Profiles EWS Scoring, Frequent Vitals, RRT, Resus, and SpotCheck.

MP5SC / MP5#P05 Configuration File Names	
Non-English Language Orders	English Language Orders

MP5SC					
MP5SC, H10 A03, SVGA, initial, H.0x.xx, Revxxx.cfg	MP5SC, H10 A03 Spotcheck, SVGA, English, H.0x.xx, Revxxx.cfg				

MP5SC#C27					
MP5SC, H10 A03 C27, SVGA, initial, H.0x.xx, Revxxx.cfg	MP5SC, H10 A03 C27 Spotcheck, SVGA, English, H.0x.xx, Revxxx.cfg				

MP5#P05						
MP5, H10 A03 P05, SVGA, initial, H.0x.xx, Revxxx.cfg	MP5, H10 A03 P05 Spotcheck, SVGA, <b>English</b> , H.0x.xx, Revxxx.cfg					

**NOTE** In case you are cloning a configuration file to your monitor, make sure to use the appropriate cfg. file. To revert back to the configuration settings as they were delivered from the factory:

For an MP5SC / MP5#P05 monitor:

- with English language
  - use the files with the ending "...Spotcheck, SVGA, English, H.0x.xx, Revxxx.cfg".
  - These files are stored in your Support Tool structure under:
    ...\M3086A\Storage\AppConfig\M8005A, M8007A, M8008A, M8010A\H.0x.xx\English.
- with a language other than English
  - use the files with the ending "...initial, H.0x.xx, Revxxx.cfg".
  - These files are stored in your Support Tool structure under:
    ...\M3086A\Storage\AppConfig\M8005A, M8007A, M8008A, M8010A\H.0x.xx\Initial.

# **Configurations for Non-English Language Orders**

#### MP5SC

The initial configuration filename is MP5SC, H10 A03, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
EWS Scoring	yes	no	Adult	Paced	EWS Scoring	EWS Scoring	EWS Scoring
Frequent Vitals	no	no	Adult	Paced	Vital Signs	Frequent Vitals	Frequent Vitals
Adult	no	yes	Adult	Paced	2 Waves	Monitor A	Measurement Adult
Pedi	no	yes	Pedi	Non-Paced	2 Waves	Monitor A	Measurement Pedi
Neo	no	yes	Neo	Non-Paced	2 Waves	Monitor A	Measurement Neo

Monitor Settings Blocks				
Name	Locked			
EWS Scoring	no			
Frequent Vitals	no			
Monitor A	yes			

Measurement Settings Blocks				
Name	Locked			
EWS Scoring	no			
Frequent Vitals	no			
Measmt. Adult	yes			
Measmt. Pedi	yes			
Measmt. Neo	yes			

Screens	Locked
Service A	no
EWS Scoring	no
Vital Signs	no
1 Wave	no
2 Waves	no
3 Waves	no
Split Screen	no
Visitors	no

#### MP5SC#C27

The initial configuration filename is MP5SC, H10 A03 C27, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
EWS Scoring	yes	no	Adult	Paced	EWS Scoring	EWS Scoring	EWS Scoring
Frequent Vitals	no	no	Adult	Paced	Vital Signs	Frequent Vitals	Frequent Vitals
RRT	no	no	Adult	Paced	RRT	RRT	RRT
Resus	no	no	Adult	Paced	Dynamic Waves	Resus	Resus
Adult	no	yes	Adult	Paced	2 Waves	Monitor A	Measurement Adult
Pedi	no	yes	Pedi	Non-Paced	2 Waves	Monitor A	Measurement Pedi
Neo	no	yes	Neo	Non-Paced	2 Waves	Monitor A	Measurement Neo

Monitor Settings Blocks				
Name	Locked			
EWS Scoring	no			
Frequent Vitals	no			
RRT	no			
Resus	no			
Monitor A	yes			

#### Measurement Settings Blocks

Locked
no
no
no
no
yes
yes
yes

Screens	Locked
Service A	no
EWS Scoring	no
Vital Signs	no
RRT	no
Dynamic Waves	no
1 Wave	no
2 Waves	no
3 Waves	no
Split Screen	no
Visitors	no

#### MP5#P05

The initial configuration filename is MP5, H10 A03 P05, SVGA, initial, H.0x.xx, Revxxx.cfg.

Profiles	Р	ro	fil	es	
----------	---	----	-----	----	--

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
EWS Scoring	yes	no	Adult	Paced	EWS Scoring	EWS Scoring	EWS Scoring
Frequent Vitals	no	no	Adult	Paced	Vital Signs	Frequent Vitals	Frequent Vitals
RRT	no	no	Adult	Paced	RRT	RRT	RRT
Resus	no	no	Adult	Paced	Dynamic Waves	Resus	Resus
Adult	no	yes	Adult	Paced	2 Waves	Monitor A	Measurement Adult
Pedi	no	yes	Pedi	Non-Paced	2 Waves	Monitor A	Measurement Pedi
Neo	no	yes	Neo	Non-Paced	2 Waves	Monitor A	Measurement Neo

Monitor Settings Blocks					
Name	Locked				
EWS Scoring	no				
Frequent Vitals	no				
RRT	no				
Resus	no				
Monitor A	yes				

#### **Measurement Settings Blocks**

Name	Locked
EWS Scoring	no
Frequent Vitals	no
RRT	no
Resus	no
Measmt. Adult	yes
Measmt. Pedi	yes
Measmt. Neo	yes

Screens	Locked
Service A	no
EWS Scoring	no
Vital Signs	no
RRT	no
Dynamic Waves	no
1 Wave	no
2 Waves	no
3 Waves	no
Split Screen	no
Visitors	no

## **Configurations for English Language Orders**

#### MP5SC (English only)

The initial configuration filename is MP5SC, H10 A03 Spotcheck, SVGA, english, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
EWS Scoring	yes	no	Adult	Paced	EWS/SpotCheck	EWS Scoring	EWS Scoring
Frequent Vitals	no	no	Adult	Paced	Vital Signs	Frequent Vitals	Frequent Vitals
SpotCheck	no	no	Adult	Paced	EWS/SpotCheck	SpotCheck	SpotCheck
Adult	no	yes	Adult	Paced	2 Waves	Monitor A	Measurement Adult
Pedi	no	yes	Pedi	Non-Paced	2 Waves	Monitor A	Measurement Pedi
Neo	no	yes	Neo	Non-Paced	2 Waves	Monitor A	Measurement Neo

Monitor Settings Blocks				
Name	Locked			
EWS Scoring	no			
Frequent Vitals	no			
SpotCheck	no			
Monitor A	yes			

Measurement Settings Blocks					
Name	Locked				
EWS Scoring	no				
Frequent Vitals	no				
SpotCheck	no				
Measmt. Adult	yes				
Measmt. Pedi	yes				
Measmt. Neo	yes				

Screens	Locked
Service A	no
EWS/SpotCheck	no
Vital Signs	no
1 Wave	no
2 Waves	no
3 Waves	no
Split Screen	no
Visitors	no

#### MP5SC#C27 (English only)

The initial configuration filename is MP5SC, H10 A03 C27 Spotcheck, SVGA, english, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
EWS Scoring	yes	no	Adult	Paced	EWS/SpotCheck	EWS Scoring	EWS Scoring
Frequent Vitals	no	no	Adult	Paced	Vital Signs	Frequent Vitals	Frequent Vitals
RRT	no	no	Adult	Paced	RRT	RRT	RRT
Resus	no	no	Adult	Paced	Resus	Resus	Resus
SpotCheck	no	no	Adult	Paced	EWS/SpotCheck	SpotCheck	SpotCheck
Adult	no	yes	Adult	Paced	2 Waves	Monitor A	Measurement Adult
Pedi	no	yes	Pedi	Non-Paced	2 Waves	Monitor A	Measurement Pedi
Neo	no	yes	Neo	Non-Paced	2 Waves	Monitor A	Measurement Neo

Monitor Settings Blocks		
Name	Locked	
EWS Scoring	no	
Frequent Vitals	no	
RRT	no	
Resus	no	
SpotCheck	no	
Monitor A	yes	

Measurement Settings Blocks			
Name	Locked		
EWS Scoring	no		
Frequent Vitals	no		
RRT	no		
Resus	no		
SpotCheck	no		
Measmt. Adult	yes		
Measmt. Pedi	yes		
Measmt. Neo	yes		

Screens	Locked
Service A	no
EWS/SpotCheck	no
Vital Signs	no
RRT	no
Resus	no
1 Wave	no
2 Waves	no
3 Waves	no
Split Screen	no
Visitors	no

#### MP5#P05 (English only)

The initial configuration filename is MP5, H10 A03 P05 SpotCheck, SVGA, english, H.0x.xx, Revxxx.cfg.

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
EWS Scoring	yes	no	Adult	Paced	EWS/SpotCheck	EWS Scoring	EWS Scoring
Frequent Vitals	no	no	Adult	Paced	Vital Signs	Frequent Vitals	Frequent Vitals
RRT	no	no	Adult	Paced	RRT	RRT	RRT
Resus	no	no	Adult	Paced	Resus	Resus	Resus
SpotCheck	no	no	Adult	Paced	EWS/SpotCheck	SpotCheck	SpotCheck
Adult	no	yes	Adult	Paced	2 Waves	Monitor A	Measurement Adult
Pedi	no	yes	Pedi	Non-Paced	2 Waves	Monitor A	Measurement Pedi
Neo	no	yes	Neo	Non-Paced	2 Waves	Monitor A	Measurement Neo

Monitor Settings Blocks		
Name	Locked	
EWS Scoring	no	
Frequent Vitals	no	
RRT	no	
Resus	no	
SpotCheck	no	
Monitor A	yes	

Measurement Settings Blocks		
Name	Locked	
EWS Scoring	no	
Frequent Vitals	no	
RRT	no	
Resus	no	
SpotCheck	no	
Measmt. Adult	yes	
Measmt. Pedi	yes	
Measmt. Neo	yes	

Screens	Locked
Service A	no
EWS/SpotCheck	no
Vital Signs	no
RRT	no
Resus	no
1 Wave	no
2 Waves	no
3 Waves	no
Split Screen	no
Visitors	no

# **MP2/X2** Configuration Overview

The initial configuration filenames for MP2/X2 are:

- MP2, QVGA, initial, H.0x.xx, Revxxx.cfg
- X2, QVGA, initial, H.0x.xx, Revxxx.cfg

Profiles							
Profile Name	Default	Locked	Patient Cat.	Paced Mode	Display	Monitor Settings Block	Meas. Settings Block
Adult	yes	yes	Adult	Paced	1 Wave A	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	1 Wave A	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	1 Wave A	Monitor A	Measmt. Neo
Outdoor	no	no	Adult	Paced	1 Wave A	Outdoor	Outdoor

Monitor Settings Blocks		
Name	Locked	
Monitor A	yes	
Outdoor	no	

Measurement Settings Blocks		
Name	Locked	
Measmt. Adult	yes	
Measmt. Pedi	yes	
Measmt. Neo	yes	
Outdoor	no	

MP2/X2	
Screens	Locked
Service A	no
Big Numerics	no
10 Numerics	no
Vital Signs A	no
1 Wave A	no
1 Wave B	no
1 Big Wave	no
Vital Signs B	no
2 Waves A	no
2 Waves B	no
3 Waves	no
Vital Signs	no
Horizon	no
ST Map	no
12 Lead ECG	no
Visitors	no

## **Screen Overview**

The tables starting on the next page list the file names of all Screens supplied with the initial and demo configurations for IntelliVue patient monitor release G.0. There is a section for each of the monitor models. For some of the models, you will find a list of Demo Screens available when using the demo configuration file in a monitor. These Screens are also part of the Support Tool Screen Library.

To view or print bitmaps of all Screens supplied with a specific initial or demo configuration, on the Documentation DVD supplied with your IntelliVue monitor, navigate to the folder **Documentation\H.0\Configuration Guide\Screen Configurations\MPxx-MPxx** and open/print the pdf document that has the same name as the required configuration file. For example if you want to print all Screens contained in the initial H.0 configuration for an MP70 with application area option H10 and wave option A08, you would open the "MP60-90, H10 A08, XGA, initial, H.0x.xx, Revxxx.pdf".

Monitor Model	Screens	Page
MX800	MX800 Option H10 Screens	252
	MX800 Option H20 Screens	253
	MX800 Option H30 Screens	254
	MX800 Option H40 Screens	255
	MX800 Demo Configuration Screens	256
MP60/70/80/90	MP60 - MP90 Option H10 Screens	257
	MP60 - MP90 Option H20 Screens	258
	MP60 - MP90 Option H30 Screens	259
	MP60 - MP90 Option H40 Screens	260
	MP60 - MP90 Demo Configuration Screens	261
MP40/50	MP40/50 Option H10 Screens	262
	MP40/50 Option H20 Screens	263
	MP40/50 Option H30 Screens	264
	MP40/50 Option H40 Screens	265
	MP40/50 Demo Configuration Screens	266
MP20/30	MP20/30 Option H10 Screens	267
	MP20/30 Option H20 Screens	268
	MP20/30Option H30 Screens	269
	MP20/30 Option H40 Screens	270
	MP20/30Demo Configuration Screens	271
MP20 Junior & MP20L	MP20 M20/M21 Option H10 Screens	272
	MP20 M20 Option H20 Screens	272

#### Screen Overview -Table of Contents

MP5	MP5 Option H10 Screens	273
	MP5 Option H20 Screens	273
	MP5 Option H30 Screens	274
	MP5 Option H40 Screens	274
	MP5 Demo Configuration Screens	275
MP5 with Options B10, B11, B14	MP5 with Options B10/B11/B14 Screens	276
MP5T	MP5T Screen Overview	276
MP5SC	MP5SC Screen Overview	277
MP2	MP2 Screen Overview	279
X2	X2 Screen Overview	280

# **MX800 Screen Overview**

# MX800 Option H10 Screens

MX800, H10 A12, WSXGA+		
Name	File	
Service A	S-01W-01HighRes-service_A-wsxga+	
12 Waves	G-12W-5Press-1Tr-01-wsxga+	
8 Waves	G-08W-3Press-1Tr-01-wsxga+	
Overlapping A	G-08W-3Press-1x3ovl-1Tr-01-wsxga+	
Overlapping B	G-08W-4Press-2x2ovl-1Tr-01-wsxga+	
Dynamic Waves	G-02W-06Wdyn-1Tr-01-wsxga+	
6 Waves	G-06W-2Press-1Tr-01-wsxga+	
Overlapping	G-06W-2Press-1x2ovl-1Tr-01-wsxga+	
4 Waves	G-04W-1Tr-01-wsxga+	
SCC Sepsis	G-06W-1Tr-PW-SSC-01-wsxga+	
Horizon	G-08W-1Tr-Hor06Tr-01-wsxga+	
Big Numerics	G-03W-bigNumerics-01-wsxga+	
EEG CSA	G-05W-CSA-wsxga+	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-wsxga+	
Visitors	G-00W-visitor-screen-AClk-01-wsxga+	
MX800, H10 A08, WSXGA+		
Service A	S-01W-01HighRes-service_A-wsxga+	
8 Waves	G-08W-3Press-1Tr-01-wsxga+	
Overlapping A	G-08W-3Press-1x3ovl-1Tr-01-wsxga+	
Overlapping B	G-08W-4Press-2x2ovl-1Tr-01-wsxga+	
Dynamic Waves	G-01W-06Wdyn-1Tr-01-wsxga+	
6 Waves	G-06W-2Press-1Tr-01-wsxga+	
Overlapping	G-06W-2Press-1x2ovl-1Tr-01-wsxga+	
4 Waves	G-04W-1Tr-01-wsxga+	
SCC Sepsis	G-04W-1Tr-PW-SSC-01-wsxga+	
Horizon	G-06W-1Tr-Hor06Tr-01-wsxga+	
Big Numerics	G-03W-bigNumerics-01-wsxga+	
EEG CSA	G-05W-CSA-wsxga+	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-wsxga+	
Visitors	G-00W-visitor-screen-ACIk-01-wsxga+	
MX800, H10 A06, WSXGA+		
Service A	S-01W-01HighRes-service_A-wsxga+	
6 Waves	G-06W-2Press-1Tr-01-wsxga+	
Overlapping A	G-06W-2Press-1x2ovl-1Tr-01-wsxga+	
Overlapping B	G-06W-2Press-1x3ovl-1Tr-01-wsxga+	
Dynamic Waves	G-01W-05Wdyn-1Tr-01-wsxga+	
4 Waves	G-04W-1Tr-01-wsxga+	
Overlapping	G-04W-2Press-1x2ovl-1Tr-01-wsxga+	
SCC Sepsis	G-04W-1Tr-PW-SSC-01-wsxga+	
Horizon	G-06W-1Tr-Hor06Tr-01-wsxga+	
Big Numerics	G-03W-bigNumerics-01-wsxga+	
EEG CSA	G-05W-CSA-wsxga+	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-wsxga+	
Visitors	G-00W-visitor-screen-AClk-01-wsxga+	
# MX800 Option H20 Screens

MX800, H20 A12, WSXGA+		
Name	File	
Service A	S-01W-01HighRes-service A-wsxga+	
Oxy CRG A	N-07W-3split-04HighRes-Events-01-wsxga+	
Oxy CRG B	N-03W-04HighRes-Events-01-wsxga+	
Oxy CRG C	N-03W-03HighRes-Events-01-wsxga+	
12 Waves	G-12W-5Press-1Tr-01-wsxga+	
8 Waves	G-08W-3Press-1Tr-01-wsxga+	
Overlapping A	G-08W-3Press-1x3ovl-1Tr-01-wsxga+	
Overlapping B	G-08W-4Press-2x2ovl-1Tr-01-wsxga+	
Dynamic Waves	G-02W-06Wdyn-1Tr-01-wsxga+	
6 Waves	G-06W-2Press-1Tr-01-wsxga+	
Overlapping	G-06W-2Press-1x2ovl-1Tr-01-wsxga+	
4 Waves	G-04W-1Tr-01-wsxga+	
SCC Sepsis	G-06W-1Tr-PW-SSC-01-wsxga+	
Horizon	G-08W-1Tr-Hor06Tr-01-wsxga+	
Big Numerics	G-03W-bigNumerics-01-wsxga+	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-wsxga+	
Visitors	G-00W-visitor-screen-ACIk-01-wsxga+	
	MX800, H20 A08, WSXGA+	
Service A	S-01W-01HighRes-service_A-wsxga+	
Oxy CRG A	N-03W-04HighRes-Events-01-wsxga+	
Oxy CRG B	N-03W-03HighRes-Events-01-wsxga+	
8 Waves	G-08W-3Press-1Tr-01-wsxga+	
Overlapping A	G-08W-3Press-1x3ovl-1Tr-01-wsxga+	
Overlapping B	G-08W-4Press-2x2ovl-1Tr-01-wsxga+	
Dynamic Waves	G-01W-06Wdyn-1Tr-01-wsxga+	
6 Waves	G-06W-2Press-11r-01-wsxga+	
Overlapping	G-06W-2Press-1x2ovI-11r-01-wsxga+	
4 Waves	G-04W-11r-01-wsxga+	
SCC Sepsis	G-04W-1Ir-PW-SSC-01-wsxga+	
Horizon	G-06W-1Ir-Hor06Ir-01-wsxga+	
Big Numerics	G-03W-bigNumerics-01-wsxga+	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-wsxga+	
Visitors	G-00W-visitor-screen-ACIK-01-wsxga+	
Service A	MX800, HZ0 A00, W SXGA+	
	N 02W 03HighRes-Service_A-wsxya+	
	N 03W 03HighDec-Evente-01-weygat	
6 Wayee	C.06W/2Drace_1Tr_01_weyda+	
Overlanning A	G-06W/-2Press-11-01-wsxga	
Overlapping A	G-06W-2Press-1x2ov-11-01-wsxga+	
Dynamic Wayes	G-01W-05W/dvn_1Tr-01_weyga+	
A Waves	G-0/W-1Tr-01-wsyna+	
Overlanning	G-04W-2Press-1x2ovI-1Tr-01-wsxga+	
SCC Sensis	G-04W-1Tr-PW-SSC-01-wsygat	
Horizon	G-06W-1Tr-Hor06Tr-01-wsxga+	
Big Numerics	G-03W-bigNumerics-01-wsxga+	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-wsxga+	
Visitors	G-00W-visitor-screen-AClk-01-wsxga+	

## MX800 Option H30 Screens

MX800, H30 A12, WSXGA+		
Name	File	
Service A	S-01W-01HighRes-service A-wsxga+	
12 Waves	A-11W-5Press-1x4ovl-2split01-1Tr-BIS-wsxga+	
BIS	A-07W-1Tr-BIS-01-wsxga+	
8 Waves	A-08W-3Press-01-wsxga+	
Overlapping A	A-08W-3Press-1x3ovl-01-wsxga+	
Overlapping B	A-08W-4Press-2x2ovl-01-wsxga+	
Dynamic Waves	A-02W-06Wdyn-01-wsxga+	
6 Waves	A-06W-2Press-01-wsxga+	
Overlapping	A-06W-3Press-1x3ovl-01-wsxga+	
4 Waves	A-04W-01-wsxga+	
SCC Sepsis	A-06W-1Tr-PW-SSC-01-wsxga+	
Horizon	A-06W-Hor06Tr-01-wsxga+	
Big Numerics	A-03W-BigN-BIS01-wsxga+	
EEG CSA	A-05W-CSA-wsxga+	
12 Lead ECG	A-13W-12Lead-Split-ST-snippets-STmap-01-wsxga+	
Visitors	G-00W-visitor-screen-ACIk-01-wsxga+	
	MX800, H30 A08, WSXGA+	
Service A	S-01W-01HighRes-service_A-wsxga+	
BIS	A-07W-1Tr-BIS-01-wsxga+	
8 Waves	A-08W-3Press-01-wsxga+	
Overlapping A	A-08W-3Press-1x3ovl-01-wsxga+	
Overlapping B	A-08W-4Press-2x2ovl-01-wsxga+	
Dynamic Waves	A-01W-06Wdyn-01-wsxga+	
6 Waves	A-06W-2Press-01-wsxga+	
Overlapping	A-06W-3Press-1x3ovl-01-wsxga+	
4 Waves	A-04VV-01-wsxga+	
SCC Sepsis	A-04VV-1Tr-PVV-SSC-01-wsxga+	
Horizon	A-06VV-Hor061r-01-wsxga+	
Big Numerics	A-03W-BigN-BIS01-wsxga+	
EEG CSA	A-05VV-CSA-wsxga+	
12 Lead ECG	A-13VV-12Lead-Split-S1-snippets-S1map-01-wsxga+	
Visitors	G-00VV-visitor-screen-ACIk-01-wsxga+	
	MX000 H20 A06 MCXCA+	
Service A	S 01W 01HighDos contico. A wexast	
	A 04W/ 1Tr BIS 01 wowgot	
6 Wayas	A-04W-111-DI3-01-WSXga+	
Overlapping A	A 06W/2Press-01-WSXga+	
Overlapping R	A 06W/3Proce 1x2ovi-01-wsxga+	
Ovenapping D Dynamic Wayos	A 01W 05Wdvp 01 wexget	
A Wayee	A-01W-01 wexest	
Overlapping	A-04W-2Proce_1v2nvL01_wevge+	
SCC Sensis	A-04W-2FTess-1/200-01-wsxga+	
Horizon	A-06W/Hor06Tr.01-weyga+	
Big Numerics	A-03W-RigN-RIS01-wsxga+	
EEG CSA	A-05W-CSA-weyge+	
12 Lead ECG	A-13W-12Lead-Split-ST-spinpete-STman-01-weyga+	
Visitors	G-00W-visitor-screen-ACIk-01-wsxga+	

# MX800 Option H40 Screens

MX800, H40 A12, W SXGA+		
Name	File	
Service A	S-01W-01HighRes-service_A-wsxga+	
12 Waves	C-12W-5Press-1Tr-01-wsxga+	
8 Waves	C-08W-3Press-1Tr-01-wsxga+	
Overlapping A	C-08W-3Press-1x3ovl-1Tr-01-wsxga+	
Overlapping B	C-08W-4Press-2x2ovl-1Tr-01-wsxga+	
Dynamic Waves	C-02W-06Wdyn-1Tr-01-wsxga+	
6 Waves	C-06W-2Press-1Tr-01-wsxga+	
Overlapping	C-06W-2Press-1x2ovl-1Tr-01-wsxga+	
4 Waves	C-04W-1Tr-01-wsxga+	
SCC Sepsis	C-06W-1Tr-PW-SSC-01-wsxga+	
Horizon	C-08W-1Tr-Hor06Tr-01-wsxga+	
Big Numerics	G-03W-bigNumerics-01-wsxga+	
EEG CSA	C-05W-CSA-wsxga+	
ST MAP	C-04W-STmap-01-wsxga+	
7 Lead ECG	C-07W-7Lead-STmap-1Tr-01-wsxga+-Rev001	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-wsxga+	
Visitors	G-00W-visitor-screen-AClk-01-wsxga+	
	MX800, H40 A08, WSXGA+	
Service A	S-01W-01HighRes-service_A-wsxga+	
8 Waves	C-08W-3Press-1Tr-01-wsxga+	
Overlapping A	C-08W-3Press-1x3ovl-1Tr-01-wsxga+	
Overlapping B	C-08W-4Press-2x2ovl-1Tr-01-wsxga+	
Dynamic Waves	C-02W-06Wdyn-1Tr-01-wsxga+	
6 Waves	C-06W-2Press-1Tr-01-wsxga+	
Overlapping	C-06W-2Press-1x2ovl-1Tr-01-wsxga+	
4 Waves	C-04W-1Tr-01-wsxga+	
SCC Sepsis	C-06W-1Tr-PW-SSC-01-wsxga+	
Horizon	C-06W-1Tr-Hor06Tr-01-wsxga+	
Big Numerics	G-03W-bigNumerics-01-wsxga+	
EEG CSA	C-05W-CSA-wsxga+	
STMAP	C-04VV-STmap-01-wsxga+	
/ Lead ECG	C-0/VV-/Lead-S1map-11r-01-wsxga+-Rev001	
12 Lead ECG	C-13W-12Lead-Ow-Split-S1-snippets-S1map-01-wsxga+	
Visitors	G-00VV-visitor-screen-ACIk-01-wsxga+	
Sonico A	MX800, H40 A06, WSXGA+	
6 Wayon	C 06W 2Proce 1Tr 01 wexce+	
Overlapping A	C-06W-2Press-1r-01-ws/gat	
Overlapping A	C-06W-2Proce-1x3od-1Tr-01-wexgat	
Dynamic Wayes	C-00W-211635-1X500-111-01-WSXga1	
4 Waves	C-04W-1Tr-01-wsxga+	
Overlapping	C-04W-2Press-1x2ovl-1Tr-01-wsxga+	
SCC Sepsis	C-04W-1Tr-PW-SSC-01-wsxga+	
Horizon	C-06W-1Tr-Hor06Tr-01-wsxga+	
Big Numerics	G-03W-bigNumerics-01-wsxga+	
EEG CSA	C-05W-CSA-wsxga+	
ST MAP	C-04W-STmap-01-wsxga+	
7 Lead ECG	C-07W-7Lead-STmap-1Tr-01-wsxga+-Rev001	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-wsxga+	
Visitors	G-00W-visitor-screen-AClk-01-wsxga+	

# MX800 Demo Configuration Screens

	MX800, DEMO, WSXGA+	
Name	File	
Service A	S-01W-01HighRes-service A-wsxga+	
12 Waves	G-12W-5Press-1Tr-01-wsxga+	
Big Numerics	G-03W-bigNumerics-01-wsxga+	
4 Waves	G-04W-1Tr-01-wsxga+	
Dynamic Waves	G-02W-06Wdyn-1Tr-01-wsxga+	
Overlapping	G-08W-4Press-2x2ovl-1Tr-01-wsxga+	
Split Screen	G-08W-3Press-Tr-split-01-wsxga+	
Horizon	G-06W-1Tr-Hor06Tr-01-wsxga+	
SCC Sepsis	G-04W-1Tr-PW-SSC-01-wsxga+	
Open Lung	A-05W-3Tr-Loops-OL-01-wsxga+	
2 Other Beds	G-08W-2Ow01W-Tr-left-split-1Tr-01-sxga	
4 Other Beds	G-03W-4Ow02W-Tr-left-split-sxga	
Vital Signs	G-06Wdyn-1TrA-1ExtDev-test01-wsxga+	
Graph Trends	G-00W-8Tr-only-01-xga	
HighResTrend	N-03W-04HighRes-Events-01-wsxga+	
Loops	G-06W-Loops-SpiroData-01-xga	
Wedge	A-06W-wedge1-xga	
Cardiac Output	A-04W-cardiacOut-xga	
EEG CSA	C-05W-CSA-wsxga+	
ST MAP	C-04W-STmap-01-wsxga+	
Telemetry	G-01W-Tele02W-02-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-wsxga+	
Wide Screen	G-11W-TrA-wide-13Tr-01-sxga	
Tall Screen	G-07W-tall-02W-Loops-TrA-sxga	
Visitors	G-00W-visitor-screen-AClk-01-wsxga+	

# MP60/MP70/MP80/MP90 Screen Overview

## MP60 - MP90 Option H10 Screens

MP90, H10 A12, XGA		
Name	File	
Service A	S-01W-01HighRes-service A-vga	
12 Waves	G-12W-5Press-1x4ovI-1split01-xga	
8 Waves	G-08W-3Press-xna	
Overlanning A	G-08W-3Press-1x3ovI-xga	
Overlapping R	G-08W-3Press-2x2ovI-xga	
6 Waves	G-06W-2Press-xra	
Overlanning	G-06W-2Press-1x3ovI-xga	
SSC Sensis	G-04W-PW-SSC-01-xga	
Horizon	G-06W-Hor06Tr-01-xga	
Big Numerics	G-03W-bigNumerics-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-spippets-STman-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	
	MP60-90, H10 A08, XGA	
Service A	S-01W-01HighRes-service A-xga	
8 Waves	G-08W-3Press-xga	
Overlapping A	G-08W-3Press-1x3ovl-xga	
Overlapping B	G-08W-3Press-2x2ovl-xga	
6 Waves	G-06W-2Press-xga	
Overlapping	G-06W-2Press-1x3ovl-xga	
4 Waves	G-04W-2Press-xga	
SSC Sepsis	G-04W-PW-SSC-01-xga	
Horizon	G-06W-Hor06Tr-01-xga	
Big Numerics	G-03W-bigNumerics-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	
	MP60-90, H10 A06, XGA	
Service A	S-01W-01HighRes-service_A-xga	
6 Waves	G-06W-2Press-xga	
Overlapping A	G-06W-2Press-1x2ovl-xga	
Overlapping B	G-06W-2Press-1x3ovl-xga	
4 Waves	G-04W-2Press-xga	
Overlapping	G-04W-2Press-1x2ovl-xga	
SSC Sepsis	G-04W-1Tr-PW-SSC-01-xga	
Horizon	G-06W-Hor06Tr-01-xga	
Big Numerics	G-03W-bigNumerics-xga	
EEG CSA	G-05W-CSA-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	
MP60-90, H10 A04, XGA		
Name	File	
Service A	S-01W-01HighRes-service_A-xga	
4 Waves	G-04W-2Press-xga	
Overlapping	G-04W-2Press-1x2ovl-xga	
SSC Sepsis	G-04W-1Tr-PW-SSC-01-xga	
Horizon	G-04W-Hor06Tr-01-xga	
Big Numerics	G-03W-bigNumerics-xga	
EEG CSA	G-04W-CSA-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	

# MP60 - MP90 Option H20 Screens

MP90, H20 A12, XGA		
Name	File	
Service A	S-01W-01HighRes-service A-xga	
Oxy CRG A	N-07W-04HighRes-3split01-xga	
Oxy CRG B	N-03W-03HighRes-2Press-xga	
Oxy CRG C	N-03W-04HighRes-Events-xga	
8 Waves	G-08W-3Press-xga	
Overlanning A	G-08W-3Press-1x3ovl-xga	
6 Waves	G-06W-2Press-xga	
Overlanning B	G-06W-2Press-1x3ovl-xga	
SSC Sensis	G-04W-PW-SSC-01-xga	
Horizon	G-06W-Hor06Tr-01-xga	
Big Numerics	G-03W-bigNumerics-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-ACIk-01-xga	
VISICOIS	o outri visitor sereen / tonk of xga	
	MP60-90, H20 A08, XGA	
Service A	S-01W-01HighRes-service A-xga	
Oxv CRG A	N-03W-03HighRes-2Press-xga	
Oxy CRG B	N-03W-04HighRes-Events-xga	
8 Waves	G-08W-3Press-xga	
Overlapping A	G-08W-3Press-1x3ovl-xga	
6 Waves	G-06W-2Press-xga	
Overlapping B	G-06W-2Press-1x3ovl-xga	
4 Waves	G-04W-2Press-xga	
SSC Sensis	G-04W-PW-SSC-01-xga	
Horizon	G-06W-Hor06Tr-01-xga	
Big Numerics	G-0.3W-bigNumerics-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	
	ý .	
	MP60-90, H20 A06, XGA	
Service A	S-01W-01HighRes-service_A-xga	
Oxy CRG A	N-02W-03HighRes-1Press-xga	
Oxy CRG B	N-03W-03HighRes-2Press-xga	
6 Waves	G-06W-2Press-xga	
Overlapping A	G-06W-2Press-1x3ovl-xga	
4 Waves	G-04W-2Press-xga	
Overlapping B	G-04W-2Press-1x2ovl-xga	
SSC Sepsis	G-04W-1Tr-PW-SSC-01-xga	
Horizon	G-06W-Hor06Tr-01-xga	
Big Numerics	G-03W-bigNumerics-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	
	MP60-90, H20 A04, XGA	
Name	File	
Service A	S-01W-01HighRes-service_A-xga	
OxyCRG	N-01W-03HighRes-xga	
4 Waves	G-04W-2Press-xga	
Overlapping	G-04W-2Press-1x2ovl-xga	
SSC Sepsis	G-04W-1Tr-PW-SSC-01-xga	
Horizon	G-04W-Hor06Tr-01-xga	
Big Numerics	G-03W-bigNumerics-xga	
EEG CSA	G-04W-CSA-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	

# MP60 - MP90 Option H30 Screens

MP90, H30 A12, XGA		
Name	File	
Service A	S-01W-01HighRes-service A-xga	
12 Waves	A-11W-5Press-1x4ovl-2split01-1Tr-BIS-xga	
BIS	A-07W-1Tr-BIS-01-xga	
Overlapping A	A-08W-3Press-1x3ovl-xga	
Overlapping B	A-08W-3Press-2x2ovl-xga	
6 Waves	A-06W-2Press-xga	
Overlapping	A-06W-2Press-1x3ovl-xga	
SSC Sepsis	G-04W-PW-SSC-01-xga	
Horizon	A-06W-Hor06Tr-01-xga	
Big Numerics	A-03W-BigN-BIS01-xga	
12 Lead ECG	A-13W-12Lead-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	
	MP60-90, H30 A08, XGA	
Service A	S-01W-01HighRes-service A-xga	
BIS	A-07W-1Tr-BIS-01-xga	
Overlapping A	A-08W-3Press-1x3ovl-xga	
Overlapping B	A-08W-3Press-2x2ovl-xga	
6 Waves	A-06W-2Press-xga	
Overlapping	A-06W-2Press-1x3ovl-xga	
4 Waves	A-04W-2Press-xga	
SSC Sepsis	G-04W-PW-SSC-01-xga	
Horizon	A-06W-Hor06Tr-01-xga	
Big Numerics	A-03W-BigN-BIS01-xga	
12 Lead ECG	A-13W-12Lead-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	
	MP60-90, H30 A06, XGA	
Service A	S-01W-01HighRes-service_A-xga	
BIS	A-04W-1Tr-BIS-01-xga	
6 Waves	A-06W-2Press-1-xga	
Overlapping A	A-06W-2Press-1x2ovl-xga	
Overlapping B	A-06W-2Press-1x3ovl-xga	
4 Waves	A-04W-2Press-xga	
Overlapping	A-04W-2Press-1x2ovl-xga	
SSC Sepsis	G-04W-1Tr-PW-SSC-01-xga	
Horizon	A-06W-Hor06Tr-01-xga	
Big Numerics	A-03W-BigN-BIS01-xga	
12 Lead ECG	A-13W-12Lead-Split-ST-snippets-STmap-01-xga	
Visitors	G-00VV-visitor-screen-AClk-01-xga	
	MP60-90, H30 A04, XGA	
Name	File	
Service A	S-01W-01HighRes-service_A-xga	
BIS	A-04W-BIS01-xga	
4 Waves	A-04W-2Press-1-xga	
Overlapping	A-04W-2Press-1x2ovl-1-xga	
SSC Sepsis	G-04W-1Tr-PW-SSC-01-xga	
Horizon	A-04W-Hor06Tr-01-xga	
Big Numerics	A-03W-BigN-BIS01-xga	
EEG CSA	A-04W-CSA-xga	
12 Lead ECG	A-13W-12Lead-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	

# MP60 - MP90 Option H40 Screens

MP90, H40 A12, XGA		
Name	File	
Service A	S-01W-01HighRes-service A-xga	
12 Waves	C-12W-5Press-1x4ovI-1split01-xga	
8 Waves	C-08W-3Press-xga	
Overlapping A	C-08W-3Press-1x3ovl-xga	
Overlapping B	C-08W-3Press-2x2ovl-xga	
6 Waves	C-06W-2Press-xga	
Overlapping	C-06W-2Press-1x3ovl-xga	
SSC Sepsis	G-04W-PW-SSC-01-xga	
Horizon	C-06W-Hor06Tr-01-xga	
Big Numerics	G-03W-bigNumerics-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	
	MP60-90, H40 A08, XGA	
Service A	S-01W-01HighRes-service_A-xga	
8 Waves	C-08W-3Press-xga	
Overlapping A	C-08W-3Press-1x3ovl-xga	
Overlapping B	C-08W-3Press-2x2ovl-xga	
6 Waves	C-06W-2Press-xga	
Overlapping	C-06W-2Press-1x3ovl-xga	
4 Waves	C-04W-2Press-xga	
SSC Sepsis	G-04W-PW-SSC-01-xga	
Horizon	C-06W-Hor06Tr-01-xga	
Big Numerics	G-03W-bigNumerics-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	
	MP60-90, H40 A06, XGA	
Service A	S-01W-01HighRes-service_A-xga	
6 VVaves	C-06W-2Press-xga	
Overlapping A	C-06VV-2Press-1x2ovI-xga	
Overlapping B	C-06W-2Press-1x3ovi-xga	
4 vvaves	C-04W-2Press-xga	
Overlapping	C-04W-2Press-TX20VI-Xga	
SSC Sepsis	G-04W-H11-PW-55C-01-xga	
Rin Numerice	C-06VV-H010611-01-xga	
EIG NUMERICS	G-05W-OSA was	
12 Lood ECC	C 12W/ 12L and Ow Split ST apippata STmap 01 yea	
Visitore	C 10W vigitor percent AClk 01 year	
VISILOIS	G-0011-Visitor-screen-Acik-01-Xga	
	MP60-90, H40 A04, XGA	
Hame	File	
Service A	S-01W-01HighRes-service A-yga	
4 Waves	C-04W-2Press-xna	
Overlapping	C-04W-2Press-1x2ovI-xga	
SSC Sensis	G-04W-1Tr-PW-SSC-01-xga	
Horizon	C-04W-Hor06Tr-01-xga	
Big Numerics	G-03W-bigNumerics-xga	
EEG CSA	C-04W-CSA-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xna	
Visitors	G-00W-visitor-screen-ACIk-01-xga	

# MP60 - MP90 Demo Configuration Screens

MP60-90, DEMO, XGA		
Name	File	
Service A	S-01W-01HighRes-service_A-xga	
Big Numerics	G-03W-bigNumerics-02-xga	
4 Waves A	G-04W-2Press-xga	
6 Waves A	A-06W-1Tr-2Press-xga	
Overlapping	G-08W-3Press-2x2ovl-xga	
Split Screen	G-08W-3Press-Split-ScreenTrend-xga	
Graph Trends	G-00W-8Tr-only-01-xga	
HighResTrend	N-03W-04HighRes-3Press-EventSum-xga	
Vital Signs A	G-05W-2Tr-TrA-01-xga	
Horizon	A-06W-Hor06Tr-01-xga	
SSC Sepsis	G-04W-1Tr-PW-SSC-01-xga	
2 Other Beds	G-04W-2Ow02W-01-xga	
Telemetry	G-01W-Tele02W-02-xga	
Loops	G-06W-Loops-SpiroData-01-xga	
Cardiac Output	A-04W-cardiacOut-xga	
Wedge	A-06W-wedge1-xga	
External Device	A-07W-2Press-1x2ovl-VueLink-1Tr-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xga	
ST Segments	C-05W-2Press-03ST-snippets-xga	
Remote Applic.	G-01W-PT-01-xga	
Visitors	G-00W-visitor-screen-AClk-01-xga	
	MP90, DEMO, SXGA	
Name	File	
Service A	S-01W-01HighRes-service_A-xga	
Overlapping	G-08W-3Press-2x2ovl-xga	
Split Screen	G-08W-3Press-Tr-left-split-xga	
Graph Trends	G-00W-8Tr-only-01-xga	
HighResTrend	N-03W-04HighRes-3Press-EventSum-xga	
Vital Signs	G-05W-2Tr-TrA-01-xga	
Horizon	G-08W-Hor06Tr-01-sxga	
SSC Sepsis	G-04W-PW-SSC-01-xga	
Other Bed	G-06W-10w02W-1Tr-01-xga	
4 Other Beds	G-03W-4Ow02W-Tr-left-split-sxga	
Telemetry	G-01W-Tele02W-02-xga	
Loops	G-06W-Loops-SpiroData-01-xga	
Cardiac Output	A-04W-cardiacOut-xga	
Wedge	A-06W-wedge1-xga	
External Device	A-07W-2Press-1x2ovl-VueLink-1Tr-xga	
12 Lead ECG	C-13W-12Lead-Ow-Split-ST-snippets-STmap-01-xga	
Remote Applic A	G-01W-PT-01-xga	
Remote Applic B	G-00W-PT-Full-2nd-01-xga	
Wide Screen	G-08W-TrA-wide-10Tr-01-xga	
Tall Screen	G-07W-tall-02W-Loops-TrA-sxga	
12 Waves	G-12W-1x3ovI-2x2ovI-1split-sxga	

# **MP40/MP50 Screen Overview**

## MP40/50 Option H10 Screens

MP40-50, H10 A08, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
8 Waves	G-08W-3Press-01-svga	
6 Waves	G-06W-2Press-01-svga	
Overlapping	G-06W-2Press-1x2ovl-01-svga	
Split Screen A	G-06W-2Press-split-Tr-01-svga	
4 Waves A	G-04W-1Press-01-svga	
4 Waves B	G-04W-1Press-1Tr-02-svga	
Split Screen B	G-04W-1Press-split-Tr-01-svga	
SCC Sepsis	G-03W-1Tr-PW-SSC-01-svga	
Horizon	G-04W-Hor06Tr-01-svga	
Big Numerics	G-03W-bigNumerics-01-svga	
12 Lead ECG	C-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	
1	/IP40-50, H10 A06, SVGA	
Service A	S-02W-nbp-diag-svga	
6 Waves	G-06W-2Press-01-svga	
Overlapping	G-06W-2Press-1x2ovI-01-svga	
Split Screen A	G-06W-2Press-split-Tr-01-svga	
4 Waves A	G-04W-1Press-01-svga	
4 Waves B	G-04W-1Press-1Tr-02-svga	
Split Screen B	G-04W-1Press-split-Tr-01-svga	
3 Waves	G-03W-1Tr-02-svga	
SCC Sepsis	G-03VV-11r-PVV-SSC-01-svga	
Horizon	G-04VV-Hor06Tr-01-svga	
Big Numerics	G-03VV-bigiNumerics-01-svga	
12 Lead ECG	C-13VV-12Lead-STmap-01-svga	
VISITORS	G-00VV-VIsitor-screen-ACIK-01-svga	
Service A	S-02W-php-diag-syga	
	G-02W-10p-diag-svga	
4 Waves A 1 Waves B	G-04W-1Press-01-svga	
Qverlapping	G-04W-2Press-1x2ovI-01-svga	
Split Screen A	G-04W-1Press-split-Tr-01-svga	
3 Waves A	G-03W-01-svga	
3 Waves B	G-03W-1Tr-02-syga	
Split Screen B	G-03W-split-Tr-01-syga	
SCC Sensis	G-03W-1Tr-PW-SSC-01-svga	
Horizon	G-03W-Hor05Tr-01-svga	
Big Numerics	G-03W-bigNumerics-01-svga	
12 Lead ECG	C-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-ACIk-01-svga	

# MP40/50 Option H20 Screens

NameFileService AS-02W-nbp-diag-svgaOxyCRG BN-01W-03HW-event-01-svga0xyCRG BN-01W-03HW-event-01-svga8 WavesG-06W-2Press-01-svga6 WavesG-06W-2Press-01-svga0verlappingG-06W-2Press-1x2ov-01-svga4 Waves AG-04W-1Press-01-svga5 Waves BG-04W-1Press-01-svga8 Waves BG-04W-1Press-01-svga9 Waves BG-04W-1Press-01-svga9 Waves BG-04W-Hor06Tr-01-svga9 HorizonG-04W-Hor06Tr-01-svga9 HorizonG-04W-Hor06Tr-01-svga9 Waves GG-00W-visitor-screen-AClk-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svga0 XyCRG AN-03W-03HW-event-01-svga0 XyCRG BN-01W-03HW-event-01-svga0 XyCRG BN-01W-03HW-event-01-svga0 XyCRG BN-01W-03HW-event-01-svga0 XyCRG BG-04W-1Press-11r-02-svga3 WavesG-03W-11r-PW-SSC-01-svga4 Waves AG-04W-1Press-11r-02-svga3 WavesG-03W-11r-PW-SSC-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svga12 Lea	MP40-50, H20 A08, SVGA	
Service AS-02W-nbp-diag-svgaOxyCRG AN-03W-03HW-event-01-svgaOxyCRG BN-01W-03HW-event-01-svga8 WavesG-06W-2Press-01-svga6 WavesG-06W-2Press-1x2ovl-01-svga2 Waves AG-04W-1Press-01-svga4 Waves BG-04W-1Press-1Tr-02-svgaSCC SepsisG-03W-1Tr-PW-SSC-01-svgaHorizonG-04W-Hor06Tr-01-svgaBig NumericsG-03W-bigNumerics-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svgaVisitorsG-00W-visitor-screen-AClk-01-svgaOxyCRG AN-03W-03HW-event-01-svgaOxyCRG BN-01W-03HW-event-01-svgaOxyCRG BN-01W-03HW-event-01-svga0 Weves AG-04W-1Press-1Tr-02-svga2 Waves BG-04W-1Press-1Tr-02-svga3 WavesG-03W-bigNumerics-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svga0 VerlappingG-06W-2Press-1x2ovl-01-svga2 Waves AG-04W-1Press-01-svga3 Waves BG-04W-1Press-01-svga3 Waves G-03W-1Tr-02-svgaSCC SepsisG-03W-bigNumerics-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svgaVisitorsG-00W-visitor-screen-AClk-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svgaVisitorsG-00W-visitor-screen-AClk-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svgaVisitorsG-00W-visitor-screen-AClk-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svgaVisitorsG-00W-visitor-screen-AClk-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svga12 Lead ECG <td< th=""><th>Name</th><th>File</th></td<>	Name	File
OxyCRG A         N-03W-03HW-event-01-svga           OxyCRG B         N-01W-03HW-event-01-svga           8 Waves         G-06W-2Press-01-svga           6 Waves         G-06W-2Press-01-svga           0verlapping         G-06W-2Press-1x2ovl-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           OxyCRG A         N-03W-03HW-event-01-svga           OxyCRG B         N-01W-03HW-event-01-svga           OxyCRG B         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-1Tr-02-svga           3 Waves         G-03W-11r-PW-SSC-01-svga           SCC Sepsis         G-03W-11r-PW-SSC-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           2 Waves B         G-04W-Hor06Tr-01-svga           C Sepsis	Service A	S-02W-nbp-diag-svga
OxyCRG B         N-01W-03HW-event-01-svga           8 Waves         G-08W-3Press-01-svga           6 Waves         G-06W-2Press-01-svga           0verlapping         G-06W-2Press-1x2ovl-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           8 Waves G         G-04W-1Press-01-svga           9 Waves A         G-04W-1Press-01-svga           9 Waves G         G-04W-1Hor06Tr-01-svga           9 Waves G         G-04W-1Hor06Tr-01-svga           9 Waves G         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           0 XyCRG A         N-03W-03HW-event-01-svga           0 XyCRG B         N-01W-03HW-event-01-svga           0 XyCRG B         N-01W-03HW-event-01-svga           0 XyCRG B         N-01W-03HW-event-01-svga           0 XyVex A         G-04W-1Press-01-svga           0 Xwes B         G-04W-1Press-01-svga           0 Xwes B         G-04W-1Press-01-svga           10 Xwes B         G-04W-Hor06Tr-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           12 Lead ECG	OxyCRG A	N-03W-03HW-event-01-svga
8 Waves       G-08W-3Press-01-svga         6 Waves       G-06W-2Press-1x2ovl-01-svga         4 Waves A       G-04W-1Press-01-svga         4 Waves B       G-04W-1Press-01-svga         4 Waves B       G-04W-1Press-01-svga         SCC Sepsis       G-03W-1Tr-PW-SSC-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         0xyCRG A       S-02W-nbp-diag-svga         0xyCRG B       N-01W-03HW-event-01-svga         0xyCRG B       N-01W-03HW-event-01-svga         0xyCRG B       N-01W-03HW-event-01-svga         0xyCRG B       S-04W-1Press-01-svga         0xyCRG B       G-04W-1Press-01-svga         4 Waves A       G-04W-1Press-01-svga         5 Waves       G-03W-bigNumerics-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         0xyCRG       N-01W-03HW-event-01-svga         12	OxyCRG B	N-01W-03HW-event-01-svga
6 Waves       G-06W-2Press-01-svga         Overlapping       G-06W-2Press-1x2ovl-01-svga         4 Waves A       G-04W-1Press-01-svga         4 Waves B       G-04W-1Press-01-svga         SCC Sepsis       G-03W-thress-01-svga         Horizon       G-04W-Hor06Tr-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         0xyCRG A       N-03W-03HW-event-01-svga         0xyCRG B       N-01W-03HW-event-01-svga         0xyCRG B       N-01W-03HW-event-01-svga         0xyCRG B       N-01W-03HW-event-01-svga         0verlapping       G-06W-2Press-1x2ovl-01-svga         4 Waves A       G-04W-1Press-01-svga         4 Waves B       G-04W-1Press-01-svga         3 Waves       G-03W-1Tr-02-svga         SCC Sepsis       G-03W-1Tr-02-svga         Big Numerics       G-03W-bigNumerics-01-svga         Horizon       G-04W-Hor06Tr-01-svga         Horizon       G-04W-Hor06Tr-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Qverlapp	8 Waves	G-08W-3Press-01-svga
Overlapping         G-06W-2Press-1x2ovI-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-1Tr-02-svga           SCC Sepsis         G-03W-bigNumerics-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           0xyCRG A         N-03W-03HW-event-01-svga           0xyCRG B         N-01W-03HW-event-01-svga           0xyCRG B         N-01W-03HW-event-01-svga           0xyCRG B         N-01W-03HW-event-01-svga           0xyCRG B         G-04W-1Press-01-svga           0verlapping         G-06W-2Press-1x2ovl-01-svga           4 Waves A         G-04W-1Press-01-svga           3 Waves         G-03W-1Tr-02-svga           SCC Sepsis         G-03W-1Tr-02-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-04W-1Press-1Tr-02-svga           0xyCRG         N-01W-03HW-event-01-svga	6 Waves	G-06W-2Press-01-svga
4 Waves A       G-04W-1Press-01-svga         4 Waves B       G-04W-1Press-1Tr-02-svga         SCC Sepsis       G-03W-bigNumerics-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         0xyCRG A       N-03W-03HW-event-01-svga         0xyCRG B       N-01W-03HW-event-01-svga         0xyCRG B       N-01W-03HW-event-01-svga         0xyCRG B       N-01W-03HW-event-01-svga         0xyCRG B       G-04W-1Press-01-svga         0verlapping       G-06W-2Press-1x2ovl-01-svga         4 Waves A       G-04W-1Press-01-svga         3 Waves       G-03W-1Tr-02-svga         SCC Sepsis       G-03W-1Tr-02-svga         Big Numerics       G-03W-bigNumerics-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-04W-1Press-1Tr-02-svga         0xyCRG       N-01W-03HW-event-01-svga         4 Waves A       G-04W-1Press-1Tr-02-svga         0xyCRG       N-01W-03HW-event-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga <t< td=""><td>Overlapping</td><td>G-06W-2Press-1x2ovI-01-svga</td></t<>	Overlapping	G-06W-2Press-1x2ovI-01-svga
4 Waves B       G-04W-1Press-1Tr-02-svga         SCC Sepsis       G-03W-1Tr-PW-SSC-01-svga         Horizon       G-04W-Hor06Tr-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         0xyCRG A       N-03W-03HW-event-01-svga         0xyCRG B       N-01W-03HW-event-01-svga         0xyCRG B       N-01W-03HW-event-01-svga         0xyCRG B       N-01W-03HW-event-01-svga         0verlapping       G-06W-2Press-01-svga         0verlapping       G-06W-2Press-1x2ovl-01-svga         4 Waves A       G-04W-1Press-01-svga         3 Waves       G-03W-1Tr-02-svga         SCC Sepsis       G-03W-1Tr-02-svga         Big Numerics       G-03W-bigNumerics-01-svga         Horizon       G-04W-Hor06Tr-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-04W-1Press-1Tr-02-svga         Quese A       G-04W-1Press-01-svga         Quese A       G-04W-1Press-01-svga         Quese A       G-04W-1Press-01-svga         Quese A	4 Waves A	G-04W-1Press-01-svga
SCC Sepsis       G-03W-1Tr-PW-SSC-01-svga         Horizon       G-04W-Hor06Tr-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         MP40-50, H20 A06, SVGA         Service A         S-02W-nbp-diag-svga         OxyCRG A       N-03W-03HW-event-01-svga         OxyCRG B       N-01W-03HW-event-01-svga         6 Waves       G-06W-2Press-01-svga         0verlapping       G-06W-2Press-1x2ovl-01-svga         4 Waves A       G-04W-1Press-01-svga         3 Waves       G-03W-1Tr-02-svga         SCC Sepsis       G-03W-1Tr-PW-SSC-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         Horizon       G-04W-Hor06Tr-01-svga         Big Numerics       G-00W-visitor-screen-AClk-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-04W-1Press-1Tr-02-svga         Quese A       G-04W-1Press-11-svga         Quese A       G-04W-197         G-00W-visitor-screen-AClk-01-svga       Qverlapping         Qverlapping       G-04W-197 <td>4 Waves B</td> <td>G-04W-1Press-1Tr-02-svga</td>	4 Waves B	G-04W-1Press-1Tr-02-svga
HorizonG-04W-Hor06Tr-01-svgaBig NumericsG-03W-bigNumerics-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svgaVisitorsG-00W-visitor-screen-AClk-01-svgaVisitorsG-00W-visitor-screen-AClk-01-svgaMP40-50, H20 A06, SVGAService AS-02W-nbp-diag-svgaOxyCRG AN-03W-03HW-event-01-svgaOxyCRG BN-01W-03HW-event-01-svga6 WavesG-06W-2Press-01-svga0 VerlappingG-06W-2Press-1x2ovl-01-svga4 Waves AG-04W-1Press-01-svga3 WavesG-03W-1Tr-02-svgaSCC SepsisG-03W-1Tr-02-svgaBig NumericsG-03W-bigNumerics-01-svga12 Lead ECGC-13W-12Lead-STmap-01-svgaVisitorsG-00W-visitor-screen-AClk-01-svgaVisitorsG-04W-1Press-1Tr-02-svgaVisitorsG-04W-1Press-01-svgaVisitorsG-04W-1Press-01-svgaVisitorsG-00W-visitor-screen-AClk-01-svgaVisitorsG-00W-visitor-screen-AClk-01-svga4 Waves AG-04W-1Press-01-svga0xyCRGN-01W-03HW-event-01-svga4 Waves AG-04W-1Press-01-svga3 Waves AG-04W-1Press-01-svga3 Waves BG-04W-1Press-01-svga3 Waves BG-03W-01-svga3 Waves BG-03W-15-svga3 Waves BG-03W-15-svga <t< td=""><td>SCC Sepsis</td><td>G-03W-1Tr-PW-SSC-01-svga</td></t<>	SCC Sepsis	G-03W-1Tr-PW-SSC-01-svga
Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           MP40-50, H20 A06, SVGA         Service A           Service A         S-02W-nbp-diag-svga           OxyCRG A         N-03W-03HW-event-01-svga           Gwaves         G-06W-2Press-01-svga           Overlapping         G-06W-2Press-1x2ovl-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           SCC Sepsis         G-03W-iTr-02-svga           SCC Sepsis         G-03W-iTr-02-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           QxyCRG         N-01W-03HW-event-01-svga           QxyCRG <t< td=""><td>Horizon</td><td>G-04W-Hor06Tr-01-svga</td></t<>	Horizon	G-04W-Hor06Tr-01-svga
12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         MP40-50, H20 A06, SVGA         Service A       S-02W-nbp-diag-svga         OxyCRG A       N-03W-03HW-event-01-svga         Gwaves       G-06W-2Press-01-svga         Overlapping       G-06W-2Press-01-svga         Vaves A       G-04W-1Press-01-svga         4 Waves B       G-04W-1Press-01-svga         3 Waves       G-03W-1Tr-02-svga         SCC Sepsis       G-03W-1Tr-PW-SSC-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-04W-1Press-1Tr-02-svga         OxyCRG       N-01W-03HW-event-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-04W-1Press-1Tr-02-svga         Overlapping       G-04W-1Press-01-svga         Overlapping       G-04W-1Press-01-svga         Overlapping       G-04W-1Press-01-svga         3 Waves A       G-04W-1Press-1Tr-02-svga         3 Waves B       G-03W-01-svga         3 Waves A	Big Numerics	G-03W-bigNumerics-01-svga
Visitors         G-00W-visitor-screen-AClk-01-svga           MP40-50, H20 A06, SVGA           Service A         S-02W-nbp-diag-svga           OxyCRG A         N-03W-03HW-event-01-svga           OxyCRG B         N-01W-03HW-event-01-svga           6 Waves         G-06W-2Press-01-svga           Overlapping         G-06W-2Press-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           3 Waves         G-03W-1Tr-02-svga           SCC Sepsis         G-03W-1Tr-PW-SSC-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-1Tr-02-svga           Overlapping         G-04W-1Press-1Tr-02-svga           Visves A         G-04W-1Press-1Tr-02-svga           Vaves B         G-03W-01-svga	12 Lead ECG	C-13W-12Lead-STmap-01-svga
MP40-50, H20 A06, SVGA           Service A         S-02W-nbp-diag-svga           OxyCRG A         N-03W-03HW-event-01-svga           OxyCRG B         N-01W-03HW-event-01-svga           6 Waves         G-06W-2Press-01-svga           0verlapping         G-06W-2Press-1x2ovl-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           3 Waves         G-03W-1Tr-02-svga           3 Waves         G-03W-1Tr-PW-SSC-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           0xyCRG         N-01W-03HW-event-01-svga           0xyCRG         N-01W-03HW-event-01-svga           3 Waves B         G-04W-1Press-1Tr-02-svga           3 Waves B         G-04W-1Press-11-svga      <	Visitors	G-00W-visitor-screen-AClk-01-svga
MP40-50, H20 A06, SVGA           Service A         S-02W-nbp-diag-svga           OxyCRG A         N-03W-03HW-event-01-svga           OxyCRG B         N-01W-03HW-event-01-svga           6 Waves         G-06W-2Press-01-svga           0verlapping         G-06W-2Press-1x2ovl-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           3 Waves         G-03W-1Tr-02-svga           3 Waves         G-03W-1Tr-PW-SSC-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           0xyCRG         N-01W-03HW-event-01-svga           0xyCRG         N-01W-03HW-event-01-svga           3 Waves A         G-04W-1Press-01-svga           3 Waves B         G-04W-1Press-01-svga		
Service A         S-02W-nbp-diag-svga           OxyCRG A         N-03W-03HW-event-01-svga           OxyCRG B         N-01W-03HW-event-01-svga           6 Waves         G-06W-2Press-01-svga           0verlapping         G-06W-2Press-1x2ovl-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           3 Waves         G-03W-1Tr-02-svga           3 Waves         G-03W-1Tr-PW-SSC-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           3 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           3 Waves B         G-04W-1Press-1Tr-02-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga		MP40-50, H20 A06, SVGA
OxyCRG A         N-03W-03HW-event-01-svga           OxyCRG B         N-01W-03HW-event-01-svga           6 Waves         G-06W-2Press-01-svga           Overlapping         G-06W-2Press-1x2ovl-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           3 Waves         G-03W-1Tr-02-svga           3 Waves         G-03W-1Tr-02-svga           SCC Sepsis         G-03W-1Tr-PW-SSC-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-04W-1Press-01-svga           Vaves A         G-04W-1Press-1Tr-02-svga           Qverlapping         G-04W-1Press-11-svga           3 Waves B         G-04W-1Press-11-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga           3 Waves B         G-03W-1-svga	Service A	S-02W-nbp-diag-svga
OxyCRG B         N-01W-03HW-event-01-svga           6 Waves         G-06W-2Press-01-svga           0verlapping         G-06W-2Press-1x2ovl-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           3 Waves         G-03W-1Tr-02-svga           3 Waves         G-03W-1Tr-02-svga           SCC Sepsis         G-03W-1Tr-PW-SSC-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-04W-1Press-01-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           QVCRG         N-01W-03HW-event-01-svga           4 Waves B         G-04W-1Press-01-svga           0verlapping         G-04W-1Press-1Tr-02-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga           3 Waves B         G-03W-01-svga           3 Waves B         G-03W-1svga           3 Waves B         G-03W-1svga           3 Waves B         G-03W-1svga           SCC Sepsis	OxyCRG A	N-03W-03HW-event-01-svga
6 Waves       G-06W-2Press-01-svga         Overlapping       G-06W-2Press-1x2ovl-01-svga         4 Waves A       G-04W-1Press-01-svga         4 Waves B       G-04W-1Press-01-svga         3 Waves       G-03W-1Tr-02-svga         3 Waves       G-03W-1Tr-02-svga         SCC Sepsis       G-03W-1Tr-PW-SSC-01-svga         Horizon       G-04W-Hor06Tr-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         WP40-50, H20 A04, SVGA         Service A       S-02W-nbp-diag-svga         OxyCRG       N-01W-03HW-event-01-svga         4 Waves A       G-04W-1Press-01-svga         4 Waves B       G-04W-1Press-1Tr-02-svga         Overlapping       G-04W-2Press-1x2ovl-01-svga         3 Waves A       G-03W-01-svga         3 Waves B       G-03W-1svga         Scc Sepsis       G-03W-1svga	OxyCRG B	N-01VV-03HW-event-01-svga
Overlapping         G-06W-2Press-1x2ovI-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-1Tr-02-svga           3 Waves         G-03W-1Tr-02-svga           SCC Sepsis         G-03W-1Tr-PW-SSC-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-04W-1Press-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-04W-1Press-01-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           2 Waves B         G-04W-1Press-1Tr-02-svga           Overlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-1svga           3 Waves B         G-03W-1svga           SCC Sepsis         G-03W-split-Tr-01-svga           Sit Screen         G-03W-split-Tr-01-svga           Big Numerics	6 Waves	G-06W-2Press-01-svga
4 Waves A       G-04W-1Press-01-svga         4 Waves B       G-04W-1Press-1Tr-02-svga         3 Waves       G-03W-1Tr-02-svga         SCC Sepsis       G-03W-1Tr-PW-SSC-01-svga         Horizon       G-04W-Hor06Tr-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga         WP40-50, H20 A04, SVGA         Service A       S-02W-nbp-diag-svga         OxyCRG       N-01W-03HW-event-01-svga         4 Waves A       G-04W-1Press-01-svga         4 Waves B       G-04W-1Press-01-svga         2 Waves A       G-04W-1Press-1Tr-02-svga         3 Waves A       G-03W-01-svga         3 Waves B       G-03W-01-svga         3 Waves B       G-03W-01-svga         3 Waves B       G-03W-1Tr-02-svga         Split Screen       G-03W-split-Tr-01-svga         SCC Sepsis       G-03W-split-Tr-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         Horizon       G-03W-bigNumerics-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svpa     <	Overlapping	G-06VV-2Press-1x2ovI-01-svga
4 Waves B         G-04W-1Press-11r-02-svga           3 Waves         G-03W-1Tr-02-svga           SCC Sepsis         G-03W-1Tr-PW-SSC-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           0xyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           0verlapping         G-04W-2Press-1x2ovl-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-1r-02-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-split-Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           Horizon         G-03W-bigNumerics-01-svga           Big Numerics         G-03W-bigNumerics-01-svga     <	4 Waves A	G-04W-1Press-01-svga
3 Waves         G-03W-11r-02-svga           SCC Sepsis         G-03W-1Tr-PW-SSC-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           MP40-50, H20 A04, SVGA           Service A         S-02W-nbp-diag-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-11r-02-svga           0verlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-11r-02-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-Hor05Tr-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svpa	4 Waves B	G-04VV-1Press-11r-02-svga
SCC Sepsis         G-03W-11r-PW-SSC-01-svga           Horizon         G-04W-Hor06Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           MP40-50, H20 A04, SVGA           Service A         S-02W-nbp-diag-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-11r-02-svga           Overlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-11r-02-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-Hor05Tr-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svpa	3 VVaves	G-03VV-11r-02-svga
Horizon         G-04W-Hor061r-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           MP40-50, H20 A04, SVGA           Service A         S-02W-nbp-diag-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-1Tr-02-svga           Overlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga           Scc Sepsis         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-Hor05Tr-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga	SCC Sepsis	G-03VV-11r-PVV-SSC-01-svga
Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           MP40-50, H20 A04, SVGA           Service A         S-02W-nbp-diag-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-1Tr-02-svga           Overlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga           Scc Sepsis         G-03W-split-Tr-01-svga           Big Numerics         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga	Horizon	G-04VV-Hor06Tr-01-svga
12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga           MP40-50, H20 A04, SVGA           Service A         S-02W-nbp-diag-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-1Tr-02-svga           Overlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-Hor05Tr-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svpa	Big Numerics	G-03VV-bigNumerics-01-svga
MP40-50, H20 A04, SVGA           Service A         S-02W-nbp-diag-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-1Tr-02-svga           0verlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-Hor05Tr-01-svga           Horizon         G-03W-Hor05Tr-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga	12 Lead ECG	C-13VV-12Lead-STmap-01-svga
MP40-50, H20 A04, SVGA           Service A         S-02W-nbp-diag-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-1Tr-02-svga           0verlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-Hor05Tr-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svpa	Visitors	G-00VV-visitor-screen-ACIK-01-svga
MP40-50, H20 A04, SVGA           Service A         S-02W-nbp-diag-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-1Tr-02-svga           0verlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-Hor05Tr-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svpa		
Service A         S-02/V-http-olag-svga           OxyCRG         N-01W-03HW-event-01-svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-01-svga           0verlapping         G-04W-2Press-1x2ovl-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga           3 Waves B         G-03W-01-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-Hor05Tr-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svpa	Casilan A	MP40-50, H20 A04, SVGA
Oxycrcs         IN-01W-05HW-event-01svga           4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-1Tr-02-svga           Overlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-hor05Tr-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svpa	Ower CPC	S-02VV-http-diag-svga
4 Waves A         G-04W-1Press-01-svga           4 Waves B         G-04W-1Press-1Tr-02-svga           Overlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-01-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-1Tr-PW-SSC-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svpa		C 04W 1Dropp 01 even
4 Waves D         G-04W-1Press-Tri-02-svga           Overlapping         G-04W-2Press-1x2ovI-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-1Tr-02-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-1Tr-PW-SSC-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga	4 Waves A	G 04W/ 1Press 1Tr 02 over
Overlapping         G-04W-2Press-1x20V-01-svga           3 Waves A         G-03W-01-svga           3 Waves B         G-03W-1Tr-02-svga           Split Screen         G-03W-split-Tr-01-svga           SCC Sepsis         G-03W-1Tr-PW-SSC-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga	4 vvaves D	C 04W 2Propo 1x2out 01 ouroo
3 Waves B       G-03W-01-svga         3 Waves B       G-03W-1Tr-02-svga         Split Screen       G-03W-split-Tr-01-svga         SCC Sepsis       G-03W-1Tr-PW-SSC-01-svga         Horizon       G-03W-Hor05Tr-01-svga         Big Numerics       G-03W-bigNumerics-01-svga         12 Lead ECG       C-13W-12Lead-STmap-01-svga         Visitors       G-00W-visitor-screen-AClk-01-svga	3 Wayee A	G 03W 01 over
Strates D     G-03W-111-02-siga       Split Screen     G-03W-split-Tr-01-svga       SCC Sepsis     G-03W-1Tr-PW-SSC-01-svga       Horizon     G-03W-Hor05Tr-01-svga       Big Numerics     G-03W-bigNumerics-01-svga       12 Lead ECG     C-13W-12Lead-STmap-01-svga       Visitors     G-00W-visitor-screen-AClk-01-svga	3 Wayes R	G 03W/ 1Tr 02 cvra
Scc Sepsis         G-03W-split-fr-or-svga           Scc Sepsis         G-03W-1Tr-PW-SSC-01-svga           Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga	Split Screen	G-03W-enlit-Tr-01-evga
Horizon         G-03W-Hor05Tr-01-svga           Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga	SCC Sensis	G.03W-1Tr-PW-SSC-01-svga
Big Numerics         G-03W-bigNumerics-01-svga           12 Lead ECG         C-13W-12Lead-STmap-01-svga           Visitors         G-00W-visitor-screen-AClk-01-svga	Horizon	G-03W-Hor05Tr-01-svga
12 Lead ECG C-13W-12Lead-STmap-01-svga Visitors G-00W-visitor-screen-AClk-01-svga	Big Numerics	G-03W-bigNumerics-01-svga
Visitors G-00W-visitor-screen-AClk-01-svga	12 Lead ECG	C-13W-12Lead-STman-01-syga
	Visitors	G-00W-visitor-screen-ACIk-01-svga

## MP40/50 Option H30 Screens

IV	MP40-50, H30 A08, SVGA	
Name	File	
Service A	S-02W-nbp-diag-svga	
8 Waves	A-08W-3Press-01-svga	
BIS	A-05W-2Press-1Tr-BIS-01-svga	
6 Waves A	A-06W-2Press-01-svga	
6 Waves B	A-06W-2Press-1Tr-01-svga	
Overlapping	A-06W-2Press-1x2ovI-01-svga	
Split Screen	A-06W-2Press-split-Tr-01-svga	
4 Waves	A-04W-1Press-1Tr-02-svga	
SCC Sepsis	G-03W-1Tr-PW-SSC-01-svga	
Horizon	A-04W-Hor06Tr-01-svga	
Big Numerics	A-03W-bigNumerics-01-svga	
12 Lead ECG	A-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	
IV	IP40-50, H30 A06, SVGA	
Service A	S-02W-nbp-diag-svga	
BIS	A-05W-2Press-1Tr-BIS-01-svga	
6 Waves A	A-06W-2Press-01-svga	
6 Waves B	A-06W-2Press-1Tr-01-svga	
Overlapping	A-06W-2Press-1x2ovI-01-svga	
Split Screen	A-06W-2Press-split-Tr-01-svga	
4 Waves A	A-04W-1Press-1Tr-02-svga	
4 Waves B	A-04VV-1Press-02-svga	
SCC Sepsis	G-03VV-1Tr-PVV-SSC-01-svga	
Horizon	A-04VV-Hor061r-01-svga	
Big Numerics	A-03VV-bigNumerics-01-svga	
12 Lead ECG	A-13VV-12Lead-S1map-01-svga	
VISITORS	G-00VV-visitor-screen-ACIK-01-svga	
N Service A	P40-50, H30 A04, SVGA	
DIC A	A 04W/ 1Droop 1TrPIS 01 over	
	A-04W/ IPress-TITDIS-01-svga	
4 Waves A	A 04W/ 1Press-111-02-svga	
4 waves D Overlapping	A 04W/2Proce 1x2ovl 02 even	
Split Scroop	A-04W-1Proce cplit_Tr.02-svga	
3 Wayee A	A-04W-11-1ess-split-11-02-svga	
3 Waves B	A-03W-1Tr-01-svga	
SCC Sensis	G-03W-1Tr-PW-SSC-01-svga	
Horizon	A-03W-Hor05Tr-01-svga	
Big Numerics	A-03W-bigNumerics-01-svga	
12 Lead ECG	A-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	

# MP40/50 Option H40 Screens

MP40-50, H40 A08, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
8 Waves	C-08W-3Press-01-svga	
6 Waves	C-06W-2Press-01-svga	
Overlapping	C-06W-2Press-1x2ovI-01-svga	
Split Screen A	C-06W-2Press-split-Tr-01-svga	
ST Segments	C-05W-03ST-snippets-01-svga	
4 Waves	C-04W-1Press-1Tr-02-svga	
Split Screen B	C-04W-1Press-split-Tr-01-svga	
SCC Sepsis	G-03W-1Tr-PW-SSC-01-svga	
Horizon	C-04W-Hor06Tr-01-svga	
Big Numerics	G-03W-bigNumerics-01-svga	
12 Lead ECG	C-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	
M	P40-50, H40 A06, SVGA	
Service A	S-02W-nbp-diag-svga	
6 Waves	C-06W-2Press-01-svga	
Overlapping	C-06W-2Press-1x2ovl-01-svga	
Split Screen A	C-06W-2Press-split-Tr-01-svga	
ST Segments	C-05W-03ST-snippets-01-svga	
4 Waves A	C-04W-1Press-01-svga	
4 Waves B	C-04W-1Press-1Tr-02-svga	
Split Screen B	C-04W-1Press-split-Tr-01-svga	
SCC Sepsis	G-03W-1Tr-PW-SSC-01-svga	
Horizon	C-04W-Hor06Tr-01-svga	
Big Numerics	G-03W-bigNumerics-01-svga	
12 Lead ECG	C-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	
M	P40-50, H40 A04, SVGA	
Service A	S-02VV-nbp-diag-svga	
4 Waves A	C-04VV-1Press-01-svga	
4 Waves B	C-04VV-1Press-11r-02-svga	
Overlapping	C-04VV-2Press-1x2ovI-01-svga	
Split Screen A	C-04VV-1Press-split-1r-01-svga	
ST Segments	C-03VV-03ST-snippets-01-svga	
S VVAVes	C-03W-nlit Tr 01 curre	
Split Screen B	C-03W-1Tr DW SSC 01 aver-	
SUC Sepsis	C 03W Her05Tr 01 even	
Pig Numerice	C 02W bigNumorics 01 sure	
Dig Numerics	C 12W 12L and STman 01 area	
Vioitoro	C-15W-12Lead-S1map-01-svga	
VISILOIS	G-0077-VISILOI-SCIEEN-ACIK-01-SVga	

# MP40/50 Demo Configuration Screens

MP40-50, DEMO, SVGA	
Name	File
Service A	S-02W-nbp-diag-svga
Big Numerics	G-03W-bigNumerics-02-svga
4 Waves A	G-04W-1Press-1Tr-02-svga
5 Waves A	A-05W-2Press-1Tr-BIS-01-svga
6 Waves A	G-06W-2Press-01-svga
Split Screen A	G-06W-2Press-split-Tr-01-svga
HighResTrend	N-01W-03HW-event-01-svga
Vital Signs A	G-04W-TrA-01-svga
SCC Sepsis	G-03W-1Tr-PW-SSC-01-svga
Horizon	A-03W-Hor05Tr-01-svga
2 Other Beds	G-02W-2Ow01W-01-svga
Telemetry	G-01W-Tele02W-01-svga
Loops	G-04W-2TrBIS-Loops-01-svga
Demo A	G-03W-Loops-Spiro-01-svga
Cardiac Output	G-04W-2Press-cardiac-out-01-svga
Wedge	G-03W-1Press-wedge-01-svga
External Device	G-03W-1Press-vuelink-01-svga
12 Lead ECG	C-13W-12Lead-STmap-01-svga
ST Segments	C-05W-03ST-snippets-01-svga
Remote Applic.	G-02W-PT-01-svga
Visitors	G-00W-visitor-screen-AClk-01-svga

## MP20/MP30 Screen Overview

## MP20/30 Option H10 Screens

MP20-30, H10 A06, SVGA	
Name	File
Service A	S-02W-nbp-diag-svga
6 Waves	G-06W-2Press-01-svga
Overlapping	G-06W-2Press-1x2ovI-01-svga
Split Screen A	G-06W-2Press-split-Tr-01-svga
4 Waves A	G-04W-1Press-01-svga
4 Waves B	G-04W-1Press-1Tr-02-svga
Split Screen B	G-04W-1Press-split-Tr-01-svga
3 Waves	G-03W-1Tr-02-svga
Horizon	G-04W-Hor06Tr-01-svga
Big Numerics	G-03W-bigNumerics-01-svga
12 Lead ECG	C-13W-12Lead-STmap-01-svga
Visitors	G-00W-visitor-screen-AClk-01-svga
	MP20-30, H10 A04, SVGA
Service A	S-02W-nbp-diag-svga
4 Waves A	G-04W-1Press-01-svga
4 Waves B	G-04W-1Press-1Tr-02-svga
Overlapping	G-04W-2Press-1x2ovl-01-svga
Split Screen A	G-04W-1Press-split-Tr-01-svga
3 Waves A	G-03W-01-svga
3 Waves B	G-03W-1Tr-02-svga
Split Screen B	G-03W-split-Tr-01-svga
Horizon	G-03W-Hor05Tr-01-svga
Big Numerics	G-03W-bigNumerics-01-svga
12 Lead ECG	C-13W-12Lead-STmap-01-svga
Visitors	G-00W-visitor-screen-AClk-01-svga
	MP20-30, H10 A03, SVGA
Service A	S-02W-nbp-diag-svga
3 Waves A	G-03W-01-svga
3 Waves B	G-03W-02-svga
3 Waves C	G-03W-1Tr-02-svga
Overlapping	G-03W-1x2ovI-01-svga
Split Screen	G-03W-split-Tr-01-svga
2 Waves A	G-02W-ow-1Tr-01-svga
2 Waves B	G-02W-ow-01-svga
Horizon	G-03W-Hor05Tr-01-svga
Big Numerics	G-03W-bigNumerics-01-svga
12 Lead ECG	C-13W-12Lead-STmap-01-svga
Visitors	G-00W-visitor-screen-ACIk-01-svga

## MP20/30 Option H20 Screens

MP20-30, H20 A06, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
OxyCRG A	N-03W-03HW-event-01-svga	
OxyCRG B	N-01W-03HW-event-01-svga	
6 Waves	G-06W-2Press-01-svga	
Overlapping	G-06W-2Press-1x2ovI-01-svga	
4 Waves A	G-04W-1Press-01-svga	
4 Waves B	G-04W-1Press-1Tr-02-svga	
3 Waves	G-03W-1Tr-02-svga	
Horizon	G-04W-Hor06Tr-01-svga-Rev004	
Big Numerics	G-03W-bigNumerics-01-svga	
12 Lead ECG	C-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	
	MP20-30, H20 A04, SVGA	
Service A	S-02W-nbp-diag-svga	
OxyCRG	N-01W-03HW-event-01-svga	
4 Waves A	G-04W-1Press-01-svga	
4 Waves B	G-04W-1Press-1Tr-02-svga	
Overlapping	G-04W-2Press-1x2ovl-01-svga	
Split Screen	G-04W-1Press-split-Tr-01-svga	
3 Waves A	G-03W-01-svga	
3 Waves B	G-03W-1Tr-02-svga	
Horizon	G-03W-Hor05Tr-01-svga	
Big Numerics	G-03W-bigNumerics-01-svga	
12 Lead ECG	C-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	
	MP20-30, H20 A03, SVGA	
Service A	S-02W-nbp-diag-svga	
CRG	N-01W-02HW-event-01-svga	
3 Waves A	G-03W-01-svga	
3 Waves B	G-03W-02-svga	
3 Waves C	G-03W-1Tr-02-svga	
Overlapping	G-03W-1x2ovI-01-svga	
Split Screen	G-03W-split-Tr-01-svga	
2 Waves	G-02W-ow-1Tr-01-svga	
Horizon	G-03W-Hor05Tr-01-svga	
Big Numerics	G-03W-bigNumerics-01-svga	
12 Lead ECG	C-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	

# MP20/30Option H30 Screens

MP20-30, H30 A06, SVGA	
Name	File
Service A	S-02W-nbp-diag-svga
BIS	A-05W-2Press-1Tr-BIS-01-svga
6 Waves A	A-06W-2Press-01-svga
6 Waves B	A-06W-2Press-1Tr-01-svga
Overlapping	A-06W-2Press-1x2ovI-01-svga
Split Screen	A-06W-2Press-split-Tr-01-svga
4 Waves A	A-04W-1Press-1Tr-02-svga
4 Waves B	A-04W-1Press-02-svga
Horizon	A-04W-Hor06Tr-01-svga
Big Numerics	A-03W-bigNumerics-01-svga
12 Lead ECG	A-13W-12Lead-STmap-01-svga
Visitors	G-00W-visitor-screen-AClk-01-svga
	MP20-30, H30 A04, SVGA
Service A	S-02W-nbp-diag-svga
4 Waves A	A-04W-1Press-02-svga
4 Waves B	A-04W-1Press-1Tr-02-svga
Overlapping	A-04W-2Press-1x2ovI-02-svga
Split Screen A	A-04W-1Press-split-Tr-02-svga
3 Waves A	A-03W-01-svga
3 Waves B	A-03W-1Tr-02-svga
Split Screen B	A-03W-split-Tr-01-svga
Horizon	A-03W-Hor05Tr-01-svga
Big Numerics	A-03W-bigNumerics-02-svga
12 Lead ECG	A-13W-12Lead-STmap-01-svga
Visitors	G-00W-visitor-screen-AClk-01-svga
	MP20-30, H30 A03, SVGA
Service A	S-02W-nbp-diag-svga
3 Waves A	A-03W-02-svga
3 Waves B	A-03W-01-svga
3 Waves C	A-03W-1Tr-02-svga
Overlapping	A-03W-1x2ovI-01-svga
Split Screen	A-03W-split-Tr-01-svga
2 Waves A	A-02W-01-svga
2 Waves B	A-02W-1Tr-01-svga
Horizon	A-03W-Hor05Tr-01-svga
Big Numerics	A-03W-bigNumerics-02-svga
12 Lead ECG	A-13W-12Lead-STmap-01-svga
Visitors	G-00W-visitor-screen-AClk-01-svga

## MP20/30 Option H40 Screens

MP20-30, H40 A06, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
6 Waves	C-06W-2Press-01-svga	
Overlapping	C-06W-2Press-1x2ovl-01-svga	
Split Screen A	C-06W-2Press-split-Tr-01-svga	
ST Segments	C-05W-03ST-snippets-01-svga	
4 Waves A	C-04W-1Press-01-svga	
4 Waves B	C-04W-1Press-1Tr-02-svga	
Split Screen B	C-04W-1Press-split-Tr-01-svga	
Horizon	C-04W-Hor06Tr-01-svga	
Big Numerics	G-03W-bigNumerics-01-svga	
12 Lead ECG	C-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	
	MP20-30, H40 A04, SVGA	
Service A	S-02W-nbp-diag-svga	
4 Waves A	C-04W-1Press-01-svga	
4 Waves B	C-04W-1Press-1Tr-02-svga	
Overlapping	C-04W-2Press-1x2ovl-01-svga	
Split Screen A	C-04W-1Press-split-Tr-01-svga	
ST Segments	C-03W-03ST-snippets-01-svga	
3 Waves	C-03W-1Tr-02-svga	
Split Screen B	C-03W-split-Tr-01-svga	
Horizon	C-03W-Hor05Tr-01-svga	
Big Numerics	G-03W-bigNumerics-01-svga	
12 Lead ECG	C-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	
	MP20-30, H40 A03, SVGA	
Service A	S-02W-nbp-diag-svga	
3 Waves A	C-03W-01-svga	
3 Waves B	C-03W-02-svga	
3 Waves C	C-03W-1Tr-02-svga	
Overlapping	G-03W-1x2ovl-01-svga	
Split Screen	C-03W-split-Tr-01-svga	
2 Waves A	C-02W-ow-1Tr-01-svga	
2 Waves B	C-02W-ow-01-svga	
Horizon	C-03W-Hor05Tr-01-svga	
Big Numerics	G-03W-bigNumerics-01-svga	
12 Lead ECG	C-13W-12Lead-STmap-01-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	

# MP20/30Demo Configuration Screens

MP20-30, DEMO, SVGA	
Name	File
Service A	S-02W-nbp-diag-svga
Big Numerics	G-03W-bigNumerics-02-svga
2 Waves A	G-02W-ow-01-svga
2 Waves B	G-02W-ow-1Tr-01-svga
3 Waves A	G-03W-01-svga
3 Waves B	G-03W-1Tr-02-svga
4 Waves A	G-04W-1Press-01-svga
4 Waves B	G-04W-1Press-1Tr-02-svga
Split Screen A	G-04W-1Press-split-Tr-01-svga
Split Screen B	G-06W-2Press-split-Tr-left-01-svga
HighResTrend	N-01W-03HW-event-01-svga
Vital Signs A	G-04W-TrA-01-svga
Horizon	A-03W-Hor05Tr-01-svga
2 Other Beds	G-02W-2Ow01W-01-svga
Telemetry	G-01W-Tele02W-01-svga
Cardiac Output	G-03W-1Press-cardiac-out-01-svga
Wedge	G-01W-wedge-01-svga
12 Lead ECG	C-13W-12Lead-STmap-01-svga
ST Segments	C-03W-03ST-snippets-01-svga
Demo A	C-04W-1Press-Hor06Tr-svga
Visitors	G-00W-visitor-screen-AClk-01-svga

## MP20 Junior (M20) & MP20L (M21) Screen Overview

Note that the MP20L is available in the US only.

## MP20 M20/M21 Option H10 Screens

MP20, H10 A03 M20, SVGA	
Name	File
Service A	S-02W-nbp-diag-svga
3 Waves A	G-03W-1Tr-22-svga
3 Waves B	G-03W-21-svga
3 Waves C	G-03W-22-svga
Big Numerics	G-03W-bigNumerics-24-svga
2 Waves A	G-02W-ow-1Tr-21-svga
2 Waves B	G-02W-ow-21-svga
Overlapping	G-03W-1x2ovI-21-svga
Split Screen	G-03W-split-Tr-21-svga
12 Lead ECG	C-13W-12Lead-23-svga
MP20, H10 A03 M21, SVGA	
Service A	S-02W-nbp-diag-svga
3 Waves	G-03W-1Tr-22-svga
2 Waves	G-02W-ow-1Tr-21-svga
Big Numerics	G-03W-bigNumerics-24-svga

## MP20 M20 Option H20 Screens

MP20, H20 A03 M20, SVGA	
Name	File
Service A	S-02W-nbp-diag-svga
3 Waves A	G-03W-1Tr-22-svga
3 Waves B	G-03W-21-svga
3 Waves C	G-03W-22-svga
Big Numerics	G-03W-bigNumerics-24-svga
2 Waves A	G-02W-ow-1Tr-21-svga
2 Waves B	G-02W-ow-21-svga
Overlapping	G-03W-1x2ovl-21-svga
Split Screen	G-03W-split-Tr-21-svga
12 Lead ECG	C-13W-12Lead-23-svga

# **MP5 Screen Overview**

## **MP5 Option H10 Screens**

MP5, H10 A04, SVGA	
Name	File
Service A	S-02W-nbp-diag-svga
1 Wave	G-01W-1Tr-51-svga
2 Waves	G-02W-1Tr-51-svga
3 Waves	G-03W-1Tr-51-svga
4 Waves	G-04W-1Tr-51-svga
Vital Signs	G-01W-TrA-51-svga
Split Screen A	G-03W-split-Tr-1Tr-51-svga
Split Screen B	G-04W-split-Tr-1Tr-51-svga
Other Bed	G-03W-10w01W-52-svga
12 Lead ECG	C-13W-12Lead-STmap-51-svga
	MP5, H10 A03, SVGA
Name	File
Service A	S-02W-nbp-diag-svga
1 Wave	G-01W-1Tr-51-svga
2 Waves	G-02W-1Tr-51-svga
3 Waves	G-03W-1Tr-51-svga
Vital Signs	G-01W-TrA-51-svga
Split Screen	G-03W-split-Tr-1Tr-51-svga
Other Bed	G-02W-10w01W-51-svga
12 Lead ECG	C-13W-12Lead-STmap-51-svga

## **MP5 Option H20 Screens**

MP5, H20 A04, SVGA	
Name	File
Service A	S-02W-nbp-diag-svga
1 Wave	G-01W-1Tr-51-svga
2 Waves	G-02W-1Tr-51-svga
3 Waves	G-03W-1Tr-51-svga
4 Waves	G-04W-1Tr-51-svga
OxyCRG	N-01W-03HW-51-svga
Vital Signs	G-01W-TrA-51-svga
Split Screen A	G-03W-split-Tr-1Tr-51-svga
Split Screen B	G-04W-split-Tr-1Tr-51-svga
Other Bed	G-03W-10w01W-52-svga
	MP5, H20 A03, SVGA
Name	File
Service A	S-02W-nbp-diag-svga
1 Wave	G-01W-1Tr-51-svga
2 Waves	G-02W-1Tr-51-svga
3 Waves	G-03W-1Tr-51-svga
CRG	N-01W-02HW-51-svga
Vital Signs	G-01W-TrA-51-svga
Split Screen	G-03W-split-Tr-1Tr-51-svga
Other Bed	G-02W-10w01W-51-svga

## **MP5 Option H30 Screens**

MP5, H30 A04, SVGA	
Name	File
Service A	S-02W-nbp-diag-svga
1 Wave	G-01W-1Tr-51-svga
2 Waves	A-02W-GM-1Tr-51-svga
3 Waves	G-03W-1Tr-51-svga
4 Waves A	G-04W-1Tr-51-svga
4 Waves B	A-04W-GM-51-svga
Vital Signs	G-01W-TrA-51-svga
Split Screen A	G-03W-split-Tr-1Tr-51-svga
Split Screen B	G-04W-split-Tr-1Tr-51-svga
Other Bed	G-03W-10w01W-52-svga
	MP5, H30 A03, SVGA
Name	File
Service A	S-02W-nbp-diag-svga
1 Wave	G-01W-1Tr-51-svga
2 Waves	A-02W-GM-1Tr-51-svga
3 Waves A	G-03W-1Tr-51-svga
3 Waves B	A-03W-GM-51-svga
Vital Signs	G-01W-TrA-51-svga
Split Screen	G-03W-split-Tr-1Tr-51-svga
Other Bed	G-02W-10w01W-51-svga

## **MP5 Option H40 Screens**

MP5, H40 A04, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
1 Wave	G-01W-1Tr-51-svga	
2 Waves	G-02W-1Tr-51-svga	
3 Waves	G-03W-1Tr-51-svga	
4 Waves	G-04W-1Tr-51-svga	
ST MAP	C-04W-ST-Map-1Tr-51-svga	
Vital Signs	G-01W-TrA-51-svga	
Split Screen A	G-03W-split-Tr-1Tr-51-svga	
Split Screen B	G-04W-split-Tr-1Tr-51-svga	
Other Bed	C-03W-1Ow01W-51-svga	
Telemetry	G-01W-Tele02W-51-svga	
12 Lead ECG	C-13W-12Lead-STmap-51-svga	
	MP5, H40 A03, SVGA	
Name	File	
Service A	S-02W-nbp-diag-svga	
1 Wave	G-01W-1Tr-51-svga	
2 Waves	G-02W-1Tr-51-svga	
3 Waves	G-03W-1Tr-51-svga	
ST MAP	C-03W-ST-Map-1Tr-51-svga	
Vital Signs	G-01W-TrA-51-svga	
Split Screen	G-03W-split-Tr-1Tr-51-svga	
Other Bed	C-02W-1Ow01W-51-svga	
Telemetry	G-01W-Tele02W-51-svga	
12 Lead ECG	C-13W-12Lead-STmap-51-svga	

# MP5 Demo Configuration Screens

MP5, DEMO, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
1 Wave	G-01W-1Tr-51-svga	
2 Waves	G-02W-1Tr-51-svga	
3 Waves	G-03W-1Tr-51-svga	
4 Waves	G-04W-1Tr-51-svga	
Vital Signs	G-01W-TrA-51-svga	
Split Screen A	G-03W-split-Tr-1Tr-51-svga	
Split Screen B	G-04W-split-Tr-1Tr-51-svga	
2 Other Beds	G-02W-2Ow01W-01-svga	
12 Lead ECG	C-13W-12Lead-STmap-51-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	
Big Numerics	G-03W-bigNumerics-55-svga	
3 Waves A	A-03W-GM-51-svga	
4 Waves A	A-04W-GM-51-svga	
Overlapping	G-04W-2Press-1x2ovI-51-svga	
ST MAP	C-04W-ST-Map-1Tr-51-svga	
Horizon	G-04W-Hor06Tr-51-svga	
OxyCRG	N-01W-03HW-51-svga	
Telemetry	G-01W-Tele02W-51-svga	

## MP5 with Options B10/B11/B14 Screens

MP5, H10 A03 B10, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
Big Numerics	G-00W-1Tr-60-svga	
1 Wave	G-01W-1Tr-60-svga	
Horizon	G-01W-1Tr-Hor03Tr-60-svga	
Vital Signs A	G-00W-TrA-60-svga	
Vital Signs B	G-01W-TrA-60-svga	
Other Bed	G-01W-1Tr-1Ow01W-60-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	
MP5, H10 A03 B11, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
Big Numerics	G-00W-1Tr-61-svga	
1 Wave	G-01W-1Tr-60-svga	
Horizon	G-01W-1Tr-Hor04Tr-61-svga	
Vital Signs A	G-00W-TrA-60-svga	
Vital Signs B	G-01W-TrA-60-svga	
Other Bed	G-01W-1Tr-1Ow01W-60-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	
MP5, H10 A03 B14, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
Big Numerics	G-00W-1Tr-64-svga	
1 Wave A	G-01W-1Tr-60-svga	
1 Wave B	G-01W-1Tr-64-svga	
2 Waves	G-02W-1Tr-64-svga	
Horizon	G-01W-1Tr-Hor04Tr-64-svga	
Vital Signs A	G-00W-TrA-60-svga	
Vital Signs B	G-01W-TrA-60-svga	
Other Bed	G-01W-1Tr-1Ovv01W-60-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	

## **MP5T Screen Overview**

MP5T, H10 A03, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
1 Wave	G-01W-1Tr-51-svga	
2 Waves	G-02W-1Tr-51-svga	
3 Waves	G-03W-1Tr-52-svga	
Vital Signs	G-01W-TrA-51-svga	
ST MAP	C-03W-ST-Map-1Tr-51-svga	
12 Lead ECG	C-13W-12Lead-STmap-51-svga	

## **MP5SC Screen Overview**

### MP5SC with Non-English Language

MP5SC, H10 A03, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
EWS Scoring	G-01W-PW-EWS-02-svga	
Vital Signs	G-01W-TrA-70-svga	
1 Wave	G-01W-1Tr-2TM-70-svga	
2 Waves	G-02W-1Tr-2TM-70-svga	
3 Waves	G-03W-1Tr-2TM-70-svga	
Split Screen	G-03W-split-Tr-1Tr-2TM-70-svga	
Visitors	G-00W-visitor-screen-ACIk-01-svga	
	MP5SC, H10 A03 C27, SVGA	
Name	File	
Service A	S-02W-nbp-diag-svga	
EWS Scoring	G-01W-PW-EWS-02-svga	
Vital Signs	G-01W-TrA-70-svga	
RRT	G-03W-ST-Map-1Tr-2TM-70-svga	
Dynamic Waves	G-03Wdyn-1Tr-2TM-70-svga	
1 Wave	G-01W-1Tr-2TM-70-svga	
2 Waves	G-02W-1Tr-2TM-70-svga	
3 Waves	G-03W-1Tr-2TM-70-svga	
Split Screen	G-03W-split-Tr-1Tr-2TM-70-svga	
Vicitore	G-00W-visitor-screen-AClk-01-svga	

#### MP5SC with English Language

MP5SC, H10 A03 SpotCheck, SVGA			
Name	File		
Service A	S-02W-nbp-diag-svga		
EWS/SpotCheck	G-01W-PW-EWS-02-svga		
Vital Signs	G-01W-TrA-70-svga		
1 Wave	G-01W-1Tr-2TM-70-svga		
2 Waves	G-02W-1Tr-2TM-70-svga		
3 Waves	G-03W-1Tr-2TM-70-svga		
Split Screen	G-03W-split-Tr-1Tr-2TM-70-svga		
Visitors	G-00W-visitor-screen-AClk-01-svga		
MP5S	MP5SC, H10 A03 C27 SpotCheck, SVGA		
Name	File		
Service A	S-02W-nbp-diag-svga		
EWS/SpotCheck	G-01W-PW-EWS-02-svga		
Vital Signs	G-01W-TrA-70-svga		
RRT	G-03W-ST-Map-1Tr-2TM-70-svga		
Resus	G-03Wdyn-1Tr-2TM-70-svga		
1 Wave	G-01W-1Tr-2TM-70-svga		
2 Waves	G-02W-1Tr-2TM-70-svga		
3 Waves	G-03W-1Tr-2TM-70-svga		
Split Screen	G-03W-split-Tr-1Tr-2TM-70-svga		
Visitors	G-00W-visitor-screen-AClk-01-svga		

## MP5#P05 with Non-English Language

MP5, H10 A03 P05, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
EWS Scoring	G-01W-PW-EWS-02-svga	
Vital Signs	G-01W-TrA-70-svga	
RRT	G-03W-ST-Map-1Tr-2TM-70-svga	
Dynamic Waves	G-03Wdyn-1Tr-2TM-70-svga	
1 Wave	G-01W-1Tr-2TM-70-svga	
2 Waves	G-02W-1Tr-2TM-70-svga	
3 Waves	G-03W-1Tr-2TM-70-svga	
Split Screen	G-03W-split-Tr-1Tr-2TM-70-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	

## MP5#P05 with English Language

MP5, H10 A03 P05 SpotCheck, SVGA		
Name	File	
Service A	S-02W-nbp-diag-svga	
EWS/SpotCheck	G-01W-PW-EWS-02-svga	
Vital Signs	G-01W-TrA-70-svga	
RRT	G-03W-ST-Map-1Tr-2TM-70-svga	
Resus	G-03Wdyn-1Tr-2TM-70-svga	
1 Wave	G-01W-1Tr-2TM-70-svga	
2 Waves	G-02W-1Tr-2TM-70-svga	
3 Waves	G-03W-1Tr-2TM-70-svga	
Split Screen	G-03W-split-Tr-1Tr-2TM-70-svga	
Visitors	G-00W-visitor-screen-AClk-01-svga	

# **MP2 Screen Overview**

MP2, QVGA		
Name	File	
Service A	S-01W-04N-gvga	
Big Numerics	G-00W-06N-02-gvga	
10 Numerics	G-00W-10N-01-gvga	
Vital Signs A	G-00W-03N-1TrT-01-qvga	
1 Wave A	G-01W-03N-01-qvga	
1 Wave B	G-01W-07N-01-qvga	
1 Big Wave	G-01W-big-05N-01-qvga	
Vital Signs B	G-01W-05N-1TrT-01-qvga	
2 Waves A	G-02W-04N-01-qvga	
2 Waves B	G-02W-08N-01-qvga	
3 Waves	G-03W-05N-01-qvga	
Vital Signs	G-00W-03N-TrA-01-qvga	
Horizon	G-00W-03N-1TrH-01-qvga	
ST MAP	C-01W-03N-ST-Map-01-qvga	
12 Lead ECG	C-13W-12Lead-01-qvga	
Visitors	G-00W-Visitors-01-qvga	
MP2, Tele, QVGA		
	MP2, Tele, QVGA	
Name	MP2, Tele, QVGA File	
Name Service A	MP2, Tele, QVGA File S-01W-04N-qvga	
Name Service A Big Numerics	MP2, Tele, QVGA File S-01W-04N-qvga G-00W-06N-02-qvga	
Name Service A Big Numerics 10 Numerics	File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A	File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A	File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B	File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave	File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B	File           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A	File           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B	File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B 3 Waves	File           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga           G-02W-08N-01-qvga           G-03W-05N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B 3 Waves Vital Signs	File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga           G-02W-08N-01-qvga           G-03W-05N-01-qvga           G-03W-05N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B 3 Waves Vital Signs Horizon	File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-01N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga           G-02W-08N-01-qvga           G-03W-05N-01-qvga           G-03W-05N-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B 3 Waves Vital Signs Horizon Telemetry	File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-01N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-08N-01-qvga           G-03W-05N-01-qvga           G-03W-05N-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B 3 Waves Vital Signs Horizon Telemetry ST MAP	File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-01N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga           G-03W-05N-01-qvga           G-03W-05N-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves A 2 Waves B 3 Waves Vital Signs Horizon Telemetry ST MAP 12 Lead ECG	File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-01N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga           G-03W-05N-01-qvga           G-03W-05N-01-qvga           G-00W-03N-TrA-01-qvga           G-01W-03N-ST-Map-01-qvga           C-13W-12Lead-01-qvga	

# **X2 Screen Overview**

X2, QVGA		
Name	File	
Service A	S-01W-04N-gvga	
Big Numerics	G-00W-06N-02-gvga	
10 Numerics	G-00W-10N-01-gvga	
Vital Signs A	G-00W-03N-1TrT-01-gvga	
1 Wave A	G-01W-03N-01-gvga	
1 Wave B	G-01W-07N-01-qvga	
1 Big Wave	G-01W-big-05N-01-gvga	
Vital Signs B	G-01W-05N-1TrT-01-qvga	
2 Waves A	G-02W-04N-01-gvga	
2 Waves B	G-02W-08N-01-qvga	
3 Waves	G-03W-05N-01-qvga	
Vital Signs	G-00W-03N-TrA-01-qvga	
Horizon	G-00W-03N-1TrH-01-qvga	
ST MAP	C-01W-03N-ST-Map-01-qvga	
12 Lead ECG	C-13W-12Lead-01-qvga	
Visitors	G-00W-Visitors-01-qvga	
X2, Tele, QVGA		
	X2, Tele, QVGA	
Name	X2, Tele, QVGA File	
Name Service A	X2, Tele, QVGA File S-01W-04N-qvga	
Name Service A Big Numerics	X2, Tele, QVGA File S-01W-04N-qvga G-00W-06N-02-qvga	
Name Service A Big Numerics 10 Numerics	X2, Tele, QVGA File S-01W-04N-qvga G-00W-06N-02-qvga G-00W-10N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A	K2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A	K2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B	K2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave	X2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-07N-01-qvga           G-01W-big-05N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B	X2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A	X2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B	X2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B 3 Waves	X2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga           G-02W-08N-01-qvga           G-02W-08N-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B 3 Waves Vital Signs	X2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga           G-02W-08N-01-qvga           G-03W-05N-01-qvga           G-03W-05N-01-qvga           G-00W-03N-TrA-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B 3 Waves Vital Signs Horizon	X2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-07N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga           G-02W-08N-01-qvga           G-03W-05N-01-qvga           G-03W-05N-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B 3 Waves Vital Signs Horizon Telemetry	X2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga           G-02W-08N-01-qvga           G-03W-05N-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B 3 Waves Vital Signs Horizon Telemetry ST MAP	X2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga           G-02W-08N-01-qvga           G-03W-05N-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga           G-00W-03N-TrA-01-qvga	
Name Service A Big Numerics 10 Numerics Vital Signs A 1 Wave A 1 Wave B 1 Big Wave Vital Signs B 2 Waves A 2 Waves B 3 Waves Vital Signs Horizon Telemetry ST MAP 12 Lead ECG	X2, Tele, QVGA           File           S-01W-04N-qvga           G-00W-06N-02-qvga           G-00W-10N-01-qvga           G-00W-03N-1TrT-01-qvga           G-01W-03N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-01W-05N-01-qvga           G-02W-04N-01-qvga           G-02W-04N-01-qvga           G-03W-05N-01-qvga           G-03W-05N-01-qvga           G-00W-03N-TrA-01-qvga           G-01W-03N-ST-Map-01-qvga           C-13W-12Lead-01-qvga	

# IntelliVue Cableless Measurements

## Who is this Chapter for?

This chapter is for anyone making permanent changes to the configuration of an IntelliVue Cableless Measurement Device. You must understand English, be familiar with the devices, its Instructions for Use, the IntelliVue Support Tool Mark2, its Instructions for Use, know how to make changes to measurements and settings in monitoring mode, and understand the clinical implications of any changes you make.

# **WARNING** Before starting monitoring, check that the configuration meets your requirements, especially patient category and alarm limits.

# **WARNING** Changing the configuration may alter the way the CL device performs when monitoring patients. Do not change anything unless you are aware of the possible consequences, especially if you are monitoring a patient whilst in configuration mode.

## Which CL Device Models is this Chapter for?

The descriptions and configuration settings in this chapter are valid for the IntelliVue CL SpO<sub>2</sub> Pod and the IntelliVue CL NBP Pod, release A.0.

The SpO<sub>2</sub> and NBP Pods can be used together with MP5, MP5T, MP2, or X2 patient monitors (with a SRR interface; software rev. H.0x.xx or above). They can also be assigned to a telemetry device TRx4841A/TRx4851A (Rev. D.XX) in combination with an Information Center (Rev. M or above).

This chapter cannot be used for other devices, IntelliVue monitors, or telemetry devices with other software releases.

## **Configuration of the IntelliVue Patient Monitor**

For general information about the configuration of the IntelliVue Patient Monitor refer to:

- What is Configuration Mode? (page 6)
- Who Can Change the Monitor Configuration? (page 6)

- Understanding Profiles and Settings (page 7)
- Entering and Leaving Configuration Mode (page 10)

## **Configuration of the IIC and Telemetry Devices**

For general information about the configuration of the IntelliVue Information Center and Telemetry Devices refer to their Configuration Guides.

For specific information about the configuration for different use models refer to:

- Telemetry Use Models (page 297)
- Cableless (CL Pod) Measurements Use Models (page 307).

## **Profiles and Settings Implications for Cableless Pods**

The IntelliVue CL Pods can be assigned to an IntelliVue MP2, MP5, MP5T, or X2 patient monitor, or to a telemetry device, where it acts as a measurement module, acquiring measurements for the host device. When assigned to a host device, the host controls the CL Pod.

When an IntelliVue CL Pod is assigned to a host patient monitor:

- Profiles and Settings from the host monitor are applied to the CL Pod on assignment. When unassigned from the host monitor, the CL Pod uses its own Profiles and Settings.
- The CL Pod will keep its Profiles and Settings if you change the Profiles or Settings of the host monitor in Configuration Mode or with the Support Tool.
- If you want to change the Profiles or Settings of a CL Pod directly on the Pod, you must unassign it from the monitor. Then apply your changes directly to their configurations.

## **Entering and Leaving Configuration Mode**

Switching between monitoring and configuration mode does not affect the active settings. You can even continue to monitor patients while in configuration mode. The password for configuration mode is given in the monitor's service documentation.

To enter configuration mode:

- 1 Press the ✓ hardkey (without any screen element highlighted) for a couple of seconds to get to the SmartKeys menu.
- 2 Use the  $\blacktriangleleft$  and  $\blacktriangleright$  hardkeys to move along the row of SmartKeys.
- 3 In the Main Setup menu, select Operating Modes.
- 4 Select **Config** and enter the password.

The CL Pod displays **Config** in the INOP message field and in the center of the Screen while you are in configuration mode.



Before you leave configuration mode, always be sure to store any changes you made. You must store changes made to each Profile, individually.

**WARNING** If you are handing over the CL Pod to the end-users directly after configuration, make sure that it is in Monitoring mode.

To leave configuration mode either:

- In the Main Setup menu, select Operating Modes and then select the operating mode you require or
- Switch the CL Pod off with Device off, then switch it on again.
  - If you switch the CL Pod off and then on again after less than one minute, it returns in Monitoring mode with the same settings ("hotstart").
  - If you leave the CL Pod switched off for more than one minute, the Profiles and settings loaded when you switch back on are determined by the Automat. Default setting. See "Configuring CL Pod Equipment" on page 288.

## About the IntelliVue Support Tool

The IntelliVue Support Tool is a PC-based software application that is designed to help configuring IntelliVue monitors and IntelliVue CL Pods, and to manage IntelliVue monitor and CL Pod configurations.

Using the Support Tool, you can, for example, read in (clone) a configuration from an IntelliVue monitor to a PC, modify this configuration offline on the PC, and then store (clone) the changed version back to the monitor. With the Support Tool you can clone configurations to more than one monitor at a time. You can also use the Support Tool to make backups of your configurations, or generate configuration reports. The configuration files generated by the Support Tool are stored in a format that can be e-mailed.

**NOTE** The IntelliVue CL Measurements require the use of the separate IntelliVue Support Tool Mark2. The Instructions for Use of the Support Tool Mark2 is covered in a separate chapter at the end of the Support Tool Instructions for use.

#### What Can I Configure with the Support Tool Mark2?

For the time being, you can configure the equipment label of the CL Pods only.

For a complete description of the Support Tool functionality, refer to the Support Tool Instructions for Use, provided with the Support Tool.

### How Can I Get a Support Tool License Key?

To use the Support Tool, you must have a license key. To get a license key, you must complete a special training. Please contact your local Philips Customer Response Center for further details.

The Support Tool functionality you are allowed to use depends on your license key (e.g. Biomed, CE, Configuration Expert) and your level of training.

License keys are issued to individuals and they **may not be shared**. The Support Tool tracks the use of each license key: you will be held responsible for any configuration changes made using your license key.

## **Configuring Profiles and Settings**

### Characteristics of IntelliVue CL Pod Profiles and Settings

- IntelliVue CL Pods have a fixed number of profiles (four) with fixed names (Profile A D). You cannot add a Profile, or delete one of the Profiles.
- CL Pod and Measurement settings are automatically included in the Profiles and cannot be stored independently.
- The initial configuration of the four Profiles is identical. They match the factory defaults of the IntelliVue Patient Monitor and Global settings, with factory defaults **Adult** for the Measurement settings.
- The Patient Category of the current patient is stored with the Profile.
- IntelliVue CL Pod screens are fixed and cannot be configured.

#### **Getting Started**

- **NOTE** Make sure that the device is in Configuration mode, and not assigned to a monitor or a telemetry device. To start configuring your CL Pod, access Profiles by:
  - 1 Press the ✓ hardkey (without any screen element highlighted) for a couple of seconds to get to the SmartKeys menu.
  - 2 Use the ◀ and ▶ hardkeys to move along the row of SmartKeys.
  - 3 Either, enter the Profiles Smartkey A , or in the Main Setup menu, select Profiles.

The configuration pop-up keys will appear to let you carry out configuration tasks.

#### **Modifying an Existing Profile**

You can change the settings within an existing Profile. The CL Pod remembers any changes made when you switch between Monitoring mode and Configuration mode. All changes can be permanently stored in Configuration mode, as described in the following sections.

Be aware that if you don't store changes the CL Pod loads its stored configuration when you:

- exit Demonstration mode,
- load Profiles,
- switch off the CL Pod for more than one minute (if the Automat. Default is set to Yes), or
- if you select **New Patient** or **Free Device** from the Patient menu.

#### **Modifying a Setting**

To change settings in an existing Profile:

- 1 Select the Profile (A-D) you want to change and select the Load pop-up key to activate it.
- 2 Make the changes to the individual measurements or CL Pod settings.
- 3 Select Profile again and select **Store** to save the settings to this Profile.
- 4 To reset the selected Profile to factory defaults, select **Reset To Factory**.

### Changing the CL Pod's Default Profile

Every CL Pod has one default Profile (Profile A). This is marked with a black diamond. The CL Pod loads the default Profile:

- when you exit Demonstration mode (but not after exiting Configuration or Service mode).
- after discharging a patient.
- after being switched off for more than 60 seconds (only if **Automat. Default** is set to **Yes**).
- when selecting **New Patient** or **Free Device** from the Patient menu.

Profiles	$\times$
◆Profile A	
Profile B	
Profile C	
Profile D	

Profile A is always the default Profile.

## Configuring CL Pod SpO<sub>2</sub>

#### Main Setup -> SpO<sub>2</sub>

IntelliVue CL Pod	С	Μ	Factory Default Setting
Mode	x	x	Continuous
Repeat Time	x	x	15 min
Label	x	x	SpO <sub>2</sub>
SpO <sub>2</sub>	x	x	On
Pulse	x	x	On
Signal Quality	x		On
Average	x		10 sec
Average in Mon.	x		No
NBP Alarm Suppr.	x		On
Color	x		Cyan

#### CL Pod SpO<sub>2</sub> Configuration Implications

**Mode** Configure **Mode** to **Manual** to allow  $SpO_2$  measurements from the CL Pod to be made on request and not continuously; helping to save the CL Pod's battery power. When you change to **Auto**, a measurement cycle is automatically started with the set **Repeat Time**. When date and time are available, the measurement is synchronized to the clock.

**Repeat Time** This setting defines the **Repeat Time** of the automatic measurement. Choices are from 1 min up to 4 hours.

Label This setting lets you select the SpO<sub>2</sub> measurement label. The following choices are available: SpO<sub>2</sub>, SpO<sub>2</sub>pr, SpO<sub>2</sub>po, SpO<sub>2</sub>r, SpO<sub>2</sub>l. Changing the label resets all label dependent SpO<sub>2</sub> settings to user defaults of the new label.

**Signal Quality** Set **Signal Quality** to **Off**, if you don't want the signal quality indicator to be displayed next to the SpO<sub>2</sub> numeric on the Screen.

**Average** The SpO<sub>2</sub> numeric represents an average value calculated from several SpO<sub>2</sub> values. **Average** lets you adjust the averaging time between 5, 10, and 20 seconds. It represents the approximate time period used for the calculation. The exact averaging algorithm depends on the signal conditions. The longer the averaging time, the longer the time needed until the SpO<sub>2</sub> value reflects the physiological event. Fast averaging is useful for situations where an extremely fast measurement is required or few artifacts are expected. Use slow averaging where you expect the number of artifacts to be relatively high. Whether **Average** can be changed in Monitoring mode depends on the setting below.

**Average in Mon.** This setting determines whether the setting **Average** can be changed in Monitoring mode. Set **Average in Mon.** to **Yes** to enable the user to change the averaging time in Monitoring mode.

**NBP Alarm Suppr.** Set **NBP Alarm Suppr.** to **On** to suppress INOPs that would otherwise be generated when you measure NBP on the same limb as  $SpO_2$ . If **NBP Alarm Suppr.** is configured to **On**, the CL Pod automatically remembers the  $SpO_2$  value measured before cuff inflation and suppresses any  $SpO_2$  INOPs while the cuff is inflated.

**Color** This setting determines the color of the SpO<sub>2</sub> measurement displayed at the patient monitor's screen.

#### Configuring CL Pod NBP

Main 8	Setup	->	NBP
--------	-------	----	-----

Main Setup -> NBP -> Setup Sequence

IntelliVue CL Pod	С	Μ	Factory Default Setting
Mode	x	x	Auto
Repeat Time	x	x	15 min
Phase A	x	x	4 times
every	x	x	5 min
Phase B	x	x	4 times
every	x	x	10 min
Phase C	x	x	4 times
every	x	x	15 min
Phase D	x	x	4 times
every	x	x	30 min
NBP	x	x	On
Pulse	x	x	On
VP Pressure	x		60 mmHg
Reference			Auscultatory (not changeable)
Unit	x		mmHg
Done Tone	x		Off
Start Time	x		Synchronized
Color	x		Red

#### **CL Pod NBP Configuration Implications**

**Mode** With the setting **Auto** a measurement cycle is automatically started with the set **Repeat Time**. Configure **Mode** to **Manual** to allow NBP measurements from the CL Pod to be made on request and not in a sequence. Configure **Mode** to **Sequence**, to start measurement cycles as defined in the **Setup Sequence** menu.

**Repeat Time** This setting defines the **Repeat Time** of the automatic measurement. Choices are from 1 min up to 24 hours.

**Phase A** (B/C/D), **every** These settings are only visible if **Mode** is set to **Sequence** and you select **Setup Sequence** in the Setup NBP menu. You can then define up to four measurement cycles which will run consecutively. For each cycle you can set the number of measurements and the interval between them. If you want to run less than four cycles in a sequence, set the number of measurements for one or more cycles to **Off**.

**Pulse** This lets you enable (**On**) or disable (**Off**) display of the Pulse numeric derived from the NBP measurement. If the NBP numeric area on the patient monitor screen is configured large enough, the Pulse numeric will be displayed next to the NBP label in the NBP segment.

**VP Pressure** This setting determines the cuff pressure used during a Veni Puncture inflation. The cuff deflates automatically after a set time (adult/pediatric: 170 seconds, neonatal: 85 seconds) if it is not manually deflated beforehand.

**Reference** The NBP measurement reference method can be **Auscultatory** only. It cannot be changed for the NBP CL measurement. This measurement reference method delivers NBP values that very closely approximate values measured using the manual cuff method.

**Done Tone** Set **Done Tone** to **On** if you want to hear a short prompt tone and see a prompt message at completion of each NBP measurement.

**Start Time** If you set **Start Time** to **Synchronized**, the CL Pod will time the second measurement in a series to coincide with the next easy-to-document time. For example, if you start the first measurement at 08:23, and the **Repetition Time** is set to 10 minutes, the CL Pod will automatically perform the next measurement at 8:30, then 8:40 and so on.

**Color** This setting determines the color of the NBP measurement displayed at the patient monitor's screen.

#### **Configuring INOPs**

Main Setup -> INOPs

IntelliVue CL Pod	С	Μ	Factory Default Setting
INOP Volume	x	x	5
INOP Low Volume	x		4

#### **CL Pod INOPs Configuration Implications**

**INOP Vol** Configure **INOP Vol** to adjust the INOP tone volume in steps from 0 to the loudest volume of 10. The lowest volume is limited by the setting **INOP Low**.

**INOP Low** Configure **INOP Low** to configure the lowest INOP tone that is accessible in Monitoring mode.

**NOTE INOP Vol** and **INOP Low** are also part of the CL Pod **User Interface** settings. The last settings change you made takes effect.

#### **Configuring CL Pod Equipment**

Main Setup -> Equipment

IntelliVue CL Pod	С	Μ	Factory Default Setting
Equipment Label			NBP or SpO2 and 8 last digits of serial number
Automat. Default	x		Yes
Free in Charger	x		On

#### **CL Pod Equipment Configuration Implications**

CL Pod Equipment settings do not have to be stored in a Profile of the CL Pod. They take effect immediately, similar to a Global Setting of an IntelliVue patient monitor.

**Equipment Label** The equipment label can be changed with the Support Tool Mark2 only. It is recommended to change the equipment label to a shorter more clinical friendly name.
Automat. Default Configure Automat. Default to Yes to reset the active settings of the CL Pod automatically to the Default Profile if the CL Pod is turned off for at least 60 seconds. If configured to No, all active settings are kept.

**Free in Charger** Configure **Free in Charger** to **Off** to keep all patient data, all active settings, and the assignment to the IntelliVue monitor or the telemetry device in case the CL Pod is placed at the charging station.

## **Configuring CL Pod User Interface**

#### Main Setup -> User Interface

IntelliVue CL Pod	С	Μ	Factory Default Setting
INOP Vol	x	x	5
ClickVol	x	x	2
INOP Low	x		4

## **CL Pod User Interface Configuration Implications**

**INOP VOL** Configure **INOP VOL** to adjust the INOP tone volume in steps from 0 to the loudest volume of 10. The lowest volume is limited by the setting **INOP Low**.

**ClickVol** Configure **Click Vol** to adjust the tone volume if a hardkey is selected in steps from 0 to the loudest volume of 10.

**INOP Low** Configure **INOP Low** to configure the lowest INOP tone that is accessible in Monitoring mode.

**NOTE INOP Vol** and **INOP Low** are also part of the CL Pod **INOPs** settings. The last settings change you made takes effect.

## **Power States**

For some of the troubleshooting procedures you may have to switch off or power off the cableless measurement devices. The following table explains the possible power states:

```
Main Setup -> Device Off
```

```
Main Setup -> Hardware - Power Off
```

Power State	Description
Device On	Normal use. Display is on and measurements are enabled.
Device Off	Switch the device off when it is currently not being used. Select <b>Main Setup</b> -> <b>Device</b> <b>Off</b> to switch the device off. Device can be switched back on by pressing any key.
Power Off	Power off the device when it is not being used for a longer period of time or it is being prepared for storage or shipping. In Configuration Mode, select <b>Main Setup</b> -> <b>Hardware</b> -> <b>Power Off</b> to power off the device. To switch it back on, you must place the device on a charging station.
No Power	The battery level is too low to use the device. You must place the device on a charging station to switch it back on.

# Telemetry Device and CL Pods Use Models

The following pages describe distinct clinical use models along with the configuration/equipment needed to achieve the use model. Due to the configuration requirements for each use model, the intention is that the hospital unit does not combine all the use models in a single area to avoid user confusion.

**WARNING** Special consideration is necessary for hospitals that pool their equipment or when biomedical personnel return devices to units to prevent data loss, equipment disconnection and other inoperative conditions. For example, an X2 with a monitor equipment label and SRR enabled (use model 2) should not be used in a unit that needs an X2 with a telemetry device label without SRR enabled (use model 4).

# **Glossary of Terms**

Term	Definition
SRR	Short Range Radio - radio board internal to the MP2, X2, MP5, or MP5T that allows communication to the SRRA on the telemetry device, and the CL Pods.
SRRA	Short Range Radio Adapter - radio adapter that connects to the telemetry device to allow communication to the SRR in the monitor or the CL Pods.
Host Monitor	Any IntelliVue Patient Monitor MP20-MP90 that has an X2 or an MP5 connected (Companion Mode).
Companion	An X2, MP5, or CL Pod that is connected to a larger IntelliVue Patient Monitor. When connected, the X2, MP5, or CL Pod functions as an MMS. In other words it is the process of creating a SRR association between a device (telemetry device or CL Pod) and a host (patient monitor or telemetry device) depending on use model.
SRL or MSL	Acronyms used interchangeably representing the cable that connects the X2 or MP5 to a larger IntelliVue monitor or connecting the MP2 or X2 to the docking station.
Pairing	Integrating physiologic data from a telemetry device and an IntelliVue Patient Monitor in a single patient sector.
ОВО	Own-Bed-Overview - Screen on the bedside that shows telemetry device data in the embedded telemetry device window.
Assignment	Process of creating a short range radio association between a telemetry device, a CL Pod and/or an IntelliVue Patient Monitor.

Term	Definition
ТААР	Telemetry As A Parameter - when an IntelliVue telemetry device is directly connected with a cable to an MP5 or MP5T providing near real time ECG on the monitor.
WTAAP	Wireless Telemetry As A Parameter - when an IntelliVue telemetry device communicates to an MP2, X2, MP5, or MP5T via a short range radio providing near real time ECG on the monitor.

# **Telemetry Device Use Models**

Five different use models requiring different configurations are supported. The following symbols are used to explain the use models:

Telemetry Device	MPx0 MX800	MP5	X2	MP2	ШС
	Adda (初) (1999年、第2	Auda 20 Anna 59	0000 B		

## Use Model 1

Telemetry device paired with a networked MPx0, MX800, MP2, X2, or MP5. Direct connection.



## Description

This use model involves pairing any telemetry device to an IntelliVue patient monitor which is connected to an IntelliVue Information Center. In this use model, no direct connection (TAAP cable or short range radio) between the telemetry device and the monitor occurs.

## Results

• Data from the telemetry device is displayed at the Information Center in the same patient sector as the monitor data, and (with several seconds delay) on the bedside monitor in the embedded telemetry device data window (Own Bed Overview - OBO).

## Advantages

- Integrated data in a single sector at the Information Center.
- Telemetry device data window at bedside to view ECG and SpO2 from the telemetry device.

## Restrictions

- When paired to a telemetry device, the monitor cannot be connected to the IntelliVue Information Center via 1.4 GHz / 2.4 GHz Smart Hopping telemetry radio; it must be LAN connected or utilize the WLAN (802.11) solution.
- While ECG Source is the telemetry device the ECG Out on the Intellivue Patient Monitor is not functional.
- Pacer adjustments should not be made while paired unless the bedside monitor is the ECG source (ECG delay is too long).

## **Configuration: Use Model 1**

Required Configuration on Monitor					
Set Network setting TAAP to	not used for this configuration, can be set to <b>Enabled</b> or <b>Disabled</b>				
Assign Equipment label	yes				
Required Hardware on Monitor					
SRR interface or TAAP connector	not used				
IntelliVue Instrument Telemetry (IIT)	IIT cannot be used				
Required Configuration at Information Center for Monitor					
Equipment label requirement	Monitor label				
Required Configuration at Information Center for Telemetry					
Equipment allowed	SDN Telemetry, IntelliVue Telemetry (ITS)				
Equipment label requirement	Telemetry label - SDN or ITS as appropriate				

Telemetry device paired with a networked MP2, X2, or MP5. Direct connection.



## Description

This use model involves directly connecting a telemetry device to a networked connected MP2, X2, or MP5 which is LAN connected to an IntelliVue Information Center. The direct connection can be established either via a TAAP cable to an MP5, or by assigning the telemetry device to the MP2, X2, or MP5 via a short range radio link. The X2 or MP5 cannot be connected to a host monitor (Companion Mode).

## Results

- If configured, the monitor and the telemetry device are automatically paired at the Information Center when the direct connection is established.
- Data from the telemetry device is displayed at the Information Center in the same patient sector as the X2, MP2, or MP5 data.
- Data from the telemetry device is displayed directly on the monitor. The ECG waves and numerics appear in place of the monitor's own ECG, and SpO<sub>2</sub>T is displayed as an additional measurement (if available).

## **Advantages**

• Near real time ECG in room (less than 1 second delay) when connected with cable or short range radio link.

- When the devices are paired and the cable is disconnected or the short range radio link is lost, the screen switches to the embedded telemetry device data window automatically once the 1.4 GHz / 2.4 GHz Smart Hopping telemetry device radio is activated.
- Integrated data in a single sector at the Information Center.

### Restrictions

- The MP2, X2, or MP5 cannot be connected to a host monitor (Companion mode), and cannot use IntelliVue Instrument telemetry (IIT).
- While ECG Source is the telemetry device the ECG Out on the Intellivue Patient Monitor is not functional.

### **Configuration: Use Model 2**

Required Configuration on MP2, X2, or MP5					
Set Network setting TAAP to (for wired or wireless)	Enabled				
Assign Equipment label	yes				
SRR (for wireless), (in Setup Hardware)	On				
SRR Channel (for wireless), (in Setup Hardware)	11-26 (service personnel only)				
Required Hardware on MP2, X2, or MP5					
SRR interface or TAAP connector	yes				
IntelliVue Instrument telemetry (IIT) interface	IIT cannot be used				
Required Configuration at Information Center for MP2, X2, or MP5					
Equipment label requirement	Monitor label				
Required Configuration at Information Center for Telemetry					
Equipment allowed	IntelliVue Telemetry only				
Equipment label requirement	Telemetry device label - ITS				
Required Hardware for Telemetry					
Short Range Radio Adapter - SRRA or TAAP Cable	yes				

#### **Troubleshooting FAQ for Use Model 2**

I am getting a message on the bottom of the screen that says "No companion mode in this conf" or "No companion mode support in this telemetry configuration" and an INOP MMS Unsupported, what can I do?

• This message will show anytime you connect an X2 or MP5 to a larger IntelliVue monitor. It is configured specifically for use model 2. If you need this monitor to function as a companion monitor, please refer to the instructions for use model 4.

I paired the telemetry device and the monitor at the IIC in sector setup but when I bring the telemetry device with SRRA into the room, it stays on OBO and never changes to the bedside ECG, what can I do?

• The telemetry device searches for wireless short range radios in the monitor for 30 seconds on startup or when the check button is pressed to preserve battery life. You can pair at the IIC and insert the batteries when you get to the patient's room so it is searching while in range of the monitor or press the check button when you get to the patient's room.

Telemetry device directly connected to an MP5T, or non-networked MP5, MP2, or X2.



## Description

This use model involves directly connecting a telemetry device to an MP5T, MP2, X2, or MP5 which is **not** LAN connected to an IntelliVue Information Center. The direct connection can be established either via a TAAP cable (MP5 or MP5T only), or by assigning the telemetry device to the MP5T, MP2, X2, or MP5 via a short range radio link.

## Results

- Data from the telemetry device is displayed on the monitor. The ECG waves and numerics appear in place of the monitor's own ECG, and SpO<sub>2</sub>T is displayed as an additional measurement (if available).
- Selected data from the monitor is sent via the telemetry device over the 1.4 GHz / 2.4 GHz Smart Hopping network to the IntelliVue Information Center. Refer to the IntelliVue Instructions for Use for more detail.

## **Advantages**

- Near real time ECG in room (less than 1 second delay) when connected with cable or short range radio link.
- Integrated data in a single sector at the Information Center.

## Restrictions

• The MP2, X2, MP5 or MP5T cannot be connected to a host monitor (Companion Mode).

- Alarms are independent at the bedside and Information Center.
- While ECG Source is the telemetry device the ECG Out on the Intellivue Patient Monitor is not functional.
- The settings of the devices are not synchronized.
- **NOTE** Telemetry devices Rev. C.00.xx support TAAP and WTAAP. Telemetry devices Rev. D. support WTAAP and Cableless Measurements.

#### **Configuration: Use Model 3**

Required Configuration on MP2, X2, MP5					
Set Network setting TAAP to (for wired or wireless)	Enabled				
Assign Equipment label	Not used in this configuration				
SRR (for wireless) (in Setup Hardware)	On				
SRR Channel (for wireless) (in Setup Hardware)	11-26 (Service Personnel Only)				
Recommended setting for <b>Tele Discharge</b> (in <b>Global</b> <b>Settings</b> )	OnDevChange				
Tele Unassign	1 min				
Required Hardware on MP2, X2, MP5					
SRR interface or TAAP connector	yes				
IntelliVue Instrument telemetry (IIT) interface	IIT cannot be used				
Required Configuration at Information Center for MP2, X2, MP	5				
Equipment label requirement	none needed				
Required Configuration at Information Center for Telemetry					
Equipment allowed	IntelliVue Telemetry only				
Equipment label requirement	Telemetry Label - ITS				
Required Hardware for Telemetry					
Short Range Radio Adapter - SRRA or TAAP Cable	Yes				

## **Troubleshooting FAQ for Use Model 3**

There was a V Tach alarm at the monitor but not at the IIC, why did this happen?

• Alarms and settings are independent between the monitor and the telemetry device. Learning happens independently, the beat templates that ST/AR stores at the IIC are not replicated to the monitor when the assignment occurs.

I assigned the telemetry device with SRR to the monitor at the bedside and my bedside ECG showed up correctly, then my patient went out of the room for a test. When my patient came back from the test the telemetry device does not immediately change back to the bedside ECG, what can I do?

• The telemetry device searches for wireless radios for 30 seconds on startup or when the check button is pressed to preserve battery life. You can speed up the discovery process upon return by pressing the check button on the telemetry device when you get back to the patient's room.

The assignment did not stick while my patient went to X-ray, what should I do to make sure this does not happen in the future?

• When the **non-networked monitor** is turned off or put in standby for more than a minute, the assignment is lost. This is a configuration setting under **Network** that can be changed to **Off** and it is called **Tele Unassign**. The default is **1 min** for all model types.

X2 or MP5 declared as telemetry device and paired with a larger monitor. Direct connection - (Companion mode).



## Description

\*This use model involves directly connecting an X2 or MP5 with a 1.4 GHz / 2.4 GHz Smart Hopping telemetry device radio that is declared as a telemetry device at the Information Center to a larger monitor which is connected to an IntelliVue Information Center. The direct connection can be established either via a cable (MSL connection), or by directly attaching the X2 to the MMS mount of a larger monitor.

## Results

- If configured, the monitor and the X2 or MP5 with telemetry device labels are automatically paired at the Information Center when the direct connection is established.
- Data from the X2 or MP5 is displayed at the Information Center in the same patient sector as the larger monitor data.
- When connected, the X2 or MP5 is acting as companion (MMS) to the larger host monitor and there is no delay when directly connected.
- When disconnected, the devices remain paired and the X2 or MP5 data appears in the telemetry device data window automatically once the 1.4 GHz / 2.4 GHz Smart Hopping telemetry device radio is activated.

## **Advantages**

- When the X2 or MP5 are disconnected, the screen switches to the embedded telemetry device data window automatically once the 1.4 GHz / 2.4 GHz Smart Hopping telemetry device radio is activated.
- Integrated data in a single sector at the Information Center.
- Continuous electronic data collection during transport through areas with 1.4 GHz / 2.4 GHz Smart Hopping coverage.

## Restrictions

• A telemetry device cannot be used with the X2 or MP5.

## **Configuration: Use Model 4**

Required Configuration on X2, MP5				
Set Network setting TAAP to	Disabled			
Assign Equipment label	yes			
Required Hardware on X2, MP5				
SRR interface or TAAP connector	no			
IntelliVue Instrument telemetry (IIT) interface	IIT can be used			
Required Configuration at Information Center for X2, MP5				
Equipment label requirement Telemetry device label - ITS				

## **Troubleshooting FAQ for Use Model 4**

I am not able to assign a telemetry device to the X2 or MP5, the measurement selection icon never changes when I press the check button on the telemetry device, what can I do?

• This configuration does not support the assignment of a telemetry device to the X2 or MP5. Your X2 or MP5 is the telemetry device in this configuration. If you need the X2 or MP5 to allow the connection of telemetry devices wirelessly, please see the configuration for use model 2, telemetry device paired with a networked MP2, X2, or MP5 - Direct Connection.

Telemetry device directly connected to an X2 or MP5 which is connected as a Companion to a larger host monitor.

Device	Connection	Device	Connection	Device	Connection	Device
:	TAAP	Companion	SRL/MSL	Host	wired or IntelliVue 802.11 wireless	
	SRR	Companion	SRL/MSL	Host	wired or IntelliVue 802.11 wireless	

## Description

It is possible to combine three devices in order get data from a telemetry device directly onto one of the larger monitors (MP20 - MP90). For this use model, the telemetry device must be directly connected to an X2 or MP5 (either via SRR link or via TAAP connector). The X2 or MP5 can then be connected as a companion to a larger host monitor (Companion mode).

## Results

- When connected (via TAAP) or assigned (via SRR) to the X2 or MP5, the telemetry device is automatically paired with the **host** monitor.
- If the host monitor and telemetry device are paired before the telemetry device is assigned to the X2 or MP5, the short range radio connection will be automatically established.
- Data from the telemetry device is displayed on the host monitor. The ECG waves and numerics appear in place of the monitor's own ECG, and SpO<sub>2</sub>T is displayed as an additional measurement.

## **Advantages**

- Integrated data in a single sector at the Information Center.
- When connected, data from the telemetry device is displayed directly on the host monitor and if configured, on the X2 or MP5. The ECG waves and numerics appear in place of the monitor's own ECG, and SpO<sub>2</sub>T is displayed as an additional measurement (if available).

- When the X2 or MP5 is disconnected from the host monitor, the host monitor screen switches to the embedded telemetry device data window automatically once the 1.4 GHz / 2.4 GHz Smart Hopping telemetry device radio is activated.
- When the X2 or MP5 is disconnected, selected data from the X2 or MP5 is sent via the telemetry device over the 1.4 GHz / 2.4 GHz Smart Hopping network to the IntelliVue Information Center. Refer to the IIC Instructions for Use for more detail.

### Restrictions

- The X2 or MP5 must not have an equipment label.
- No ECG Out on bedside while the telemetry device is the ECG source.

## **Configuration: Use Model 5**

Required Configuration on X2, MP5		
Set Network setting TAAP to (for wired or wireless)	Enabled	
Assign Equipment label	No, needs to be blank	
SRR (for wireless) (in Setup Hardware)	On	
SRR Channel (for wireless) (in Setup Hardware)	11-26 (Service Personnel Only)	
Required Hardware on MP2, X2, MP5		
SRR interface or TAAP connector	yes	
IntelliVue Instrument telemetry (IIT) interface	IIT cannot be used	
Required Configuration at Information Center for Host Monitor (X2)	MP5 are not added as equipment in the	
Information Center)		
Information Center) Equipment label requirement	Monitor label	
Information Center) Equipment label requirement Required Configuration at Information Center for Telemetry	Monitor label	
Information Center) Equipment label requirement Required Configuration at Information Center for Telemetry Equipment allowed	Monitor label IntelliVue telemetry only	
Information Center) Equipment label requirement Required Configuration at Information Center for Telemetry Equipment allowed Equipment label requirement	Monitor label IntelliVue telemetry only Telemetry device label - ITS	
Information Center) Equipment label requirement Required Configuration at Information Center for Telemetry Equipment allowed Equipment label requirement Required Hardware for Telemetry	Monitor label IntelliVue telemetry only Telemetry device label - ITS	

## **Troubleshooting FAQ for Use Model 5**

When I disconnect the monitor, X2, or telemetry device from the network to go on transfer, I get an INOP message at the IIC and the monitor that says Central:Tele Only, what can I do?

- This INOP only occurs if the host monitor loses connection with the central station. You can choose to:
  - Continue with your transfer recognizing that the only data that is being monitored and collected at the IIC is the telemetry device.
  - Reconnect the monitor to the network and take the X2 or MP5 for your transfer, this way the telemetry device data and NBP and SpO<sub>2</sub> are still being monitored and collected at the IIC and viewable in OBO at the monitor

## **General Troubleshooting FAQ**

Some of my sectors have an INOP of !! Check Pairing, what can I do to get rid of this INOP?

- Check to ensure that you have chosen the correct device to pair with.
- Make sure that the device you have chosen is not already paired to another sector, if it is paired to another sector, click on sector setup and unpair your device from this sector.

I am getting a message on the bottom of the screen that says "Telemetry data available but no telemetry screen is available in the monitor", what can I do?

• Ensure that you have a telemetry device screen in your monitor configuration.

I am getting a message on the bottom of the screen that says "This screen does not show telemetry data", what should I do?

- Change the screen to a telemetry device screen to view telemetry device data.
- Check the settings for **Telemetry** screen under **Network** in configuration, ensure that it is not set to **Off**.

## Short-Range Radio (SRR) Error Conditions

The following table describes error conditions that may occur when the telemetry device is paired with the monitor (MP5, MP2, and X2 IntelliVue Patient Monitors only) via short-range radio capability.

Condition	Description	Action	
<b>TELE DISCONNECTED</b> INOP displayed at the monitor and the Information Center.	Short-range radio connection between the telemetry device and MP5T has been lost due to a failure of the short- range radio connection. There are too many short-range radios operating in the same vicinity (maximum of 3 pairs per radio channel).	<ul> <li>If the disconnection is not intentional:</li> <li>Identify and remove the interference sources.</li> <li>Reduce the number of devices equipped with short-range radio capability.</li> <li>Check SRR channel setup.</li> </ul>	
<b>NO SIGNAL</b> INOP displayed at the Information Center.	The short-range radio is not installed correctly. There is interference from telemetry or ISM radio sources. The telemetry device is outside the coverage area (The typical coverage area between the monitor and telemetry device is 15 ft.).	<ul> <li>Contact service personnel.</li> <li>Identify and remove the interference source.</li> <li>Make sure the location of the telemetry device is in the coverage area.</li> </ul>	
<b>BATTERY LOW T</b> INOP displayed at the monitor and the Information Center.	When operating wirelessly (WTAAP), the patient monitor is no longer providing power to the telemetry device, and battery capacity is diminished. 15 minutes of monitoring time remain.	• Insert new AA batteries in the telemetry device.	
<b>REPLACE BATTERY T</b> INOP displayed at the monitor and the Information Center.	When operating wirelessly (WTAAP), the patient monitor is no longer providing power to the telemetry device, and battery capacity is now depleted. There is <b>no monitoring</b> occurring at either the monitor or the Information Center.	• Insert new AA batteries in the telemetry device.	

Condition	Description	Action
Absence of successful association sound/visual indicator.	The bedside monitor and the telemetry device are not communicating with each other. Monitoring at the Information Center only.	<ul> <li>Repeat the device assignment procedure.</li> <li>Check the telemetry device settings and ensure SRR is started.</li> </ul>
CENTRAL: TELE ONLY INOP	When the telemetry device is wirelessly paired with an X2 patient monitor (no label) docked with a larger networked MP series monitor, and the network connection is lost.	• Restore the monitor's network connection.
CHECK PAIRING INOP	An X2 patient monitor with a telemetry device label is paired with a larger networked MP series monitor and subsequently the telemetry device is paired with the same monitor. Only one telemetry device can pair with the monitor.	• Select the correct device to be paired.
<b>???</b> appears as telemetry device label in assignment window at bedside monitor	The equipment label is invalid or there is no label assigned.	• Contact service personnel.

A complete list of INOPs can be found in the IntelliVue Cableless Measurement Instructions for Use or IntelliVue Information Center Instructions for Use.

# Cableless (CL Pod) Measurements Use Models

There are two possible use models with cableless measurements available with this release. The SpO<sub>2</sub> and NBP CL Pods can be used with an MP5, MP5T, MP2, or X2 bedside monitor that is equipped with SRR or they can be used with a TRx4841A/TRx4851A telemetry device.

## **Use Model 1**

CL SpO<sub>2</sub> Pod and/or CL NBP Pod assigned to an MP5, MP2, or X2.

Device	Connection	Device	Connection	Device	Connection	Device
	SRR ◀ ▶		wired or IntelliVue 802.11 wireless ◀ ►			
Â	SRR ◀ ▶	Companion	SRL/MSL	Host	wired or IntelliVue 802.11 wireless ◀ ▶	
	<ul> <li>← →</li> <li>SRR</li> <li>← →</li> </ul>		wired ↓ or IntelliVue 802.11 wireless ↓ ↓			
	<ul> <li>← →</li> <li>SRR</li> <li>← →</li> </ul>	Companion	SRL/MSL ◀──►	Host	wired ↓ or IntelliVue 802.11 wireless ↓ ↓	

## Description

This use model involves assigning a CL SpO<sub>2</sub> Pod or CL NBP Pod to an MP5, MP2, or X2 IntelliVue Patient Monitor via a short range radio connection. The IntelliVue Patient Monitor can be connected to the IntelliVue Information Center.

## Results

- When assigned, CL Pods communicate their measurement values via short range radio to the monitor. The monitor may be assigned to a patient sector at the IntelliVue Information Center.
- Telemetry device assigned via SRR to the monitor (WTAAP) is possible with this use model. In this case, CL Pods and telemetry device communicate their data via SRR to the bedside. This data is then sent to the Information Center and is available to the electronic medical record if present.

## **Advantages**

- Data from the CL Pods is displayed at the Information Center in the same patient sector as the X2, MP2, or MP5 data.
- Data from the CL Pods is displayed on the monitor.

## Restrictions

- Assigning CL NBP Pod, or SpO<sub>2</sub> Pods to the telemetry device is not possible in this use model.
- If a patient being monitored by a CL NBP Pod or/and a CL SpO<sub>2</sub> Pod moves out of range of the patient monitor or the SRR link is lost, the measurements are not available on the monitor and are not visible at the Information Center or electronic medical record. The measurements are only visible on the CL Pods (without physiological alarms). If this occurs, the **No Host Monitoring** message is displayed on the measurement device. The CL Pods will also annunciate the out of range beep. Keep the patient monitor with the patient during transport.

## **Configuration: Use Model 1**

Configuration on the CL Pod: Main Setup - > Equipment			
Free in Charger	On		
Automatic Defaults	Yes		
Equipment Label	CL Pods must have an equipment label which can be set using the Support Tool Mark2.		
Configuration on MP2, X2, MP5			
<b>TAAP</b> (Global Setting)	Enabled		
Bed Information	Can use monitor or telemetry device label for the X2, MP2, MP5.		
Required hardware	J46 SRR interface board		
Configuration at the Information Center			
Unit Settings -> Telemetry Setup	Enable Wireless Sensors (unchecked)		

For further information, refer to Configuring CL Pod Equipment (page 288).

CL SpO<sub>2</sub> Pod and/or CL NBP Pod assigned to a TRx4841A/Trx4851A telemetry device.



## Description

This use model involves assigning a CL SpO<sub>2</sub> Pod or CL NBP Pod to a telemetry device via a short range radio connection. The telemetry device is assigned to an IntelliVue Information Center. Patient monitors are not directly connected to the IntelliVue Information Center.

## Results

- Data from the CL Pods is displayed at the Information Center in the same patient sector as the telemetry device data.
- When assigned, CL Pods communicate their measurement values via short range radio to the telemetry device which sends the data to the Information Center via the telemetry device radio.
- Telemetry device pairing is still possible with this use model. When the CL Pods are assigned to the telemetry device, and the telemetry devices are subsequently paired, the data from the CL Pods will appear in the telemetry device data window along with the ECG data from the telemetry device.

## **Advantages**

• Data from the CL Pods is displayed at the Information Center in the same patient sector as the telemetry device data.

- Because the CL Pods are assigned to the telemetry device, the CL Pod data are always available at the Information Center as long as the telemetry device data is visible on the Information Center.
- Patient can be moved more easily with telemetry devices and CL Pods.

## Restrictions

- If you are using the telemetry device model, the telemetry devices cannot be wirelessly assigned to any monitor. The SRR link is reserved for the CL Pods.
- No TAAP or WTAAP possible in this use model.
- If you routinely fast switch the ECG leads from the telemetry device to the bedside monitor, the CL Pods are still sending data via SRR to the telemetry device. The CL Pod data can be viewed on the Pod itself, at the Information Center and in the telemetry device overview window on the bedside monitor. There is a new screen added to the H.00 screen library that shows the bedside ECG waves on the top of the screen and the delayed telemetry device data on the bottom of the screen. Clinicians can always choose to switch the NBP and SpO<sub>2</sub> measurements to the monitor when switching ECG to the monitor.

Configuration on the CL Pod: Main Setup - > Equipment			
Free in Charger	On		
Automatic Defaults	Yes		
Equipment Label	CL Pods must have an equipment label which can be set using the Support Tool Mark2.		
Configuration at the Information Center			
Unit Settings -> Telemetry Setup	Enable Wireless Sensors (checked)		

#### **Configuration: Use Model 2**

# Index

#### А

С

A options 216 accessing profiles 13, 284 addressograph (monitor settings) 121 advanced event surveillance 145 AGM 86 AGT/AGT1/AGT2 settings (measurement settings) 86 alarm behavior, french (assistance publique homologation standard) 100 alarm latching 44 alarm recordings (monitor settings) 101 alarm settings (monitor settings) 96 aperiodic parameters 141, 209 aperiodic trend database 209 application area option 31 application areas 215 arrhythmia measurement settings) 42 ask for new pat (unique monitor settings) 175 assistance publique alarm requirements 100 auto alarm limit settings (monitor settings) 102 auto discharge (unique monitor settings) 174 auto filter 114 auto reports 123 setting up an end case report 123 auto reports (monitor settings) 122 awRR (CO2) (measurement settings) 73 awRR (gas analyzer) (measurement settings) 92

#### B

basic event surveillance 145 bed information settings (hardware settings) 205 BIS settings (measurement settings) 81 breadcrumb trail 29 C.O. (measurement settings) 65 C.O. window settings (monitor settings) 111 calculation settings (monitor setting) 115 capture 12 lead (measurement settings) 47 CCO (measurement settings) 66 changing default profile 17, 285 profile name 17 screen layout 25 screens 22 settings block name 17 settings blocks 15 CL pod settings Equipment 288 INOPs 288 **NBP 287** SpO2 285 User Interface 289 clamps for extreme limit alarms 40 clock (screen setting) 24 CO2 (measurement settings) 72 combining settings blocks 14 configuration implications 29 configuration mode additional settings 6 description of 6 entering 10, 282 leaving 10, 282 configuration overview MP2/X2 249 MP20 Junior & MP20L 234 MP20/30 230 MP40/50 226 MP5 236 MP5SC 242 MP5T 241 MP60-90 222 MX800 218 configuration pop-up keys 13 configuration tables 29 configuration with the support tool 11, 283

configuring printers central printer 197

local printer 196 one local and one central printer 198 printing a test report 198 to capture events during transport 198 configuring screens 21 confirm pop-up key 13 country-specific settings (unique monitor settings) 186 CPP (Cerebral Perfusion Pressure) 63 CPP (measurement settings) 63 creating screens 22 creating a new profile 16 CSA buffer configuration 166 CSA configuration 113 CSA report (monitor settings) 124 CSA window (monitor settings) 113

#### D

database 206 database config 206 database options event database 209 delete pop-up key 13 deleting a settings block or profile 17 Delta SpO2 54 Delta SpO2(measurement settings) 54 Delta Temp 85 Delta Temp (measurement settings) 85 demograph. fields (global settings) 176 Derived measurements CPP 63 Delta SpO2 54 Delta Temp 85 PPV 64 Sp-vO2 69 SVR 67 DES settings (measurement settings) 91 display 9 using a second 18, 22

using a third 18, 22 display, independent 18, 22 drug calculator configuration (unique monitor setting) 166

#### E

EC10 86 ECG (measurement settings) 34 ECG application (monitor settings) 114 ECG reports (monitor settings) 123 ECG/Pulse alarms (measurement settings) 38 EEG (measurement settings) 78 EEG montages (measurement settings) 79 EEG-CSA buffer configuration (unique monitor setting) 166 EEG-CSA Window configuration (monitor setting) 113 electrocautery artifact 114 embedded other bed window (screen setting) 28 embedded trend window (screen setting) 27 end case report 123 ENF settings (measurement settings) 90 enhanced condition 151 Enter MeasValues (global settings) 180 entering configuration mode 10, 282 Equipment (CL pod settings) 288 event annotations (unique monitor settings) 151 event database options 209 event episode 150 event settings (unique monitor settings) 144 event surveillance 144 options 145 example screen 217 exiting configuration mode 10, 282 extreme bradycardia limits 40 extreme tachycardia limits 40

#### F

factory defaults 30 french alarm behavior 100 function keys (unique monitor settings) 163

#### G

G.0 configuration changes 212 gas analyzer (measurement settings) 86 gas analyzer CO2 settings (measurement settings) 92 global settings 9, 168 ask for new pat 175 auto discharge 174 country-specific settings 186 demographic fields 176 Enter MeasValues 180 printer configuration 194 quick admit 177 remote display settings 178 setup internal pc settings 179 timer selection and order 179 global smartkeys changing selection and sequence 163 global smartkeys (unique monitor settings) 162 global trend style (monitor settings) 105 GM 86 graph trends window 106 graphical trend report (monitor settings) 125 Guardian Early Warning Scoring protocols configuration (unique monitor setting) 153 Η H options 31, 215 H option-specific settings 211

HAL settings (measurement settings) 89 hardware settings 9, 200 bed information 205 input devices 204 interfaces 204 multiple displays 201 SRR channels 205 video 202 histogram window 107 horizon trends (monitor

#### I

settings) 104

implications of configuration changes 29 inop severity (monitor settings) 103 INOPs (CL pod settings) 288 input device settings (hardware settings) 204 IntelliBridge 86 intellivue support tool 11, 283 interface settings (hardware settings) 204 invasive pressure (measurement settings) 57 ISO settings (measurement settings) 89 item name 30

#### L

leaving configuration mode 10, 282 levels of event surveillance 145 license key 11, 284 load pop-up key 13 loading a settings block 15, 285 locking a profile 18 locking a settings block 18 loops window settings (monitor settings) 113

#### Μ

M options 31 MAC (measurement settings) 93 manual data entry settings 180 Max Hold 73 MDF (mean dominant frequency) 79 mean dominant frequency (MDF) 79 measurement settings 9 AGT/AGT1/AGT2 86 arrhythmia 42 awRR (CO2) 73 awRR (gas analyzer) 92 BIS 81 C.O. 65 capture 12 lead 47 CCO 66 CO2 72 CO2 (gas analyzer) 92 CPP 63 Delta SpO2 54 Delta Temp 85 DES 91 ECG 34 ECG/Pulse alarms 38 EEG 78 EEG montages 79 ENF 90 gas analyzer 86 HAL 89 invasive pressure 57 ISO 89 MAC 93

N2O 88 NBP 55 O2 87 PPV 64 predictive temp 84 Pulse (Pressure) 63 Pulse (SpO2) 53 pulse/system pulse 41 QT analysis 46 respiration 74 RRspir 77 ScvO2 68 SEV 91 SO2 68 spirometry 75 SpO2 49 Sp-vO2 69 ST analysis 44 SvO2 68 SVR 67 tcG10 72 tcGas 70 temperature 82 VueLink 85 measurement settings block 7 modifying a profile 14, 284 monitor database 206 monitor installation 9 monitor installation, hardware settings 9 monitor settings 9 addressograph 121 alarm recordings 101 alarms 96 auto alarm limits 102 auto reports 122 C.O. window 111 calculations 115 CSA report 124 CSA window 113 ECG application 114 ECG reports 123 EEG-CSA Window 113 french alarm behavior 100 global trend style 105 graphical trend report 125 horizon trends 104 inop severity 103 loops window 113 network 132 reports 116 screen trends 104 ST Map 109 trend reports 125 trend window 106 user interface 126 vital signs recording 108 vital signs report 125

wedge window 112 monitor settings block 7 MP20 model option 31 multiple display settings (hardware settings) 201

## N

N2O settings (measurement settings) 88 NBP (CL pod settings) 287 network settings (monitor setting) 132 new pop-up key 13 not applicable settings in tables 31 NPB (measurement settings) 55 Nurse Call Relay Inop/alarm latency 100 nurse call relay relay sensitivity 99

### 0

O2 settings (measurement settings) 87 oper. mode 30 options application area (H option) 31 MP20 model (M option) 31

## Р

paced mode setting 8 parameter scales 141 patient category setting 8 peak power frequency (PPF) 79 pop-up key confirm 13 delete 13 load 13 new 13 rename 13 set default 13 store 13 pop-up keys, configuration 13 PPF (peak power frequency) 79 PPV (measurement settings) 64 PPV (Pulse Pressure Variation) 64 predictive temp (measurement settings) 84 previewing a profile 15 print database 195, 209 printer configuration (global setting) 194 profile 7 accessing 13, 284 changing 6

changing default 17, 285 changing the combination of settings blocks 14 components 7 creating new 15, 16 deleting 17 locking 18 modifying 14, 284 previewing display settings 15 previewing measurement settings 15 previewing monitor settings 15 renaming 17 structure 7 unlocking 18 profile settings 32 ProtocolWatch (unique monitor settings) 109, 110 ProtocolWatch symbol (screen setting) 25 Pulse (Pressure) (measurement settings) 63 Pulse(SpO2) (measurement settings) 53 pulse/system pulse (measurement settings) 41

## Q

QT analysis (measurement settings) 46 quick admit (global settings) 177

## R

recording settings (unique monitor setting) 154 release-specific information 212 remote control keys (unique monitor settings) 165 remote display settings (global settings) 178 rename pop-up key 13 renaming a settings block or profile 17 report configuration (monitor setting) 116 reports scheduled 123 respiration (measurement settings) 74 RRspir (measurement settings) 77 S

scheduled reports 123 screen example 217 screen layout 217

screen layout, changing 25 screen overview MP2 279 MP20 Junior & MP20L 272 MP20/30 267 MP40/50 262 MP5 273 MP5SC 277 MP5T 276 MP60-90 257 MX800 252 X2 280 screen settings 21 clock on main screen 24 embedded other bed window 28 embedded trend window 27 ProtocolWatch symbol on main screen 25 screen trend settings 26 smartkeys 25 timer on main screen 24 wave channel speed 26 screen trend (screen setting) 26 screen trends 216 screen trends (monitor settings) 104 screens changing 22 creating new 22 in profiles 9 ScvO2 (measurement settings) 68 second display 18, 22 SEF numeric (BIS) 82 SEF numeric (EEG) 78 set default pop-up key 13 settings block deleting 17 loading 15, 285 locking 18 renaming 17 unlocking 18 settings blocks 14 changing 15 setup internal pc settings (global settings) 179 SEV settings (measurement settings) 91 smartkeys changing selection and sequence 25 deleting 25 sorting 25 smartkeys (screen setting) 25 SO2 (measurement settings) 68 spectral edge frequency numeric (BIS) 82 spectral edge frequency numeric

(EEG) 78 spirometry (measurement settings) 75 SpO2 (CL pod settings) 285 SpO2 (measurement settings) 49 Sp-vO2 (measurement settings) 69 SR numeric (BIS) 81 SRR channel settings (hardware settings) 205 SSC Sepsis protocol (unique monitor settings) 152 ST analysis (measurement settings) 44 ST Map settings (monitor settings) 109 ST snippets 216 store pop-up key 13 support tool 11, 283 what can be configured 11, 283 support tool license key 11, 284 support tool screen library 216 suppression ratio (BIS) 81 SvO2 (measurement settings) 68 SVR (measurement settings) 67 SVR (Systemic Vascular Resistance) 67

## Т

tcG10 (measurement settings) 72 tcGas (measurement settings) 70 telemetry label (X2, MP5) 176 temperature settings (measurement settings) 82 third display 18, 22 timer (screen setting) 24 timer selection and order 161 timer selection and order (global settings) 179 timer settings (unique monitor setting) 158 total power numeric (BIS) 82 total power numeric (EEG) 78 trend database for aperiodic parameters 209 trend group settings (unique monitor settings) 137 trend priority (unique monitor settings) 140 trend report settings (monitor settings) 125 trend scale settings (unique monitor settings) 141 trend units settings (unique monitor settings) 141

trend window settings (monitor settings) 106 trigger condition 151

## U

undo changes 16 unique monitor settings 136 drug calculator 166 EEG-CSA buffer 166 event annotations 151 events 144 function keys 163 global smartkeys 162 Guardian Early Warning Scoring protocols configuration 153 ProtocolWatch 109, 110 recordings 154 remote control keys 165 SSC Sepsis protocol 152 timers 158 trend groups 137 trend priority 140 trend scales 141 trend units 141 unlocking a profile 18 unlocking a settings block 18 User Interface (CL pod settings) 289 user interface settings (monitor setting) 126 using an X2 or MP5 with a telemetry label 176

## V

video settings (hardware) 202 visitors screen 216 vital signs recording (monitor settings) 108 vital signs report (monitor settings) 125 vital signs window 106 VueLink settings (measurement settings) 85

## W

wave channel speed (screen setting) 26 wave options 216 wedge window settings (monitor settings) 112 which CL device models is this guide for 281 which monitor models is this guide for 5 who is this guide for 5

## X

XDS remote display 16, 19, 20, 22, 131

##