CONFIGURATION GUIDE

IntelliVue Patient Monitor

MP20/30/40/50/60/70/90

For monitor release B.1 with software revision B.10.xx

Patient Monitoring

PHILIPS

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Table of Contents

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1

Understanding Configuration

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.

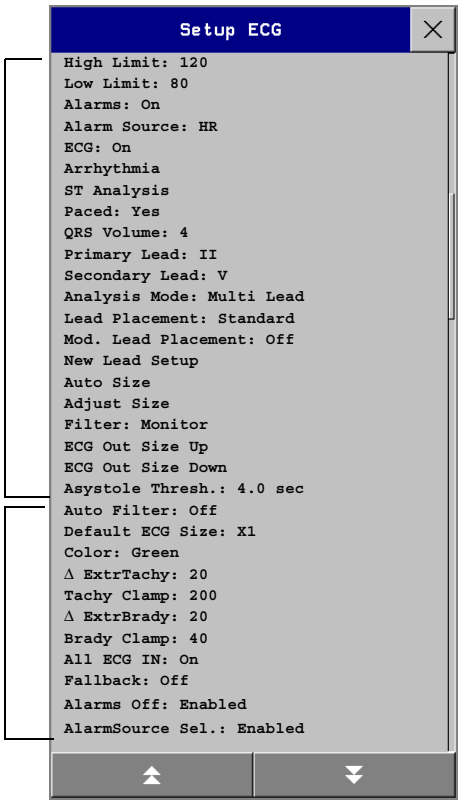
WARNING Changing the configuration may alter the way the monitor performs when monitoring patients. Do not change anything unless you are aware of the possible consequences, especially if you are monitoring a patient whilst in Configuration Mode.

What is 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 the settings that are accessible only in Configuration Mode.

For example, the **Setup ECG** menu accessible in Monitoring Mode contains these settings.

In Configuration Mode you can view and change these additional settings.



Understanding Profiles and Global Settings

You can change two main categories of settings in Configuration Mode: Global Settings and the monitor and measurement settings grouped in Profiles. The monitor ships with preset configurations for Global Settings and Profiles that are suitable for common monitoring situations. This guide tells you how to develop your own configurations.

Global Settings are typically set once at monitor installation by service personnel and include settings such as altitude and line frequency.

Profiles are predefined combinations of monitor Screens, monitor settings blocks, and measurement settings blocks that can vary according to the patient and the care environment. Profiles, Screens, and settings blocks are powerful tools that let you easily adapt the monitor to specific users or cases, or switch back and forth between different configurations depending on specific situations or phases within a case. You can create or modify Profiles and settings blocks in the monitor's Configuration Mode. Alternatively, you can download them in configuration files from the Support Tool library.

Why Have Profiles?

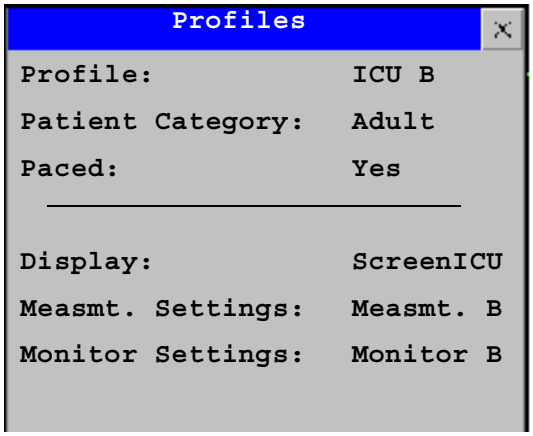
Consider this example.

You are in the ER. Your monitor is configured for an adult patient. Your next patient is a 5-year old boy. By switching to a predefined pediatric ER Profile, you can have appropriate measurement settings, 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.

Building a Profile

A monitor can have multiple stored Profiles. The number depends on the package purchased.

Standard package:	**Enhanced package (option C20):**
Up to 10 Profiles, made up of:	Up to 20 Profiles, made up of:
• up to 10 Screens	• up to 20 Screens
• up to 10 monitor settings blocks	• up to 10 monitor settings blocks
• up to 10 measurement settings blocks	• up to 10 measurement settings blocks

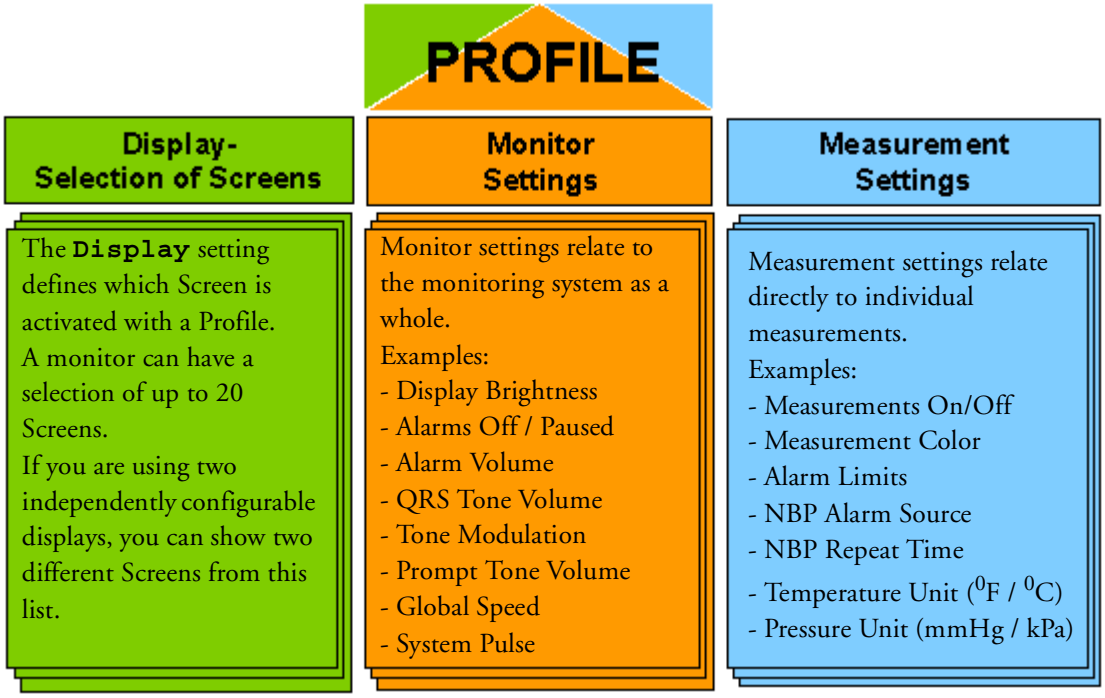


Each Profile is a named combination of:

- one Screen
- one monitor settings block
- one measurement setting block

Every Profile also has a set patient category and paced status.

This diagram shows the construction of a single Profile.



Who Can Change Profiles and Settings?

Only people authorized to do so by their institution should make changes in Configuration Mode. They require the Configuration passcode.

Locking and Unlocking Profiles and Settings Blocks

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.To lock or unlock Profiles or settings blocks you need to use the Support Tool.

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 passcode 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 passcode.

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.

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 87.

Starting to Configure Your Monitor

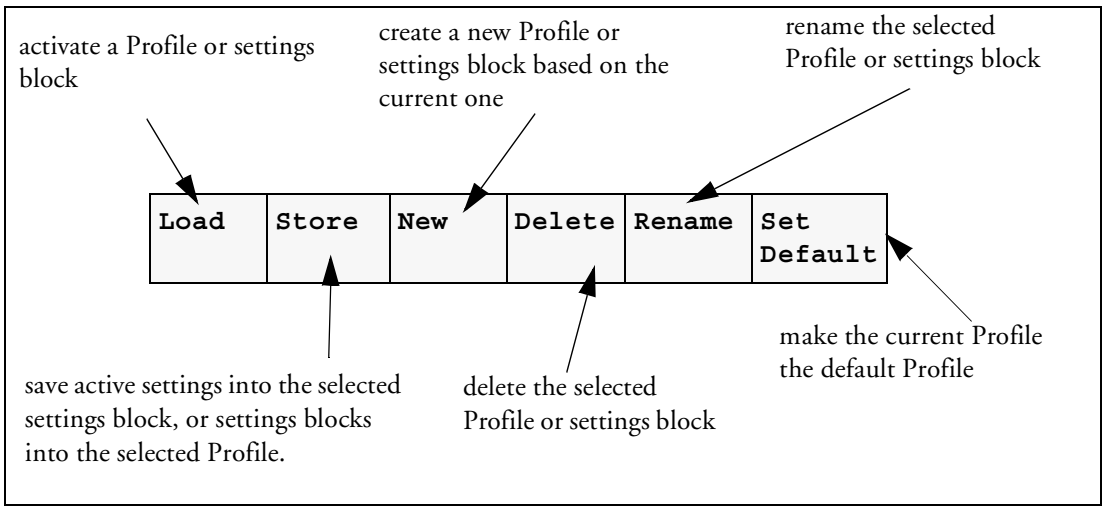
To start configuring your monitor, access Profiles by selecting either:

- 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.

Loading Configurations using the Support Tool

Use of the Support Tool is restricted to technical personnel who have been trained in its use by Philips.

Using the Support Tool you can clone multiple monitor configurations and store the configuration file in a format that can be e-mailed. You can lock and unlock Profiles and settings blocks, configure SmartKeys, configure the monitor's drug calculator, and replace Screens within the limit of the purchased options. The layout of Screens can only be altered by specially trained configuration experts.

The Support Tool lets you make a backup of your configuration and any changes you make. See the Support Tool Instructions for Use for details about storing, cloning, and maintaining your configurations.

If you make extensive configuration changes to monitors throughout your institution, you are strongly advised to acquire the Support Tool so that you can backup this work and restore configurations if necessary.

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 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.

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.

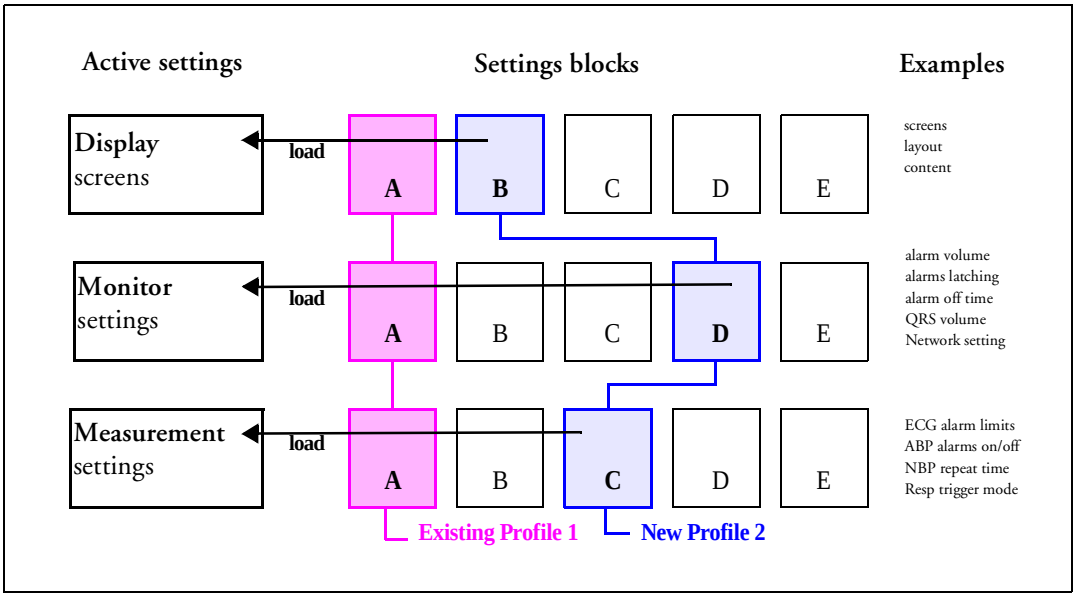
3 Load the settings blocks you want to have into the activated Profile one after the other by selecting them in the Profiles menu and then selecting the **Load** pop-up key. These settings become active immediately in the monitor, but the asterisk beside the Profile name in the Profiles menu shows that 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.

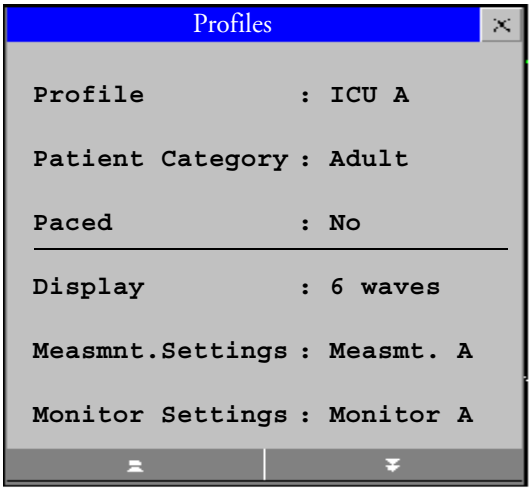
The new Profile 2 is built from a combination of Screen B + Monitor Settings Block D + Measurement Settings Block C. This is now the active Profile, because it is loaded into the monitor's active memory.



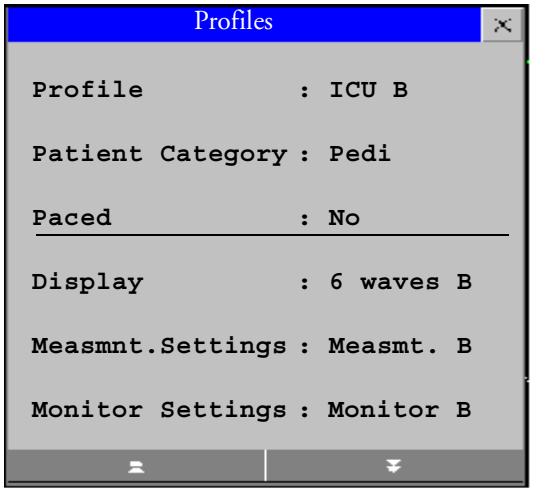
Creating New Profiles

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:



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.

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.

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.

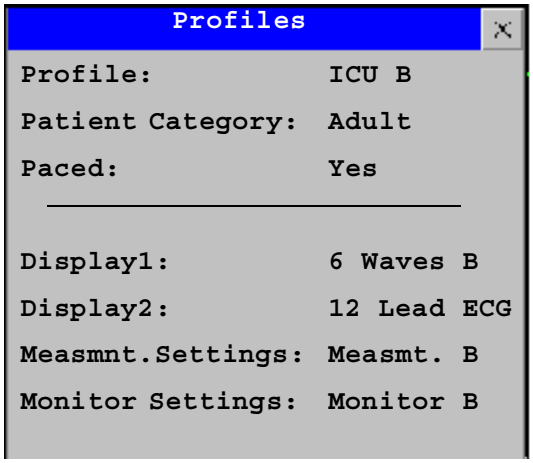
8 Adjust monitor and measurement settings as required.

9 Store the changed settings to the settings blocks. In the **Profiles** menu, select **Measmt. 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.

CAUTION 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.

Using a Second Display



A second, independent display connected to a monitor can be used to show additional

– realtime waves,

– high resolution trends, and

– numerics.

The Screen for the second display is chosen from the same selection of Screens available for the first display.

Loading a Screen on a Second Display

To load a Screen onto the second, independent display, in the **Profiles** menu, select **Display2** and select a Screen from the list of available Screens.

Changing Elements on a Second Display

To change elements on a second, independent display,

1 load the Screen displayed on the second display onto the primary display. To do this, select **Profiles** -> **<Display 1>** -> **<Screen name>**.

2 Make the required changes to the Screen. Keep in mind that the second, independent display can only show realtime waves, numerics, and high resolution trends.

3 Store the Screen. To do this, select **Profiles** -> **Display 1**, then select the **Store** pop-up key.

4 Reload the Screen to the second display.

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.

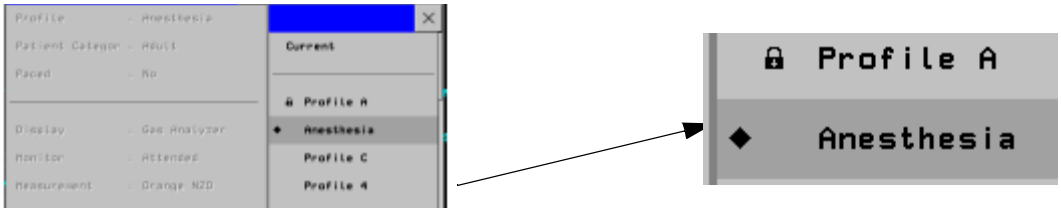
2 Select **Rename**.

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.

Customizing the Screen Layout

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 in Configuration Mode.

You cannot change the **layout** of a Screen, i.e. 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.

Philips Clinical Network Settings

Several bedside monitor functions can be operated remotely from a connected Information Center, for example, alarms can be silenced and arrhythmia relearn can be initiated.

For remote controls to work, they must be configured to **On** at the monitor and at the Information Center. If you configure them **Off** 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.

When you restart the monitor after disabling the remote controls, the individual arrhythmia controls are grayed out and you cannot select them.

About Configuration Files (.cfg)

Each .cfg file contains all the settings saved in a configuration. This includes multiple Profiles, Screens, Monitor Settings, and Measurement Settings. Config files may also include a configured drug list for use with the monitor's drug calculator. Files of the format .cfg can only be read and modified using the Support Tool. A checksum protects the contents of the configuration files, checking for example whether files were corrupted during e-mail transfer. Corrupted files will be rejected by the Support Tool.

There are two kinds of configurations:

- **initial configurations** are configurations provided by the factory. Each initial configuration supports all languages that the monitor is currently shipped with. Initial configuration files cannot be modified using the Support Tool. When an initial configuration is cloned to a monitor, the configuration is automatically adjusted to incorporate some monitor-specific attributes, for example, the language and product options. Cloning this configuration from the monitor back to the Support Tool changes it to a single-language user configuration that can then be modified using the Support Tool.
- **user configurations** are configurations that can be edited, deleted, or added to using the Support Tool. They can either be copied from a monitor or from a configuration stored with the Support Tool files on your computer. As user configurations are language dependent, always use a configuration taken from a monitor with the correct language. If you clone a user configuration to a monitor with a different language, all user adjustable texts are reset to factory defaults the first time you switch the monitor on (e.g. Screen names will be reset to generic numbered names, such as Screen 53, Screen 27,etc.).

Selecting the Correct Configuration

When cloning configurations, always use a configuration designed for the target device, and with the same options for application area (Hxx Option) and number of waves (Axx Option). Configurations created for an M2/M3/M4 monitor cannot be cloned to an IntelliVue monitor, or vice versa.

This is an example of an IntelliVue configuration file:
`H30 A06, SVGA, MP40-50, initial, B.10.xx, Rev 001.cfg`

The name of a configuration file consists of codes to identify, where appropriate:

- the **`Hxx`** (application area) option and **`Axx`** (wave number) it is optimized for,
- the resolution of the majority of Screens supplied with the config file.
- the monitor model (**`MP40 and MP50`** in our example) that the config file is optimized for.
- the word "**`initial`**" to mark an initial configuration provided by the factory.
- the software revision of the product it is optimized for (**`B.10.xx`** in our example). The letter "x" is a placeholder for any number from 0 to 9,
- the revision code (**`Rev 001`** in our example) used to track changes during the configuration creation process (only the latest revision is bundled with the tool).

2

Configuring Screens

Using the Screen Editor of the Support Tool, you can create and edit Screens for IntelliVue patient monitors. You can configure the Screens offline on a personal computer and then upload them as part of a config file to one or more patient monitors. The Support Tool automatically creates a graphic of each Screen you configure for your reference.

To configure Screens for the patient monitor, you must have a support tool and a support tool license key that entitles you to use the Screen configuration functionality.

How Can I Get a Support Tool License Key?

You must attend a configuration training held by Philips to get a license key. The support tool functionality your license key permits you to use depends on your function (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.

What Can I Configure on the Monitor?

You can:

- Create and modify measurement and monitor settings blocks.
- Rename or delete unlocked measurement and monitor settings blocks, and Screens.
- Change the selection of waves, high-resolution trends, screen trends, and numerics that appear on the Screens.
- Change Screen settings, such as wave channel speeds, screen trend types and times.
- Create new Screens, starting with copies of existing screens.

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.

Additionally the Support Tool allows you to:

- Change the order of items in the lists of Screens, measurement or monitor settings blocks.
- Unlock Profiles, Screens and settings blocks.

- Make realtime waves, or screen trends overlap on the Screen.
- Import Screens into a config file.
- Change the selection and order of SmartKeys on the Screen.
- Import SmartKey configurations.
- Create and modify drug calculator configurations.
- Import drug calculator configurations.

Screen Settings

Screen settings are Screen dependent and may change when a different Screen is selected. Screen settings determine:

- the layout of Screens, i.e. the selection, size, and position of Screen elements on the Screen,
- the content of each Screen element, i.e. the measurement information displayed in each Screen segment.
- special settings for certain Screen elements, such as **Change Trend Time**, or **Change Speed**.

Configuring Special Screen Trend Settings

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

Change TrendTime This setting determines the period of trend information shown 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 Trends" on page 63. 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**, or **Horizon**. 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:

- a horizon (1), drawn in white, as a reference baseline to help you visualize changes in the patient's condition.
- a graphical trend (2), displaying patient data for the set TrendTime.
- a trend indicator arrow (3), indicating how the patient trend has developed in the last ten minutes.
- a deviation bar (4), 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 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 81.
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 an Embedded Other Bed Window

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

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. If the monitor on this bed is switched off, the message "No data from bed" is shown in the embedded window. 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.

3

Configuration Settings Appendix

Monitor release B.1 with software B.10.xx.

The monitor is pre-configured with factory defaults settings when it is shipped. This section documents these factory default configuration settings. If you change the default profile, this document will no longer reflect your configuration, so you must note any changes you make in the editable version of this appendix (M8000-9307G) provided on the documentation CD-ROM (M8000-9431G). The initial configuration of your monitor may vary slightly depending on your geography and on the options purchased.

Settings are only entered once per table row if they are the same. If for example the ECG Analysis Mode setting is the same for Adult, Pedi, and Neo, it is only entered once in the table, in the left most row.

Documenting Monitor Configurations

To help you document your monitor's configuration, the configuration tables from this Configuration Guide are also provided as a Word document on the documentation CD-ROM supplied with the monitor (M8000-9307G). To document the configurations you create, edit this document using a word-processing program to reflect the configuration and then save it under an appropriate name.

As Philips cannot take responsibility for changes made to this document in the *.doc format, you must only use the .pdf version supplied as part of the Configuration Guide M8000-9306G as a reference for the initial configuration settings supplied with the monitor.

The configuration implications are only provided in the .pdf version of the Configuration Guide (M8000-9306G). You must read this document before you modify monitor configurations.

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 --> SpO_2**" means that the SpO_2 settings in the table below the heading are part of the Measurements Settings Block. This is also the path you should follow to access the settings in the table: in this example, to configure SpO_2 settings, in the **Main Setup** menu, select **Measurements** and then select **SpO_2**.

Wherever you see “not applicable” in the following tables, this means that the relevant setting is stored in a different settings block. The name of the settings block and the page number you can find it on are given in the same row to the right.

In each table, columns or rows are left free for you to enter the settings you change. You cannot print out the configuration from the monitor: these tables are your only documentation of the configuration you implement for each monitor. We strongly recommend that you always write down any changes you make and keep this record safely.

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 more information on the context of the configuration settings, see the monitor Instructions for Use. Always ensure that the monitor users are aware of the configuration settings.

Profiles Settings

`Profile Settings: Main Setup --> Profiles`.

Profile									
#	Locked	Name	Default Profile	Patient Cat.	Paced	Display	2nd Display	Monitor Settings	Meas. Settings
1									
2									
3									
4									

Document any Profiles you create for the monitor in this table:

1 In the Locked column, write “yes” if this Profile is locked in Configuration Mode.

2 Write the Profile name.

3 In the Default Profile column, write “yes” if this Profile is configured to be the default Profile for this monitor.

4 In the next two columns, enter the patient category and paced status for the Profile.

5 Write the Screens used for the first and optional second display, if appropriate, in the Display columns.

6 Write the names of the Monitor Settings block and Measurement Settings block used in each Profile in the last two columns.

The default Profile is used after discharging a patient, leaving Demonstration or Service Mode, or when the monitor is switched off for more than 60 seconds (if the Global Setting **`Automat. Default`** is set to **`Yes`**).

The monitor does not need a Profile to start monitoring. If no Profile is active, the monitor will use the factory defaults documented in the tables below, the Paced Status will be set to Yes and the Patient Category will be set to Neo. The monitor will start if no configuration is loaded, or if the configuration is corrupt. An appropriate configuration should be programmed using the Support Tool.

Settings Blocks and Screens

Use this table to document the names of any Settings Blocks or Screens you create for the monitor. Document the content of the Settings Blocks in detail in the tables following.

	Screens		Monitor Settings		Meas. Settings	
	Locked	Name	Locked	Name	Locked	Name
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						
available in Demo or Service Mode only						

Measurement Settings Block

This section lists all the settings grouped in the Measurement Settings Block. They define how the monitor measures patient data. Document the settings you configure for each Profile in the empty columns; write the Profile name at the top and the configured settings in the rows below.

Read any information on Configuration Implications at the end of the sections before you make any configuration changes.

Color configuration: The color setting for each measurement defines the color for its wave and numeric. The ECG color setting defines the color for ECG, Arrhythmia, and ST. The color setting for Pulse is taken from the system pulse source.

Configuring ECG

Measurement Settings: Main Setup --> Measurements --> ECG

Item Name	Profile Adult	Profile Pedi	Profile Neo				
High Limit	120 bpm	160bpm	200 bpm				
Low Limit	50 bpm	75 bpm	100 bpm				
Alarms	On						
Alarm Source	HR						
ECG	On						
Paced	not applicable			The paced status is defined by the selected Profile: see Profiles Settings on page 18.			
QRS Volume	not applicable			This setting is in the Monitor Settings Block: see Configuring User Interface Settings on page 81.			
Primary Lead	II						
Secondary Lead	V						
Analysis Mode	Multi Lead						
Lead Placement	Standard						
Mod. LeadPlacment	Off						
Filter	Monitor						
Auto Filter	not applicable			This setting is in the Monitor Settings Block: see Configuring ECG Application and Reports on page 68.			
Default ECG Size	not applicable			This setting is in the Monitor Settings Block: see Configuring ECG Application and Reports on page 68.			
Color	Green						
Asystole Threshold	4.0 sec		3.0 sec				
Δ ExtrTachy	20 bpm						
Tachy Clamp	200 bpm	220 bpm	240 bpm				
Δ ExtrBrady	20 bpm						
Brady Clamp	40 bpm		50 bpm				
ALL ECG IN.	On						
Fallback	On						
Alarms Off	Enabled						
AlarmSource Sel.	Enabled						

ECG Configuration Implications

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

Alarms This lets you switch **Off** ECG alarms. Be aware that if you switch **Off** ECG alarms, all Arrhythmia alarms are switched off. If you change the **Alarms** setting in the Setup HR menu, this will also change the **Alarms** setting in the Setup Pulse menu and vice versa.

Δ ExtrTachy, Δ ExtrBrady Extreme bradycardia and extreme tachycardia alarms are based on the HR/Pulse limit alarms. In Configuration Mode, you use the **Δ ExtrTachy** and **Δ 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. HR and Pulse share the same alarm limits. The **Δ ExtrTachy** and **Δ ExtrBrady** settings apply to the currently selected alarm source, either HR or Pulse. If you change the **Δ ExtrTachy** or **Δ ExtrBrady** setting in the Setup HR menu, this will also change the **Δ ExtrTachy** or **Δ ExtrBrady** setting in the Setup Pulse 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 **Δ 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 HR 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 HR limits.
HR and Pulse share the same alarm limits. The Tachy **Clamp** and **Brady Clamp** settings apply to the currently selected alarm source, either HR or Pulse. If you change the **Tachy Clamp** or **Brady Clamp** setting in the Setup HR menu, this will also change the **Tachy Clamp** or **Brady Clamp** setting in the Setup Pulse menu and vice versa.

All ECG IN. If ECG alarms are off or a pulse is selected as HR source, the INOP **ALL ECG ALARMS OFF** is shown permanently. If you do not want this INOP to appear, you must set **All ECG IN.** to **Off** (short for "All ECG Alarms INOP").

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

Alarms Source, AlarmSource Sel. The **Alarm Source** setting lets you choose **HR**, **Pulse** rate or **Auto** as the source of heart rate alarms. If you do not want this setting to be available in Monitoring Mode, you must set **AlarmSource Sel.** to **Disabled**. Heart rate ECG alarms and arrhythmia alarms are off if Pulse is selected as alarm source, or if the monitor chooses Pulse when Auto Mode is on. Note that if you change the **Alarms Source** or **AlarmSource Sel.** setting in the Setup HR menu, this will also change the **Alarms Source** or **AlarmSource Sel.** setting in the Setup Pulse menu and vice versa.

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.

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. When the Leads Off condition is corrected, the leads are automatically switched back.

Configuring Arrhythmia

Measurement Settings: Main Setup --> Measurements --> Arrhythmia

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Arrhythmia[1]	On		Off				
Asystol. Threshold	not applicable			see Configuring ECG on page 21.			
Pause Threshold	2.0 sec		1.5 sec				
VTach HR	100	120	150				
VTach Run	5						
Vent Rhythm	14						
SVT HR	180	200	210				
SVT Run	5						
PVCs/min	10	5	5				
Non-Sustain[2]	On						
Vent Rhythm	On						
Run PVCs	On						
Pair PVCs	On						
R-On-T PVCs	On						
V.Bigeminy	On						
V.Trigeminy	On						
PVCs/min	On						
Multif.PVCs	On						
Pacer N.Cap	On						
Pacer N.Pac	On						
Pause	On						
Missed Beat	On						
SVT	On						
IrregularHR	On						
Analysis Mode	not applicable			See Configuring ECG on page 21			
TimeOut 1st	3 min						
TimeOut 2nd	10 min						
ArrhyOffMsg	not applicable			This setting is in the Monitor Settings Block: see Configuring User Interface Settings on page 81			
SOME ECG IN	On						

1. The default setting for Anesthesia configurations (H30 options) is Arrhythmia: Off.
2. The default settings for Arrhythmia alarms for the Anesthesia configurations (H30 options) are: all Arrhythmia Alarms: On, and the individual alarms Pair PVCs, R-On-T PVCs, V.Bigeminy, V.Trigeminy, PVCs/min, Multif. PVCs, Pause, Missed Beat, Irregular HR Off. Note that all Arrhythmia alarms are inactive as long as Arrhythmia is off.

Arrhythmia Configuration Implications

Arrhy OFF Msg If arrhythmia analysis is switched off, the INOP 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 **Arrhy OFF Msg** to **Off**.

Asystol. Threshold, Pause Threshold You can configure asystole and pause thresholds. PVC alarms that combine runs of PVCs and rate are chained together and the configuration of one effects the configuration of others.

SOME ECG IN 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 In** 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.

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.

CAUTION Be aware that if you configure a Timeout period to equal or less than two minutes, any arrhythmia alarm condition that reoccurs frequently (more than once per minute), if not silenced, generates an audible alarm only once when it first occurs. For more detail on how arrhythmia alarms are indicated, refer to the section on Arrhythmia Alarms in the monitor's Instructions for Use.

Arrhythmia Alarms

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

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

Vent Rhythm	Ventricular Rhythm can be configured for the number of PVCs in a run (Ventricular limit) but the heart rate limit is automatically set to be less than the Vtach heart rate.
Run = > 14 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 Alarm Recording on page 55) 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 51) 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

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Alarm Mode	Single ST						
Alarms	On						
ST Analysis	On	Off					
ST-Index	On	Off					
Show ST In Wave	not applicable			This setting is in the Monitor Settings Block: see Configuring User Interface Settings on page 81			
ISO Point	-80 ms	-68 ms	-56 ms				
J Point[1]	48 ms	---	---				
ST Point[2]	---	80 ms	60 ms				
ST Uses	J+60	ST Point	ST Point				

1. The J Point setting is only available when ST Uses is set to J+60 or J+80
2. The ST Point setting is only available when ST Uses is set to ST Point

Alarm Mode If you set **Alarm Mode** to **Multi**, only multiple lead limit violations will trigger ST alarms.

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, V, aVR, aVL, aVF, V_{1-6}, MCL Settings

Measurement Settings: Main Setup --> Measurements --> ST Analysis --> <Lead Label>.

Item Name	Profile Adult	Profile Pedi	Profile Neo				
$ST_{(Label)}$	On	Off					
For Alarm Mode = Single-ST							
$ST_{(Label)}$ High	+2.0 mm						
$ST_{(Label)}$ Low	-2.0 mm						
For Alarm Mode = Multi-ST							
$ST_{(Label)}$ High	+1.0 mm						
$ST_{(Label)}$ Low	-1.0 mm						

ST Labels Configuration Template

Measurement Settings: Main Setup --> Measurements --> ST Analysis --> <Lead Label>

If required, you can configure the Measurement Settings block differently for each ST label. To document these settings, copy this table template and fill it out once per label as follows:

1 Write the ST label in the space provided after “Applies for”.

2 Write the Measurement Settings block name in the top row of the first free table column.

3 Fill in the configured settings in the rows beneath.

Applies for: _____.

Item Name	Profile Adult	Profile Pedi	Profile Neo				
$ST_{(Label)}$	not applicable						
For Alarm Mode = Single-ST							
$ST_{(Label)}$ High	not applicable						
$ST_{(Label)}$ Low	not applicable						
For Alarm Mode = Multi-ST							
$ST_{(Label)}$ High	not applicable						
$ST_{(Label)}$ Low	not applicable						

Configuring Pulse

Measurement Settings: Main Setup --> Measurements --> Pulse

Item Name	Profile Adult	Profile Pedi	Profile Neo				
High Limit	the settings of the current alarm source, either HR or Pulse, are used			See Configuring ECG on page 21.			
Low Limit							
Alarms							
Alarms Source	HR			See Configuring ECG on page 21.			
Pulse	On						
System Pulse	SpO_2						
Δ ExtrTachy	the settings of the current alarm source, either HR or Pulse, are used			See Configuring ECG on page 21.			
Tachy Clamp							
Δ ExtrBrady							
Brady Clamp							
Alarms Off	Enabled			See Configuring ECG on page 21.			
AlarmSource Sel.	Enabled			See Configuring ECG on page 21.			

Pulse Configuration Implications

See the sections on ECG Configuration Implications on page 21 and Arrhythmia Configuration Implications on page 23 for more information on these settings.

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_2, SpO_2 l, SpO_2 r, 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 SpO_2

The configuration settings for SpO_2 can be set individually for each label - SpO_2, SpO_2 l and SpO_2 r.

SpO_2, SpO_2l, SpO_2r

Measurement Settings: Main Setup --> Measurements --> SpO_2

Item Name	Profile Adult	Profile Pedi	Profile Neo				
High Limit	100		95				
Low Limit	90		85				
Desat Limit	80		80				
Alarms	On						
SpO_2	Off						
QRS Volume	not applicable			These settings are in the Monitor Settings Block: see Configuring User Interface Settings on page 81.			
Tone Modulation							
Tone Mod. Type							
Perfusion	On						
Average	10 sec						
High Alarm Delay	10 sec						
Low Alarm Delay	10 sec						
Desat Alarm Delay	20 sec						
NBP Alarm Suppr.	On						
Color	Cyan						

SpO_2 Configuration Implications

SpO_2 The **On/Off** state of the SpO_2 measurement cannot be preconfigured. SpO_2 is automatically switched **On** when an SpO_2 sensor is connected to 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.

Average The SpO_2 numeric represents an average value calculated from the sum of SpO_2 values measured during the averaging time. **Average** lets you adjust the averaging time between **5**, **10**, and **20** seconds.

High/Low/Desat Alarm Delay The alarm delay defines the amount of time that the averaged SpO_2 value needs to be above or below the corresponding alarm limits before an alarm is activated.

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 monitor automatically remembers the SpO_2 value measured before cuff inflation and suppresses any SpO_2 INOPs while the cuff is inflated.

SpO_2 Label Template

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

If required, you can configure the Measurement Settings block differently for each SpO_2 label. To document these settings, print out and complete this table template once per label.

1 Write the SpO_2 label in the space provided after "Applies for".

2 Write the Measurement Settings block name in the top row of the first free table column.

3 Fill in the configured settings in the rows beneath.

Applies for: _____

Item Name	Profile Adult	Profile Pedi	Profile Neo				
High Alarm	100		95				
Low Alarm	90		85				
Desat Alarm	80		80				
Alarms	On						
Perfusion	On						
Average	10 sec						
High Alarm Delay	10 sec						
Low Alarm Delay	10 sec						
Desat Alarm Delay	20 sec						
NBP Alarm Suppr.	On						
Color	Cyan						

ΔSpO_2 (SpO_2 Difference) Settings

Measurement Settings: Main Setup --> Measurements --> ΔSpO_2

Item Name	Profile Adult	Profile Pedi	Profile Neo				
First SpO_2	SpO_2						
Second SpO_2	SpO_2 r						
Δ SpO_2	Off						
Measurement	Enabled						
Color	Green						

ΔSpO_2 Configuration Implications

First SpO_2/Second SpO_2 The formula used to calculate the Δ SpO_2 value is: Δ SpO_2 = First SpO_2 - Second SpO_2. Possible sources are: **SpO_2, SpO_2 l, SpO_2 r.**

Measurement/ΔSpO_2 The Δ SpO_2 measurement is automatically activated (switched **On**) when both SpO_2 sources are available. Set **Measurement** to **Disabled** if you want to permanently disable the Δ SpO_2 measurement and prevent the Δ SpO_2 numeric from being displayed.

Configuring NBP

Measurement Settings: Main Setup --> Measurements --> NBP

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Alarms from	Systolic						
Sys. High	160	120	90				
Sys. Low	90	70	40				
Mean High	110	90	70				
Mean Low	60	(50	24				
Dia. High	90	70	60				
Dia. Low	50	40	20				
Alarms	On						
NBP	On						
Repetition Time[1]	15 min						
Auto/Manual	Auto		Manual				
Unit	mmHg						
Done Tone	Off						
Start Time	Synchronized						
VP Pressure	60 mmHg	40 mmHg	30 mmHg				
Reference	Auscultatory		Invasive				
NBP Time	not applicable			This setting is in the Monitor Settings Block: see Configuring User Interface Settings on page 81.			
Color	Red						

1.The default setting for Anesthesia configurations (H30 options) is Repetition Time: 5 mins.

NBP Configuration Implications

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 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**, even with **Reference** set to **Auscultatory**, the method used will always be **Invasive**. For further information, see the Application Note on NBP supplied on the monitor documentation CD-ROM.

Configuring Invasive Pressure

When an MMS is connected to the monitor for the first time, it uses the default Pressure label **ABP**. When a Measurement Server Extension is connected for the first time, the Pressure label used is **CVP**; the plug-in Pressure module uses the label **P**. If you then change the pressure label in Monitoring Mode, the MMS and Measurement Server Extension will remember the new label the next time it is reconnected or switched on.

The configuration settings for Invasive Pressure can be set individually for each Pressure Label.

ABP, ART, Ao, UAP, FAP, BAP, P, P1, P2, P3, P4 Settings

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

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Alarms from	Systolic						
Sys. High	160	120	90				
Sys. Low	90	70	55				
Mean High	110	90	70				
Mean Low	70	50	35				
Dia. High	90	70	60				
Dia. Low	50	40	20				
Alarms	On						
<Label> (e.g. ABP)	On/Off						
Scale	150	100	100				
Mean Only	No						
Filter	12 Hz						
Mercury Cal	Yes						
Artifact Suppr.	60 sec						
Unit	mmHg						
Color	Red						

CVP, RAP, LAP, UVP Settings

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

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Alarms from	Mean						
Sys. High	14	10	10				
Sys. Low	6	2	2				
Mean High	10	4	4				
Mean Low	0	0	0				
Dia. High	6	2	2				
Dia. Low	-4	-4	-4				
Alarms	On						
<Label> (e.g. CVP)	On/Off						
Scale	30						
Mean Only	Yes						
Filter	12 Hz						
Mercury Cal	Yes						
Artifact Suppr.	60 sec						
Unit	mmHg						
Color	Cyan						

PAP Settings

Measurement Settings: Main Setup --> Measurements --> PAP

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Alarms from	Diastolic						
Sys. High	35	60	60				
Sys. Low	10	24	24				
Mean High	20	26	26				
Mean Low	0	12	12				
Dia. High	16	4	4				
Dia. Low	0	-4	-4				
Alarms	On						
PAP	On/Off						
Scale	30						
Mean Only	No						
Filter	12 Hz						

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Mercury Cal.	Yes						
Artifact Suppr.	60 sec						
Unit	mmHg						
Color	Yellow						

Pressure Configuration Implications

<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**, then only the mean pressure numeric will be displayed. This can be changed temporarily in Monitoring Mode.

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.**

Artifact Suppr. The Artifact Suppression time you configure defines the interval a measurement artifact (caused, for example, by a clinical procedure) may last before the monitor issues an alarm or INOP.

ICP, IC1, IC2 Settings

Measurement Settings: Main Setup --> Measurements --> ICP

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Alarms from	Mean						
Sys. High	14	10	10				
Sys. Low	6	2	2				
Mean High	10	4	4				
Mean Low	0	0	0				
Dia. High	6	2	2				
Dia. Low	-4	-4	-4				
Alarms	On						
Scale	30						
Mean Only	Yes						
Filter	12 Hz						
Mercury Cal	Yes						
Artifact Suppr.	60 sec						
Unit	mmHg						
Color	Magenta						

Invasive Pressure Configuration Template

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

If required, you can configure the Measurement Settings block differently for each Pressure label. To document these settings, print out and complete this table template once per label.

1 Write the Pressure label in the space provided after “Applies for”.

2 Write the Measurement Settings block name in the top row of the first free table column.

3 Fill in the configured settings in the rows beneath.

Applies for: _____

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Alarms from	n.a.						
Sys. High	n.a.						
Sys. Low	n.a.						
Mean High	n.a.						
Mean Low	n.a.						
Dia. High	n.a.						
Dia. Low	n.a.						
Alarms	n.a.						
Scale	n.a.						
Mean Only	n.a.						
Filter	n.a.						
Mercury Cal	n.a.						
Artifact Suppr.	n.a.						
Unit	n.a.						
Color	n.a.						

CPP Settings

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

Item Name	Profile Adult	Profile Pedi	Profile Neo				
High Limit	130	100	90				
Low Limit	50	40	30				
Alarms	On						
CPP	Off						
Measurement	Enabled						
Arterial Source	ABPm						
Scale	105 mmHg						
Color	Magenta						

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

CPP Configuration Implications

Arterial Source The formula used to calculate CPP is: CPP = Arterial Source - ICP. Possible sources are: ABPm, ARTm, AOm, FAPm, BAPm

Measurement/CPP The CPP measurement is automatically activated (switched **On**) when both the ICP and the set arterial source are available. Set **Measurement** to **Disabled** if you want to permanently disable the CPP measurement and prevent the CPP numeric from being displayed.

Configuring C.O./CCO

C.O. Measurement Settings

Measurement Settings: Main Setup --> Measurements --> C.O.

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Method	not applicable			This setting is not a measurement setting. The correct setting is automatically detected from the catheter type connected.			
Tinj Probe Type	not applicable			This setting is not a measurement setting. It is stored in the C.O. measurement device, i.e. C.O. module or Hemodynamic MS Extension.			
Auto-Calibration	On						
Tblood High Limit	39.0 °C						
Tblood Low Limit	36.0 °C						
Alarms	On						
Temperature Unit	^{0}C						
Color	Green						

C.O. Configuration Implications

Tinj Probe Type This setting is only available if **Method** is set to **Transpulmonary**. It defines the type of Injectate Temperature probe you are using. The choices are **M1646** or **23001**. See the Cardiac Output chapter in the monitor's Instruction for Use for more information.

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 labelled **Save C.O.**, the other labelled **Cal CCO**. If **Auto-Calibration** is set to **On**, both functions are combined and only one pop-up key will be available: **SaveC.O.&Cal CCO**.

CCO Measurement Settings

Measurement Settings: Main Setup --> Measurements --> CCO

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Settings common to CCO and CCI							
Alarms From	CCO						
CCO From	ABP						
Color	Green						
CCO							
Alarms	On						
CCO High Limit	8.5 l/min	3.7 l/min	1.3 l/min				
CCO Low Limit	4.0 l/min	2.6 l/min	0.3 l/min				
CCI							
Alarms	On						
CCI High Limit	4.3 l/min/ m^2	3.7 l/min/ m^2	5.2 l/min/ m^2				
CCI Low Limit	2.0 l/min/ m^2	2.6 l/min/ m^2	1.2 l/min/ m^2				

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, FAP, BAP.

SVR (Systemic Vascular Resistance) Settings

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

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Arterial Source	ABPm						
Label	SVR						
Set CVP	0 mmHg						
SVR	Off						
Measurement	Enabled						
Color	green						

SVR Configuration Implications

Arterial Source The formula used to calculate SVR is: SVR = (Arterial Source - CVP) / CCO. Possible sources are: ABPm, ARTm, AoM, UAPm, FAPm, BAPm

Set CVP This setting 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.

Measurement/SVR The SVR measurement is automatically activated (switched **On**) when the set arterial source and a CCO value is available. Set **Measurement** to **Disabled** if you want to permanently disable the SVR measurement and prevent the SVR numeric from being displayed. This does not affect the SVR calculated in the Hemo Calcs window.

Configuring SvO_2

SvO_2 Settings

Measurement Settings: Main Setup --> Measurements --> SvO_2.

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Low Limit	60%						
High Limit	80%						
Alarms	On						
Light Intensity	On						
Color	Yellow						

Sp-vO_2 (Oxygen Extraction) Settings

Measurement Settings: Main Setup --> Measurements --> Sp-vO_2.

Item Name	Profile Adult	Profile Pedi	Profile Neo				
SpO_2 Source	SpO_2						
Sp - vO_2	Off						
Measurement	Enabled						
Color	green						

Sp-vO_2 Configuration Implications

SpO_2 Source The formula used to calculate Oxygen Extraction is: Sp-vO_2 = SpO_2 Source - SvO_2. **SpO_2 Source** determines the SpO_2 source used for the calculation. Possible sources are: SpO_2, SpO_2 l, SpO_2 r.

Measurement/Sp-vO_2 The Sp-vO_2 measurement is automatically activated (switched **On**) when the set SpO_2 source and the SvO_2 value are available. Set **Measurement** to **Disabled** if you want to permanently disable the Sp-vO_2 measurement and prevent the Sp-vO_2 numeric from being displayed.

Configuring Respiration

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

Item Name	Profile Adult	Profile Pedi	Profile Neo				
High Limit	30		100				
Low Limit	8		30				
Apnea Time	20 sec						
Alarms	On						
Resp[1]	On						
Auto/Manual (Detection Mode)	Auto						
Color	Yellow						

1. The default setting for Anesthesia configurations (option H30) is Resp Off, to avoid getting the Resp Off INOP on OR monitors.

Resp Configuration Implications

Auto/Manual The Resp 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 Airway Respiration (awRR)

Measurement Settings: Main Setup --> Measurements --> awRR

Item Name	Profile Adult	Profile Pedi	Profile Neo				
High Limit	30		100				
Low Limit	8		30				
Apnea Time	20 sec						
Alarms	On						

Configuring CO_2

These settings apply to both Mainstream and Microstream® CO_2.

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 module is used.

`Measurement Settings: Main Setup --> Measurements --> CO2`

Item Name	Profile Adult	Profile Pedi	Profile Neo				
$etCO_2$ High	50						
$etCO_2$ Low	30						
$imCO_2$ High	4						
CO_2 Alarms	On						
$imCO_2$ (Numeric)	On						
N_2O Correction	Off						
Scale	40 mmHg						
Unit	mmHg						
Color	Yellow						
Max Hold	Off						
Humidty Corr	BTPS						

CO_2 Configuration Implications

Max Hold If **`Max Hold`** is configured on, the largest CO_2 value measured during the configured time period will be displayed as the measurement numeric.

`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 Body Temperature Pressure Saturated (**`BTPS`**) or Standard Temperature Pressure Dry (**`STPD`**). For an exact definition, see the section on Measurement Specifications in the Installation and Specifications chapter of the monitor's Instructions for Use.

Configuring tcGas

Measurement Settings: Main Setup --> Measurements --> tcGas

Item Name	Profile Adult	Profile Pedi	Profile Neo				
$tcpO_2$ High Limit	80 mmHg						
$tcpO_2$ Low Limit	50 mmHg						
$tcpO_2$ Alarms	On						
$tcpCO_2$ High Limit	50 mmHg						
$tcpCO_2$ Low Limit	30 mmHg						
$tcpCO_2$ Alarms	On						
Site Time	4.0 hrs						
Ambient Pressure	1010 mbar						
Disable Timer	Not Allowed						
Heat Switch Off	No						
Transducer Temp.	43.0 °C						
CO_2 (Severinghaus) Correction	On						
Metabolism Factor	8 mmHg						
TcGas Unit	mmHg						
Temperature Unit	^{0}C						
$tcpO_2$ Color	Blue						
$tcpCO_2$ Color	Green						

TcGas Configuration Implications

Transducer heating can cause skin irritation, reddening, or blistering. Make sure that the heat switch and site timer are configured according to hospital procedure.

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.

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.

The algorithm with which the tcGas measurements is calculated changes according to the configured **Altitude** setting. Make sure that the correct **Altitude** setting is entered before the module is used. The **Altitude** setting can be found under Main Setup>Global Settings.

Configuring EEG

Measurement Settings: Main Setup --> Measurements --> EEG

Item Name	Profile Adult	Profile Pedi	Profile Neo				
TP	On						
SEF	On						
MDF	Off						
PPF	Off						
Delta	Off						
Theta	Off						
Alpha	Off						
Beta	Off						
SEF Threshold	90 %						
Numeric Average	8 sec						
Wave Scale	100uV (or +/- 50uV if **Show Gridlines** is configured to **Yes**)						
Show Gridlines	No						
Low Filter	0.5 Hz						
High Filter	30 Hz						
Impedance Limit	5 kOhm						
Smoothing CSA	On						
Color	Yellow						

Note: See also CSA Window Configuration on page 69.

Configuring EEG Montages

1 To change the electrode configuration of a montage, in the **Setup EEG** select **Setup Montage** to enter the **Setup Montage** menu.

2 Select **Select Montage** and then select the name of the montage you want to configure from the pop-up list.

3 Select each electrode in the montage and select the required electrode position from the pop-up list.

4 For each other montage, select **Select Montage**, select the montage to be configured, then repeat step 3.

Configuring EEG Montages	Profile Adult	Profile Pedi	Profile Neo				
Montage A							
Electrode 1+	FP1						
Electrode 1-	T3						
Electrode 2+	Fp2						
Electrode 2-	T4						

Configuring EEG Montages	Profile Adult	Profile Pedi	Profile Neo				
Montage B							
Electrode 1+	O1						
Electrode 1-	T3						
Electrode 2+	O2						
Electrode 2-	T4						
Montage C							
Electrode 1+	F3						
Electrode 1-	C3						
Electrode 2+	F4						
Electrode 2-	C4						
Montage D							
Electrode 1+	C3						
Electrode 1-	P3						
Electrode 2+	C4						
Electrode 2-	P4						
Montage E							
Electrode 1+	Fp1						
Electrode 1-	T5						
Electrode 2+	Fp2						
Electrode 2-	T6						

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.

EEG Configuration and Monitor Upgrades

The A.2 monitor release (software revision A.20.xx) introduced a new feature that lets you rename EEG montages. It is not possible to clone EEG settings between montages with different names, therefore all EEG settings are reset to factory defaults during any upgrade/downgrade/cloning actions that mix releases/software revisions/configurations before A.2/ A.20.xx with subsequent versions. You must check that all EEG settings are correct before resuming monitoring with a monitor that has been upgraded or cloned.

Configuring BIS

Measurement Settings: Main Setup --> Measurements --> BIS

Item Name	Profile Adult	Profile Pedi	Profile Neo				
SQI	On						
EMG	On						
SR	On						
Bursts	On						
SEF	Off						
TP	Off						
Scale	100uV (or +/- 50uV if **Show Gridlines** is configured to **Yes**)						
Show Gridlines	No						
Filters	On						
Low Filter	2 Hz						
High Filter	70 Hz						
Notch Filter	On						
High Limit	70						
Low Limit	20						
Alarms	On						
Cont. Imp. Check	On						
Smoothing Rate	30 sec						
Color	Yellow						

Configuring Temperature

When an MMS is connected to the monitor for the first time, it uses the default Temperature label **Temp**. When a Measurement Server Extension is connected for the first time, the Temperature label used is **Trect**, the plug-in Temperature module uses the label **Temp**. If you then change the Temperature label in Monitoring Mode, the MMS and Measurement Server Extension will remember the new label the next time it is reconnected or switched on.

The configuration settings for Temperature can be set individually for each Temperature Label.

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

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

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Low Limit	36						
High Limit	39						
Alarms	On						
<Label> (e.g. Temp)	On/Off						
Unit	^{0}C						
Range	35...43						
Color	Green						

See C.O. Measurement Settings on page 36 for Tblood settings. Tinj has no settings. Taway is sourced from VueLink, therefore no settings can be changed.

ΔTemp Configuration Implications

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

Temperature Label Template

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

If required, you can configure the Measurement Settings block differently for each Temperature label. To document these settings, print out and complete this table template once per label.

1 Write the Temperature label in the space provided after “Applies for”.

2 Write the Measurement Settings block name in the top row of the first free table column.

3 Fill in the configured settings in the rows beneath.

Applies for: _____

Item Name	Profile Adult	Profile Pedi	Profile Neo				
High Limit	n.a.						
Low Limit	n.a.						
Alarms	n.a.						
Unit	n.a.						
Range	n.a.						
Color	n.a.						

ΔTemp (Temperature Difference) Settings

Measurement Settings: Main Setup --> Measurements --> ΔTemp

Item Name	Profile Adult	Profile Pedi	Profile Neo				
First Temp	Trect						
Second Temp	Tblood						
ΔTemp	Off						
Measurement	Enabled						
Color	green						

ΔTemp Configuration Implications

First Temp/Second Temp The formula used to calculate ΔTemp is: ΔTemp = First Temp - Second Temp.

Measurement/ΔTemp The ΔTemp measurement is automatically activated (switched **On**) when both Temp sources are available. Set **Measurement** to **Disabled** if you want to permanently disable the ΔTemp measurement and prevent the ΔTemp numeric from being displayed.

Configuring the Gas Analyzer (Anesthetic Gas Module)

Measurement Settings: Main Setup --> Gas Analyzer

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Alarm Suppression	On						
AutoStandbyAfter	30 min						

Gas Analyzer CO_2 Settings

Item Name	Profile Adult	Profile Pedi	Profile Neo				
$etCO_2$ Alarms	On						
$etCO_2$ High Al. Limit	50 mmHg						
$etCO_2$ Low Al. Limit	30 mmHg						
$imCO_2$ Alarms	On						
$imCO_2$ High Al. Limit	4 mmHg						
Scale	40 mmHg						
CO_2 (Selection)	et + im						
Unit	mmHg						
Color	White						
Humidity Correction	Wet[1]						

1.Wet corresponds to BTPS according to ISO 99018/EN864 standard; dry corresponds to STPD.

Gas Analyzer awRR Settings

Item Name	Profile Adult	Profile Pedi	Profile Neo				
awRR Alarms	On						
awRR High Al. Limit	30 rpm		60 rpm				
awRR Low Al. Limit	8 rpm		30 rpm				
Apnea Time	20 sec						
awRR On/Off	On						

Gas Analyzer Label Independent Agent Settings

Item Name	Profile Adult	Profile Pedi	Profile Neo				
Agent Channel	et + in						
Label (manual select.)	ISO						
Auto ID	Auto						

HAL Settings

Item Name	Profile Adult	Profile Pedi	Profile Neo				
inHAL Alarms On/Off	On						
inHAL High Al. Limit	2.0 %						
inHAL Low Al. Limit	0.0 %						
etHAL Alarms On/Off	On						
etHAL High Al. Limit	1.6 %						
etHAL Low Al. Limit	0.0 %						
Scale	2.0						
Unit	%						
Color	Red						

ISO Settings

Item Name	Profile Adult	Profile Pedi	Profile Neo				
inISO Alarms	On						
inISO High Al. Limit	3.0 %						
inISO Low Al. Limit	0.0 %						
etISO Alarms	On						
etISO High Al. Limit	2.5 %						
etISO Low Al. Limit	0.0 %						
Scale	2.0						
Unit	%						
Color	Magenta						

ENF Settings

Item Name	Profile Adult	Profile Pedi	Profile Neo				
inENF Alarms	On						
inENF High Al. Limit	4.0 %						
inENF Low Al. Limit	0.0 %						
etENF Alarms	On						
etENF High Al. Limit	3.3 %						
etENF Low Al. Limit	0.0 %						
Scale	4.0						
Unit	%						
Color	Orange						

SEV Settings

Item Name	Profile Adult	Profile Pedi	Profile Neo				
inSEV Alarms	On						
inSEV High Al. Limit	6.0 %						
inSEV Low Al. Limit	0.0 %						
etSEV Alarms	On						
etSEV High Al. Limit	5.0 %						
etSEV Low Al. Limit	0.0 %						
Scale	4.0						
Unit	%						
Color	Yellow						

DES Settings

Item Name	Profile Adult	Profile Pedi	Profile Neo				
inDES Alarms	On						
inDES High Al. Limit	15.0 %						
inDES Low Al. Limit	0.0 %						
etDES Alarms	On						
etDES High Al. Limit	10.0 %						
etDES Low Alarm Limit	0.0 %						
Scale	12.0						
Unit	%						
Color	Cyan						

O_2 Settings

Item Name	Profile Adult	Profile Pedi	Profile Neo				
inO_2 Alarms On/Off	On						
inO_2 High Alarm Limit	100 %						
inO_2 Low Alarm Limit	18 %						
Scale	60						
O_2 (Selection)	et + in						
Unit	%						
Color	White						

N_2O Settings

Item Name	Profile Adult	Profile Pedi	Profile Neo				
inN_2O Alarms	On						
inN_2O High Al. Limit	80 %						
Scale	60						
N_2O (Selection)	et + in						
Unit	%						
Color	Blue						

Configuring VueLink

Measurement Setting: Main Setup --> Measurements --> VueLink

Item Name	Profile Adult	Profile Pedi	Profile Neo	Instance [1]	Instance [2]	Instance [3]	Instance [4]
Device Alarms	Ignored						
Color	Green						

All other settings are stored in the VueLink module. See the documentation supplied with your module for configuration information.

Monitor Settings Block

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.

The measurement application configuration settings listed in this section define how information is presented on the monitor Screen and in reports and recordings.

Configuring Alarms

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

Item Name	Factory Default				
Alarm Volume	5				
Alarms Off	3 min				
Pause Al. 5Min	Enabled				
Pause Al. 10Min	Enabled				
Auto Alarms Off	Off				
AlarmOffReminder	Off				
Visual Latching[1]	Red&Yell				
Audible Latching[2]	Red&Yell				
Alarm Reminder	On				
Reminder Time	3 min				
Alarm Sounds	Traditional				
RedAlarmInterval	10 sec				
Yel. Al. Interval	20 sec				
Alarm Low	4				
Red Alarm Volume	AlarmVol+2				
Yell. Alarm Volume	AlarmVol+0				
Inop Volume	AlarmVol+0				
AutoIncrease Vol.	2 Steps				
IncreaseVolDelay	20 sec				
Keep Blinking.	No				
Relay1 Sensitiv.	R & Y & I				
Relay2 Sensitiv.	Red &Yell				
Relay3 Sensitiv.	Red				
InopRelayLatency	5 sec				
Yel. RelayLatency	2 sec				
Alarm Text	Standard				
NoCentrMonMinVol	4				

1. The default setting for Anesthesia configurations (option H30) is Visual Latching: Red.
2. The default setting for Anesthesia configurations (option H30) is Audible Latching: Off.

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.

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. In Monitoring Mode the alarm volume cannot be set lower than this value.

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

Auto Alarms Off If this is set to **On**, the monitor automatically switches all alarms off and shows the alarms off symbol when the user turns the alarms of the following measurements off: HR/Pulse, RR/awRR, all invasive blood pressures, SpO_2, $etCO_2$.

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** SmartKey), or if the alarms for the following measurements have been switched off individually: HR/Pulse, RR/awRR, all invasive blood pressures, SpO_2, $etCO_2$.

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). The leftmost Permanent Key is labelled **Audio Off**.
- **ReAlarm**: After the **Reminder Time** the alarm tone is repeated continuously (this is the same as a new alarm). The leftmost Permanent Key is labelled **Pause Audio**.
- **Off**: No Alarm Reminder is issued. The leftmost Permanent Key is labelled **Audio Off**.

The Audio Off/Pause Audio hardkeys on the SpeedPoint and on the MMS follow the behavior configured for the Permanent Keys.

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. After the same time, it is further increased by one step.
- **2 Step**: After the time defined by **Increase Volume Delay**, the alarm volume is increased by two volume steps. After the same time, it is further increased by two 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 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 a Central Station, 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.

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 Pulse on page 27.
Alarm Source Selection	Disabled	
Alarms Off	Disabled, by setting to 1 or 2 or 3 min (not infinite)	See Configuring Alarms on page 51.
Pause Al. 5Min	Disabled	
Pause Al. 10Min	Disabled	
Auto Alarms Off	On	
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	

Alarm AutoLimits Settings

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

Item Name	Factory Default				
All	Enabled				
HR	Enabled				
ST	Enabled				
SpO_2	Enabled				
Pulse	Enabled				
Press	Enabled				
NBP	Enabled				
CO_2	Enabled				
awRR	Enabled				
O_2	Enabled				
RR	Enabled				
tcGas	Enabled				
Temp	Enabled				
N_2	Enabled				
N_2O	Enabled				
Agent	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.

Alarm Recording

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

Item Name	Factory Default				
HR	Off				
ST	Off				
PVC	Off				
SpO_2	Off				
Pulse	Off				
Press	Off				
NBP	Off				
CCO	Off				
CO_2	Off				
awRR	Off				
O_2	Off				
Resp	Off				
tcGas	Off				
Temp	Off				
N_2	Off				
N_20	Off				
Agent	Off				
VueLink	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 Trend Windows

Vital Signs Window

Monitor Setting: Main Setup --> Trends --> Setup Vital Signs

Item Name	Factory Default				
Trend Group	Standard				
Interval[1]	30 min				
Show Units	Off				

1. Interval: 5 min is the default settings for Anesthesia configurations (option H30), so that six columns covering 30 minutes will be visible on the OR monitor Screen.

Graphical Trends Window

Monitor Setting: Main Setup --> Trends --> SetupGraphTrends

Item Name	Factory Default				
TrendGroup	Standard				
Interval[1]	30 min				

1.Interval: 5 min is the default settings for Anesthesia configurations (option H30), so that six columns covering 30 minutes will be visible on the OR monitor Screen.

Trend Window Default Settings Configuration Implications

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

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

Configuring Trend Reports

Vital Signs Report

Monitor Setting: Main Setup --> Reports --> Vital Signs Rep.

Item Name	Factory Default				
TrendGroup	All				
Period	6 hours				
Interval	30 min				
Show Units	Off				

Graphical Trend Report

Monitor Setting: Main Setup --> Reports --> Graph Trend Rep.

Item Name	Factory Default				
TrendGroup	All				
Period	6 hours				
Automatic Period	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.

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 Trend Priorities

Trend measurement priority configuration settings are **unique settings**. They are the same in every Profile and they are automatically included in each Monitor Settings Block when you store them.

Monitor Setting: Main Setup --> Trends --> Trend Priority

Item Name	Factory Default	User Default
Priority	HR	
	PVC	
	SpO_2	
	SpO_2 l	
	SpO_2 r	
	Any Press	
	CPP	
	C.O.	
	C.I.	
	CCO	
	CCI	
	CO2	
	RR	
	awRR	

Trend measurements are shown in this table in a descending order of priority - the measurement with the highest priority is at the top of the table. If any additional measurements are monitored, the monitor automatically assigns them a priority according to an internal priority list.

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 measurement scales configuration settings are **unique settings**. They are the same in every Profile and they are automatically included in each Monitor Settings Block when you store them.

Monitor Setting: Main Setup --> Trends --> Parameter Scales

Item Name Measurement	Unit	Profile Adult	Profile Pedi	Profile Neo	User Def. Adult	User Def. Pedi	User Def. Neo
HR	bpm	30...180		30...210			
PVC	/min	0...20					
Any ST	mm	-2.5...+2.5					
STindx	mm	0.0 ... 5.0					
Any Pulse	bpm	30...180		30...210			
SpO_2	%	80...100					
ΔSpO_2	%	0...50					
Perf		0.0...10.0		0.0...5.0			
NBP	mmHg	30...200	20...150	10...100			
	kPa	4.0...28.0	2.0...20.0	1.0...14.0			
P, P1, P2, P3, P4, ABP, ART, Ao, UAP, BAP, FAP	mmHg	0...200	0...150	0...100			
	kPa	0.0...28.0	0.0...20.0	0.0...14.0			
PAP	mmHg	0...60	0...40	0...30			
	kPa	0.0...8.0	0.0...6.0	0.0...4.0			
PAWP	mmHg	0...30					
	kPa	0.0...4.0					
CVP, RAP, LAP, UVP	mmHg	0...30					
	kPa	0.0...4.0					
ICP, IC1, IC2	mmHg	0...60					
	kPa	0.0...8.0					
CPP	mmHg	0...100					
	kPa	0.0...14.0					
CO,CCO	l/min	0.0...12.0	0.0...6.0	0.0...3.0			
CI, CCI	l/min/ m2	0.0...6.0					
SV	ml	1...200					
SI	ml/m2	1...100					
SVV	%	0...20					
dPmax		200...2000					
ITBV	ml	500...3000					
ITBVI	ml/m2	500...1300					
EVLW	ml	0...2500					
EVLWI	ml/kg	0.0...20.0					
GEDV	ml	400...2400					
GEDVI	ml/m2	400...1000					
CFI		1.0...15.0					
SvO_2	%	40...80					
$Sp\text{-}vO_2$	%	-40...40					
LI		0...59					

Item Name Measurement	Unit	Profile Adult	Profile Pedi	Profile Neo	User Def. Adult	User Def. Pedi	User Def. Neo
$tcpO_2$	kPa	4.0...20.0					
	mmHg	30...150					
$tcpCO_2$	kPa	1.0...11.0					
	mmHg	10...80					
CO_2	kPa	0.0...8.0		0.0...11.0			
	mmhg	0...60		0...80			
awRR	rpm	0...60		0...110			
RR	rpm	0...60		0...110			
BIS		0...100					
SQI	%	0...100					
EMG	dB	0...60					
TP	dB	40...80					
TP1, TP2	nW	0.00...1.00					
SR	%	0...100					
Bursts	/min	0...30.0					
SEF	Hz	15.0...30.0					
SEF1,SEF2	Hz	0.0...30.0					
MDF1, MDF2	Hz	0.0...30.0					
PPF1, PPF2	Hz	0.0...30.0					
Alpha1, Alpha2	%	0.0...100.0					
Beta1, Beta2	%	0.0...100.0					
Delta1, Delta2	%	0.0...100.0					
Theta1,Theta2	%	0.0...100.0					
Any Temp	°F	95.0...110.0					
	°C	35.0...43.0					
Tblood	°F	80.0...110.0					
	°C	28.0...43.0					
Any DiffTemp	°F	-12.0...12.0					
	°C	-6.0...6.0					
SVR	DS/cm5	400...2400					
SVRI	DSm2/cm5	800...4800					
N2O	%	0...100					
	kPa	0...100					
	mmHg	0...800					
ISO	%	0.0...4.0					
	kPa	0.0...4.0					
	mmHg	0...30					
SEV	%	0.0...6.0					
	kPa	0.0...6.0					
	mmHg	0...50					

Item Name Measurement	Unit	Profile Adult	Profile Pedi	Profile Neo	User Def. Adult	User Def. Pedi	User Def. Neo
ENF	%	0.0...6.0					
	kPa	0.0...6.0					
	mmHg	0...50					
HAL	%	0.0...3.0					
	kPa	0.0...3.0					
	mmHg	0...25					
DES	%	0...20					
	kPa	0...20					
	mmHg	0...160					
O_2	%	0...100					
	kPa	0...100					
	mmHg	0...800					
FIO_2		0.00...1.00					
	%	0...100					
PIP	mmHg	0...60					
TV	ml	0...1000	0...500	0...100			
MINVOL / MV	l	0.0 ... 10.0	0.0 ... 6.0	0.0 ... 3.0			
SpMV	l	0.0 ... 10.0	0.0 ... 6.0	0.0 ... 3.0			
PEEP	mmHg	0...15					
pH		7.0...7.8					
PCO_2 PcO_2	mmHg	25...50	25...60	25...80			
PO_2	mmHg	40...160					
Pmean	mmHg	0...30					
RRaw	rpm	0...60		0...110			
Ppeak	mmHg	0...75					

Configuring Trend Groups

Trend groups configuration settings are unique settings. They are the same in every Profile and they are automatically included in each Monitor Settings Block when you store them.

Monitor Setting: Main Setup --> Trends --> Trend Groups

Group #	Factory Default		User Defaults	
	Name	Value	Name	Value
1	All	All parameters	All	
2	Standard	HR, SpO_2, SpO_2 l, SpO_2 r, NBP, CO_2, RR, awRR, Any Press, Any Temp		
3	Cardiac	HR, PVC, STindx, ST		
4	Hemo	HR, ABP, Pulse(ABP), ART, Pulse(ART), Ao, Pulse(Ao), PAP, Pulse(PAP), CVP, RAP, LAP, ICP, UAP, Pulse(UAP), UVP, P, Pulse(P), PAWP, CPP, C.O., C.I., CCO, CCI, ITBV, ITBVI, EVLW, EVLWI, Tblood		
5	Resp	CO_2, awRR, O_2, RR		

Group #	Factory Default		User Defaults	
	Name	Value	Name	Value
6	Neuro	BIS, TP, SEF, SQI, EMG, SR TP1,TP2,SEF1,SEF2, MDF1, MDF2, PPF1, PPF2, DELTA1, DELTA2, THETA1, THETA2, ALPHA1, ALPHA2, BETA1, BETA2		
7	Temp	AnyTemp, Any DiffTemp		
9	Gases	CO_2, awRR, O_2, N_2O, ISO, SEV, ENF, HAL, DES		
10	Vuelink	CO2, awRR, O_2, FIO_2, PIP, TV, MINVOL, MV, SpMV, PEEP, pH, PCO_2, PcO2, PO_2, Pmean, RRaw, Ppeak		

Configuring Screen Trends

`Monitor Setting: Main Setup --> Trends`

Item Name	Factory Default				
ScreenTrend Time	30 min				
Global Style	Band				

Screen Trend Settings 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 “Configuring Special Screen Trend Settings” on page 14) which lets the user set a different ScreenTrend Time for a particular screen trend channel or a group of aligned screen trends.

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.

Configuring Events

Event configuration settings are **unique settings**. They are the same in every Profile and they are automatically included in each Monitor Settings Block when you store them.

`Monitor Setting: Main Setup --> Event Surveill. --> Setup Events`

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.

Item Name	Factory Default	User Defaults
Trigger Group	0 (Standard)	

Item Name	Factory Default			User Default		
Group 1						
Group Name	Standard					
Episode Type	Average Trend (20min): -10/+10 min					
Trigger Condition	At Least One Param.					
Parameters	HR(Pulse), SpO_2, Resp					
Parameter 1: Trigger for	HR(Pulse)	All ***/** Alarms				
Parameter 2: Trigger for	SpO_2	All ***/** Alarms				
Parameter 3: Trigger for	Resp	All ***/** Alarms				
Parameter 4: Trigger for						
Group 2						
Group Name	Neuro					
Episode Type	Average Trend (20min): -10/+10 min					
Trigger Condition	At Least One Param.					
Parameters	HR(Pulse), ABP, CPP, BIS					
Parameter 1: Trigger for	HR(Pulse)	All ***/** Alarms				
Parameter 2: Trigger for	ABP	All **HIGH Alarms				
		All **LOW Alarms				
Parameter 3: Trigger for	CPP	** Mean LOW				
Parameter 4: Trigger for	BIS					

Group 3						
Group Name	Hemo					
Episode Type	Average Trend (20min): -10/+10 min					
Trigger Condition	At Least One Param.					
Parameters	HR(Pulse), SpO_2, ABP, CVP					
Parameter 1: Trigger for	HR(Pulse)	All ***/** Alarms				
Parameter 2: Trigger for	SpO_2	All ***/** Alarms				
Parameter 3: Trigger for	ABP	All **HIGH Alarms				
		All ** LOW Alarm				
Parameter 4: Trigger for	CVP	***/** All Mean				
Group 4						
Group Name	Ventil.					
Episode Type	HighResTrend (4min): -2/+2 min					
Trigger Condition	At Least One Param.					
Parameters	HR(Pulse), SpO_2, Resp, $etCO_2$					
Parameter 1: Trigger for	HR(Pulse)	*** EXTR TACHY				
		*** EXTR BRADY				
Parameter 2: Trigger for	SpO_2	All ***/** Alarms				
Parameter 3: Trigger for	Resp	All ***/** Alarms				
Parameter 4: Trigger for	$etCO_2$	All ***/** Alarms				
Group 5						
Group Name	Arrhy/ST					
Episode Type	RealtimeWaves (15sec): -5/+10 sec					
Trigger Condition	At Least One Param.					
Parameters	HR(Pulse), PVC, All ST Leads					
Parameter 1: Trigger for	HR(Pulse)	*** EXTR TACHY				
		*** EXTR BRADY				
Parameter 2: Trigger for	PVC	All ***/** Alarms				
Parameter 3: Trigger for	All STLeads	** HIGH				
		** LOW				
Parameter 4: Trigger for						

Group 6						
Group Name	NER					
Episode Type	High Res.Trend (4 min): -2/+2 min					
Pre/PostTime						
Trigger Condition	At Least One Param.					
Parameters	HR, SpO_2, Resp					
Parameter 1: Trigger for	HR	*** EXTR BRADY				
Parameter 2: Trigger for	SpO_2	*** DESAT				
Parameter 3: Trigger for	Resp	*** APNEA				
Parameter 4: Trigger for						

Configuring Event Annotations

Item Name	Factory Default		User Defaults	
Annotations (Text / Group)	Text	Group	Text	Group
Annotation 1	No Intervention	All Groups		
Annotation 2	Mild Stimulation	All Groups		
Annotation 3	Moderate Stimulation	All Groups		
Annotation 4	Vigorous Stimulation	All Groups		
Annotation 5	Awake	Standard		
Annotation 6	Sleeping	Standard		
Annotation 7	Gagging/Emesis	Standard		
Annotation 8	Feeding	Standard		
Annotation 9	Stressful Procedure	Standard		
Annotation 10	Skin Color: Pink	NER		
Annotation 11	Skin Color: Dusky	NER		
Annotation 12	Skin Color: Cyanotic	NER		
Annotation 13	Skin Color: Mottled	NER		
Annotation 14	Skin Color: Jaundice	NER		
Annotation 15	Annotation 15	No Group		
Annotation 16	Annotation 16	No Group		
Annotation 17	Annotation 17	No Group		
Annotation 18	Annotation 18	No Group		
Annotation 19	Annotation 19	No Group		
Annotation 20	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 the C.O. Window

To configure the following settings you must either have a C.O. transducer connected or manually switch On the C.O. measurement. You can do this by setting **C.O.** to **On** in the C.O. Setup menu.

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

Item Name	Factory Default				
C.O.	On				
C.I.	On				
ITBV	Off				
ITBVI	On				
EVLW	Off				
EVLWI	On				
GEDV	Off				
GEDVI	Off				
ETVI	On				
CFI	On				
Tblood	Off				
Tinj	On				
InjVol	On				
Cath. Const.	Off				
CompConst	On				

The calculations EVLW and EVLWI, GEDV and GEDVI are not available in the USA.

Configuring the Wedge Window

Monitor Setting: Main Setup --> Wedge

Item Name	Factory Default				
Reference Wave 1	Primary Lead				
Reference Wave 2	Resp				
Wave Speed	25 mm/sec				
PAWP Color	Green				

Configuring ECG Application and Reports

ECG Application Configuration

Monitor Setting: Main Setup --> Measurement --> ECG

Item Name	Factory Default				
Auto Filter[1]	Off				
Default ECG Size[1]	x1				

1. The ECG Application default settings for Anesthesia configurations (option H30) are AutoFilter: On, so that the monitor will automatically detect if ESU is used and switch to the setting Filter, and Default ECG Size: x2 for better visibility in the OR.

ECG Application Configuration Implications

Auto Filter If the **AutoFilter** setting is configured to **On** and the user selects the **Filter** setting in Monitoring Mode, additional filtering will be performed on the ECG signal when electrocautery causes artifact.

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.

ECG Reports Configuration

Monitor Setting: Main Setup --> Reports --> ECG Reports

Item Name	Factory Default				
ReportLead Layout	Internat				
ECG Gain	10 mm/mV				
Speed	25 mm/sec				
Annotation	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 and CSA Reports

CSA Buffer Configuration

CSA buffer configuration settings are **unique settings**. They are the same in every Profile and they are automatically included in each Monitor Settings Block when you store them.

These CSA buffer settings apply for CSAs viewed on screen and for CSA reports.

Monitor Setting: Main Setup --> Show CSA --> Setup CSA

Item Name	Factory Default				
Buffer A	2				
Buffer B	30				
Buffer C	120				

CSA Window Configuration

CSA window configuration settings are regular monitor settings.

Monitor Setting: Main Setup --> Show CSA --> Setup CSA

Item Name	Factory Default				
Buffer	A (2 Sec)				
Trend SEF	On				
Trend MDF	Off				
Trend PPF	Off				
Clipping	On				
Frequency Scale	0...30 Hz				
Smoothing CSA	not applicable	This setting is in the Measurement Settings Block: see Configuring EEG on page 42.			

CSA Reports Configuration

CSA reports configuration settings are regular monitor settings.

Monitor Setting: Main Setup --> Show CSA --> Setup CSA --> CSA on Report

Item Name	Factory Default				
Buffer	C (120 Sec)				
Trend SEF	On				
Trend MDF	Off				
Trend PPF	Off				
Clipping	On				
Frequency Scale	0...30 Hz				
Smoothing CSA	not applicable	This setting is in the Measurement Settings Block: see Configuring EEG on page 42.			

The default buffer interval for CSAs viewed on the monitor screen is optimized for a quick update of CSA information; the default buffer interval for CSA reports is intended to provide an overview of longer term CSA trends.

Configuring Calculations

Monitor Setting: Main Setup --> Calculations

Item Name	Factory Default				
Calc. Time Ref.	C.O. Time				
Height Unit	in				
Weight Unit	lb				
BSA Form. Adult	Dubois				
BSA Form. Pedi	Dubois				
BSA Form. Neo	Boyd				
Hemo Press Unit	mmHg				
Gas Press Unit	mmHg				
Hb Unit	g/dl				

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**.

Configuring the Drug Calculator

A configurable drug calculator is available with the IntelliVue patient monitor. Up to 24 drugs can be configured for all three patient categories. Configuration includes

- Amount and Volume
- Dose
- Rate
- Units
- Minimum/maximum ranges
- Whether the Rule of 6 may be used for each drug in neonatal patient category.

Drug calculator configuration settings are **unique settings**. They are the same in every Profile. 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.

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.

Configuring Reports

`Monitor Setting: Main Setup --> Reports --> Setup Reports`

If you set **`Unspecified`** as the report size, orientation, or target device, the monitor will automatically choose an appropriate setting.

For some report types, some of the settings are shown grayed out. This means that they cannot be changed.

Item Name	Factory Default				
Realtime Rep					
Report Type	VisibleWaves				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
Vitals Report					

Item Name	Factory Default				
Report Type	Vital Signs				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
Graph Report					
Report Type	Graph Trend				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
Event Episode					
Report Type	Episode				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
Event Review					
Report Type	Review				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
ECG Report A					
Report Type	ECG3X4				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
ECG Report B					
Report Type	ECG12X1				
Paper Size	Ledger				
Orientation	Unspecified				
Target Device	Unspecified				
EEG Report					
Report Type	EEG Report				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
C.O. Report					
Report Type	None				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
Wedge Report					
Report Type	None				
Paper Size	Unspecified				

Item Name	Factory Default				
Orientation	Unspecified				
Target Device	Unspecified				
Alarm Limits					
Report Type	Alarm Limits				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
Calc. Report					
Report Type	None				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
Calc. Review					
Report Type	None				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
Loops Report					
Report Type	None				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
Drug Calc					
Report Type	None				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
System Report					
Report Type	Test Report				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
User Report A					
Report Type	None				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				
User Report B					
Report Type	None				
Paper Size	Unspecified				
Orientation	Unspecified				
Target Device	Unspecified				

For information on configuring ECG reports, see ECG Reports Configuration on page 68.

Auto Reports Settings

Monitor Setting: Main Setup --> Reports --> Auto Reports

Item Name	Factory Default				
Auto Report = A					
Report	None				
End Case Report	On				
Scheduled Rep.	On				
Start Hour	7				
Start Minute	0				
Rep. Freq.(Hr)	24				
Rep. Freq.(Min)	0				
Auto Report = B					
Report	None				
End Case Report	On				
Scheduled Rep.	On				
Start Hour	7				
Start Minute	0				
Rep. Freq.(Hr)	24				
Rep. Freq.(Min)	0				
Auto Report = C					
Report	None				
End Case Report	On				
Scheduled Rep.	On				
Start Hour	7				
Start Minute	0				
Rep. Freq.(Hr)	24				
Rep. Freq.(Min)	0				
Auto Report = D					
Report	None				
End Case Report	On				
Scheduled Rep.	On				
Start Hour	7				
Start Minute	0				
Rep. Freq.(Hr)	24				
Rep. Freq.(Min)	0				

Report Templates and Paper Sizes

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 templates specifying the paper size "**Universal**" print on the first available printer in the list of printers which is enabled and which offers the paper size A4 or US letter.
- Report templates specifying the paper size "**Large Universal**" print on the first available printer in the list of printers which is enabled and which offers the paper size A3 or ledger.
- Report templates specifying the paper size "**Unspecified**" print on the first available printer in the list of printers which is enabled and which has a paper size appropriate for the chosen template.

Auto Reports

Auto Reports can be set up in Monitoring Mode or in Configuration Mode. See the Instructions for Use for a description. Note that **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.

Example: Setting up an End Case Report

1 Select **Main Setup** --> **Reports** --> **Auto Reports**

2 Select one of the four available Auto Reports (**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.

Printer Device Configuration

Printer device configuration settings are **unique settings**. They are the same in every Profile and they are automatically included in each Monitor Settings Block when you store them.

Monitor Setting: Main Setup --> Reports --> Setup Printers

Item Name	Factory Default	User Default
Printer = Local1		
Config Printer	Manual	This setting can only be changed in Service Mode. For locally-connected printers, this setting is always set to **Manual**.
Printer Status	Disabled	
Paper Size	Letter	
Resolution	300 dpi	
Color Support	Monochrome	
Duplex Option	Simplex	
Printer = Local2		

Item Name	Factory Default	User Default
Config Printer	Manual	This setting can only be changed in Service Mode. For locally-connected printers, this setting is always set to **Manual**.
Printer Status	Disabled	
Paper Size	Letter	
Resolution	300 dpi	
Color Support	Monochrome	
Duplex Option	Simplex	
Printer = Remote1		
Config Printer	Auto	This setting can only be changed in Service Mode.
Printer Status	Enabled	
Paper Size	Letter	
Resolution	300 dpi	
Color Support	Monochrome	
Duplex Option	Simplex	
Printer = Remote2		
Config Printer	Auto	This setting can only be changed in Service Mode.
Printer Status	Enabled	
Paper Size	Letter	
Resolution	300 dpi	
Color Support	Monochrome	
Duplex Option	Simplex	
Printer = Remote3		
Config Printer	Auto	This setting can only be changed in Service Mode.
Printer Status	Enabled	
Paper Size	Letter	
Resolution	300 dpi	
Color Support	Monochrome	
Duplex Option	Simplex	

Using Printer Settings from an Information Center

Config Printer Auto/Manual: When **Config Printer** is set to **Auto** in Service Mode, 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. For local printers, this setting is automatically set to **Manual**.

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 and make sure that **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 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.

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**.

Printing a Test Report

To verify your printer configuration you may want to print a test report.

To print a test report,

- select **Main Setup --> Reports --> Setup Printers --> Print Test Rep.**

Configuring Recordings

Recorder configuration settings are **unique settings**. They are the same in every Profile and they are automatically included in each Monitor Settings Block when you store them.

`Monitor Setting: Main Setup --> Recordings --> Setup Recording`

Item Name	Factory Default				
Instance Name	[Factory Default]				
ECG Gain	10 mm/mV				
Delayed Recording					
Recording Name	Delayed				
Recording Type	Delayed				
Recorder	Local				
Channel 1	Primary Lead				
Channel 2	ABP				
Channel 3	Blank				
Channel 4					
Overlap	Off				
Speed	25 mm/s				
Delay Time	15 sec				
Run Time	20 sec				
Alarm Recording					
Recording Name	Alarm				
Recording Type	Alarm				
Recorder	Local				
Channel 1	Primary Lead				
Channel 2	Alarm Par				
Channel 3	Blank				
Channel 4					
Overlap	Off				
Speed	25 mm/s				
Delay Time	15 sec				
Run Time	20 sec				
Realtime A					
Recording Name	RT A				
Recording Type	Realtime				
Recorder	Local				
Channel 1	Primary Lead				
Channel 2	ABP				
Channel 3	Blank				
Channel 4					
Overlap	Off				
Speed	25 mm/s				

Item Name	Factory Default				
Run Time	Continuous				
Realtime B					
Recording Name	RT B				
Recording Type	Realtime				
Recorder	Local				
Channel 1	Primary Lead				
Channel 2	ABP				
Channel 3	Pleth				
Channel 4					
Overlap	Channel 2+3				
Speed	25 mm/s				
Run Time	Continuous				
Realtime C					
Recording Name	RT C				
Recording Type	Realtime				
Recorder	Local				
Channel 1	Primary Lead				
Channel 2	ABP				
Channel 3	Pleth				
Channel 4					
Overlap	Channel 1+2+3				
Speed	25 mm/s				
Run Time	Continuous				
HiResTrend					
Recording Name	HiResTrd				
Recording Type	HiResTrend				
Recorder	Local				
Channel 1	btbHR				
Channel 2	SpO2				
Channel 3	Resp				
Channel 4					
Overlap	Off				
Speed	2 cm/min				
Delay Time	6 min				
Run Time	Continuous				

The setting **`Channel 4`** is only available if a four-channel recorder is available and selected.

Configuring User Interface Settings

Monitor Setting: Main Setup --> User Interface

Item Name	Factory Default				
QRS Volume	1				
QRS Low	0				
QRS Type	QRS Tone	This setting is in the Global Settings part of the Monitor Settings Block: see Global Settings on page 87.			
Prompt Volume[1]	8				
Tone Modulation	Yes				
Tone Mod. Type	Enhanced				
Brightness	Optimum				
Standby Brightness	Optimum				
Transport Brightness[2]	Optimum				
Global Speed	25mm/s				
Respiratory Speed	6.25mm/s				
EEG Speed	25 mm/s				
Touch ToneVolume	1				
Touch Enable	Yes[3]				
MMS Keys	Enabled				
Dspl.1 WaveStyle	Thin				
Dspl.2 WaveStyle	Thin				
Menu LineSpacing	Wide				
Display Units	No				
Alarm Limits[1]	Yes				
Auto Fill Waves[1]	Yes				
Show ST In Wave	No				
ArrhyOff Message[1]	Yes				
NBP Time	Meas Time				
Meas. Selection	Window				
OtherBed Colors	Enabled	This setting is in the Network Settings part of the Monitor Settings Block: see Configuring Network Settings on page 84.			

1. The default user interface settings for Anesthesia configurations (option H30) are Prompt Volume: 5; Alarm Limits: No; Auto Fill Waves: No; Arrhythmia Off Message: No.
2. This setting applies only to the MP20/30/40/50.
3. This setting can only be changed in Service Mode.

User Interface Configuration Implications

QRS Volume Sets the default volume of the QRS tone.

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_2 tone will change with the measured signal strength.

Tone Modulation Type This setting lets you choose between **Standard** and **Enhanced**. **Standard** is the regular Nellcor behavior. **Enhanced** results in a larger (and therefore more obvious) frequency decrease for each drop in SpO_2 level.

Brightness Defines the default brightness for monitoring. This setting is not applicable for an MP90 monitor (external display).

Standby Brightness Lets you choose a brightness setting for when the monitor is in Standby. This setting is not applicable for an MP90 monitor (external display).

Transport Brightness This setting applies only to the MP40/ MP50. It defines the display brightness when the monitor is running on battery power.

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 "Configuring Special Screen Trend Settings" on page 14.

RespiratorySpeed The **Respiratory Speed** setting defines the speed of all respiratory waves (CO_2, Resp. anesthetic agents and O_2) on the Screen. The **RespiratorySpeed** setting can be overridden by fixed wave channel speeds. See "Configuring Special Screen Trend Settings" on page 14.

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 "Configuring Special Screen Trend Settings" on page 14.

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 If you do not want to use the hardkeys on the Multi-Measurement Server, set this to **Disabled**.

Dspl.1(2)WaveStyle This setting lets you configure the thickness of all waves and HiRes Trends on display 1 (2). For better visibility over a distance you might want to use **Medium** or **Thick**. The choices are: **Thin**, **Medium**, **Thick**, **Extra Thick**.

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 will automatically assign waves and numerics to any empty fields on the Screen. Set this to **No** if you do not want the displayed measurements to change if measurements become unavailable.

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.

ArrhyOff Messg If **ArrhyOff Messg** is set to **On**, and arrhythmia analysis is switched off, the message "Arrhythmia OFF" appears beside the ECG wave. Set this to **Off**, if you do not want to see this message when arrhythmia is off.

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, the time until the next automatic measurement is shown, along with a graphic representation of the remaining time.

Meas. Selection The **Meas. Selection** setting defines the behavior of the monitor if there is a measurement label conflict. Set this to **Indicator** to display the measurement selection icon with question marks to indicate the presence of a conflict. Set it to **Window** to display the Measurement Selection window with question marks indicating a label conflict. Set it to **Auto Select.** to resolve the conflict automatically, by assigning a new, generic label to the most recently connected conflicting label.

Configuring Bed Information Settings

Monitor Setting: Main Setup --> Bed Information

Item Name	Factory Default	User Defaults
Equipment Label	<empty>	
Hospital Label	<empty>	

Equipment and hospital labels must be entered for each individual monitor. They are stored with the monitor, they are **not cloned**. All other Bed Information shown for information only in the Bed Info window is automatically acquired and cannot be changed.

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; the hospital label can be up to 30 characters. 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.

Configuring Network Settings

Monitor Setting: Main Setup --> Network

Item Name	Factory Default				
Auto Window	not applicable	see Network Configuration Implications			
Auto Window Type[1]	PatWindow				
CareGroup Status	On				
Caregroup	Standard				
CentralMonitorng[1]	Mandatory				
Tele Screen	Automatic				
Other BedColors	Enabled				
Remote Controls	Enabled				
CaregroupToneVol	8				
Caregroup Tone	Standard				

1. The default network settings for Anesthesia configurations (option H30) are Auto Window Type: Off, and Central Monitoring: Optional, to avoid getting the No Central Monitoring INOP at standalone monitors in the OR.

Network Configuration Implications

Auto Window This is not a configurable setting. It can be used during monitoring to temporarily disable automatic notification of alarm conditions at the other beds in the Care Group. To configure the automatic notification to disabled, set **Auto Window Type** to **Off**.

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:

- **PatWindow**, to make the Other Patient Window for the alarming bedside pop up
- **CareGroup**, to make the My Care Group window pop up.

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 re-enable the Auto Window as soon as possible.

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 in the Information Center. This allows you to assign a maximum number of 12 beds from different Information Centers to the care group at the Information Center.
Set it to **My Central** if you need to assign more than 12 beds to a care group. If configured to **My Central**, the monitor assigns all beds monitored by one Information Center to your care group. This provides a maximum of 16 beds in the care group, but limits the selection of beds to the beds assigned to the one Information Center. Be aware that only beds that are assigned to one of the care groups set up at the Information Center are included in the care group.

All other care group configuration settings, such as the **Auto Window Type**, are not affected by this care group definition and must be configured individually for each care group set up at the Information Center.

Central Monitoring 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 **Automatic** if you want the monitor to automatically switch to a dedicated telemetry screen when the user assigns the monitor to a telemetry transmitter at the Information Center.
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.

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.

Remote Controls Some functions of the IntelliVue bedside monitor, such as silencing alarms, arrhythmia settings, and HR alarm limits can be remotely controlled from an Information Center. Set **Remote Controls** to **Disabled** if you do not want to allow users to control these functions from the Information Center. For a complete list of functions that can be remotely controlled, please refer to your Information Center Instructions for Use.

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 switch between a **Standard** and **Enhanced** tone. The **Enhanced** tone is a more prominent tone to draw attention to the screen. It will only be generated if an alarm exceeds the Auto Alarm Severity level configured at the Information Center. Note that tones for care group alarms 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 Instructions for Use.

Hardware Settings

This section lists all the settings grouped in the Hardware Settings Block. These 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 they are **not cloned**.

Document the settings you configure in the empty column.

`Main Setup` - -> **`Hardware`**

Item Name	Factory Default	User Defaults
MIB/RS232	n/a	
Data Export	Fix 115200	
Setup Video	15” LCD XGA	
Keyboard	US	

`MIB/RS232` This setting can be changed in **Service Mode only**. Supported board settings are listed in the Installation Instructions section of the Service Guide.

`Data Export`. This setting allows you to change the baud rate of the MIB/RS232 data out.

`Setup Video`. This setting applies only to the MP90. It is available in **Service Mode only** and allows technical personnel to set the correct display resolution.

`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.

Global Settings

This section lists all the settings grouped in the Global Settings Block. Global Settings are set once per monitor and are independent of the Profiles and Settings Blocks. Any changes you may configure are automatically stored, there is no need to save them.

Document the settings you configure in the empty column of the table below.

Read any information on Configuration Implications at the end of the sections before you make any configuration changes.

Main Setup - -> **Global Settings**

Item Name	Factory Default	User Defaults
Default Profile	The factory default Profile depends on the monitor model and Hxx option. See the Configuration Overview starting on page 94.	
Altitude (m)	0	
Line Frequency	60 Hz	
QRS Type	QRS Tone	
ECG Cable Color	AAMI	
Pat. Sel. Default	Cont Monitor	
MMS Sett. Upload	No	
MMS Trend Upload	No	
Automat. Default	Yes	
Silence Key	Checkmark	
Arrhy Text	* Alarm	
Label Set	Restricted	

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 Profiles Settings on page 18 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**.

ECG Cable Color This setting is currently not used.

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**.

MMS Sett Upload, MMS Trend Upload These settings are relevant if your monitor's **Patient Selection Default** is configured to **Continue MMS**, or if it is configured to **Ask User** and the user selects **Continue MMS** or **Same Patient**. In these cases, the patient demographic information in the MMS will be uploaded to the monitor as described in the monitor's Instructions for Use, and additionally:

- the settings for the MMS measurements if **MMS Sett Upload** is set to **Yes**
- the measurement trend data from the MMS, if **MMS Trend Upload** is set to **Yes**.

If **MMS Sett Upload** and **MMS Trend Upload** are set to **No**, only the patient demographic information is uploaded when the patient conflict is resolved.

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.

Silence Key This setting changes the symbol shown on the Silence SmartKey. The Silence hardkey on earlier 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". This setting is applicable for the MP60/MP70 and MP90 only.

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.

Label Set The **Full** label set provides extra labels for Pressure and Temp. See the sections in the monitor's Instructions for Use on Pressure and Temp for more information. The **Restricted** label set offers all labels available prior to the monitor's B.1 release.

If you connect a measurement server 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.

Configuring the Monitor Database

Main Setup -> **Databases -> Database Config**

The monitor's database is divided into sections that store events, trends, and calculations information separately. You can configure the size of the Trends and Events sections to suit your monitoring needs. The calculations database always stores up to 50 calculations, this configuration cannot be changed. 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.

Trends: in the **Database Configurations** menu, the currently active database configuration is shown, for example, the entry **Trends 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.

Events: In the **Database Configurations** menu, select **Event Surveillance**, then select the event 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, discharges the current patient and erases all information in the database. The monitor will automatically be switched off and then on again.

Trend Database Options

This table illustrates the default trend database configurations for the different H and trend database options:

	Option H30, Anesthesia			Options H10 and H40, ICU /CCU			Option H20, NICU		
	Resolution	Period	No. of Measurements	Resolution	Period	No. of Measurements	Resolution	Period	No. of Measurements
Standard Database	12 sec	5 h	16	12 sec	4 h	16	12 sec	9 h	12
	1 min	24 h	16	1 min	24 h	16	1 min	24 h	12
	5 min	24 h	16	5 min	48 h	16	5 min	24 h	12
Extended Database (Option C03)	12 sec	5 h	32	12 sec	4 h	32	12 sec	9 h	24
	1 min	24 h	32	1 min	24 h	32	1 min	24 h	24
	5 min	24 h	32	5 min	48 h	32	5 min	24 h	24

Additional Extended Trend Database Options (MP60/70/90 only):

Option H30

- 32 Parameters 9h@12s, 9h@1min, 9h@5min
- 24 Parameters 12h@12s, 124h@1min, 12h@5min

Option H10/H40

- 32 Parameters 2h@12s, 32h@1min, 48h@5min
- 24 Parameters 48h@1min, 72h@5min

Option H20

- 24 Parameters 12h@12s, 12h@1min, 12h@5min
- 12 Parameters 24h@12s, 24h @1min, 24h @5min

Events Database Options

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)
Database capability	None	None	None
	25 events for 24 hours	25 events for 24 hours	25 events for 24 hours
		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

4

Screen Configuration Appendix

This appendix documents the Screens your monitor is supplied with. If you change these Screens, this document will no longer reflect your configuration, so you 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 94, the configurations supplied with each possible combination of options are listed.

The Screen Overview section starting on page 106 gives an overview of all initial and demo configuration Screen names for monitor release B.1. To view or print bitmaps of all Screens supplied with a specific initial or demo configuration, on the Documentation CD supplied with your IntelliVue monitor, navigate to the folder **`Documentation \ 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
- **.bmp**: 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 Axx 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.

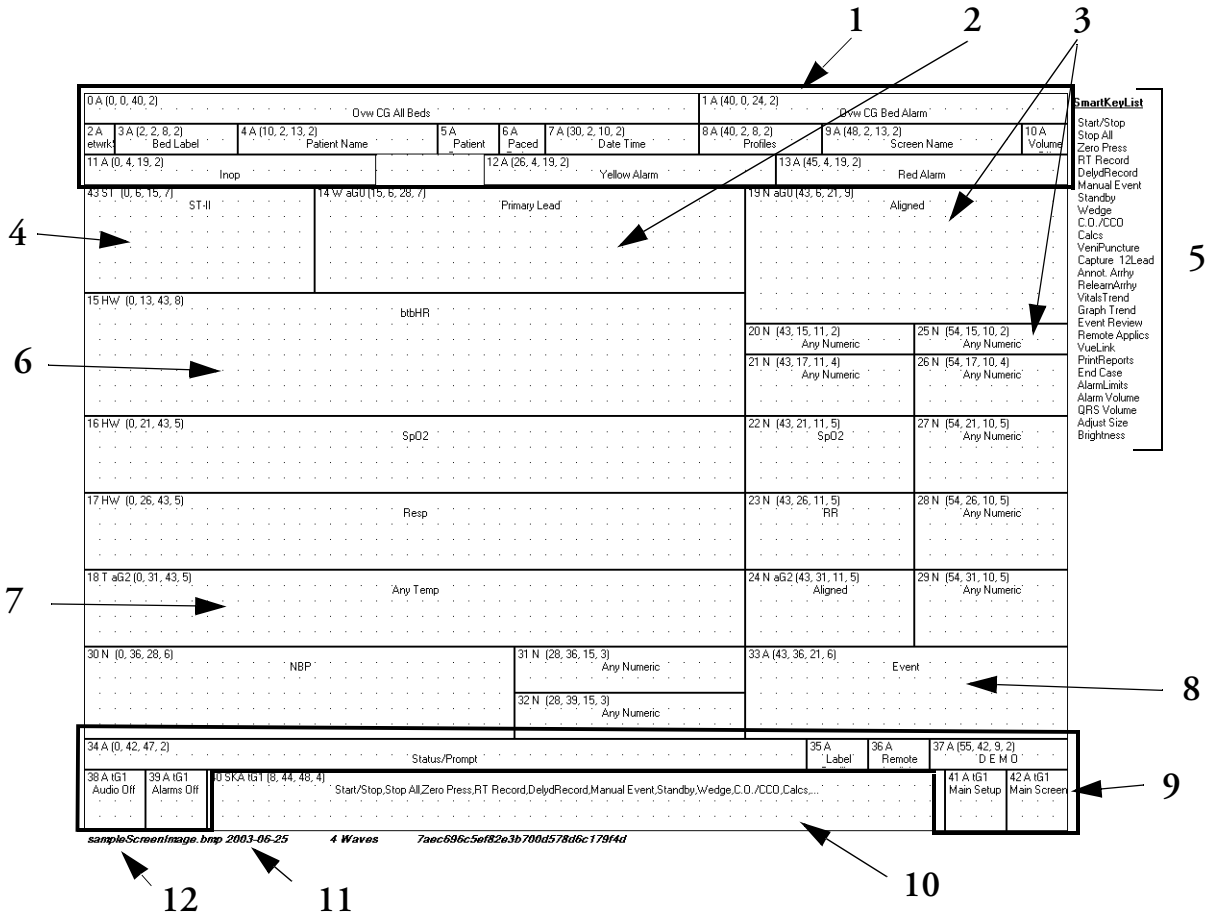
Using the Screen Library

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-ScreenTrend-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-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-Rev005.rds
- **Example of SXGA Screen**. This could be entitled: G-12W-1x3ovl-2x2ovl-1split-Rev004-sxga.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	Application, A	application label, e.g. Events, Cardiac Output, Wedge etc.
9	Fixed Area	Permanent Keys, current operating mode, monitor status prompts. Cannot be modified with Support Tool. Note that the Permanent Key configuration (e.g., **`Audio Off`**) valid when the Screen was created is written on the appropriate field.
10	Smart Key area, SKA	SmartKeys in the order listed at 5.
11	Date of modification	the date the Screen was last modified.
12	Filename	the Screen filename. The .rds format contains the Screen itself, the .bmp format contains the reference image.

MP60/MP70/MP90 Configuration Overview

Option H10

The H10 initial configuration filename is **H10 Axx, XGA, MP60-90, initial, B.10.xx, Rev xxx.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	Non-Paced	Screen A	Screen A	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	Screen A	Screen A	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	Screen A	Screen A	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		Service A		Service A		Service A	
Screen A	Yes	Screen A	Yes	Screen A	Yes	Screen A	Yes
Screen B	No	Screen B	No	Screen B	No	Screen B	No
Screen C	No	Screen C	No	Screen C	No	Big Numerics	No
Screen D	No	Screen D	No	Screen D	No	EEG CSA	No
Screen E	No	Screen E	No	Screen E	No	12 Lead ECG	No
Screen F	No	Screen F	No	Big Numerics	No		
Big Numerics	No	Big Numerics	No	EEG CSA	No		
EEG CSA	No	EEG CSA	No	12 Lead ECG	No		
12 Lead ECG	No	12 Lead ECG	No				

Option H20

The H20 initial configuration filename is **H20 Axx, XGA, MP60-90, initial, B.10.xx, Rev xxx.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	OxyCRG A	OxyCRG A	Monitor A	Measmt. Neo
Pedi	no	yes	Pedi	Non-Paced	OxyCRG A	OxyCRG A	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**	**A04**	**Locked**
Service A		Service A		Service A		Service A	
OxyCRG A	Yes	OxyCRG A	Yes	OxyCRG A	Yes	OxyCRG	Yes
OxyCRG B	No	OxyCRG B	No	OxyCRG B	No	Screen A	No
OxyCRG C	No	Screen A	No	Screen A	No	Screen B	No
Screen A	No	Screen B	No	Screen B	No	Big Numerics	No
Screen B	No	Screen C	No	Screen C	No	EEG CSA	No
Screen C	No	Screen D	No	Screen D	No	12 Lead ECG	No
Big Numerics	No	Big Numerics	No	Big Numerics	No		
EEG CSA	No	EEG CSA	No	EEG CSA	No		
12 Lead ECG	No	12 Lead ECG	No	12 Lead ECG	No		

Option H30

The H30 initial configuration filename is **H30 Axx, XGA, MP60-90, initial, B.10.xx, Rev xxx.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	Non-Paced	Screen A	A12: Screen E A08: Screen D A06: Screen B A04: Screen B	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	Screen A		Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	Screen A		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		Service A		Service A		Service A	
Screen A	Yes	Screen A	Yes	Screen A	Yes	Screen A	Yes
Screen B	No	Screen B	No	Screen B	No	Screen B	No
Screen C	No	Screen C	No	Screen C	No	Screen C	No
Screen D	No	Screen D	No	Screen D	No	Big Numerics	No
Screen E	No	Screen E	No	Screen E	No	EEG CSA	No
Screen F	No	Screen F	No	Screen F	No	12 Lead ECG	No
Big Numerics	No	Big Numerics	No	Big Numerics	No		
EEG CSA	No	EEG CSA	No	EEG CSA	No		
12 Lead ECG	No	12 Lead ECG	No	12 Lead ECG	No		

Option H40

The H40 initial configuration filename is **H40 Axx, XGA, MP60-90, initial, B.10.xx, Rev xxx.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	Non-Paced	Screen A	12 Lead ECG	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	Screen A	12 Lead ECG	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	Screen A	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							
A12	**Locked**	**A08**	**Locked**	**A06**	**Locked**	**A04**	**Locked**
Service A		Service A		Service A		Service A	
Screen A	Yes	Screen A	Yes	Screen A	Yes	Screen A	Yes
Screen B	No	Screen B	No	Screen B	No	Screen B	No
Screen C	No	Screen C	No	Screen C	No	Big Numerics	No
Screen D	No	Screen D	No	Screen D	No	EEG CSA	No
Screen E	No	Screen E	No	Screen E	No	12 Lead ECG	No
Screen F	No	Screen F	No	Big Numerics	No		
Big Numerics	No	Big Numerics	No	EEG CSA	No		
EEG CSA	No	EEG CSA	No	12 Lead ECG	Yes		
12 Lead ECG	No	12 Lead ECG	No				

MP40/MP50 Configuration Overview

Option H10

The H10 initial configuration filename is **H10 Axx, SVGA, MP40-50, initial, B.10.xx, Rev xxx.cfg**.

Profiles							
Profile Name	**Default**	**Locked**	**Patient Cat.**	**Paced Mode**	**Display**	**Monitor Settings Block**	**Meas. Settings Block**
Adult	yes	yes	Adult	Non-Paced	Screen A	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	Screen A	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	Screen A	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**
Service A		Service A	
Screen A	Yes	Screen A	Yes
Screen B	No	Screen B	No
Screen C	No	Screen C	No
Screen D	No	Screen D	No
Screen E	No	Screen E	No
Screen F	No	Screen F	No
Screen G	No	Screen G	No
Big Numerics	No	Big Numerics	No
EEG CSA	No	EEG CSA	No
12 Lead ECG	No	12 Lead ECG	No

Option H20

The H20 initial configuration filename is **H20 Axx, SVGA, MP40-50, initial, B.10.xx, Rev xxx.cfg**.

Profiles							
Profile Name	**Default**	**Locked**	**Patient Cat.**	**Paced Mode**	**Display**	**Monitor Settings Block**	**Meas. Settings Block**
Neo	yes	yes	Neo	Non-Paced	OxyCRG A	Monitor A	Measmt. Neo
Pedi	no	yes	Pedi	Non-Paced	OxyCRG A	Monitor A	Measmt. Pedi

Monitor Settings Blocks	
Name	**Locked**
Monitor A	Yes

Measurement Settings Blocks	
Name	**Locked**
Measmt. Neo	Yes
Measmt. Pedi	Yes

Screens			
A06	**Locked**	**A04**	**Locked**
Service A		Service A	
OxyCRG A	Yes	OxyCRG	Yes
OxyCRG B	No	Screen A	No
Screen A	No	Screen B	No
Screen B	No	Screen C	No
Screen C	No	Screen D	No
Screen D	No	Screen E	No
Screen E	No	Screen F	No
Big Numerics	No	Big Numerics	No
EEG CSA	No	EEG CSA	No
12 Lead ECG	No	12 Lead ECG	No

Option H30

The H30 initial configuration filename is **H30 Axx, SVGA, MP40-50, initial, B.10.xx, Rev xxx.cfg**.

Profiles							
Profile Name	**Default**	**Locked**	**Patient Cat.**	**Paced Mode**	**Display**	**Monitor Settings Block**	**Meas. Settings Block**
Adult	yes	yes	Adult	Non-Paced	Screen A	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	Screen A	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	Screen A	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**
Service A		Service A	
Screen A	Yes	Screen A	Yes
Screen B	No	Screen B	No
Screen C	No	Screen C	No
Screen D	No	Screen D	No
Screen E	No	Screen E	No
Screen F	No	Screen F	No
Screen G	No	Screen G	No
Big Numerics	No	Big Numerics	No
EEG CSA	No	EEG CSA	No
12 Lead ECG	No	12 Lead ECG	No

Option H40

The H40 initial configuration filename is **H40 Axx, SVGA, MP40-50, initial, B.10.xx, Rev xxx.cfg**.

Profiles							
Profile Name	**Default**	**Locked**	**Patient Cat.**	**Paced Mode**	**Display**	**Monitor Settings Block**	**Meas. Settings Block**
Adult	yes	yes	Adult	Non-Paced	Screen A	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	Screen A	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	Screen A	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**
Service A		Service A	
Screen A	Yes	Screen A	Yes
Screen B	No	Screen B	No
Screen C	No	Screen C	No
Screen D	No	Screen D	No
Screen E	No	Screen E	No
Screen F	No	Screen F	No
Screen G	No	Screen G	No
Big Numerics	No	Big Numerics	No
EEG CSA	No	EEG CSA	No
12 Lead ECG	No	12 Lead ECG	No

MP20/MP30 Configuration Overview

Option H10

The H10 initial configuration filename is **H10 Axx, SVGA, MP20-30, initial, B.10.xx, Rev xxx.cfg**.

Profiles							
Profile Name	**Default**	**Locked**	**Patient Cat.**	**Paced Mode**	**Display**	**Monitor Settings Block**	**Meas. Settings Block**
Adult	yes	yes	Adult	Non-Paced	Screen A	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	Screen A	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	Screen A	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		Service A	
Screen A	Yes	Screen A	Yes
Screen B	No	Screen B	No
Screen C	No	Screen C	No
Screen D	No	Screen D	No
Screen E	No	Screen E	No
Screen F	No	Screen F	No
Screen G	No	Screen G	No
Screen H	No	Big Numerics	No
Big Numerics	No	12 Lead ECG	No
12 Lead ECG	No		

Option H20

The H20 initial configuration filename is **H20 Axx, SVGA, MP20-30, initial, B.10.xx, Rev xxx.cfg**.

Profiles							
Profile Name	**Default**	**Locked**	**Patient Cat.**	**Paced Mode**	**Display**	**Monitor Settings Block**	**Meas. Settings Block**
Pedi	no	yes	Pedi	Non-Paced	A04: OxyCRG	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	A03: Screen A	Monitor A	Measmt. Neo

Monitor Settings Blocks	
Name	**Locked**
Monitor A	Yes

Measurement Settings Blocks	
Name	**Locked**
Measmt. Pedi	Yes
Measmt. Neo	Yes

Screens			
A04	**Locked**	**A03**	**Locked**
Service A		Service A	
OxyCRG	Yes	Screen A	Yes
Screen A	No	Screen B	No
Screen B	No	Screen C	No
Screen C	No	Screen D	No
Screen D	No	Screen E	No
Screen E	No	Screen F	No
Screen F	No	Screen G	No
Screen G	No	Screen H	No
Big Numerics	No	Big Numerics	No
12 Lead ECG	No	12 Lead ECG	No

Option H30

The H30 initial configuration filename is **H30 Axx, SVGA, MP20-30, initial, B.10.xx, Rev xxx.cfg**.

Profiles							
Profile Name	**Default**	**Locked**	**Patient Cat.**	**Paced Mode**	**Display**	**Monitor Settings Block**	**Meas. Settings Block**
Adult	yes	yes	Adult	Non-Paced	Screen A	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	Screen A	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	Screen A	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		Service A	
Screen A	Yes	Screen A	Yes
Screen B	No	Screen B	No
Screen C	No	Screen C	No
Screen D	No	Screen D	No
Screen E	No	Screen E	No
Screen F	No	Screen F	No
Screen G	No	Screen G	No
Screen H	No	Big Numerics	No
Big Numerics	No	12 Lead ECG	No
12 Lead ECG	No		

Option H40

The H40 initial configuration filename is **H40 Axx, SVGA, MP20-30, initial, B.10.xx, Rev xxx.cfg**.

Profiles							
Profile Name	**Default**	**Locked**	**Patient Cat.**	**Paced Mode**	**Display**	**Monitor Settings Block**	**Meas. Settings Block**
Adult	yes	yes	Adult	Non-Paced	Screen A	Monitor A	Measmt. Adult
Pedi	no	yes	Pedi	Non-Paced	Screen A	Monitor A	Measmt. Pedi
Neo	no	yes	Neo	Non-Paced	Screen A	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		Service A	
Screen A	Yes	Screen A	Yes
Screen B	No	Screen B	No
Screen C	No	Screen C	No
Screen D	No	Screen D	No
Screen E	No	Screen E	No
Screen F	No	Screen F	No
Screen G	No	Screen G	No
Screen H	No	Big Numerics	No
Big Numerics	No	12 Lead ECG	No
12 Lead ECG	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 B.1.

The are three main sections, one for the models MP60, MP70, and MP90, one for the models MP40 and MP50, and one for the models MP20 and MP30. At the end of each section, 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 Screen Library of the Support Tool.

To view or print bitmaps of all Screens supplied with a specific initial or demo configuration, on the Documentation CD supplied with your IntelliVue monitor, navigate to the folder **`Documentation\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 configuration for an MP70 with application area option H10 and wave option A08, you would open the "H10 A08, XGA, MP60-90, initial, B.10.xx, Rev xxx.pdf".

Screen Overview -Table of Contents

MP60/MP70/MP90 Screen Overview

Option H10 Screens

MP60/70/90 H 10 A 12	
Name	**File**
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	G-12W-5Press-1x4ovl-1split01-Rev003
Screen B	G-08W-3Press-Rev003
Screen C	G-08W-3Press-1x3ovl-Rev003
Screen D	G-08W-3Press-2x2ovl-Rev003
Screen E	G-06W-2Press-Rev004
Screen F	G-06W-2Press-1x3ovl-Rev004
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	G-05W-CSA-Rev005
12 Lead ECG	C-13W-12Lead-Rev004

MP60/70/90 H 10 A 08	
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	G-08W-3Press-Rev003
Screen B	G-08W-3Press-1x3ovl-Rev003
Screen C	G-08W-3Press-2x2ovl-Rev003
Screen D	G-06W-2Press-Rev004
Screen E	G-06W-2Press-1x3ovl-Rev004
Screen F	G-04W-2Press-Rev004
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	G-05W-CSA-Rev005
12 Lead ECG	C-13W-12Lead-Rev004

MP60/70/90 H 10 A 06	
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	G-06W-2Press-Rev004
Screen B	G-06W-2Press-1x2ovl-Rev004
Screen C	G-06W-2Press-1x3ovl-Rev004
Screen D	G-04W-2Press-Rev004
Screen E	G-04W-2Press-1x2ovl-Rev003
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	G-05W-CSA-Rev005
12 Lead ECG	C-13W-12Lead-Rev004

MP60/70/90 H 10 A 04	
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	G-04W-2Press-Rev004
Screen B	G-04W-2Press-1x2ovl-Rev003
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	G-04W-CSA-Rev005
12 Lead ECG	C-13W-12Lead-Rev004

Option H20 Screens

MP60/70/90 H 20 A 12	
Name	**File**
Service A	S-01W-01HighRes-service_A-Rev004
Oxy CRG A	N-07W-04HighRes-3split01-Rev003
Oxy CRG B	N-03W-03HighRes-2Press-Rev003
Oxy CRG C	N-03W-04HighRes-Events-Rev003
Screen A	G-08W-3Press-Rev003
Screen B	G-08W-3Press-1x3ovl-Rev003
Screen C	G-06W-2Press-Rev004
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	G-05W-CSA-Rev005
12 Lead ECG	C-13W-12Lead-Rev004

MP60/70/90 H 20 A 08	
Service A	S-01W-01HighRes-service_A-Rev004
Oxy CRG A	N-03W-03HighRes-2Press-Rev003
Oxy CRG B	N-03W-04HighRes-Events-Rev003
Screen A	G-08W-3Press-Rev003
Screen B	G-08W-3Press-1x3ovl-Rev003
Screen C	G-06W-2Press-Rev004
Screen D	G-04W-2Press-Rev004
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	G-05W-CSA-Rev005
12 Lead ECG	C-13W-12Lead-Rev004

MP60/70/90 H 20 A 06	
Service A	S-01W-01HighRes-service_A-Rev004
Oxy CRG A	N-02W-03HighRes-1Press-Rev004
Oxy CRG B	N-03W-03HighRes-2Press-Rev003
Screen A	G-06W-2Press-Rev004
Screen B	G-06W-2Press-1x3ovl-Rev004
Screen C	G-04W-2Press-Rev004
Screen D	G-04W-2Press-1x2ovl-Rev003
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	G-05W-CSA-Rev005
12 Lead ECG	C-13W-12Lead-Rev004

MP60/70/90 H 20 A 04	
Service A	S-01W-01HighRes-service_A-Rev004
OxyCRG	N-01W-03HighRes-Rev004
Screen A	G-04W-2Press-Rev004
Screen B	G-04W-2Press-1x2ovl-Rev003
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	G-04W-CSA-Rev005
12 Lead ECG	C-13W-12Lead-Rev004

Option H30 Screens

MP60/70/90 H 30 A 12	
Name	**File**
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	A-11W-5Press-1x4ovl-2split01-1Tr-BIS-Rev002
Screen B	A-07W-1Tr-BIS-01-Rev002
Screen C	A-08W-3Press-1x3ovl-Rev005
Screen D	A-08W-3Press-2x2ovl-Rev005
Screen E	A-06W-2Press-Rev005
Screen F	A-06W-2Press-1x3ovl-Rev005
Big Numerics	A-03W-BigN-BIS01-Rev004
EEG CSA	A-05W-CSA-Rev005
12 Lead ECG	A-13W-12Lead-Rev005

MP60/70/90 H 30 A 08	
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	A-07W-1Tr-BIS-01-Rev002
Screen B	A-08W-3Press-1x3ovl-Rev005
Screen C	A-08W-3Press-2x2ovl-Rev005
Screen D	A-06W-2Press-Rev005
Screen E	A-06W-2Press-1x3ovl-Rev005
Screen F	A-04W-2Press-Rev005
Big Numerics	A-03W-BigN-BIS01-Rev004
EEG CSA	A-05W-CSA-Rev005
12 Lead ECG	A-13W-12Lead-Rev005

MP60/70/90 H 30 A 06	
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	A-04W-1Tr-BIS-01-Rev002
Screen B	A-06W-2Press-1-Rev006
Screen C	A-06W-2Press-1x2ovl-Rev005
Screen D	A-06W-2Press-1x3ovl-Rev005
Screen E	A-04W-2Press-Rev005
Screen F	A-04W-2Press-1x2ovl-Rev005
Big Numerics	A-03W-BigN-BIS01-Rev004
EEG CSA	A-05W-CSA-Rev005
12 Lead ECG	A-13W-12Lead-Rev005

MP60/70/90 H 30 A 04	
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	A-04W-BIS01-Rev004
Screen B	A-04W-2Press-1-Rev005
Screen C	A-04W-2Press-1x2ovl-1-Rev005
Big Numerics	A-03W-BigN-BIS01-Rev004
EEG CSA	A-04W-CSA-Rev005
12 Lead ECG	A-13W-12Lead-Rev005

Option H40 Screens

MP60/70/90 H 40 A 12	
Name	**File**
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	C-12W-5Press-1x4ovl-1split01-Rev003
Screen B	C-08W-3Press-Rev003
Screen C	C-08W-3Press-1x3ovl-Rev003
Screen D	C-08W-3Press-2x2ovl-Rev003
Screen E	C-06W-2Press-Rev004
Screen F	C-06W-2Press-1x3ovl-Rev004
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	C-05W-CSA-Rev004
12 Lead ECG	C-13W-12Lead-Rev004

MP60/70/90 H 40 A 08	
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	C-08W-3Press-Rev003
Screen B	C-08W-3Press-1x3ovl-Rev003
Screen C	C-08W-3Press-2x2ovl-Rev003
Screen D	C-06W-2Press-Rev004
Screen E	C-06W-2Press-1x3ovl-Rev004
Screen F	C-04W-2Press-Rev004
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	C-05W-CSA-Rev004
12 Lead ECG	C-13W-12Lead-Rev004

MP60/70/90 H 40 A 06	
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	C-06W-2Press-Rev004
Screen B	C-06W-2Press-1x2ovl-Rev004
Screen C	C-06W-2Press-1x3ovl-Rev004
Screen D	C-04W-2Press-Rev004
Screen E	C-04W-2Press-1x2ovl-Rev003
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	C-05W-CSA-Rev004
12 Lead ECG	C-13W-12Lead-Rev004

MP60/70/90 H 40 A 04	
Service A	S-01W-01HighRes-service_A-Rev004
Screen A	C-04W-2Press-Rev004
Screen B	C-04W-2Press-1x2ovl-Rev003
Big Numerics	G-03W-bigNumerics-Rev004
EEG CSA	C-04W-CSA-Rev004
12 Lead ECG	C-13W-12Lead-Rev004

Demo Configuration Screens

MP60/70/90 DEMO	
Name	**File**
Service A	S-01W-01HighRes-service_A-Rev004
Big Numerics	G-03W-bigNumerics-02-Rev001
4 Waves A	G-04W-2Press-Rev004
6 Waves A	A-06W-1Tr-2Press-Rev005
Overlapping A	G-08W-3Press-2x2ovl-Rev003
Split Screen A	G-08W-3Press-Split-ScreenTrend-Rev004
Graph Trends	G-00W-8Tr-only-01-Rev002
HighResTrend	N-03W-04HighRes-3Press-Events-Rev001
Vital Signs A	G-05W-2Tr-TrA-01-Rev001
Horizon	A-06W-Hor06Tr-01-Rev003
Other Bed	G-06W-1Ovv02W-1Tr-01-Rev002
Loops	G-06W-3Tr-2Press-1x2ovl-Loops-Rev006
Cardiac Output	A-04W-cardiacOut-Rev005
Wedge	A-06W-wedge1-Rev005
EEG CSA	G-05W-CSA-Rev005
VueLink	A-07W-2Press-1x2ovl-VueLink-1Tr-Rev003
12 Lead ECG	C-13W-12Lead-Ovv-Split-ST-snippets-Rev002
ST Segments	C-05W-2Press-03ST-snippets-Rev003
Screen A	C-05W-2Press-Hor06Tr-Rev001
Screen B	G-12W-1x3ovl-2x2ovl-1split-Rev004-sxga
Visitors	G-visitor-screen01-Rev005

MP40/MP50 Screen Overview

Option H10 Screens

MP40/50 H 10 A 06	
Name	**File**
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	G-06W-2Press-01-Rev007-svga
Screen B	G-06W-2Press-1x2ovl-01-Rev007-svga
Screen C	G-06W-2Press-split-Tr-01-Rev007-svga
Screen D	G-04W-1Press-01-Rev007-svga
Screen E	G-04W-1Press-1Tr-02-Rev007-svga
Screen F	G-04W-1Press-split-Tr-01-Rev008-svga
Screen G	G-03W-1Tr-02-Rev007-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
EEG CSA	G-04W-CSA-01-Rev007-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

MP40/50 H 10 A 04	
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	G-04W-1Press-01-Rev007-svga
Screen B	G-04W-1Press-1Tr-02-Rev007-svga
Screen C	G-04W-2Press-1x2ovl-01-Rev007-svga
Screen D	G-04W-1Press-split-Tr-01-Rev008-svga
Screen E	G-03W-01-Rev007-svga
Screen F	G-03W-1Tr-02-Rev007-svga
Screen G	G-03W-split-Tr-01-Rev007-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
EEG CSA	G-04W-CSA-01-Rev007-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

Option H20 Screens

MP40/50 H 20 A 06	
Name	**File**
Service A	S-02W-nbp-diag-Rev008-svga
OxyCRG A	N-03W-03HW-event-01-Rev006-svga
OxyCRG B	N-01W-03HW-event-01-Rev006-svga
Screen A	G-06W-2Press-01-Rev007-svga
Screen B	G-06W-2Press-1x2ovl-01-Rev007-svga
Screen C	G-04W-1Press-01-Rev007-svga
Screen D	G-04W-1Press-1Tr-02-Rev007-svga
Screen E	G-03W-1Tr-02-Rev007-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
EEG CSA	G-04W-CSA-01-Rev007-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

MP40/50 H 20 A 04	
Service A	S-02W-nbp-diag-Rev008-svga
OxyCRG	N-01W-03HW-event-01-Rev006-svga
Screen A	G-04W-1Press-01-Rev007-svga
Screen B	G-04W-1Press-1Tr-02-Rev007-svga
Screen C	G-04W-2Press-1x2ovl-01-Rev007-svga
Screen D	G-03W-01-Rev007-svga
Screen E	G-03W-1Tr-02-Rev007-svga
Screen F	G-03W-split-Tr-01-Rev007-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
EEG CSA	G-04W-CSA-01-Rev007-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

Option H30 Screens

MP40/50 H 30 A 06	
Name	**File**
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	A-05W-2Press-1Tr-BIS-01-Rev007-svga
Screen B	A-06W-2Press-01-Rev006-svga
Screen C	A-06W-2Press-1Tr-01-Rev006-svga
Screen D	A-06W-2Press-1x2ovl-01-Rev006-svga
Screen E	A-06W-2Press-split-Tr-01-Rev007-svga
Screen F	A-04W-1Press-1Tr-02-Rev007-svga
Screen G	A-04W-1Press-02-Rev008-svga
Big Numerics	A-03W-bigNumerics-01-Rev007-svga
EEG CSA	A-04W-CSA-01-Rev007-svga
12 Lead ECG	A-13W-12Lead-01-Rev007-svga

MP40/50 H 30 A 04	
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	A-04W-1Press-1TrBIS-01-Rev007-svga
Screen B	A-04W-1Press-1Tr-02-Rev007-svga
Screen C	A-04W-1Press-02-Rev008-svga
Screen D	A-04W-2Press-1x2ovl-02-Rev007-svga
Screen E	A-04W-1Press-split-Tr-02-Rev008-svga
Screen F	A-03W-01-Rev008-svga
Screen G	A-03W-1Tr-01-Rev007-svga
Big Numerics	A-03W-bigNumerics-01-Rev007-svga
EEG CSA	A-04W-CSA-01-Rev007-svga
12 Lead ECG	A-13W-12Lead-01-Rev007-svga

Option H40 Screens

MP40/50 H 40 A 06	
Name	**File**
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	C-06W-2Press-01-Rev007-svga
Screen B	C-06W-2Press-1x2ovl-01-Rev007-svga
Screen C	C-06W-2Press-split-Tr-01-Rev007-svga
Screen D	C-05W-03ST-snippets-01-Rev008-svga
Screen E	C-04W-1Press-01-Rev007-svga
Screen F	C-04W-1Press-1Tr-02-Rev007-svga
Screen G	C-04W-1Press-split-Tr-01-Rev007-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
EEG CSA	C-04W-CSA-01-Rev007-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

MP40/50 H40 A 04	
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	C-04W-1Press-01-Rev007-svga
Screen B	C-04W-1Press-1Tr-02-Rev007-svga
Screen C	C-04W-2Press-1x2ovl-01-Rev007-svga
Screen D	C-04W-1Press-split-Tr-01-Rev007-svga
Screen E	C-03W-03ST-snippets-01-Rev008-svga
Screen F	C-03W-1Tr-02-Rev007-svga
Screen G	C-03W-split-Tr-01-Rev007-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
EEG CSA	C-04W-CSA-01-Rev007-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

Demo Configuration Screens

MP40/50 DEMO	
Name	**File**
Service A	S-02W-nbp-diag-Rev008-svga
Big Numerics	G-03W-bigNumerics-02-Rev001-svga
3 Waves A	G-03W-01-Rev007-svga
4 Waves A	G-04W-1Press-01-Rev007-svga
4 Waves B	G-04W-1Press-1Tr-02-Rev007-svga
5 Waves A	A-05W-2Press-1Tr-BIS-01-Rev007-svga
6 Waves A	G-06W-2Press-01-Rev007-svga
Split Screen A	G-06W-2Press-split-Tr-01-Rev007-svga
HighResTrend	N-01W-03HW-event-01-Rev006-svga
Vital Signs A	G-04W-TrA-01-Rev001-svga
Horizon	A-03W-Hor06Tr-01-Rev001-svga
Other Bed	G-03W-1Ovv01W-01-Rev001-svga
Loops	G-04W-2TrBIS-Loops-01-Rev008-svga
Cardiac Output	G-04W-2Press-cardiac-out-01-Rev008-svga
Wedge	G-03W-1Press-wedge-01-Rev007-svga
EEG CSA	G-04W-CSA-01-Rev007-svga
VueLink	G-03W-1Press-vuelink-01-Rev007-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga
ST Segments	C-05W-03ST-snippets-01-Rev008-svga
Screen A	C-05W-2Press-Hor06Tr-Rev001-svga
Visitors	G-visitor-screen-01-Rev008-svga

MP20/MP30 Screen Overview

Option H10 Screens

MP20/30 H 10 A 04	
Name	**File**
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	G-04W-1Press-01-Rev007-svga
Screen B	G-04W-1Press-1Tr-02-Rev007-svga
Screen C	G-04W-2Press-1x2ovl-01-Rev007-svga
Screen D	G-04W-1Press-split-Tr-01-Rev008-svga
Screen E	G-03W-01-Rev007-svga
Screen F	G-03W-1Tr-02-Rev007-svga
Screen G	G-03W-split-Tr-01-Rev007-svga
Screen H	G-02W-ovv-1Tr-01-Rev01-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

MP20/30 H 10 A 03	
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	G-03W-01-Rev007-svga
Screen B	G-03W-02-Rev007-svga
Screen C	G-03W-1Tr-02-Rev007-svga
Screen D	G-03W-1x2ovl-01-Rev001-svga
Screen E	G-03W-split-Tr-01-Rev007-svga
Screen F	G-02W-ovv-1Tr-01-Rev01-svga
Screen G	G-02W-ovv-01-Rev01-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

Option H20 Screens

MP20/30 H 20 A 04	
Name	**File**
Service A	S-02W-nbp-diag-Rev008-svga
OxyCRG	N-01W-03HW-event-01-Rev006-svga
Screen A	G-04W-1Press-01-Rev007-svga
Screen B	G-04W-1Press-1Tr-02-Rev007-svga
Screen C	G-04W-2Press-1x2ovl-01-Rev007-svga
Screen D	G-04W-1Press-split-Tr-01-Rev008-svga
Screen E	G-03W-01-Rev007-svga
Screen F	G-03W-1Tr-02-Rev007-svga
Screen G	G-02W-ovv-1Tr-01-Rev01-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

MP20/30 H 20 A 03	
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	N-01W-02HW-event-01-Rev001-svga
Screen B	G-03W-01-Rev007-svga
Screen C	G-03W-02-Rev007-svga
Screen D	G-03W-1Tr-02-Rev007-svga
Screen E	G-03W-1x2ovl-01-Rev001-svga
Screen F	G-03W-split-Tr-01-Rev007-svga
Screen G	G-02W-ovv-1Tr-01-Rev01-svga
Screen H	G-02W-ovv-01-Rev01-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

Option H30 Screens

MP20/30 H 30 A 04	
Name	**File**
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	A-04W-1Press-02-Rev008-svga
Screen B	A-04W-1Press-1Tr-02-Rev007-svga
Screen C	A-04W-2Press-1x2ovl-02-Rev007-svga
Screen D	A-04W-1Press-split-Tr-02-Rev008-svga
Screen E	A-03W-01-Rev008-svga
Screen F	A-03W-1Tr-02-Rev001-svga
Screen G	A-03W-split-Tr-01-Rev001-svga
Screen H	A-02W-1Tr-01-Rev001-svga
Big Numerics	A-03W-bigNumerics-02-Rev001-svga
12 Lead ECG	A-13W-12Lead-01-Rev007-svga

MP20/30 H 30 A 03	
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	A-03W-02-Rev001-svga
Screen B	A-03W-01-Rev008-svga
Screen C	A-03W-1Tr-02-Rev001-svga
Screen D	A-03W-1x2ovl-01-Rev001-svga
Screen E	A-03W-split-Tr-01-Rev001-svga
Screen F	A-02W-01-Rev01-svga
Screen G	A-02W-1Tr-01-Rev001-svga
Big Numerics	A-03W-bigNumerics-02-Rev001-svga
12 Lead ECG	A-13W-12Lead-01-Rev007-svga

Option H40 Screens

MP20/30 H 40 A 04	
Name	**File**
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	C-04W-1Press-01-Rev007-svga
Screen B	C-04W-1Press-1Tr-02-Rev007-svga
Screen C	C-04W-2Press-1x2ovl-01-Rev007-svga
Screen D	C-04W-1Press-split-Tr-01-Rev007-svga
Screen E	C-03W-03ST-snippets-01-Rev008-svga
Screen F	C-03W-1Tr-02-Rev007-svga
Screen G	C-03W-split-Tr-01-Rev007-svga
Screen H	C-02W-ovv-1Tr-01-Rev01-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

MP20/30 H 40 A 03	
Service A	S-02W-nbp-diag-Rev008-svga
Screen A	C-03W-01-Rev001-svga
Screen B	C-03W-02-Rev001-svga
Screen C	C-03W-1Tr-02-Rev007-svga
Screen D	G-03W-1x2ovl-01-Rev001-svga
Screen E	C-03W-split-Tr-01-Rev007-svga
Screen F	C-02W-ovv-1Tr-01-Rev01-svga
Screen G	C-02W-ovv-01-Rev01-svga
Big Numerics	G-03W-bigNumerics-01-Rev006-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga

Demo Configuration Screens

MP20/30 DEMO	
Name	**File**
Service A	S-02W-nbp-diag-Rev008-svga
Big Numerics	G-03W-bigNumerics-02-Rev001-svga
2 Waves A	G-02W-ovv-01-Rev01-svga
2 Waves B	G-02W-ovv-1Tr-01-Rev01-svga
3 Waves A	G-03W-01-Rev007-svga
3 Waves B	G-03W-1Tr-02-Rev007-svga
4 Waves A	G-04W-1Press-01-Rev007-svga
4 Waves B	G-04W-1Press-1Tr-02-Rev007-svga
Split Screen A	G-03W-split-Tr-01-Rev007-svga
Split Screen B	G-04W-1Press-split-Tr-01-Rev008-svga
HighResTrend	N-01W-03HW-event-01-Rev006-svga
Vital Signs A	G-04W-TrA-01-Rev001-svga
Horizon	A-03W-Hor06Tr-01-Rev001-svga
Other Bed	G-03W-1Ovv01W-01-Rev001-svga
Cardiac Output	G-03W-1Press-cardiac-out-01-Rev001-svga
Wedge	G-01W-wedge-01-Rev001-svga
12 Lead ECG	C-13W-12Lead-01-Rev008-svga
ST Segments	C-03W-03ST-snippets-01-Rev008-svga
Screen A	C-04W-1Press-Hor06Tr-Rev001-svga
Visitors	G-visitor-screen-01-Rev008-svga

Index

T

U

V

W