UniView™

UNIVIEW

Masimo

These operating instructions provide the necessary information for proper operation of all models of UniView. There may be information provided in this manual that is not relevant for your system. General knowledge of pulse oximetry and an understanding of the features and functions of UniView are prerequisites for its proper use. Do not operate UniView without completely reading and understanding these instructions.

Notice: Purchase or possession of this device does not carry any express or implied license to use with replacement parts which would, alone or in combination with this device, fall within the scope of one of the relating patents.

Contents

About This Manual

This manual explains how to set up and use UniView™. Important safety information relating to general use of UniView appears in this manual. Read and follow any warnings, cautions, and notes presented throughout this manual. The following are explanations of warnings, cautions, and notes.

A *warning* is given when actions may result in a serious outcome (for example, injury, serious adverse effect, death) to the patient or user.

WARNING: This is an example of a warning statement.

A *caution* is given when any special care is to be exercised by the patient or user to avoid injury to the patient, damage to this device, or damage to other property.

CAUTION: This is an example of a caution statement.

A *note* is given when additional general information is applicable.

Note: This is an example of a note.

Product Description, Intended Use and Contraindications

Product Description

UniView is a supplemental display of parameter data and alarm conditions received from Point-of-Care (PoC) devices connected to Masimo Systems (Patient SafetyNet or Iris Gateway).

The following PoC devices can display data on UniView via Patient SafetyNet or Iris Gateway Systems:

- Third-party devices
- Masimo devices

Key Features

UniView consists of the following components and/or features:

- Ability to communicate over an IEEE 802.11 (2.4 & 5 GHz) wireless or hard wired network.
- Ability to access parameter data from multiple PoC devices through Masimo Systems.
- Ability to display supplemental visual alarm conditions at different alarm priorities for parameter data received through a Masimo System.
- Multiple default screen layout options
- Ability to create and display user-designed custom layouts.

Intended Use

UniView is a software application, intended to provide supplemental display of patient monitoring data, and run on off-the-shelf hardware devices. UniView communicates with networked devices in healthcare environments.

Contraindications

There are no contraindications.

Safety Information, Warnings and Cautions

Note: Please refer to the Operator's Manual or Directions For Use for UniView host device.

Safety Warnings and Cautions

WARNING: Do not adjust, repair, open, disassemble, or physically modify the UniView host device. Injury to personnel or equipment damage could occur. Return the UniView host device for servicing.

WARNING: If UniView host device fails any part of the setup procedures or electrical safety tests, remove the device from operation until qualified service personnel have corrected the situation.

WARNING: Do not place the UniView host device where it may be accessible by patients.

WARNING: Do not use the UniView host device if it appears or is suspected to be wet or damaged.

WARNING: Do not use unauthorized devices with UniView. Possible loss of performance and/or patient injury may result.

WARNING: Do not place the UniView host device in any position that might cause it to fall on the patient.

WARNING: Do not use UniView in the presence of flammable anesthetics or other flammable substance in combination with air, oxygen-enriched environments or nitrous oxide to avoid risk of explosion.

WARNING: UniView host device should only be used in clinical environments in which it is approved to prevent patient injury or damage.

WARNING: To protect against injury, follow the directions below:

- Avoid placing the host device or accessories on surfaces with visible liquid spills.

- Do not soak or immerse the host device in liquids.

- Use cleaning solutions only as instructed in this operator's manual.

Performance Warnings and Cautions

WARNING: UniView does not generate or manage audible alarms. The connected device's alarms, used in conjunction with clinical signs and symptoms, are the primary sources for determining that an alarm condition exists.

WARNING: UniView may be used during defibrillation. However, to reduce the risk of electric shock, the operator should not touch the UniView during defibrillation.

WARNING: Do not use the UniView during magnetic resonance imaging (MRI) or in an MRI environment.

CAUTION: UniView is intended to be a supplemental display. Medical decisions should be made using data from the primary display of a device in conjunction with clinical signs and symptoms.

CAUTION: UniView is intended to operate across the facility's network. Unanticipated failure or alteration of network components (including but not limited to: disconnection or malfunctioning of a networking device/switch/router/ethernet cable) may result in loss of connectivity of UniView to other hospital systems. Altering or making changes to the hospital network should be done with proper knowledge.

CAUTION: The Quality of Service (QoS) of the connectivity to the Point-of-Care (PoC) devices may be affected by:

- Network failure

- Increased number of connected devices on the network

- Modifications to the network

- Presence of devices provided with radio transmitters

- Improper network configuration and/or on PoC

- Signal priorities of the network

- Latency

CAUTION: Network performance may be affected by changes in the network including the addition of additional network devices.

CAUTION: Host device performance may be affected by changes in the host device software settings or operating system updates.

CAUTION: PoC performance may be affected by changes in the PoC software settings or updates.

CAUTION: To prevent tampering and ensure security, follow the directions below:

- UniView should be located with responsible personnel

- Unauthorized changes should not be made to UniView

CAUTION: Do not place the UniView host device on or near electrical equipment that may affect the device and prevent it from working properly.

CAUTION: To ensure proper system operation, always verify successful connection between PoC devices and UniView.

CAUTION: To ensure the host device receives enough signal strength, verify the host device is within range of the hospital network.

CAUTION: To prevent unauthorized access to patient information, enable security measures as part of the host device.

Note: Patient monitoring data displayed on the UniView is based upon the time stamp provide by the PoC device. UniView times may not be synchronized to the PoC device.

Cleaning and Service Warnings and Cautions

WARNING: Do not autoclave, pressure sterilize, or gas sterilize the UniView host device.

WARNING: Clean and only use as instructed in the Operator's Manual for the UniView host device.

Note: Modifications to UniView's settings, and those of any components connected to UniView, should be made by qualified personnel only.

Note: UniView host device installation must be completed by Masimo or an authorized service personnel.

Compliance Warnings and Cautions

WARNING: Do not attempt to repair or modify any part of UniView host device doing so may void the warranty or the authorization to use the UniView host device.

WARNING: The software settings of the UniView host device should be completed by authorized personnel only.

WARNING: Disposal of product - Comply with local laws in the disposal of UniView host device and/or its accessories.

WARNING: When using devices with wireless features, consideration should be taken to local government frequency allocations and technical parameters to minimize the possibility of interference to/from other wireless devices.
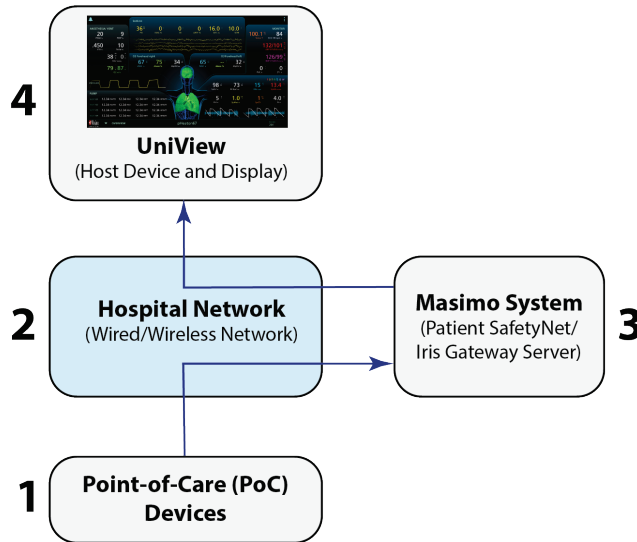
WARNING: In accordance with international telecommunication requirements, the frequency band of 2.4 GHz and 5.15 to 5.25 GHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Note: Refer to the UniView host device's Operator's Manual or Directions For Use for UniView for FCC compliance information before use.
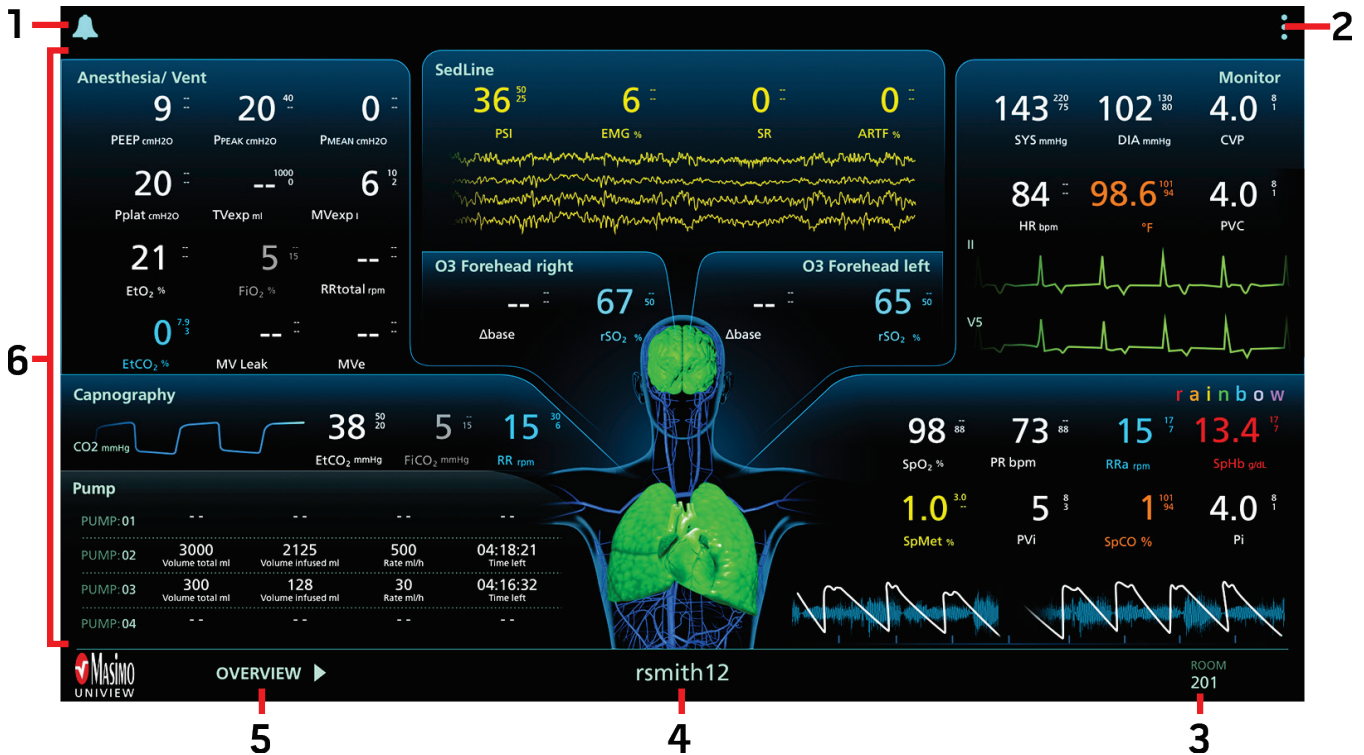
Chapter 1: Description

System Overview

The diagram below describes how UniView receives patient data from PoC devices. The PoC devices, Masimo System, and UniView host device must be configured to the same hospital network.

4 — **UniView** (Host Device and Display)

2 — **Hospital Network** (Wired/Wireless Network)

3 — **Masimo System** (Patient SafetyNet/ Iris Gateway Server)

1 — **Point-of-Care (PoC) Devices**

Ref	Component	Description
1	Point-of-Care (PoC) Devices	A device that provides bedside patient monitoring.
2	Hospital Network	• IEEE 802.11 (2.4 & 5 GHz) wireless or hard wired network communication • PoC devices, Masimo System, and host device are configured to the same hospital network. **Note:** Refer to the appropriate device operator's manual for network configuration instructions.
3	Masimo System	• The Masimo System is a Patient SafetyNet/Iris Gateway server. • The Masimo System receives patient data from PoC devices and sends patient data to UniView through a secured connection. • UniView displays patient data from one Masimo System. To view a different Masimo System, see *Changing Systems* on page 30. • Multiple Masimo Systems can be added to UniView to view patient data from different care stations in a hospital facility. See *Adding a System* on page 29.
4	UniView	• UniView requires a host device and display. • The host device is a computer or mobile device with an Android operating system. • The UniView application is pre-installed on the host device and compatible only with an Android operating system.

UniView Overview

The image and table below describe UniView features while viewing patient data.

Ref	Feature	Description
1	Alarm Status Icon	Supplemental visual indicator for alarm conditions of a PoC device connected to a Masimo System. (See **Alarm Status Icon** on page 19) **Note:** See the appropriate device operator's manual for setting alarm conditions.
2	Options Menu	• Enable/disable alarm status visualizer animation (See **Enabling/Disabling Visualizer Animation** on page 21) • Create a new custom layout (See **Chapter 3: Custom Layouts** on page 23). • Modify the currently displayed custom layout (See **Chapter 3: Custom Layouts** on page 23). • Access the *Layout Manager* screen to view default layouts or create new custom layouts (See **Chapter 3: Custom Layouts** on page 23). • View data for a different patient (See **Changing Patients** on page 12) • Disconnect from a Masimo System (See **System Disconnection** on page 11) • Viewing the current version of UniView (See **UniView Software Version** on page 29)
3	Room Number	Displays the patient's location within a hospital facility.
4	Patient Label	Displays the label of the patient currently being viewed. **Note:** Patient labels are edited in the Patient SafetyNet application. See the **Operator's Manual, Patient SafetyNet Supplemental Alarm System, Series 5.5.X.X** or higher for more information.
5	View Selection Menu	Displays current layout. Menu allows switching to available quick layouts for viewing patient data. See **Selecting a Layout** on page 12.
6	Patient Data	Patient data as displayed in a user-selected screen layout*. See **Selecting a Layout** on page 12.

* The *Overview* layout is shown in this example.

Chapter 2: Operation

Opening the UniView Application

To open the UniView application:

1. Click the UniView icon to start the application [icon]. The splash screen will appear while the application is loading.

    *   If the application is not installed or incorrectly installed on the host device, see ***Contacting Masimo*** on page 41.

    *   If the application is being opened for the first time, a Masimo System must be added. See ***Adding a System*** on page 29.

    *   If the application was previously used, then the last used Masimo System will be automatically selected and appear at the top of the login screen. See ***System Login*** on page 11.

System Login

To Log Into a Masimo System:

The username and password to log into the Masimo System accessed though UniView are provided by your hospital Patient SafetyNet administrator. When UniView is opened, the last used Masimo System name displays at the top of the login screen. To change the desired system, select the **Switch System** icon [icon] in the upper right corner of the screen and select a different system. See ***Changing Systems*** on page 30.

1. Enter the Masimo System username and password credentials.

2. Click **Login**.

    If unable to log into the Masimo System, see ***Troubleshooting*** on page 35.

3. After successful login, the *Select Patient* screen displays. Select the desired patient to view patient data. See ***Selecting a Patient*** on page 11.

    *   The *Layout Manager* can be accessed prior to selecting a patient. See ***Layout Manager*** on page 23.

System Disconnect

To Disconnect from a Masimo System:

1. While viewing patient data, in the upper-right of the layout screen, click the *Options* menu [icon].

2. Select **Disconnect** in the drop-down menu.

3. Select **OK** to confirm disconnection from the current system.

4. After successfully disconnecting from the system, the *Select System* screen is displayed.

Selecting a Patient

After logging into a Masimo System in UniView, the *Select Patient* screen displays a patient list. By default, patients are sorted by the First Name.

To select a patient:

1. Click the desired patient name in the patient list. If a patient is not in the list:

    *   The patient may have not been admitted to the Masimo System. Only authorized personnel can admit a patient to a Masimo System. Contact your hospital Patient SafetyNet administrator.

    *   The patient may have been admitted to a different Masimo System. To switch to a different Masimo System, see ***Changing Systems*** on page 30.

2. After selecting a patient, the *Overview* screen (the default layout screen) displays patient data. The selected patient's label and room number will appear at the bottom of the screen.

3. Verify the patient label and room number displayed in UniView matches the patient label displayed on the PoC and the patient's actual room number.

    *   To view a different patient in the same Masimo System, see ***Changing Patients*** on page 12.

- For further description of the *Overview* screen, see **Overview Layout** on page 13.

- To select a different screen layout, see **Selecting a Layout** on page 12.

Changing Patients

The *Change Patient* option is used to view different patients in the same Masimo System.

To change patients:

1. In the upper-right corner of a layout screen, click the *Options* menu ⋮ .

2. Click **Change Patient** in the drop-down menu.

3. Click **OK** to confirm leaving the current patient. The *Select Patient* screen will be displayed.

4. In the *Select Patient* screen, click the desired patient name. The selected patient's data will be displayed on the *Overview* screen.

   - For a description of the *Overview* screen, or to select a different screen layout, see **Selecting a Layout** on page 12.

   - If a patient is not in the *Select Patient* screen:

     - The patient may need to be added to the Masimo System. To add a patient to a Masimo System, see the **Operator's Manual, Patient SafetyNet Supplemental Alarm System, Series 5.5.X.X** or higher or see **Contacting Masimo** on page 41.

     - The patient may have been added to a different Masimo System. To disconnect from the current system and login to a different Masimo System, see **Changing Systems** on page 30.

Selecting a Layout

CAUTION: Always verify the parameter data displayed on the UniView layout screens match the parameter data displayed on the corresponding PoC. If the parameter data is incorrect or not displayed, see **Troubleshooting** on page 35.

After logging into a Masimo System in UniView and selecting a patient, the default layout displays. To select a new default layout, see **Setting a Default Screen Layout** on page 19.

The layout screen can be changed through the *Quick Layouts Menu* to view patient data in UniView.

Select a Layout using the View Selection Menu:

1. Login to a Masimo System and select a patient. See **System Login** on page 11.

2. In the bottom-left of the *Overview* screen, click the *View Selection Menu* to view the *Quick Layouts Menu*. See the **UniView Overview** on page 10.

3. Click a screen layout option to view. Default layouts are shown in the example.

   Note: When custom layouts exist, these are listed along with the default layouts.

   Click anywhere outside of the *Quick Layouts Menu* to close the menu.
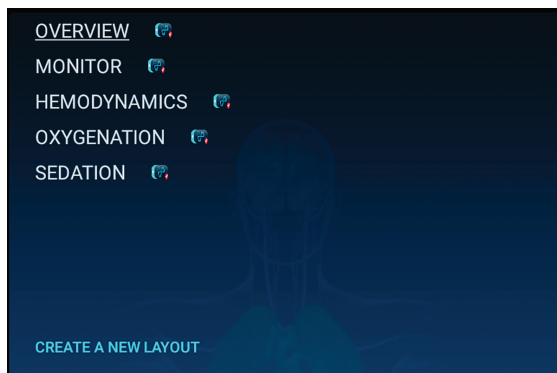
Select a Layout using the Layout manager:

A layout can be selected from the Layout Manager when viewing patient data. See **Layout Manager** on page 23. When a layout is selected (while currently viewing a patient's data), select the **Show** button to switch to the selected layout.

Default Layouts

Five (5) default screen layout options are available:

- See **Overview Layout** on page 13.
- See **Monitor Layout** on page 15*.
- See **Hemodynamics Layout** on page 16.
- See **Oxygenation Layout** on page 17.
- See **Sedation Layout** on page 18.

* When specific devices are connected, the name of the layout may change. For example, when an Intellivue Module is connected, the layout name changes from *Monitor* to *Intellivue*.

Custom Layouts

Custom layouts can be designed and displayed for UniView. See **Chapter 3: Custom Layouts** on page 23.
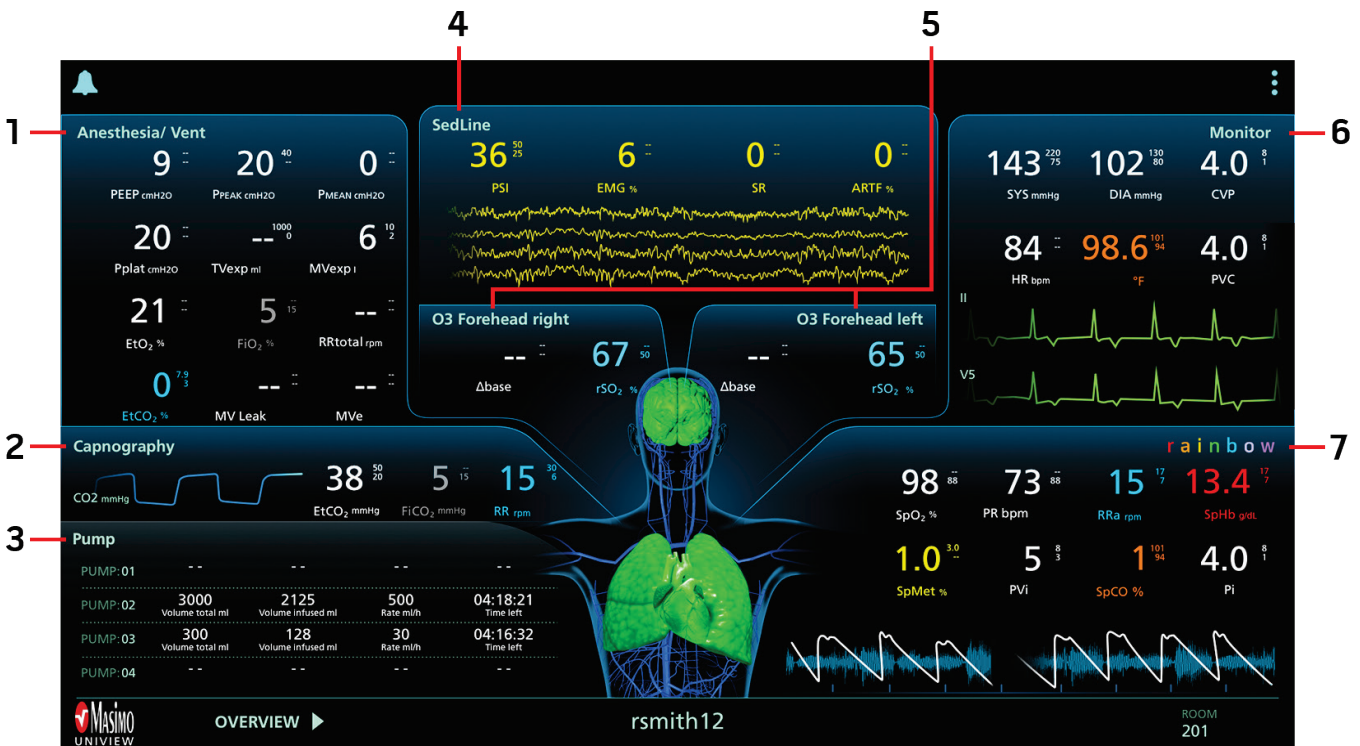
Default Layouts

Overview Layout

The *Overview* layout is the default layout screen displayed after selecting a patient. The *Overview* screen displays 8 windows: [1] Anesthesia or Ventilator, [2] Capnography, [3] Infusion Pump, [4] SedLine, [5] O3 Regional Oximeter (Forehead Right), [5] O3 Regional Oximeter (Forehead Left), [6] Third-Party Monitor, and [7] rainbow.

The *Overview* screen can also be used as a starting point to create a customized layout to suit the end-user needs. See **Chapter 3: Custom Layouts** on page 23.

CAUTION: Verify parameter data displayed on the UniView layout screen matches parameter data displayed on the corresponding PoC. If the parameter data does not match or does not display on UniView, see **Troubleshooting** on page 35.

Ref	Window	Description	Parameter/Waveform Displayed	Window Visibility
1	*Anesthesia or Ventilator*	• Displays one Anesthesia or Ventilator device. • First connected Anesthesia or Ventilator device has highest priority and its data will be displayed. • Window expands when capnography and pump devices are disconnected or powered off. • Refer to the appropriate device operator's manual for more information.	PEEP, Ppeak, Pmean, Plat, ExhaledTidalVolume, MinuteVolume, EtO2, FiO2, TotalRR, EtCO2, MVleak, ExpMinuteVolume	• Always visible • Parameters and waveforms displayed if available by device.
			Pressure, volume, and flow waveforms	• No waveforms visible if capnography is connected. • All 3 waveforms are visible if capnography and pump are not connected. • Pressure waveform is visible if pump is connected and capnography is disconnected.
2	*Capnography*	• Displays one capnography device. • Window expands when pump devices are disconnected or powered off. • Refer to the appropriate device operator's manual for more information.	• EtCO$_2$, FiCO$_2$, RR • CO$_2$ waveform	Visible when capnography device is connected.
3	*Infusion Pump*	Refer to the appropriate device operator's manual for more information.	• Total Volume • Volume Infused • Rate • Remaining Time • Infusion Pressure	Visible when pump device is connected.
4	*SedLine*	• Displays one SedLine device. • Window expands when O3 Regional Oximeter devices are disconnected from Root. • Refer to the appropriate device operator's manual for more information.	• PSi, EMG, SR, SUP, ARTF • EEG waveform	Always visible
5	*O3 Regional Oximeter*	• Sensor data for left and right sensors is displayed. • Refer to the appropriate device operator's manual for more information.	• rSO$_2$, Delta Baseline (Δbase)	Visible when an O3 sensor is connected.
6	*Third-Party Monitor*	Refer to the appropriate device operator's manual for more information.	• SysBP, DiaBP, ECGHR, Temperature, CentralVenousPressure, NumPVCsPerMin • ECGLead2 and ECGLeadV5	• Visible when connected • Parameters displayed if available by device.
7	*rainbow*	• Displays multi-parameter rainbow parameter measurements from a Masimo device. • Window expands when the third-party monitor is disconnected or powered off. • Refer to the appropriate device operator's manual for further information.	• ORi, SpO$_2$, PR, Pi, RRa, SpHb, SpMet, PVi, SpCO, SPOC, RPVi • Pleth, Sig IQ, and Resp Env waveforms	• Always visible • Expands in place of Monitor if the Monitor is not connected. • 8 parameters based on priority displayed if a Monitor is connected, otherwise all available parameters.

Monitor Layout

The *Monitor* layout displays Third-Party Monitor channels. The *Monitor* screen can also be used as a starting point to create a customized layout to suit the end-user needs. See **Chapter 3: Custom Layouts** on page 23.

CAUTION: Verify parameter data displayed on the UniView layout screen matches parameter data displayed on the corresponding PoC. If the parameter data does not match or does not display on UniView, see **Troubleshooting** on page 35.

Note: When specific devices are connected, the name of the layout may change. For example, when an Intellivue Module is connected, the layout name changes from *Monitor* to *Intellivue*.

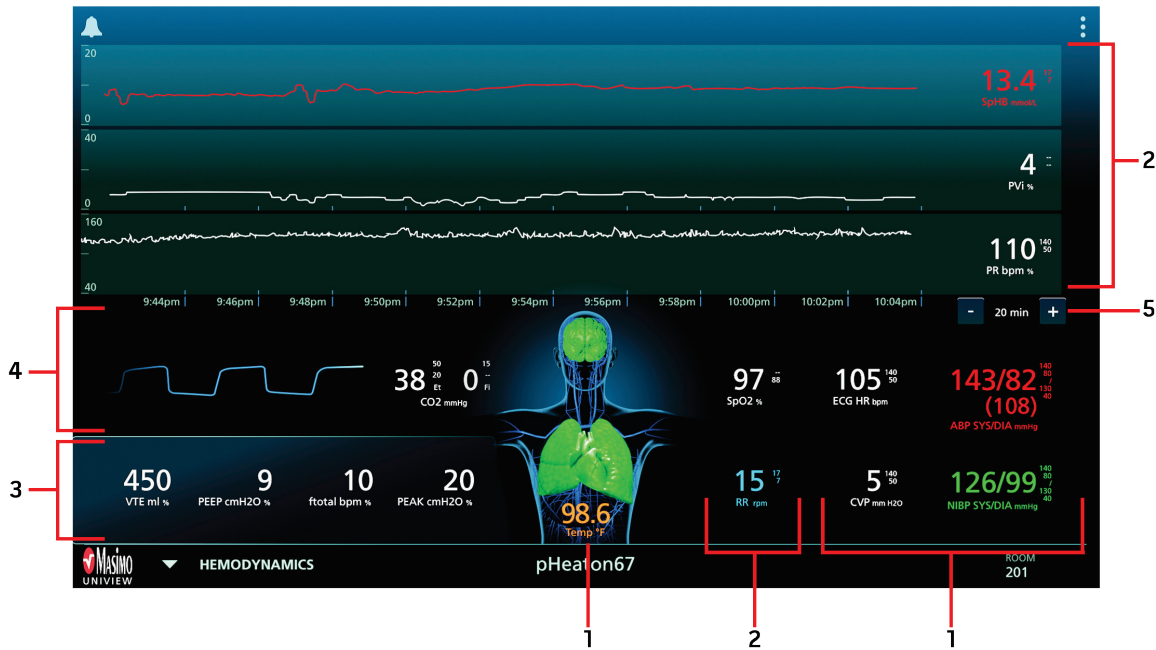| Ref	Description
1	Displays 3rd party device parameters*.
2	Displays 3rd party device waveforms*.

* See **Chapter 7: Specifications** on page 37 for available parameters and/or waveforms that can display on UniView.

Hemodynamics Layout

The *Hemodynamics* layout displays the following channels: [1] Masimo device or Third-Party Monitor, [2] rainbow, [3] Anesthesia or Ventilator, and [4] Capnography. Additionally, trend settings [5] for SpHB, PVi, and PR can be adjusted incrementally. See *Trend Settings* on page 19.

The *Hemodynamics* screen can also be used as a starting point to create a customized layout to suit the end-user needs. See *Chapter 3: Custom Layouts* on page 23.

CAUTION: Verify parameter data displayed on the UniView layout screen matches parameter data displayed on the corresponding PoC. If the parameter data does not match or does not display on UniView, see *Troubleshooting* on page 35.

Ref	Description
1	Displays Masimo device or third-party monitoring parameters*.
	Note: Masimo device parameters have the highest display priority over third-party parameters. Refer to the appropriate device operator's manual for further information about parameters.
2	Displays rainbow parameters*.
	Note: Masimo device parameters have the highest display priority over third-party parameters. Refer to the appropriate device operator's manual for further information about parameters.
3	Displays anesthesia or ventilator device parameters*.
4	Displays capnography device parameters* and waveform*.
5	Increase/decrease trend view. See *Trend Settings* on page 19.

* See *Chapter 7: Specifications* on page 37 for available parameters and/or waveforms that can display on UniView.

Oxygenation Layout

The *Oxygenation* layout displays the following channels: [1] Masimo device or Third-Party Monitor, [2] rainbow, [3] Anesthesia or Ventilator, and [4] Capnography. Additionally, trend settings [5] for SpHB, ORi, and SpO_2 can be adjusted incrementally. See **Trend Settings** on page 19.

The *Oxygenation* screen can also be used as a starting point to create a customized layout to suit the end-user needs. See **Chapter 3: Custom Layouts** on page 23.

CAUTION: Verify parameter data displayed on the UniView layout screen matches parameter data displayed on the corresponding PoC. If the parameter data does not match or does not display on UniView, see **Troubleshooting** on page 35.

Note: ORi is currently not available in the U.S.A. and territories relying on FDA market clearance.

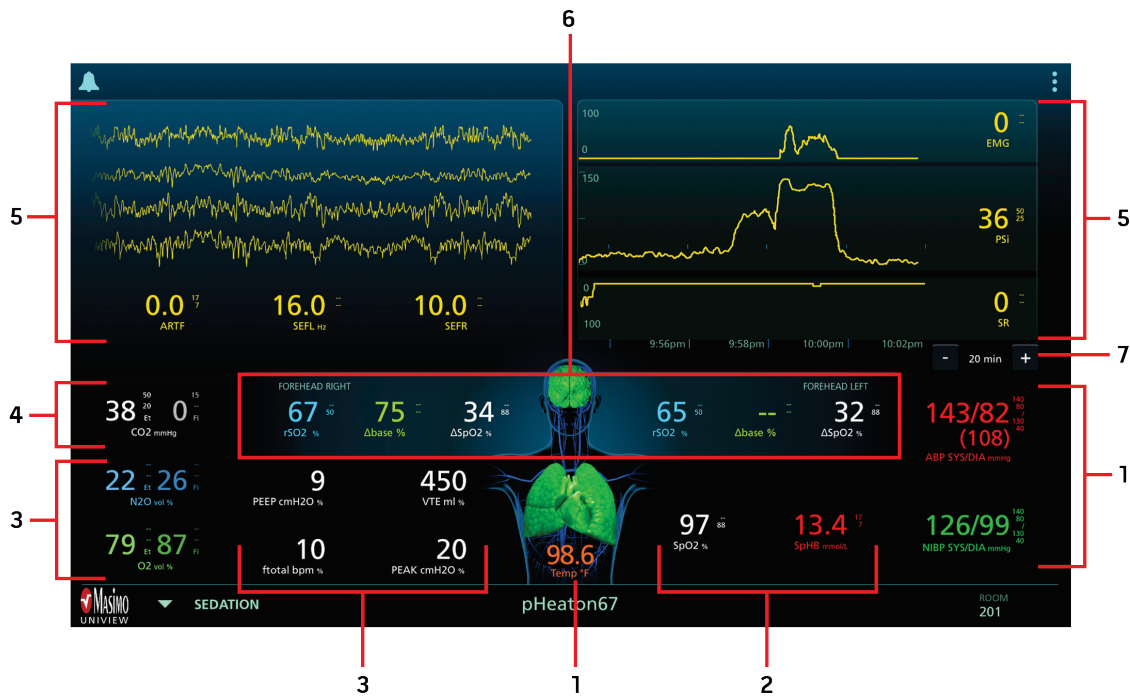| Ref	Description
1	Displays Masimo device or third-party monitoring parameters*.
	Note: Masimo device parameters have the highest display priority over third-party parameters. Refer to the appropriate device operator's manual for further information about parameters.
2	Displays rainbow parameters*.
	Note: Masimo device parameters have the highest display priority over third-party parameters. Refer to the appropriate device operator's manual for further information about parameters. **Note:** ORi is currently not available in the U.S.A. and territories relying on FDA market clearance.
3	Displays anesthesia or ventilator device parameters* and waveforms*.
4	Displays capnography device parameters* and waveform*.
5	Increase/decrease trend view. See **Trend Settings** on page 19.

* See **Chapter 7: Specifications** on page 37 for available parameters and/or waveforms that can display on UniView.

Sedation Layout

The *Sedation View* layout displays the following channels: [1] Masimo device or Third-Party Monitor, [2] rainbow, [3] Anesthesia or Ventilator, [4] Capnography, [5] SedLine, and [6] O3 Regional Oximeter data. Additionally, trend settings [7] for EMG, PSi, and SR can be adjusted incrementally. See **Trend Settings** on page 19.

The *Sedation View* screen can also be used as a starting point to create a customized layout to suit the end-user needs. See **Chapter 3: Custom Layouts** on page 23.

CAUTION: Verify parameter data displayed on the UniView layout screen matches parameter data displayed on the corresponding PoC. If the parameter data does not match or does not display on UniView, see **Troubleshooting** on page 35.

Ref	Description
1	Displays Masimo device or third-party monitoring parameters*. **Note:** Masimo device parameters have the highest display priority over third-party parameters. Refer to the appropriate device operator's manual for further information about parameters.
2	Displays rainbow parameters*. **Note:** Masimo device parameters have the highest display priority over third-party parameters. Refer to the appropriate device operator's manual for further information about parameters.
3	Displays anesthesia or ventilator device parameters*.
4	Displays capnography device parameters*.
5	Displays SedLine device parameters* and waveforms*.
6	Displays O3 device parameters*.
7	Increase/decrease trend view. See **Trend Settings** on page 19.

* See **Chapter 7: Specifications** on page 37 for available parameters and/or waveforms that can display on UniView.

Setting a Default Screen Layout

The current layout displayed on the screen can be set as the default layout for viewing all patient data.

To set the current layout as the default layout:

1. Select the *Options* menu ⋮ located at the top right corner of the screen.

2. Select the box next to *Default Layout*.

Note: If the box is already checked, this layout is already the default layout.

Once selected, the currently displayed layout displays as the default screen when patient data is viewed in any connected system.

If a different layout is desired to be set as the default layout, select a different layout using the *View Selection Menu* or the Layout Manager (see **Selecting a Layout** on page 12) and perform the same steps as above to set as default.

- If no layouts are selected as the default layout, the *Overview* layout is the default layout.

- If the layout that has been selected as the default layout is removed (deleted) from UniView, the *Overview* layout is the default layout.

Trend Settings

Use the trend setting buttons in the *Hemodynamics*, *Oxygenation*, and *Sedation* screen layouts to configure trend viewing.

To configure trend settings of specific parameters and measurements, see the appropriate device Directions for Use or Operator's Manual.

Option	Factory Default Setting	Configurable Settings
Default Duration	10 minutes	10, 20, 30, and 45 minutes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 18, 24, 48, and 96 hours

Visual Alarms Indicators

Alarm Status Icon

The Alarm Status Icon is a visual indicator of a device's alarm status.

CAUTION: If the visual alarms are not displayed or incorrect, see **Troubleshooting** on page 35.
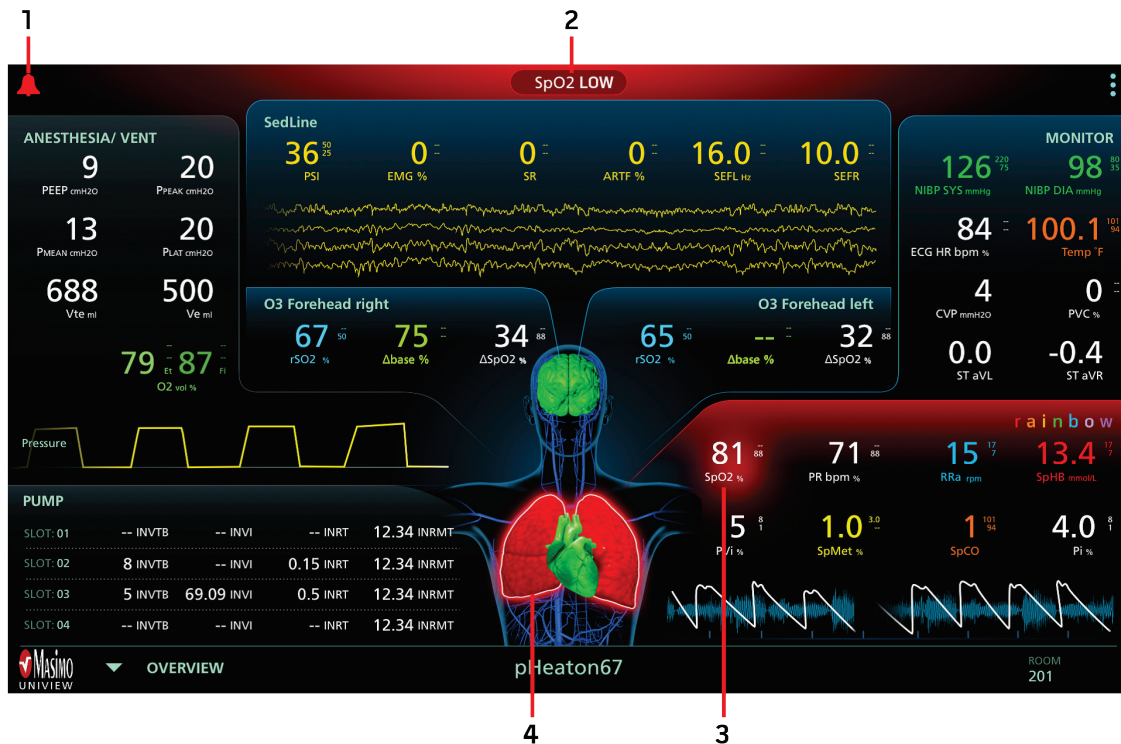
Note: UniView does not generate or manage alarms. The connected devices alarms are a primary for determining that an alarm condition exists.

Icon Appearance	Description
	There are currently no active alarms, and no alarms have been silenced.
	There is currently at least one active alarm that has **not** been silenced.

Parameter Alarms

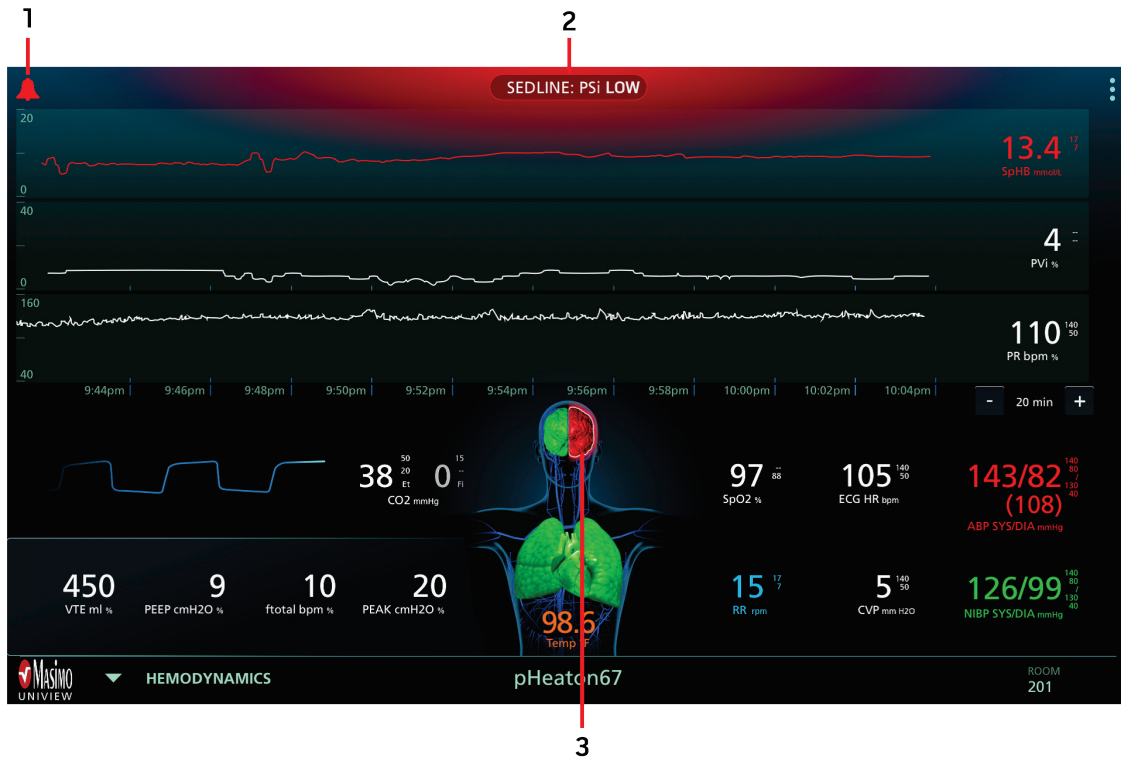**Alarming Parameters Displayed on a Layout Screen**

If an alarming parameter is viewable on a layout screen [3], the parameter that has exceeded the alarm limit (for example, SpO$_2$) is displayed at the top of the screen [2].

Ref	Description
1	The alarm icon is red during alarm.
2	• A red pill shape message at the top-center of the screen shows the alarming parameter. • If more than 1 parameter is alarming, the parameters are shuffled. • A red glow pulses behind the red pill shape.
3	• A red glow pulses behind the alarming parameter if the parameter is viewable in the screen layout. • The alarming parameter font color is white during alarm.
4	The organ corresponding to the alarming parameter is colored red.

Alarming Parameters Not Displayed on a Layout Screen

If an alarming parameter is not viewable on a layout screen, then the source of the alarming parameter (for example, SEDLINE) and the parameter that has exceeded the alarm limit (for example, PSi) are displayed at the top of the screen [2].

Ref	Description
1	The alarm icon is red during alarm.
2	• A red pill shape message at the top-center of the screen shows the source of the alarming parameter and the alarming parameter. • If more than 1 parameter is alarming, the parameters are shuffled. • The red glow pulses behind pill shape.
3	The organ corresponding to the alarming parameter is colored red.

Alarm Status Visualizer

The Alarm Status Visualizer is a 3D image of a human body displayed on all layout screens. The 3D image displays organ animations and color coded alarm conditions.

Enabling/Disabling Visualizer Animation

The lungs and heart in the 3D image can be animated based on rainbow parameter values. The lungs will animate based on RRa and RRp parameter values, and the heart will animate based on PR parameter values.

To enable/disable the Alarm Status Visualizer animation:

1. In the upper-right corner of a layout screen, click the *Options* menu ⋮.

2. Select (enable) or deselect (disable) the *Animation* box.

Visualizer Color Description Table

Colors are used to represent the status of monitoring and alarm conditions.
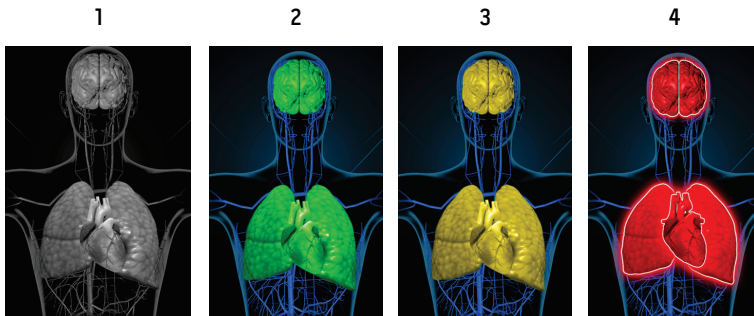
Ref	Color	Description
1	Gray	• Disconnected PoC device • No monitoring
2	Green	• Successful connection to PoC device • Monitoring: normal range
3	Yellow	• Successful connection to PoC device • Monitoring: Statuses, notifications, modifiers, notification devices not assigned to patient, or patient has not been successfully admitted to the Masimo System
4	Red	• Successful connection to PoC device • Monitoring: alarm range

Parameter Visualization Table

Monitoring and alarm status for various parameters and/or measurements are visualized using the following areas/organs on the screen:

Parameter or Measurement	Area Displayed on Visualization Screen	Parameter or Measurement	Area Displayed on Visualization Screen
PR	Heart	SpO2	Lung
PVi	Vascular	SpCO	Lung
SpHb	Vascular	RRa	Lung
SpMet	Vascular	ORi*	Lung
Pi	N/A	PSi**	Brain
SpOC	N/A	rSO2***	Brain

*ORi is currently not available in the U.S.A. and territories relying on FDA market clearance.

** For use with SedLine Sedation Monitor, when connected to Root.

*** For use with O3 Regional Oximeter, when connected to Root.

Chapter 3: Custom Layouts

Overview

Custom layouts can be designed to define and customize the parameters and waveforms to be displayed based on clinician or healthcare facility needs.

Layout Manager

To access the *Layout Manager* screen, select the *Options* menu ⣿ in the upper right corner of the screen and select *Layout Manager* from the available options. *Layout Manager* can be accessed through the *Options* menu before and after logging into a system. *Layout Manager* can also be accessed before selecting or while viewing patient data.

From the *Layout Manager* screen, the following tasks can be performed.

- Custom layouts can be exported or imported - see **Export/Import Layouts** on page 24.

- Custom layouts can be designed - see **Create a New Custom Layout** on page 24.

- Custom layouts can be modified - see **Modify a Custom Layout** on page 28.

- Custom layouts can be deleted - see **Delete a Custom Layout** on page 28.

Note: Custom layouts cannot be modified or deleted if the user is not logged into the system.

From the Layout Manager screen, the five (5) default screen layout options are displayed along with any custom layouts that have been created.
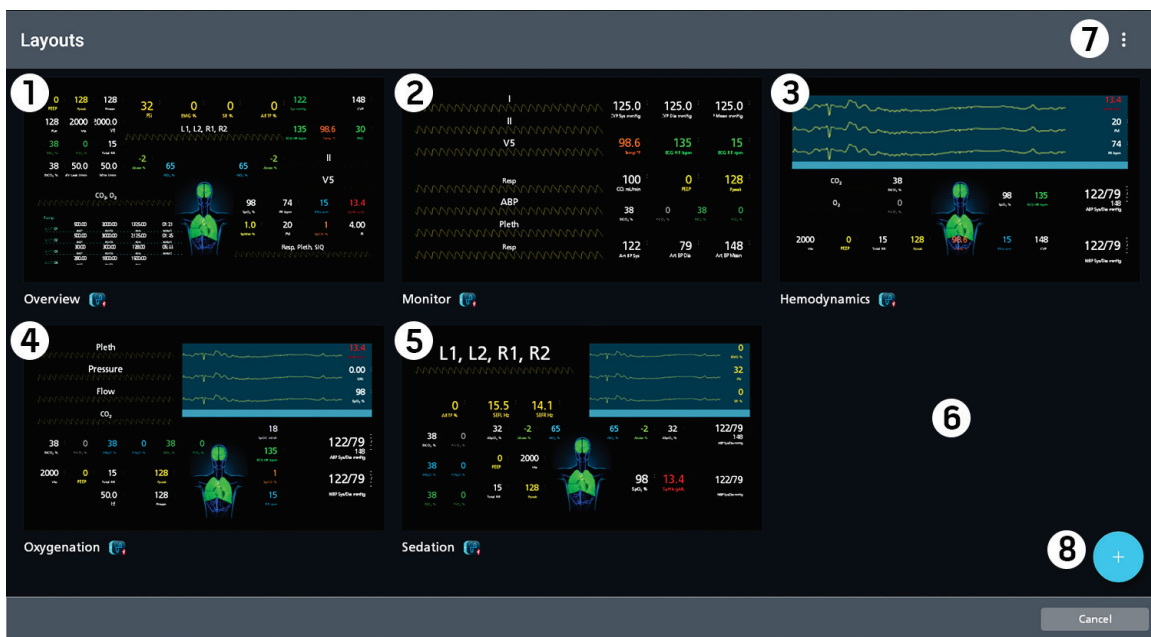
Ref	Description	Ref	Description
1	Overview Layout - see **Overview Layout** on page 13.	5	Sedation Layout - see **Sedation Layout** on page 18.
2	Monitor Layout * - see **Monitor Layout** on page 15.	6	Created custom layouts.
3	Hemodynamics Layout - see **Hemodynamics Layout** on page 16.	7	Share Screenshot see **Share Screenshot** on page 24. **and** Import/Export custom layouts ** - see **Export/Import Layouts** on page 24.
4	Oxygenation Layout - see **Oxygenation Layout** on page 17.	8	Create new custom layout - see **Create a New Custom Layout** on page 24.

* When specific devices are connected, the name of the Monitor layout may change. For example, when an Intellivue Module is connected, the layout name changes from *Monitor* to *Intellivue.*

** When a custom layout is selected, additional options to copy, delete or edit appear next the menu icon.

Change Layout View from Layout Manager

When a layout is selected (while currently viewing a patient's data), select the **Show** button to switch to the selected layout.

Share Screenshot

A screenshot of an existing layout (select layouts on the *Layout Manager* screen) or a new custom layout can be sent to others using the *Share Screenshot* option. When selected, options appear for different ways to share the screenshot through the host device.

Export/Import Layouts

To import or export a layout, when viewing the *Layout Manager* screen, select the *Options* menu in the upper right corner of the screen and select *Import* or *Export* from the available options. If a layout not selected in the *Layout Manager*, only the ability to import layouts displays. More than one (1) layout can be exported or imported at the same time.

Note: The *Export/Import* menu is only available from the *Layout Manager* screen.

Export a Custom Layout

1. From the *Layout Manager* screen, select the layout(s) to be exported.

2. Select the *Options* menu in the upper right corner of the screen.

3. Select *Export*. A ".*flex*" file(s) is exported to the *Masimo/Exported Layouts/Uniview* folder.

Import a Custom layout

1. Select the *Options* menu in the upper right corner of the screen.

2. Select *Import*.

3. Navigate to the location of the layout file(s).

4. Select the layout ".*flex*" file(s) to be imported. The layout is automatically imported into the *Layout Manager* screen as a custom layout and is available to be displayed, edited or deleted.

Create a New Custom Layout

Custom layouts are user-defined and designed, and display the user defined parameters and waveforms. Custom layouts can be created using a duplicate of an existing layout, a pre-populated template, or a blank (empty) screen.

The *Custom Layout Designer* is used to create customized layouts and is accessed through the following locations:

- Options Menu - select *Create New Layout* (see **UniView Overview** on page 10).

- Quick Layout Menu - select *Create a New Layout* (see **Selecting a Layout** on page 12).

- Layout Manager - select the *Create New Layout* icon (see **Layout Manager** on page 23).

Custom Layout Designer

From the *Custom Layout Designer* screen, follow the three (3) steps to design and save a custom layout.

> **Step 1** - Select a template to start the custom layout.

> **Step 2** - Add/remove parameters/waveforms or customize parameter/waveforms within the template.

> **Step 3** - Preview the custom layout before saving.

Step 1 - Select a Template

To begin creating a custom layout, select from the pre-populated templates (1) or create a completely custom layout by selecting the **Empty** template. To upload layouts from another source to use as a template, see ***Export/Import Layouts*** on page 24.

Select the **Next** button to go to *Step 2* and customize the layout or select the **Back** button to return to the *Layout Manager* screen.
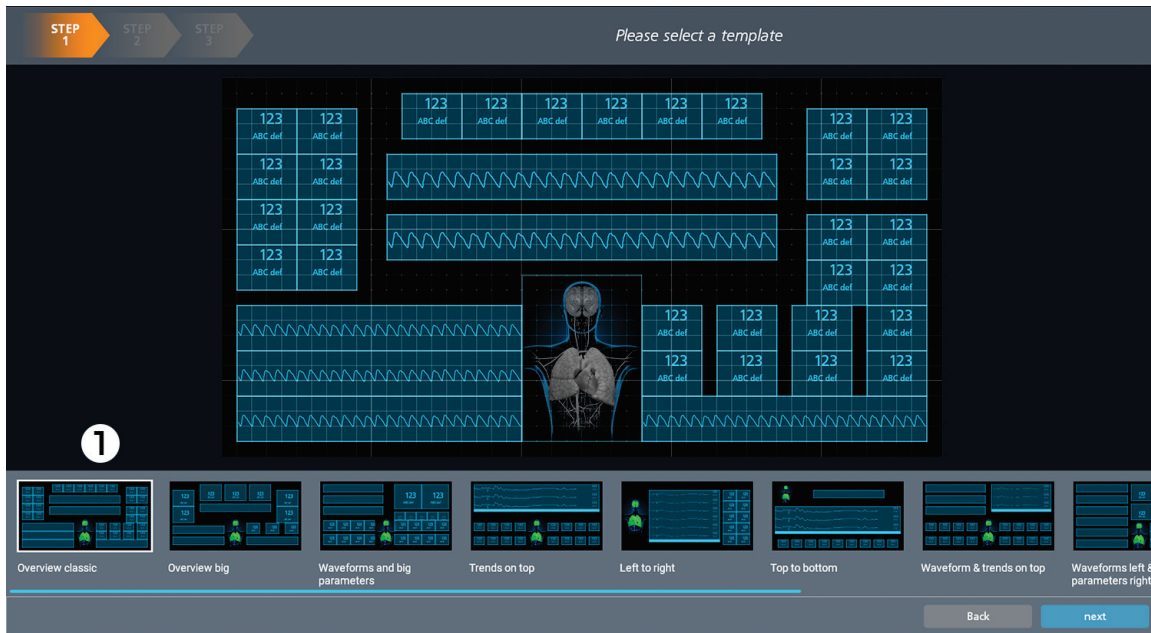
Pre-Populated Templates:

When starting with a pre-populated template, existing place holders within the template can only be removed. Items can be placed into or outside of the placeholders.

Empty Template:

The **Empty** template contains no parameters nor waveforms and is blank.

Pre-Populated Templates vs Duplicate Default Templates:

The difference between starting with a pre-populated template vs. a duplicate version of a default template:

- The pre-populated templates only contain placeholders for placing items, they do not contain any specific parameters or waveforms. These items need to be added to the template to view data.

- The duplicate version of a default template contains specific parameters and waveforms.

Step 2 - Customize

Step 2 allows the user to add, customize, and remove items from the template. Items that can be added to the template are grouped into three tabs by *Parameters*, *Waveform*, and *Special*. The *Search* feature allows the ability to search for a specific parameter or waveform. The on-screen *Grid* can enabled

and disabled from the *Options* menu ⋮ at the top of the screen.

Note: An **Empty** template is used in the following example.
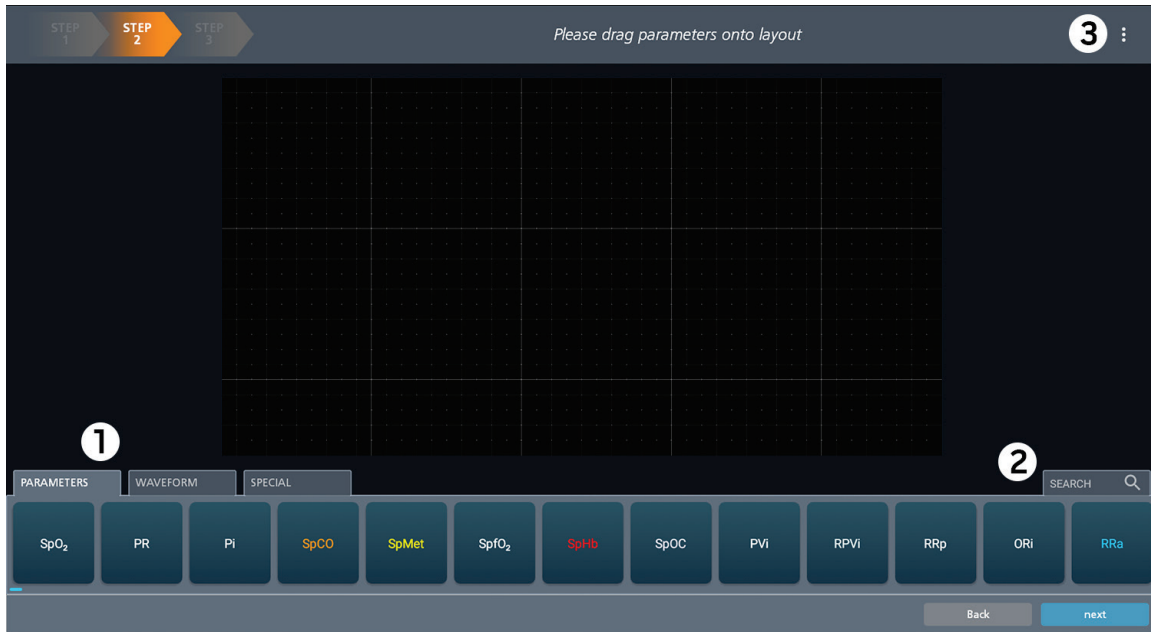
Item	Description
1	Tabs for all available items that can be added to the template.
2	Search feature to search for available parameters.
3	Options menu allows the grid on the template to be displayed or turned off.

Add Items to the Template

Items that can be added to the template are grouped by tabs as follow:

Tab	Description
Parameters	Available parameters that can be added to the template.
Waveform	Available waveforms that can be added to the template.
Special	Animated body image, blood pressure and pump data that can be added to the template.

To add items to a template, select and hold the item. When a highlight appears around the item, drag it to the desired location on the template.

Search

To search for items to add, select the search feature and type in the item name (parameter, waveform, 3rd party device name). When displayed, select and drag the item into the template as described prior.

Placement Issues

If when attempting to place an item into the template, *the item is Yellow and cannot be placed*, this indicates that the item cannot be placed in that specific location due to its size and positioning of other items. Other items may need to be moved, resized or removed to allow placement of this particular item.

Edit Items in the Template

Once the item is placed on the template, editing options appear to edit or remove the item. To edit an existing item in a template, simply select the item to view the options.
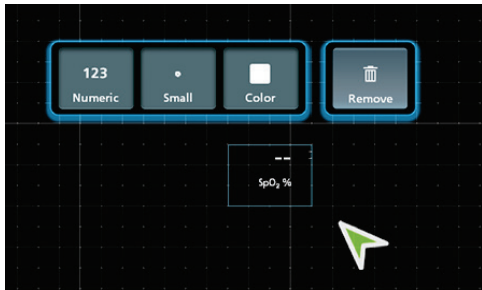
Available editing options for items may include the following:

Edit Option	Description	Available Options
Display	Set the style of the item	Numeric, Gauge, Trend, Bar
Size *	Set the size of the item	Small, Medium, Large, XL
Color **	Set the color of the item	Nine (9) color options available
Remove	Remove the item from the template	Select to remove the item

* If an item is desired to be a large size, it can only fit within the space available, and cannot overlap other items. A warning displays if an item will not fit when attempting to resize. Other items may need to be moved, resized or removed if the specific item is desired to be larger.

** Masimo parameters default to the same color as displayed on the device unless manually changed by the user.

Trends

When adding parameter trend items in the template, timeline adjustment varies by placement:

- When parameter trends are added and grouped together into one item, only one timeline adjustment is available for all grouped trends.

- When parameter trends are added as separate items, each trend item has a separate timeline adjustment.

Pumps

When a pump is added to the template, the larger the item size, the more parameters and slots display.

- *Wider vertical sizing* - More parameters display.

- *Taller horizontal sizing* - More pump slots display.

Finalize and Preview the Template

When the template is customized to satisfaction, select the **Next** button to go to *Step 3* and preview the custom layout or select the **Back** button to return *Step 1* screen. You are prompted to discard any changes to return to Step 1.

Step 3 - Preview

After selecting a template and adding items, *Step 3* allows the user to preview the custom layout before saving to UniView. If the custom layout design is as desired, select the **Next** button to save the custom layout. If additional changes are necessary, select the **Back** button to return to the *Step 2* screen.

1. When prompted, enter a layout name and any details into the comments section.

2. Select *Save* when complete to save the custom layout. The custom layout appears on the *Layout Manager* screen and in *Quick Layouts Menu* and can be selected to display patient data. See **Selecting a Layout** on page 12.

Share Screenshot

A screenshot of the new custom layout can be shared with others. See ***Share Screenshot*** on page 24.

Modify a Custom Layout

Only custom layouts can be modified (this includes duplicated default layouts). Custom layouts cannot be modified if the user is not logged into the system.

To modify a custom layout, perform the following:

1. From the *Layout Manager* screen, select the desired custom layout to modify.

2. Select **Edit** at the top of the screen. The *Custom Layout Designer* screen opens and displays the selected custom layout.

3. Modify the custom layout template as desired. See ***Custom Layout Designer*** on page 24.

4. When the desired changes are complete, select the **Next** button to view the modified custom layout.

5. After reviewing the changes to the custom layout. If the changes are OK, select the **Next** button to save the modified file.

   • Select the **Back** button if more changes need to be made.

6. When prompted, the modified layout can be saved as a new custom layout by using a new name, or the existing layout can be overwritten by leaving the same layout name. The new or modified custom layout appears in the *Layout Manager* screen.

Duplicate and Customize a Default Layout

Default layouts cannot be modified, however, they can be duplicated and customized. To duplicate and customize a default layout, perform the following:

1. From the *Layout Manager* screen, select the desired default layout to modify.

2. Select **Copy** at the top of the screen.

3. A popup displays on the screen.

   • Select a name for the customizable copy of the selected default layout.

4. Select **OK** when complete to save the customizable copy of the default layout. The customizable copy of the default layout appears on the *Layout Manager* screen.

5. To customize this layout, see ***Modify a Custom Layout*** on page 28.

Delete a Custom Layout

Only custom layouts can be deleted. Custom layouts cannot be deleted if the user is not logged into the system.

To delete a custom layout, perform the following:

1. From the *Layout Manager* screen, select the desired custom layout to delete.

2. Select **Delete** at the top of the screen.

3. When prompted, select **OK** to delete the custom layout, or **Cancel** to keep the layout.

Chapter 4: System Administration

The following chapter discusses system administration functions for UniView.

UniView Software Version

The UniView version can be viewed *before* selecting a system when logging in OR *after* selecting a patient (while viewing the patient data). To view the version, perform the following:

1. In the upper-right corner of the screen, click the *Options* menu . The UniView version number will be displayed.

2. Click anywhere on the screen to close the *Options* menu.

Setting Up and Installing

The UniView application is pre-installed on the host device. If the application is not installed or incorrectly installed on the host device, see **Contacting Masimo** on page 41.

All required equipment and setup instructions are included with the host device. Refer to the host device instructions for host device video and network connections.

UniView software updates are installed by authorized personnel. See **Contacting Masimo** on page 41.

If the host device was damaged during shipping, see **Contacting Masimo** on page 41.

WARNING: The software settings of the UniView host device should be completed by authorized personnel only.

Adding a System

Masimo System(s) must be added to UniView when UniView is opened for the first time. Additional Masimo Systems can be added to UniView after first time use.

WARNING: The software settings of the UniView host device should be completed by authorized personnel only.

To add a Masimo System to UniView (first use of application):

1. Open the UniView application.

2. In the bottom-right of the *Select System* screen, click the add system icon .

3. In the *Add System* screen, enter the system information:

Item	Description
Name	Create a label for the Masimo System.
IP Address	Enter the Masimo System server IP address. **Note:** Contact an authorized hospital Patient SafetyNet administrator to obtain an IP address.
Client Certification (.bks)	Select the appropriate .bks file.
Password	Enter the certificate password.

4. Click the check mark icon in the upper-right corner of the screen to save the system. The added system will appear in the *Select System* screen.

5. Click the desired system to login. See **System Login** on page 11.

To add a Masimo System to UniView (after first use of application):

1. In the top-right corner of the *System Login* screen, click the switch screen icon ⇄.

2. In the bottom-right corner of the *Select System* screen, click the add system icon ⊕.

3. In the *Add System* screen, enter the system information:

Item	Description
Name	Create a label for the Masimo system.
IP Address	Enter the Masimo System server IP address. **Note:** Contact an authorized hospital Patient SafetyNet administrator to obtain an IP address.
Client Certification (.bks)	Select the appropriate .bks file.
Password	Enter the certificate password.

4. When all required fields are completed, click the check mark icon ✓ in the upper-right corner of the screen to save the system. The added system will appear in the *Select System* screen.

5. Click the desired system to login. See **System Login** on page 11.

Editing a System

A Masimo System can be edited when system information changes.

WARNING: The software settings of the UniView host device should be completed by authorized personnel only.

To edit a system in UniView:

1. Go to the login screen by doing one of the following:

   - Open the UniView application and go to step 2, or

   - Disconnect from the current Masimo System and go to step 3.

2. Click the switch screen icon ⇄.

3. In the *Select System* screen, click and hold anywhere on a system tile. The system information will appear.

4. Edit the system information as needed.

   Note: Only qualified Masimo personnel can edit system information. See **Contacting Masimo** on page 41.

   Note: If IP address information needs to be edited, contact an authorized hospital Patient SafetyNet administrator to obtain IP address information.

5. To save the edits, click the check mark icon ✓ in the upper-right corner of the screen. The *Select System* screen will re-appear.

6. Click the desired system to login. See **System Login** on page 11.

Changing Systems

Patients in different Masimo Systems can be viewed by changing to a different system.

Note: To understand more about Masimo Systems, see the **Operator's Manual, Patient SafetyNet Supplemental Alarm System, Series 5.5.X.X** or higher.

To change to a different Masimo System:

Before logging into a Masimo System:

- Select the **Switch System** icon ⇄ in the upper right corner of the screen and select a different system.

While logged into a Masimo System:

1. Click the *Options* menu ⋮ .

2. Click **Disconnect** in the drop-down menu.

3. Click **OK** to confirm disconnection from the current system. The *Select System* screen will be displayed.

4. In the *Select System* screen, click the desired system. If the desired system is not shown, see ***Adding a System*** on page 29. After selecting a system, the system name is displayed at the top of the *System Login* screen.

5. In the login screen, type the *Username* and *Password* credentials.

6. Click **Login.**

7. After successful login, the *Select Patient* screen displays the system's patient list. See ***Selecting a Patient*** on page 11.

Deleting a System

CAUTION: If a system is accidentally deleted from UniView, only qualified Masimo personnel can add a system. See ***Contacting Masimo*** on page 41.

To delete a system in UniView:

1. Go to the login screen by doing one of the following:

    - Open the UniView application and go to step 2, or

    - Disconnect from the current Masimo System and go to step 3.

2. Click the switch screen icon ⇄ .

3. In the *Select System* screen, click and hold anywhere on the system tile. The system information will appear.

4. In the upper-right corner of the screen, click the trash can icon 🗑 to delete the system.

5. When the "Delete System?" message appears, click **OK**. After successful deletion, the *Select System* screen will re-appear without the deleted system.

Chapter 5: Messages

Messages

Message	Potential Causes	Next Steps
Username Required	• Username field is empty.	• Enter a valid Masimo System username. To obtain the Masimo System username, contact the hospital Patient SafetyNet administrator.
Password Required	• Password field is empty.	• Enter a valid Masimo System password. To obtain the Masimo System password, contact the hospital Patient SafetyNet administrator.
Add a system to continue.	• Initial launch of UniView • No systems added.	• Contact the hospital Patient SafetyNet administrator.
System Name Required	• Displayed when adding a system and the name field is empty.	• Contact the hospital Patient SafetyNet administrator.
Valid System IP Address Required	• Displayed when adding a system and an invalid IP Address is supplied.	• Contact the hospital Patient SafetyNet administrator.
Certificate Required	• Displayed when adding a system and the certificate selection is empty.	• Contact the hospital Patient SafetyNet administrator.
Certificate Password Required	• Displayed when adding a system and the name field is empty.	• Contact the hospital Patient SafetyNet administrator.
No file explorer application installed	• Displayed when adding a system and trying to select a certificate and no file explorer exists.	• Contact the hospital Patient SafetyNet administrator.
Unable to connect due to incompatible protocol versions. The app protocol version is X.X.X.X, while the system protocol version is X.X.X.X.	• Displayed when attempting to connect to a system with an incompatible protocol version.	• Contact the hospital Patient SafetyNet administrator.

Chapter 6: Troubleshooting

Troubleshooting UniView

The following section lists possible symptoms, the potential cause, and next steps.

Symptom	Potential Causes	Next Steps
UniView does not turn on	• Internal failure	• Contact Masimo Service. See **Contacting Masimo** on page 41.
Masimo System cannot connect to PoC	• The Masimo System, PoC, or host device is not connected to a network.	• Ensure the PoC device is enabled for WiFi or Ethernet. • Contact Masimo Service. See **Contacting Masimo** on page 41.
	• The Masimo System, PoC, or host device is not on the *same* network.	• Ensure both the Masimo System and the PoC device are configured to the same network. • Ensure the destination IP address of the PoC device is the Masimo System IP address. • Contact Masimo Service. See **Contacting Masimo** on page 41.
	• An incorrect IP address for the Masimo System is entered into UniView. • Masimo System software version is not compatible with UniView software version.	• Contact Masimo Service. See **Contacting Masimo** on page 41.
	• Hospital network stops working or is operating incorrectly. • Hospital network settings changed.	• Contact hospital Patient SafetyNet administrator.
Forgot Masimo System login and/or password	• Login and password are required to access a Masimo System.	• Contact hospital Patient SafetyNet administrator.
PoC device parameters are not being displayed	• The PoC may be disconnected or not powered ON.	• Confirm the PoC device is ON. • Confirm the PoC device is displaying parameter data. • Confirm the PoC device is connected to the same network as the Masimo System and host device. • Contact Masimo Service. See **Contacting Masimo** on page 41.
	• The Masimo System and/or PoC device are not connected to a network. • The Masimo System stops working or operates incorrectly. • The Masimo System and PoC are not on the *same* network. • Masimo System settings have changed.	• Contact Masimo Service. See **Contacting Masimo** on page 41.
	• Hospital network stops working or is operating incorrectly. • Hospital network settings changed.	• Contact hospital Patient SafetyNet administrator.
	• Host device display not compatible to display format. • Host device settings or operating system updates may be needed. • Host device does not operate correctly or stops operating. • Host device may have been damaged during shipping.	• Refer to the host device setup instructions. • Contact Masimo Service. See **Contacting Masimo** on page 41.
Waveforms are not displayed	• Waveforms have not been enabled in Patient SafetyNet.	• Contact Masimo Service. See **Contacting Masimo** on page 41.

Symptom	Potential Causes	Next Steps
Incorrect patient monitoring data being displayed	• The PoC may be disconnected or not powered ON.	• Confirm the PoC device is ON. • Confirm the PoC device is displaying parameter data. • Confirm the PoC device is connected to the same network as the Masimo System and host device. • Contact Masimo Service. See ***Contacting Masimo*** on page 41.
	• The Masimo System and/or PoC device are not connected to a network. • The Masimo System stops working or operates incorrectly. • The Masimo System and PoC are not on the *same* network. • Masimo System settings have changed.	• Contact Masimo Service. See ***Contacting Masimo*** on page 41.
	• Hospital network stops working or is operating incorrectly. • Hospital network settings changed.	• Contact hospital Patient SafetyNet administrator.
	• Host device display not compatible to display format. • Host device settings or operating system updates may be needed. • Host device does not operate correctly or stops operating. • Host device may have been damaged during shipping.	• Refer to the host device setup instructions. • Contact Masimo Service. See ***Contacting Masimo*** on page 41.
UniView is interrupted intermittently	• Power cord not connected to host device or power outlet. • Network equipment loses power.	• Check power cord connections and condition of power cord. • Refer to the host device setup instructions. • Contact hospital Patient SafetyNet administrator. • Contact Masimo Service. See ***Contacting Masimo*** on page 41.
Unable to hear audible alarms	• Audible alarms are not provided in your current software	• Contact Masimo Service. See ***Contacting Masimo*** on page 41.
Unable to receive visual message/alarm indicators	• The PoC may be disconnected or not powered ON.	• Confirm the PoC device is ON. • Confirm the PoC device is displaying parameter data. • Confirm the PoC device is connected to the same network as the Masimo System and host device. • Contact Masimo Service. See ***Contacting Masimo*** on page 41.
	• The Masimo System and/or PoC device are not connected to a network. • The Masimo System stops working or operates incorrectly. • The Masimo System and PoC are not on the *same* network. • Masimo System settings have changed.	• Contact Masimo Service. See ***Contacting Masimo*** on page 41.
	• Hospital network stops working or is operating incorrectly. • Hospital network settings changed.	• Contact hospital Patient SafetyNet administrator.
	• Host device display not compatible to display format. • Host device settings or operating system updates may be needed. • Host device does not operate correctly or stops operating. • Host device may have been damaged during shipping.	• Refer to the host device setup instructions. • Contact Masimo Service. See ***Contacting Masimo*** on page 41.

Chapter 7: Specifications

Compatible Masimo Systems

The following Masimo Systems are compatible with UniView:

System	Version
Patient SafetyNet	v5.6.x.x or higher
Iris Gateway	v1.5.x.x or higher

Layout Parameters/Waveforms

CAUTION: Verify parameter data displayed on the UniView layout screen matches parameter data displayed on the corresponding PoC. If the parameter data does not match or does not display on UniView, see **Troubleshooting** on page 35.

Overview Layout Specifications

Device/Channel	Parameters/Waveforms Displayed	Display Rules
Rainbow	• ORi, SpO2, PR, Pi, RRa, SpHb, SpMet, PVi, SpCO, SPOC, RPVi • Pleth, Sig IQ, and Resp Env waveforms	• Always visible, expands in place of Monitor if the Monitor is not connected • 8 parameters based on priority displayed if a Monitor is connected, otherwise all available parameters
Capnography	• EtCO2, FiCO2, RR • CO2 Waveform	Visible if connected
SedLine	• PSi, EMG, SUP, ARTF • EEG waveform	Always visible
O3	rSO$_2$, Delta Baseline (Δbase)	Visible if connected (Sensor 1 to the left of 3D Man, and Sensor 2 to the right)
Vent/Anesthesia	PEEP, Ppeak, Pmean, Plat, ExhaledTidalVolume, MinuteVolume, EtO2, FiO2, TotalRR, EtCO2, MVleak, ExpMinuteVolume	• Always visible. • Parameters and waveforms displayed if available by the device.
	Pressure, Volume and Flow waveforms	• No waveforms if Capnography is connected • All 3 waveforms if Capnography and Pump are not connected • Pressure if Pump is connected and Capnography is not connected
Monitor	• SysBP, DiaBP, ECGHR, Temperature, CentralVenousPressure, NumPVCsPerMin • ECGLead2 and ECGLeadV5	• Visible if connected. • Parameters/Waveforms displayed if available by the device.
Pump	• Total Volume • Volume Infused • Rate • Remaining Time • Infusion Pressure	Visible if connected

Monitor Layout Specifications

Device/Channel	Parameters/Waveforms Displayed	Display Rules
Monitor or Device Defined Name	Parameters: ArterialBPSystolic, ArterialBPDiastolic, ArterialBPMean, Ppeak, PEEP, $EtCO_2$, $FiCO_2$, EtO_2, FiO_2, Temperature, ECGHR, ECGRR, CentralVenousBPSystolic, CentralVenousBPDiastolic, CentralVenousBPMean, BispectralIndex, BispectralIndexEMG, CardiacOutput **Note:** Parameters displayed if available by device.	Always visible
	Waveforms: ABP, ECGLead1, ECGLead2, ECGLead3, ECGLeadV1, ECGLeadV2, ECGLeadV3, ECGLeadV4, ECGLeadV5, ECGLeadV6, ECGLeadAVR, ECGLeadAVL, ECGLeadAVF, ECGRespiration, Pleth, RespEnv, CO_2, Pressure, Flow, Volume **Note:** Waveforms displayed if available by device.	Up to seven (7) waveforms

Hemodynamics Layout Specifications

Device/Channel	Parameters/Waveforms Displayed	Display Rules
Rainbow	SpHB, PVi, PR	Displayed with trend
	SpO_2, RRa	None
	Temperature	Overlayed on 3D Man
Capnography	• $EtCO_2$, $FiCO_2$ • CO_2 Waveform	None
Vent/Anesthesia	Vte, PEEP, f (Total RR), Ppeak	None
Monitor	ECG HR, CVP, ABP, NiBP, Temperature, PR	None

Oxygenation Layout Specifications

Device/Channel	Parameters/Waveforms	Display Rules
Rainbow	SpHB, ORi, SpO_2	Displayed with trend
	• SpOC, SpCO, RRa • Pleth waveform	None
	Temperature	Overlayed on 3D Man
Capnography	• $EtCO_2$, $FiCO_2$ • CO_2 Waveform	None
Vent/Anesthesia	• EtN_2O, FiN_2O, EtO_2, FiO_2, Vte, PEEP, f (Total RR), Ppeak, I:E Ratio, Pmean • Pressure and Flow waveforms	None
Monitor	ECG HR, ABP, NiBP, Temperature	None

Sedation Layout Specifications

Device/Channel	Parameters/Waveforms	Display Rules
Rainbow	SpO$_2$, SpHb	None
	Temperature	Overlayed on 3D Man
Capnography	EtCO$_2$, FiCO$_2$	None
SedLine	EMG, PSI, SR	Displayed with trend
	• ARTF, SEFL, SEFR • Waveform	None
O3	rSO2, Delta Base, Delta SpO$_2$	None
Vent/Anesthesia	EtN$_2$O, FiN$_2$O, PEEP, Vte, EtO$_2$, FiO$_2$, f (Total RR), Ppeak	None
Monitor	ABP, NiBP, Temperature	None

Symbols

Symbols	Definition
	Follow Instructions for use
NON STERILE	Non-Sterile
LATEX	Not made with natural rubber latex
eIFU indicator	Instructions/Directions for Use/Manuals are available in electronic format @http://www.Masimo.com/TechDocs **Note:** eIFU is not available in all countries.

Chapter 8: Service and Warranty Information

Cleaning

Refer to the host device Operator's Manual for cleaning and maintenance instructions.

Contacting Masimo

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Limited Warranty

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Index

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