

# UniView™





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.

**CAUTION:** Federal (USA) law restricts this device to sale by or on the order of a physician.

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# About This Manual

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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

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## 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 screen layout options:
  - Overview Layout (See **Overview Layout** on page 15)
  - Hemodynamics Layout (See **Hemodynamics Layout** on page 17)
  - Oxygenation Layout (See **Oxygenation Layout** on page 18)
  - Sedation Layout (See **Sedation Layout** on page 19)

## 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

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**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.

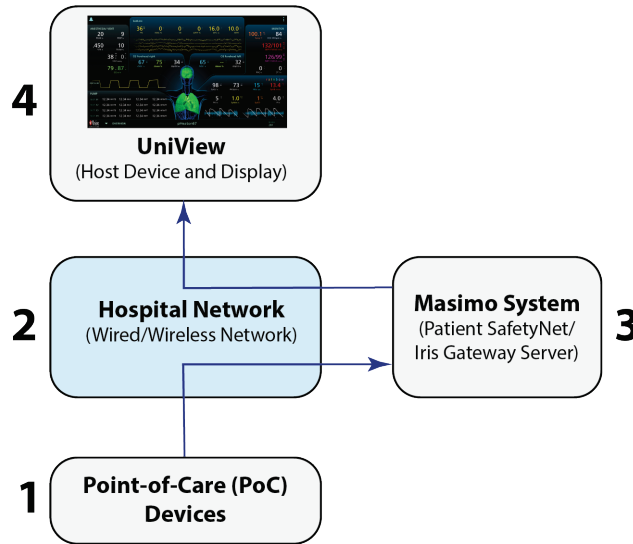
**WARNING:** In accordance with international telecommunication requirements, the frequency band of 2.4 GHz and 5.15 to 5.25 GHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

**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

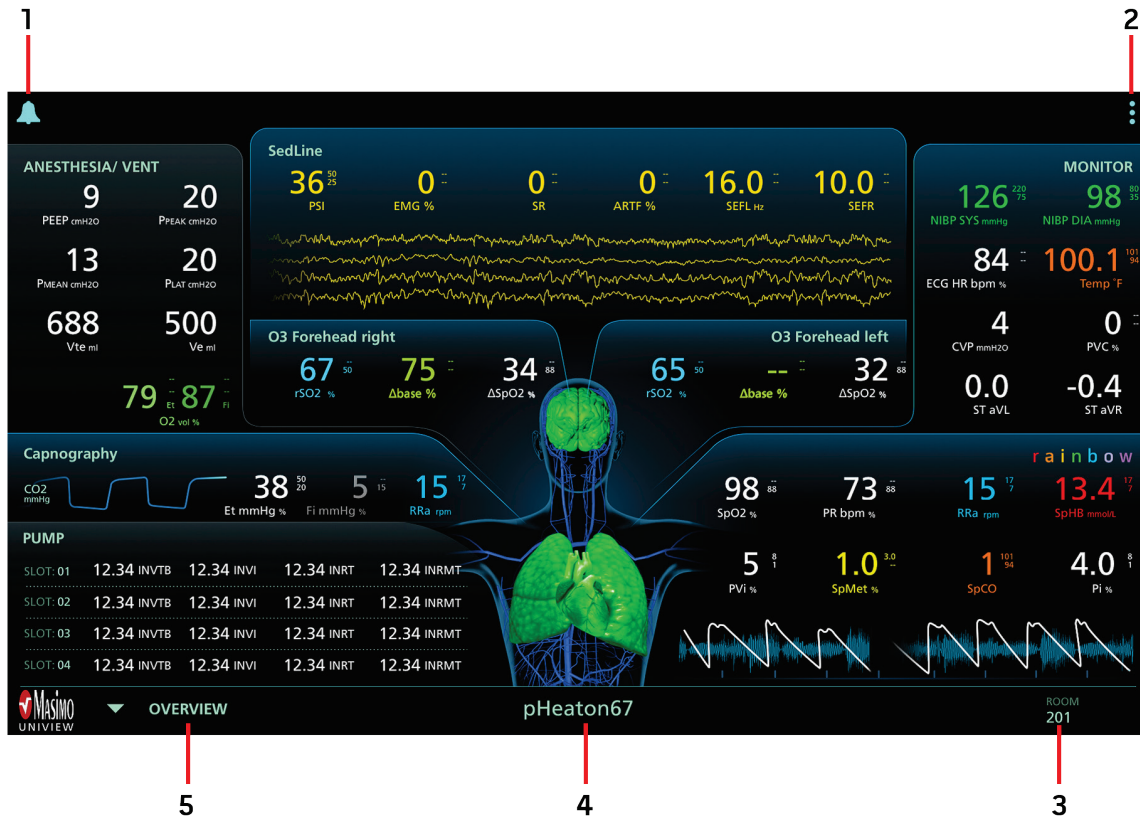
The diagram below describes how UniView receives patient data from PoC devices. The PoC devices, Masimo System, and UniView host device must be configured to the same hospital network.



Ref	Component	Description
1	Point-of-Care (PoC) Devices	A device that provides bedside patient monitoring.
2	Hospital Network	<ul style="list-style-type: none"> <li>IEEE 802.11 (2.4 &amp; 5 GHz) wireless or hard wired network communication</li> <li>PoC devices, Masimo System, and host device are configured to the same hospital network.</li> </ul> <b>Note:</b> Refer to the appropriate device operator's manual for network configuration instructions.
3	Masimo System	<ul style="list-style-type: none"> <li>The Masimo System is a Patient SafetyNet/Iris Gateway server.</li> <li>The Masimo System receives patient data from PoC devices and sends patient data to UniView through a secured connection.</li> <li>UniView displays patient data from one Masimo System. To view a different Masimo System, see <b>Changing Systems</b> on page 27.</li> <li>Multiple Masimo Systems can be added to UniView to view patient data from different care stations in a hospital facility. See <b>Adding a System</b> on page 25.</li> </ul>
4	UniView	<ul style="list-style-type: none"> <li>UniView requires a host device and display.</li> <li>The host device is a computer or mobile device with an Android operating system.</li> <li>The UniView application is pre-installed on the host device and compatible only with an Android operating system.</li> </ul>

# UniView Overview

The image and table below describe UniView features.




Ref	Feature	Description
1	Alarm Status Icon	Supplemental visual indicator for alarm conditions of a PoC device connected to a Masimo System. (See <b>Alarm Status Icon</b> on page 20) <b>Note:</b> See the appropriate device operator's manual for setting alarm conditions.
2	Main Menu	Displays the following options: <ul style="list-style-type: none"> <li>Enabling/disabling alarm status visualizer animation (See <b>Enabling/Disabling Visualizer Animation</b> on page 23)</li> <li>Viewing a different patient (See <b>Changing Patients</b> on page 24)</li> <li>Disconnecting from a Masimo System (See <b>System Disconnection</b> on page 27)</li> <li>Viewing the current version of UniView (See <b>UniView Software Version</b> on page 25)</li> </ul>
3	Room Number	<ul style="list-style-type: none"> <li>Displays the patient's location within a hospital facility.</li> </ul>
4	Patient Label	<ul style="list-style-type: none"> <li>Displays the label of the patient currently being viewed.</li> </ul> <b>Note:</b> Patient labels are edited in the Patient SafetyNet application. See the <b>Operator's Manual, Patient SafetyNet Supplemental Alarm System, Series 5.5.X.X</b> or higher for more information.
5	View Selection Menu	Displays the following screen layout options: <ul style="list-style-type: none"> <li>Overview Layout (See <b>Overview Layout</b> on page 15)</li> <li>Hemodynamics Layout (See <b>Hemodynamics Layout</b> on page 17)</li> <li>Oxygenation Layout (See <b>Oxygenation Layout</b> on page 18)</li> <li>Sedation Layout (See <b>Sedation Layout</b> on page 19)</li> </ul>

# Chapter 2: Operation

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## Opening the UniView Application

To open the UniView application:

1. Click the UniView icon to start the application . 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 35.
  - If the application is being opened for the first time, a Masimo System must be added. See **Adding a System** on page 25.
  - 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 13.

## System Login

1. Open the UniView application. The last used Masimo System name will appear at the top of the login screen.
2. Enter the Masimo System username and password credentials. The username and password are provided by your hospital Patient SafetyNet administrator.
3. Click **Login**.
4. After successful login, the *Select Patient* screen is displayed. See **Selecting a Patient** on page 13. If unable to login to the Masimo System, see **Troubleshooting** on page 31.

## Selecting a Patient

After logging into a Masimo System in UniView, the *Select Patient* screen displays a patient list.

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 27.
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.
  - For further description of the *Overview* screen, see **Overview Layout** on page 15.
  - To select a different screen layout, see **Selecting a Screen Layout** on page 14.
  - To view a different patient in the same Masimo System, see **Changing Patients** on page 24.

## Selecting a Screen Layout

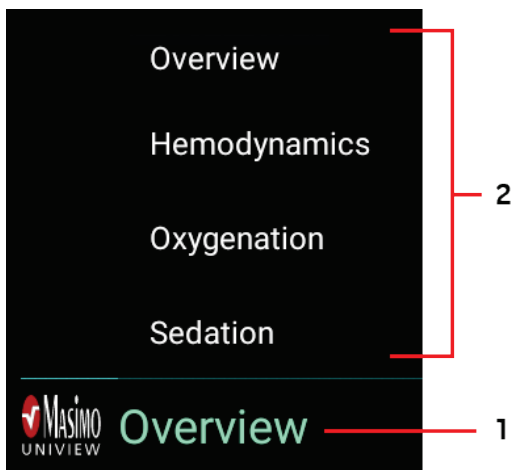
**CAUTION:** Always verify the parameter data displayed on the UniView layout screens match the parameter data displayed on the corresponding PoC. If the parameter data is incorrect or not displayed, see **Troubleshooting** on page 31.

Four screen layout options are available to view patient data in UniView:

- See **Overview Layout** on page 15.
- See **Hemodynamics Layout** on page 17.
- See **Oxygenation Layout** on page 18.
- See **Sedation Layout** on page 19.

### To select a screen layout option:

1. Login to a Masimo System and select a patient. See **System Login** on page 13.
2. In the bottom-left of the *Overview* screen, click the *View Selection Menu* [1] to view the screen layout options.
3. Click a screen layout option [2] to view a parameter data.



4. Click anywhere outside of the *View Selection Menu* to close the menu.

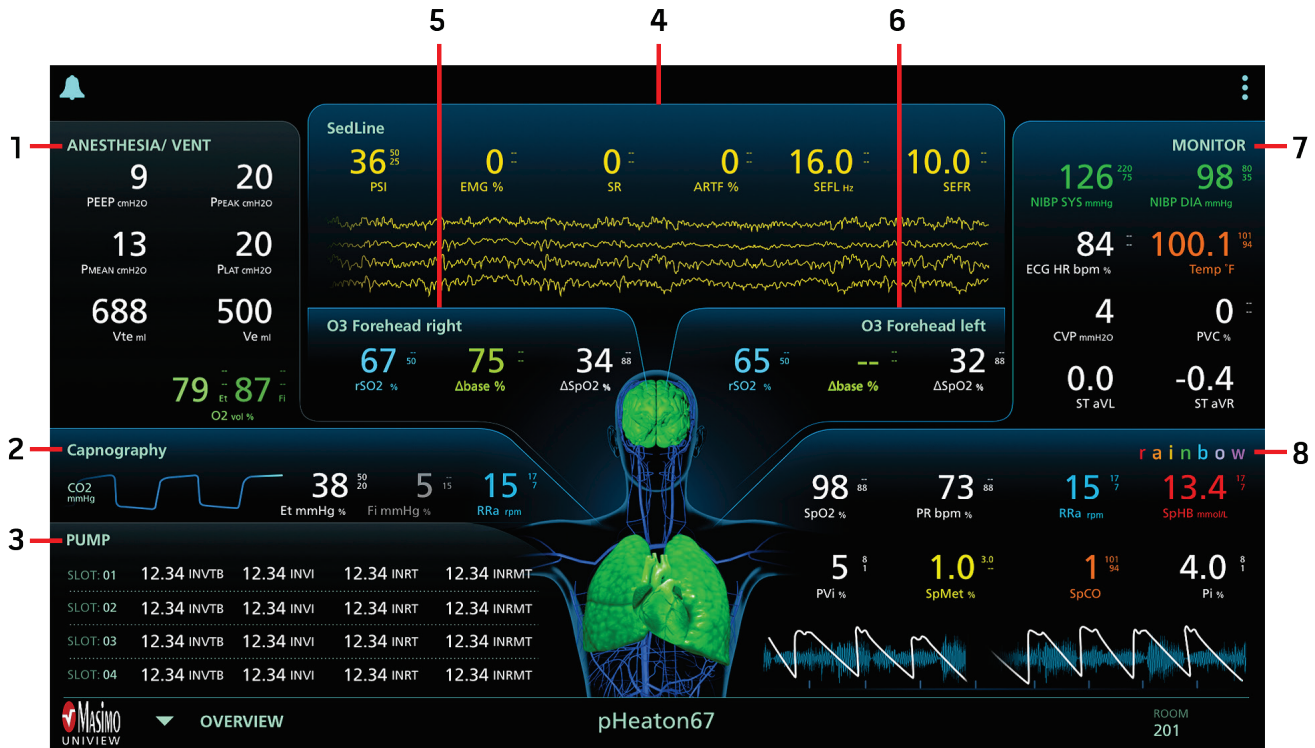


# Overview Layout

The *Overview* screen 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), [6] O3 Regional Oximeter (Forehead Left), [7] Third-Party Monitor, and [8] rainbow.

**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 31.



Ref	Window	Description	Parameter/Waveform Displayed	Window Visibility
1	Anesthesia or Ventilator	<ul style="list-style-type: none"> <li>Displays one Anesthesia or Ventilator device.</li> <li>First connected Anesthesia or Ventilator device has highest priority and its data will be displayed.</li> <li>Window expands when capnography and pump devices are disconnected or powered off.</li> <li>Refer to the appropriate device operator's manual for more information.</li> </ul>	<ul style="list-style-type: none"> <li>PEEP, Ppeak, Pmean, PLAT, Vte, Ve, EtO<sub>2</sub>, FiO<sub>2</sub></li> </ul> <p><b>Note:</b> Parameters displayed if available by device.</p>	<ul style="list-style-type: none"> <li>Always visible</li> </ul>
		<ul style="list-style-type: none"> <li>Pressure, volume, and flow waveforms</li> </ul> <p><b>Note:</b> Waveforms displayed if available by device.</p>	<ul style="list-style-type: none"> <li>No waveforms visible if capnography is connected</li> <li>All 3 waveforms are visible if capnography and pump are not connected</li> <li>Pressure waveform is visible if pump is connected and capnography is disconnected</li> </ul>	

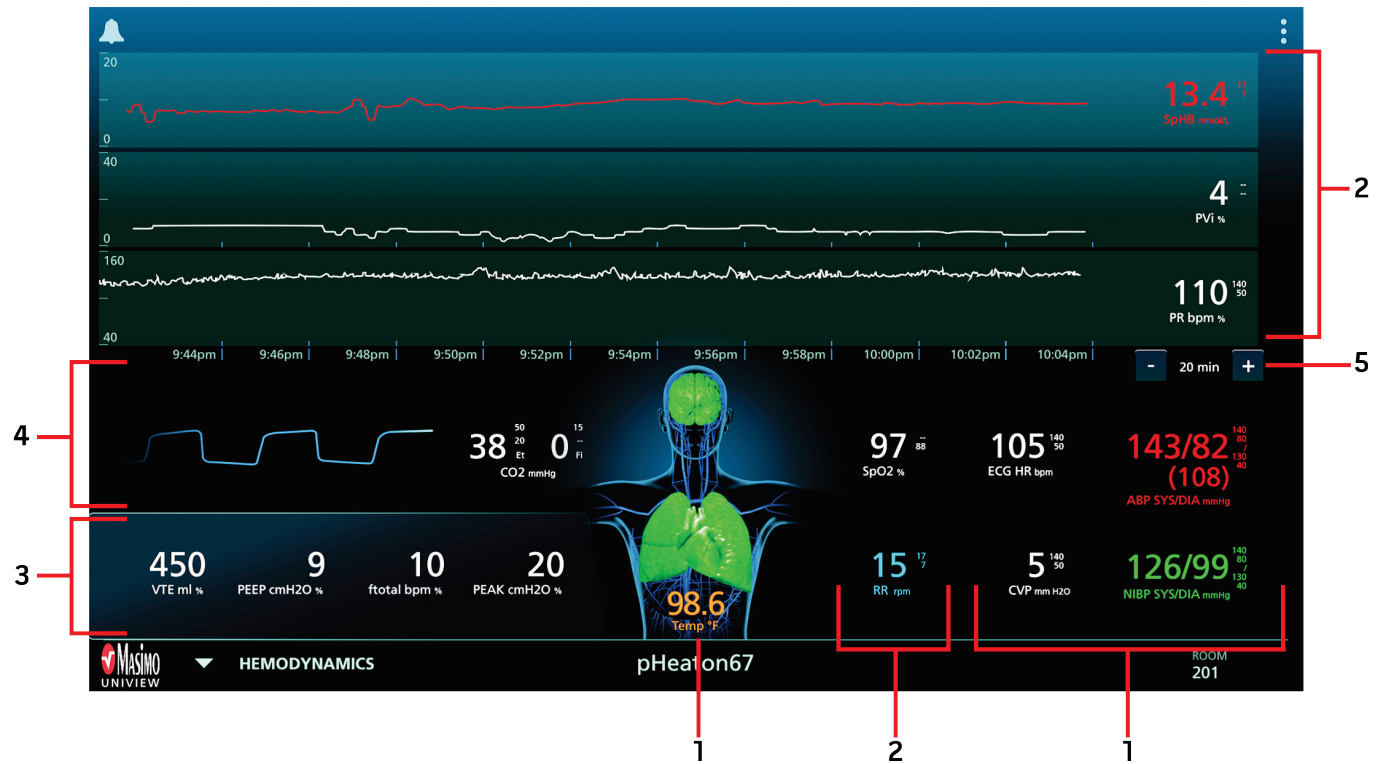
Ref	Window	Description	Parameter/Waveform Displayed	Window Visibility
2	Capnography	<ul style="list-style-type: none"> <li>Displays one capnography device.</li> <li>Window expands when pump devices are disconnected or powered off.</li> <li>Refer to the appropriate device operator's manual for more information.</li> </ul>	<ul style="list-style-type: none"> <li>EtCO<sub>2</sub>, FiCO<sub>2</sub>, RR</li> <li>CO<sub>2</sub> waveform</li> </ul>	<ul style="list-style-type: none"> <li>Visible when capnography device is connected</li> </ul>
3	Infusion Pump	<ul style="list-style-type: none"> <li>Refer to the appropriate device operator's manual for more information.</li> </ul>	<ul style="list-style-type: none"> <li>INVTB</li> <li>INVI</li> <li>INRT</li> <li>INRMT</li> </ul>	<ul style="list-style-type: none"> <li>Visible when pump device is connected</li> </ul>
4	SedLine	<ul style="list-style-type: none"> <li>Displays one SedLine device.</li> <li>Window expands when O3 Regional Oximeter devices are disconnected from Root.</li> <li>Refer to the appropriate device operator's manual for more information.</li> </ul>	<ul style="list-style-type: none"> <li>PSi, EMG, SR, SEFL, SEFR, ARTF</li> <li>EEG waveform</li> </ul>	<ul style="list-style-type: none"> <li>Always visible</li> </ul>
5	O3 Regional Oximeter (Forehead Right)	<ul style="list-style-type: none"> <li>Forehead Right sensor data is displayed left side of screen.</li> <li>Refer to the appropriate device operator's manual for more information.</li> </ul>	<ul style="list-style-type: none"> <li>rSO<sub>2</sub>, Delta Baseline (<math>\Delta</math>base), Delta SpO<sub>2</sub> (<math>\Delta</math>SpO<sub>2</sub>)</li> </ul>	<ul style="list-style-type: none"> <li>Visible when an O3 sensor is connected</li> </ul>
6	O3 Regional Oximeter (Forehead Left)	<ul style="list-style-type: none"> <li>Forehead Left sensor data is displayed right side of screen.</li> <li>Refer to the appropriate device operator's manual for more information.</li> </ul>	<ul style="list-style-type: none"> <li>rSO<sub>2</sub>, Delta Baseline (<math>\Delta</math>base), Delta SpO<sub>2</sub> (<math>\Delta</math>SpO<sub>2</sub>)</li> </ul>	<ul style="list-style-type: none"> <li>Visible when an O3 sensor is connected</li> </ul>
7	Third-Party Monitor	<ul style="list-style-type: none"> <li>Refer to the appropriate device operator's manual for more information.</li> </ul>	<ul style="list-style-type: none"> <li>Temperature, NiBP Systolic, NiBP Diastolic, ECG HR, PVC, CVP, ST aVL, ST aVR</li> </ul> <p><b>Note:</b> Parameters displayed if available by device.</p>	<ul style="list-style-type: none"> <li>Visible when connected</li> </ul>
8	rainbow	<ul style="list-style-type: none"> <li>Displays multi-parameter rainbow parameter measurements from a Masimo device.</li> <li>Window expands when the third-party monitor is disconnected or powered off.</li> <li>Refer to the appropriate device operator's manual for further information.</li> </ul>	<ul style="list-style-type: none"> <li>The first 8 parameters are displayed (based on priority)</li> <li>Pleth, Signal IQ, and Resp Env waveforms</li> </ul>	<ul style="list-style-type: none"> <li>Always visible</li> <li>Expands if third-party monitor is not connected</li> </ul>

# Hemodynamics Layout

The *Hemodynamics* screen 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 20.

**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 31.



Ref	Description
1	<ul style="list-style-type: none"> <li>Displays Masimo device or third-party monitoring parameters.</li> </ul> <p><b>Note:</b> 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.</p>
2	<ul style="list-style-type: none"> <li>Displays rainbow parameters:                             <ul style="list-style-type: none"> <li>SpHB, PVi, and PR (Displayed with trends)</li> <li>SpO<sub>2</sub> and RRa</li> </ul> </li> </ul> <p><b>Note:</b> 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.</p>
3	<ul style="list-style-type: none"> <li>Displays anesthesia or ventilator device parameters.</li> </ul>
4	<ul style="list-style-type: none"> <li>Displays capnography device parameters and CO<sub>2</sub> waveform.</li> </ul>
5	See <b>Trend Settings</b> on page 20.

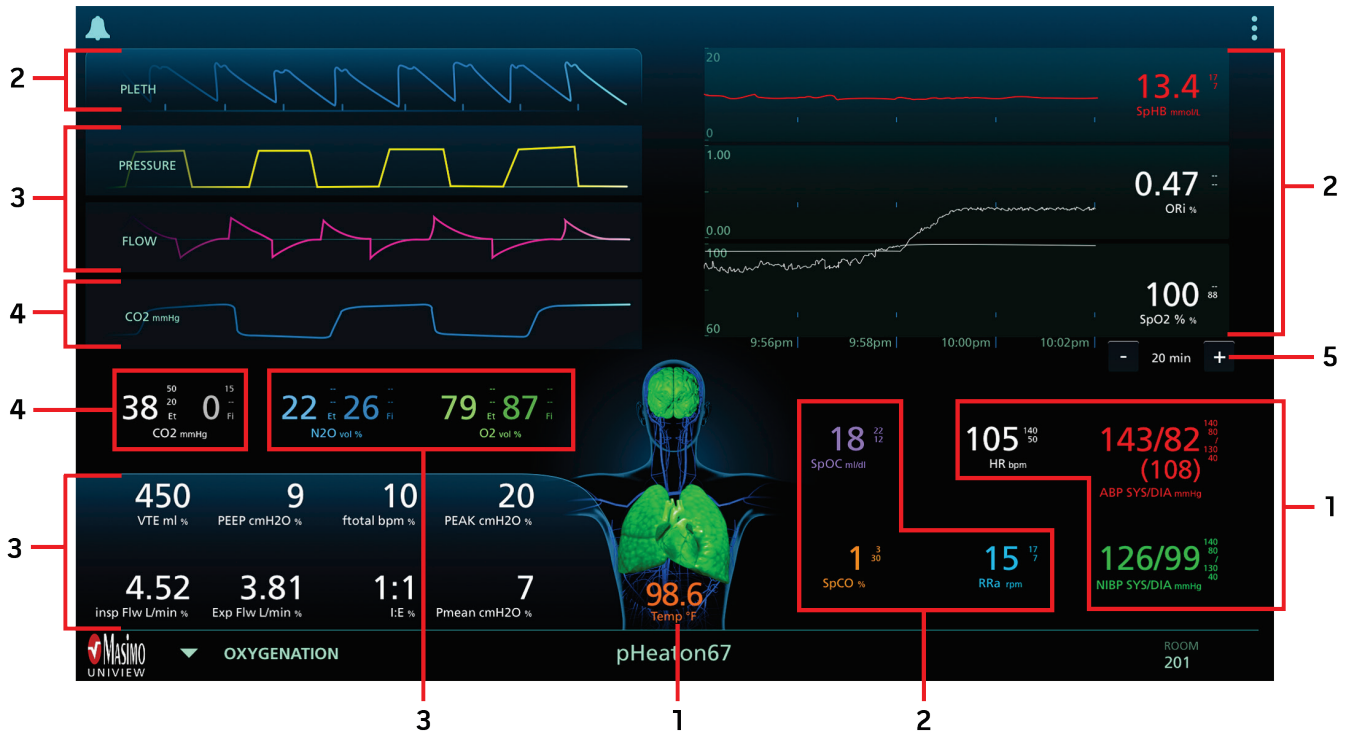
# Oxygenation Layout

The *Oxygenation* screen 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<sub>2</sub> can be adjusted incrementally. See **Trend Settings** on page 20.

**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 31.

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



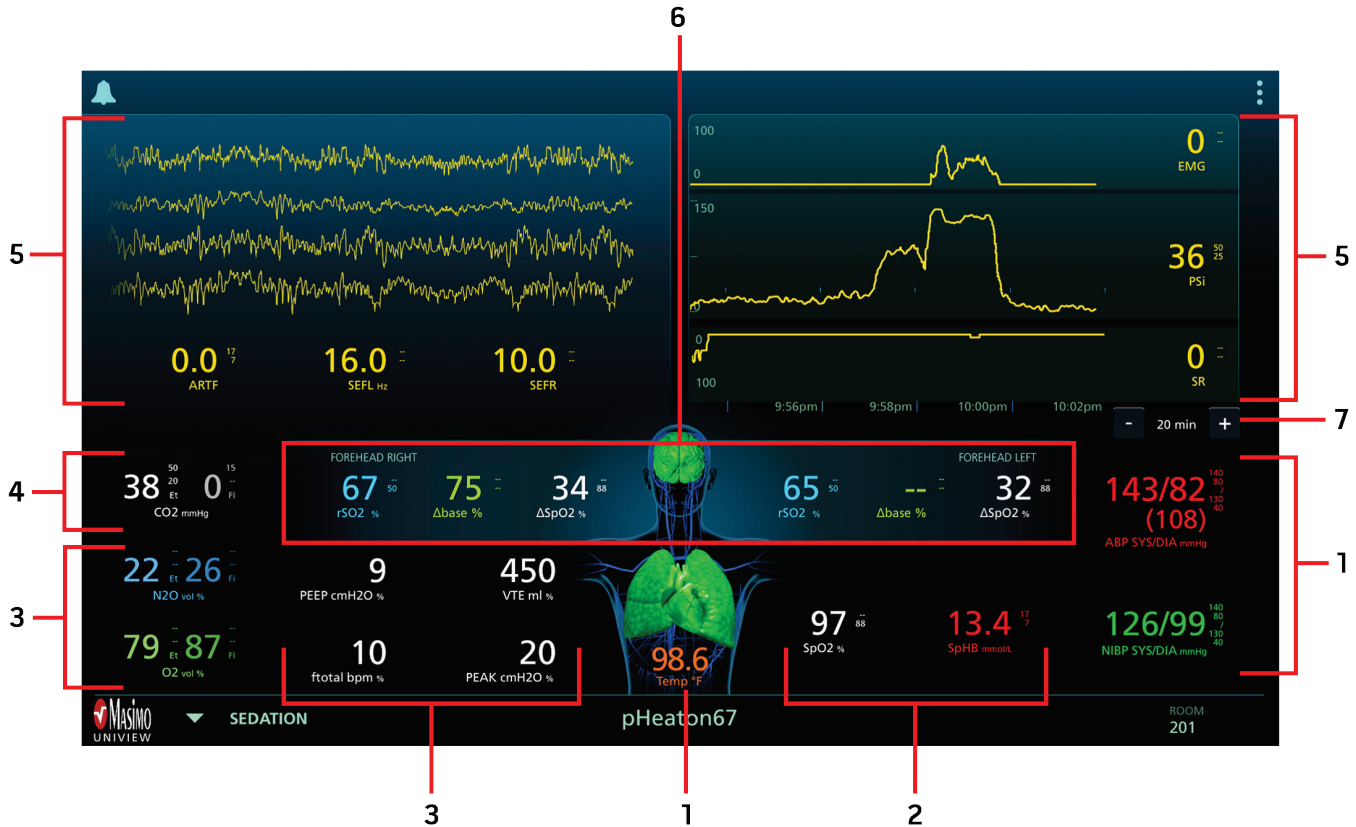
Ref	Description
1	<ul style="list-style-type: none"> <li>Displays Masimo device or third-party monitoring parameters.</li> </ul> <p><b>Note:</b> Masimo device parameters have the highest display priority over third-party parameters. Refer to the appropriate device operator's manual for further information about parameters.</p>
2	<ul style="list-style-type: none"> <li>Displays rainbow parameters:                             <ul style="list-style-type: none"> <li>SpHB, ORi, and SpO<sub>2</sub> (Displayed with trends)</li> <li>SpOC, SpCO, RRa, and Pleth waveform</li> </ul> </li> </ul> <p><b>Note:</b> 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.</p> <p><b>Note:</b> ORi is currently not available in the U.S.A. and territories relying on FDA market clearance.</p>
3	<ul style="list-style-type: none"> <li>Displays anesthesia or ventilator device parameters, pressure waveform, and flow waveform.</li> </ul>
4	<ul style="list-style-type: none"> <li>Displays capnography device parameters and CO<sub>2</sub> waveform.</li> </ul>
5	See <b>Trend Settings</b> on page 20.

# Sedation Layout

The *Sedation View* screen 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 20.

**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 31.



Ref	Description
1	<ul style="list-style-type: none"> <li>Displays Masimo device or third-party monitoring parameters.</li> </ul> <p><b>Note:</b> 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.</p>
2	<ul style="list-style-type: none"> <li>Displays rainbow parameters SpO<sub>2</sub> and SpHB.</li> </ul> <p><b>Note:</b> 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.</p>
3	<ul style="list-style-type: none"> <li>Displays anesthesia or ventilator device parameters.</li> </ul>
4	<ul style="list-style-type: none"> <li>Displays capnography device parameters.</li> </ul>
5	<ul style="list-style-type: none"> <li>Displays SedLine device parameters and waveforms.</li> </ul>
6	<ul style="list-style-type: none"> <li>Displays O3 device parameters.</li> </ul>
7	<ul style="list-style-type: none"> <li>See <i>Trend Settings</i> on page 20.</li> </ul>

## 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 31.

**Note:** UniView does not generate or manage alarms. The connected devices alarms are a primary for determining that an alarm condition exists.

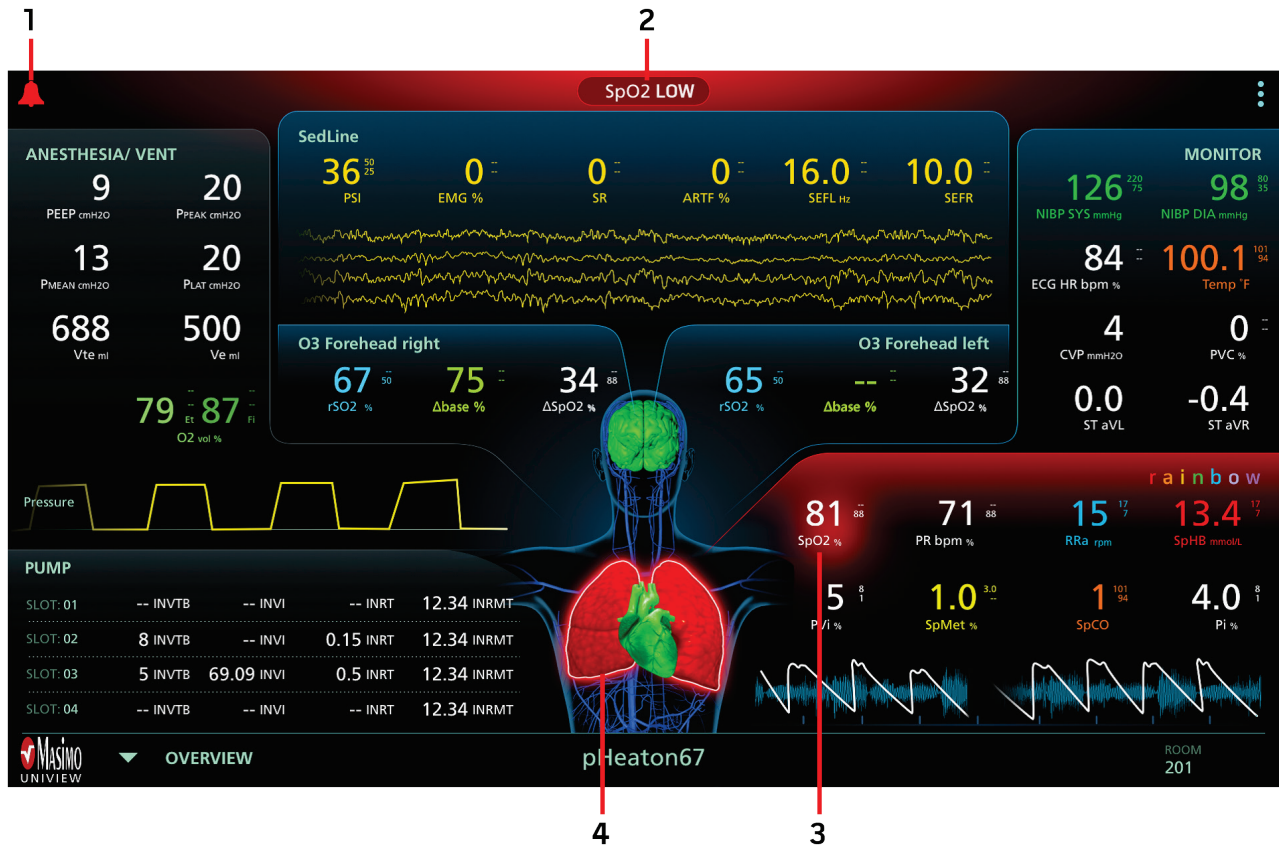
Icon Appearance	Description
	There are currently no active alarms, and no alarms have been silenced.
	There is currently at least one active alarm that has <b>not</b> been silenced.



# Parameter Alarms

## Alarming Parameters Displayed on a Layout Screen

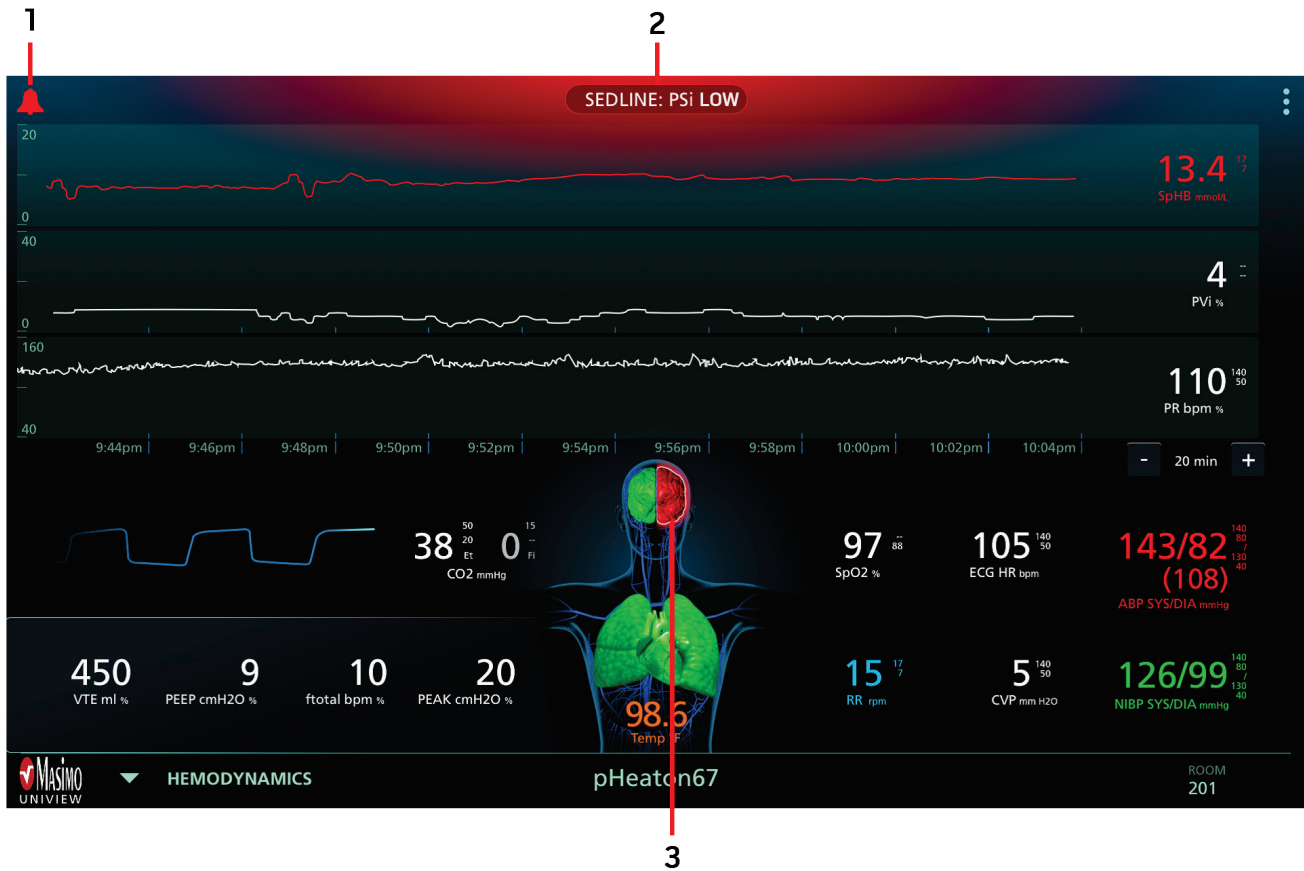
If an alarming parameter is viewable on a layout screen [3], the parameter that has exceeded the alarm limit (for example, SpO<sub>2</sub>) is displayed at the top of the screen [2].



Ref	Description
1	The alarm icon is red during alarm.
2	<ul style="list-style-type: none"> <li>A red pill shape message at the top-center of the screen shows the alarming parameter.</li> <li>If more than 1 parameter is alarming, the parameters are shuffled.</li> <li>A red glow pulses behind the red pill shape.</li> </ul>
3	<ul style="list-style-type: none"> <li>A red glow pulses behind the alarming parameter if the parameter is viewable in the screen layout.</li> <li>The alarming parameter font color is white during alarm.</li> </ul>
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	<ul style="list-style-type: none"> <li>• A red pill shape message at the top-center of the screen shows the source of the alarming parameter and the alarming parameter.</li> <li>• If more than 1 parameter is alarming, the parameters are shuffled.</li> <li>• The red glow pulses behind pill shape.</li> </ul>
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

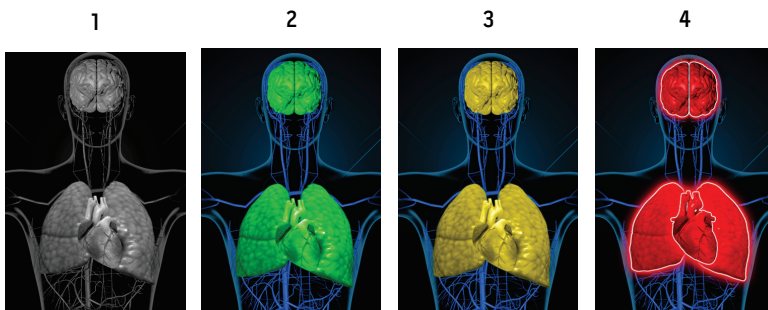
The lungs and heart in the 3D image can be animated based on rainbow parameter values. The lungs will animate based on RRa and RRp parameter values, and the heart will animate based on PR parameter values.

**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	<ul style="list-style-type: none"> <li>• Disconnected PoC device</li> <li>• No monitoring</li> </ul>
2	Green	<ul style="list-style-type: none"> <li>• Successful connection to PoC device</li> <li>• Monitoring: normal range</li> </ul>
3	Yellow	<ul style="list-style-type: none"> <li>• Successful connection to PoC device</li> <li>• Monitoring: Statuses, notifications, modifiers, notification devices not assigned to patient, or patient has not been successfully admitted to the Masimo System</li> </ul>
4	Red	<ul style="list-style-type: none"> <li>• Successful connection to PoC device</li> <li>• Monitoring: alarm range</li> </ul>

## 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
PR	Heart
PVi	Vascular
SpHb	Vascular
SpMet	Vascular
Pi	N/A
SpOC	N/A
SpO <sub>2</sub>	Lung
SpCO	Lung
RRa	Lung
ORi*	Lung
PSi**	Brain
rSO <sub>2</sub> ***	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.

## 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 Screen Layout** on page 14.
  - 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 35.
    - 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 27.

## Advanced Features

### 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 35.

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 35.

If the host device was damaged during shipping, see **Contacting Masimo** on page 35.

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

### UniView Software Version

To view the UniView software version:


1. In the upper-right corner of a layout screen, click the **Options** menu . The UniView version number release will be displayed below the Masimo logo in the **Options** menu.
2. Click anywhere on the screen to close the **Options** menu.

### 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. <b>Note:</b> Contact an authorized hospital Patient SafetyNet administrator to obtain an IP address.
Choose System Type	Select either SafetyNet or Iris Gateway.
Secured Connection	Enable secured connection (toggle blue).
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 13.

**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
<b>Name</b>	Create a label for the Masimo system.
<b>IP Address</b>	Enter the Masimo System server IP address. <b>Note:</b> Contact an authorized hospital Patient SafetyNet administrator to obtain an IP address.
<b>Choose System Type</b>	Select either SafetyNet or Iris Gateway.
<b>Secured Connection</b>	Enable secured connection (toggle blue).
<b>Client Certification (.bks)</b>	Select the appropriate .bks file.
<b>Password</b>	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 13.

## 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 35.

**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 13.

## 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:

1. While logged into a Masimo System, 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 25. 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 13.

## 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 35.

### 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.

## System Disconnect

### To Disconnect from a Masimo System:

1. In the upper-right of a layout screen, click the *Options* menu .
2. Select **Disconnect** in the drop-down menu.
3. Select **OK** to confirm disconnection from the current system. After successfully disconnecting from the system, the *Select System* screen is displayed.



# Chapter 3: Messages

## Messages

Message	Potential Causes	Next Steps
<i>Username Required</i>	<ul style="list-style-type: none"><li>• Username field is empty.</li></ul>	<ul style="list-style-type: none"><li>• Enter a valid Masimo System username. To obtain the Masimo System username, contact the hospital Patient SafetyNet administrator.</li></ul>
<i>Password Required</i>	<ul style="list-style-type: none"><li>• Password field is empty.</li></ul>	<ul style="list-style-type: none"><li>• Enter a valid Masimo System password. To obtain the Masimo System password, contact the hospital Patient SafetyNet administrator.</li></ul>
<i>Add a system to continue.</i>	<ul style="list-style-type: none"><li>• Initial launch of UniView</li><li>• No systems added.</li></ul>	<ul style="list-style-type: none"><li>• Contact the hospital Patient SafetyNet administrator.</li></ul>
<i>System Name Required</i>	<ul style="list-style-type: none"><li>• Displayed when adding a system and the name field is empty.</li></ul>	<ul style="list-style-type: none"><li>• Contact the hospital Patient SafetyNet administrator.</li></ul>
<i>Valid System IP Address Required</i>	<ul style="list-style-type: none"><li>• Displayed when adding a system and an invalid IP Address is supplied.</li></ul>	<ul style="list-style-type: none"><li>• Contact the hospital Patient SafetyNet administrator.</li></ul>
<i>Certificate Required</i>	<ul style="list-style-type: none"><li>• Displayed when adding a system and the certificate selection is empty.</li></ul>	<ul style="list-style-type: none"><li>• Contact the hospital Patient SafetyNet administrator.</li></ul>
<i>Certificate Password Required</i>	<ul style="list-style-type: none"><li>• Displayed when adding a system and the name field is empty.</li></ul>	<ul style="list-style-type: none"><li>• Contact the hospital Patient SafetyNet administrator.</li></ul>
<i>No file explorer application installed</i>	<ul style="list-style-type: none"><li>• Displayed when adding a system and trying to select a certificate and no file explorer exists.</li></ul>	<ul style="list-style-type: none"><li>• Contact the hospital Patient SafetyNet administrator.</li></ul>
<i>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.</i>	<ul style="list-style-type: none"><li>• Displayed when attempting to connect to a system with an incompatible protocol version.</li></ul>	<ul style="list-style-type: none"><li>• Contact the hospital Patient SafetyNet administrator.</li></ul>





# Chapter 4: Troubleshooting

## Troubleshooting UniView

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

Symptom	Potential Causes	Next Steps
<i>UniView does not turn on</i>	<ul style="list-style-type: none"> <li>Internal failure</li> </ul>	<ul style="list-style-type: none"> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
<i>Masimo System cannot connect to PoC</i>	<ul style="list-style-type: none"> <li>The Masimo System, PoC, or host device is not connected to a network.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure the PoC device is enabled for WiFi or Ethernet.</li> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
	<ul style="list-style-type: none"> <li>The Masimo System, PoC, or host device is not on the <i>same</i> network.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure both the Masimo System and the PoC device are configured to the same network.</li> <li>Ensure the destination IP address of the PoC device is the Masimo System IP address.</li> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
	<ul style="list-style-type: none"> <li>An incorrect IP address for the Masimo System is entered into UniView.</li> <li>Masimo System software version is not compatible with UniView software version.</li> </ul>	<ul style="list-style-type: none"> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
	<ul style="list-style-type: none"> <li>Hospital network stops working or is operating incorrectly.</li> <li>Hospital network settings changed.</li> </ul>	<ul style="list-style-type: none"> <li>Contact hospital Patient SafetyNet administrator.</li> </ul>
<i>Forgot Masimo System login and/or password</i>	<ul style="list-style-type: none"> <li>Login and password are required to access a Masimo System.</li> </ul>	<ul style="list-style-type: none"> <li>Contact hospital Patient SafetyNet administrator.</li> </ul>
<i>PoC device parameters are not being displayed</i>	<ul style="list-style-type: none"> <li>The PoC may be disconnected or not powered ON.</li> </ul>	<ul style="list-style-type: none"> <li>Confirm the PoC device is ON.</li> <li>Confirm the PoC device is displaying parameter data.</li> <li>Confirm the PoC device is connected to the same network as the Masimo System and host device.</li> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
	<ul style="list-style-type: none"> <li>The Masimo System and/or PoC device are not connected to a network.</li> <li>The Masimo System stops working or operates incorrectly.</li> <li>The Masimo System and PoC are not on the <i>same</i> network.</li> <li>Masimo System settings have changed.</li> </ul>	<ul style="list-style-type: none"> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
	<ul style="list-style-type: none"> <li>Hospital network stops working or is operating incorrectly.</li> <li>Hospital network settings changed.</li> </ul>	<ul style="list-style-type: none"> <li>Contact hospital Patient SafetyNet administrator.</li> </ul>
	<ul style="list-style-type: none"> <li>Host device display not compatible to display format.</li> <li>Host device settings or operating system updates may be needed.</li> <li>Host device does not operate correctly or stops operating.</li> <li>Host device may have been damaged during shipping.</li> </ul>	<ul style="list-style-type: none"> <li>Refer to the host device setup instructions.</li> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>

Symptom	Potential Causes	Next Steps
<i>Waveforms are not displayed</i>	<ul style="list-style-type: none"> <li>Waveforms have not been enabled in Patient SafetyNet.</li> </ul>	<ul style="list-style-type: none"> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
<i>Incorrect patient monitoring data being displayed</i>	<ul style="list-style-type: none"> <li>The PoC may be disconnected or not powered ON.</li> </ul>	<ul style="list-style-type: none"> <li>Confirm the PoC device is ON.</li> <li>Confirm the PoC device is displaying parameter data.</li> <li>Confirm the PoC device is connected to the same network as the Masimo System and host device.</li> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
	<ul style="list-style-type: none"> <li>The Masimo System and/or PoC device are not connected to a network.</li> <li>The Masimo System stops working or operates incorrectly.</li> <li>The Masimo System and PoC are not on the same network.</li> <li>Masimo System settings have changed.</li> </ul>	<ul style="list-style-type: none"> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
	<ul style="list-style-type: none"> <li>Hospital network stops working or is operating incorrectly.</li> <li>Hospital network settings changed.</li> </ul>	<ul style="list-style-type: none"> <li>Contact hospital Patient SafetyNet administrator.</li> </ul>
	<ul style="list-style-type: none"> <li>Host device display not compatible to display format.</li> <li>Host device settings or operating system updates may be needed.</li> <li>Host device does not operate correctly or stops operating.</li> <li>Host device may have been damaged during shipping.</li> </ul>	<ul style="list-style-type: none"> <li>Refer to the host device setup instructions.</li> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
<i>UniView is interrupted intermittently</i>	<ul style="list-style-type: none"> <li>Power cord not connected to host device or power outlet.</li> <li>Network equipment loses power.</li> </ul>	<ul style="list-style-type: none"> <li>Check power cord connections and condition of power cord.</li> <li>Refer to the host device setup instructions.</li> <li>Contact hospital Patient SafetyNet administrator.</li> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
<i>Unable to hear audible alarms</i>	<ul style="list-style-type: none"> <li>Audible alarms are not provided in your current software</li> </ul>	<ul style="list-style-type: none"> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
<i>Unable to receive visual message/alarm indicators</i>	<ul style="list-style-type: none"> <li>The PoC may be disconnected or not powered ON.</li> </ul>	<ul style="list-style-type: none"> <li>Confirm the PoC device is ON.</li> <li>Confirm the PoC device is displaying parameter data.</li> <li>Confirm the PoC device is connected to the same network as the Masimo System and host device.</li> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
	<ul style="list-style-type: none"> <li>The Masimo System and/or PoC device are not connected to a network.</li> <li>The Masimo System stops working or operates incorrectly.</li> <li>The Masimo System and PoC are not on the same network.</li> <li>Masimo System settings have changed.</li> </ul>	<ul style="list-style-type: none"> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>
	<ul style="list-style-type: none"> <li>Hospital network stops working or is operating incorrectly.</li> <li>Hospital network settings changed.</li> </ul>	<ul style="list-style-type: none"> <li>Contact hospital Patient SafetyNet administrator.</li> </ul>
	<ul style="list-style-type: none"> <li>Host device display not compatible to display format.</li> <li>Host device settings or operating system updates may be needed.</li> <li>Host device does not operate correctly or stops operating.</li> <li>Host device may have been damaged during shipping.</li> </ul>	<ul style="list-style-type: none"> <li>Refer to the host device setup instructions.</li> <li>Contact Masimo Service. See <b>Contacting Masimo</b> on page 35.</li> </ul>

# Chapter 5: Specifications





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## Compatible Masimo Systems

The following Masimo Systems are compatible with UniView:

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

## Symbols

Symbols	Definition
	Follow Instructions for use
	Non-Sterile
	Not made with natural rubber latex
	Instructions/Directions for Use/Manuals are available in electronic format @ <a href="http://www.Masimo.com/TechDocs">http://www.Masimo.com/TechDocs</a> <b>Note: eIFU is not available for CE mark countries.</b>



# Chapter 6: Warranty Information

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## Cleaning

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

## Contacting Masimo

Masimo Corporation  
52 Discovery  
Irvine, California 92618

Tel:+1 949 297 7000  
Fax:+1 949 297 7001

## Limited Warranty

Masimo warrants to the initial buyer only that these products, when used in accordance with the directions provided with the Products by Masimo, will be free of defects in materials and workmanship for a period of six (6) months. The foregoing is the sole and exclusive warranty applicable to the products sold by Masimo to buyer. Masimo expressly disclaims all other oral, express or implied warranties, including without limitation any warranties of merchantability or fitness for particular purpose. Masimo's sole obligation and buyer's exclusive remedy for breach of any warranty shall be, at Masimo's option, to repair or replace the product.

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