Operator's Manual

Kite® Supplemental Display

These operating instructions provide the necessary information for proper operation of all models of Kite. 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 Kite are prerequisites for its proper use. Do not operate Kite without completely reading and understanding these instructions.

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

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.

For professional use. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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About This Manual

This manual explains how to set up and use Kite® Supplemental Display. Important safety information relating to general use of Kite 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

Kite is a supplemental display for Masimo medical devices on the same network. Kite allows for remote display of system and parameter data generated by Masimo devices.

The following devices can display data on Kite:

- Radical-7® (standalone)
- Root® with:
  - Radical-7®
  - Radius-7®
  - SedLine®
  - ISA™
  - O3®
- Rad-97™

Intended Use

Kite is a supplemental display intended to be used to view data from a standalone patient monitoring device. Kite can be used in hospital or hospital-like environments.

Contraindications

None

Safety Information, Warnings and Cautions

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

Safety Warnings and Cautions

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

WARNING: If Kite 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 Kite host device where it may be accessible by patients.

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

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

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

WARNING: Kite 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 device or accessories on surfaces with visible liquid spills.
- Do not soak or immerse the device in liquids.
- Use cleaning solutions only as instructed in this operator's manual.

Performance Warnings and Cautions

WARNING: Kite does not generate or manage 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.

CAUTION: Kite is not a primary display. Medical decisions should be made using data from the primary display of a device in conjunction with clinical signs and symptoms.

CAUTION: Kite 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 Kite 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 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 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: To prevent tampering, the Kite host device should be located with responsible personnel.

CAUTION: Do not place the Kite host device on 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 Kite.

Cleaning and Service Warnings and Cautions

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

WARNING: Use cleaning solutions only as instructed in the Operator's Manual for the Kite host device.

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

Note: Kite host device installation must be completed by Masimo or an authorized service department.

Compliance Warnings and Cautions

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

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

WARNING: When using devices with wireless features outside the United States, 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 Kite host device's Operator's Manual or Directions For Use for Kite for FCC compliance information before use.

Chapter 1: Description

Overview

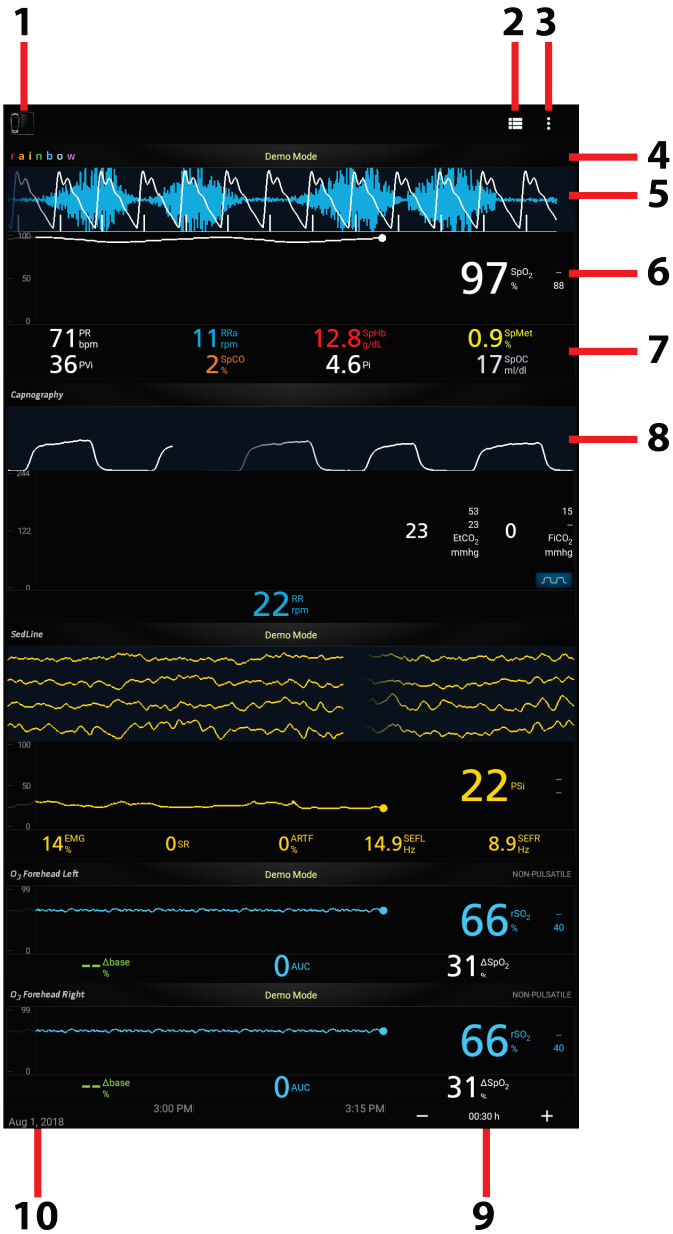
Kite is a supplemental display for system and parameter data generated by Masimo devices. While viewing device data displayed on Kite, various components of the display can be manipulated. The diagram and table below outline the Kite display components. For more information, see ***Navigating the Kite Display*** on page 23.

Note: Root with rainbow®, O3, Capnography, and SedLine is shown in the example below.

Note: For complete information on setup and use, refer to the Operator's Manual or Directions For Use for Kite host device.

Note: For proper operation, Kite host device and Masimo devices must be connected to the same network. For more information, contact your network administrator.

Note: Kite is not a diagnostic tool.



No.	Item	Description
1	*Device Information*	Identifies the device whose parameters are currently being displayed. Press/select the device icon to view device information. See ***Viewing Device Information*** on page 27.
2	*Channels*	Displays up to four (4) channels, depending upon device connection availability. Each channel has a trend view and well that displays expanded/minimized parameter data. Optional channels include: • rainbow® • Capnography • SedLine • O3 See ***Showing/Hiding Channel Windows*** on page 23.
3	*Menu*	Disconnect from the current device or view Kite software version. See ***Disconnecting /Changing a Device*** on page 21.
4	*Device Alarm/Message Display*	Displays active device alarms and messages. See the device's operator's manual for further information about managing device alarms and messages.
5	*Plethysmographic, Signal IQ, and Acoustic Waveforms*	Plethysmographic, Signal IQ, and Acoustic waveforms can be viewed as combined or separated. See ***Expanding/Collapsing Waveform Displays*** on page 26.
6	*Trend View*	Displays channel parameter measurements, trend graphs, value range, numeric value, alarm limits and parameter label. Parameters can be moved from trend view to the well to minimize parameter data. See ***Customizing Channel Windows*** on page 24 and ***Using Trend View*** on page 23.
7	*Well*	Displays minimized channel parameter data. Parameters can be moved from the well to the trend view to show more detailed parameter data. See ***Customizing Channel Windows*** on page 24.
8	*Capnography Waveform*	Option to enable/disable capnography waveform. See ***Expanding/Collapsing Waveform Displays*** on page 26.
9	*Trend Settings*	Allows trend time intervals to be configured in Kite. Trend settings configured in Kite do not affect trend settings in a device. To configure trend settings in a device, see the device's operator's manual. See ***Kite Trend Settings*** on page 27.
10	*Date*	Displays the date and timestamp of the data being viewed.

Chapter 2: Operation

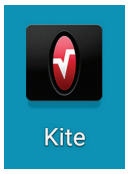
Registering/Logging In to Kite

Registering a New User

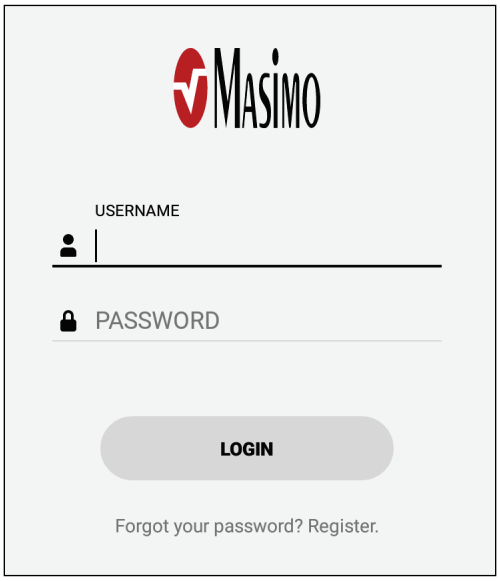
A new user must register in Kite. Follow the instructions below to register a new user account. If a user account has already been registered, see ***Logging In to Kite*** on page 15.

Note: New users, unregistered users, or users that do not know their login credentials are required to register a new user account in Kite.

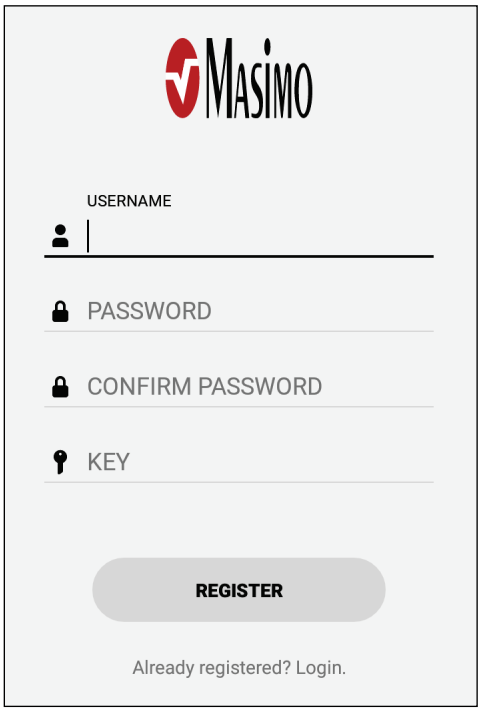
1. Press/select the Kite icon to open the application.



2. On the bottom of the Login screen, press/select **Forgot your password? Register**.



3. In the **Register** screen:
   - Enter a **Username**.
   - Enter a **Password**.
   - Enter the password again in the **Confirm Password** field.
   - Enter MasimoKite7283 (case sensitive) into the **Key** field.
   - Press/select the **Register** button to complete the new user registration.

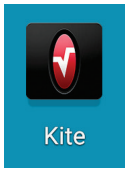


4. After pressing/selecting the **Register** button, the user account will automatically log in to Kite and the device list screen will appear.
   - To connect Kite to a device in the list, see ***Connecting to a Device*** on page 19.
   - If the desired device is not in the list, see ***Adding a Device to Kite*** on page 17.
   - To log out of a Kite user account, see ***Logging Out of Kite*** on page 16.

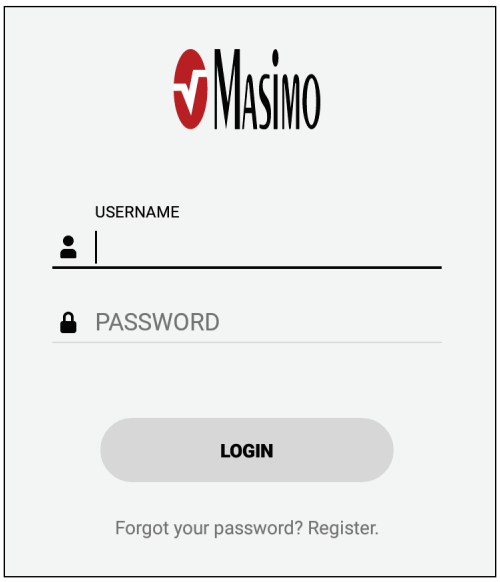
Logging In to Kite

Follow the instructions below to log in to Kite. If a user does not have a registered account, or if they have forgotten their login credentials, they will not be able to log in to Kite and must register as a new user. See ***Registering a New User*** on page 13.

1. Press/select the Kite icon to open the application.



2. In the **Login** screen, enter login credentials:
   - Enter **USERNAME**.
   - Enter **PASSWORD**.
3. Press/Select the **LOGIN** button.

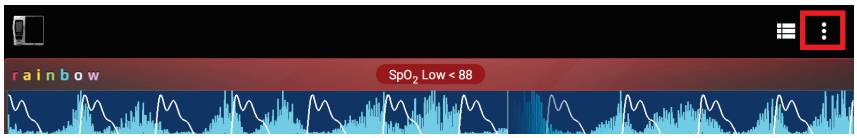


4. After successful login, the device list will appear.
   - To connect Kite to a device in the list, see ***Connecting to a Device*** on page 19.
   - If the desired device is not in the list, see ***Adding a Device to Kite*** on page 17.
   - To log out of a Kite user account, see ***Logging Out of Kite*** on page 16.

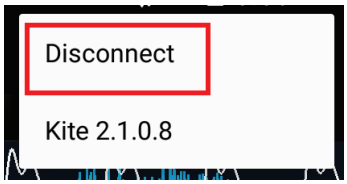
Logging Out of Kite

Follow the instructions below to log out of a user account.

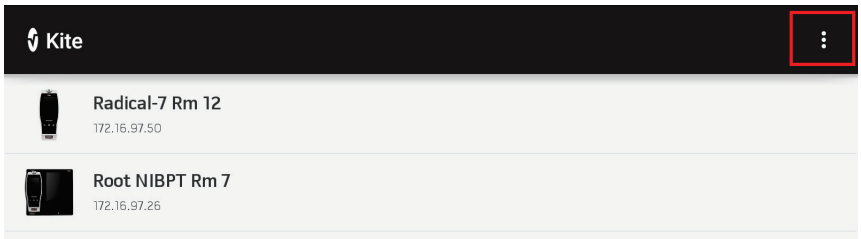
1. While viewing the Kite display, press/select the menu icon in the upper-right corner of the screen.



2. In the drop-down menu, press/select **Disconnect**.



3. In the device list, press/select the menu icon in the upper-right corner of the screen.



4. Press/select **Log Out**.

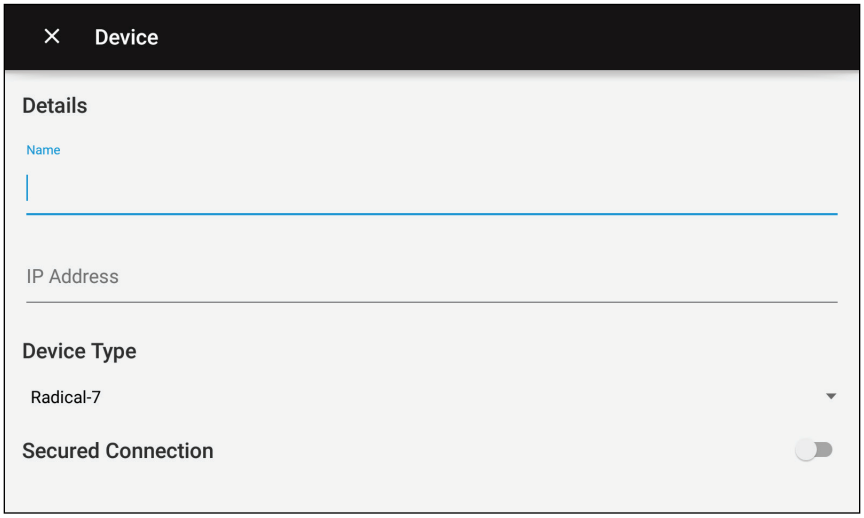
5. After successfully logging out, the **Login** screen will appear. To log in to a user account, see ***Logging In to Kite*** on page 15.

Adding a Device to Kite

Follow the instructions below to add a device to a Kite user account.

Note: The device must be configured to the same network IP address as the Kite host device to be able to display device parameter data. The Masimo Sketch™ software tool is used to configure a device to a desired network IP address. For more information about Sketch, see the ***Operator's Manual, Sketch***. For more information about configuring the host device's network settings, see the Operator's Manual or Directions For Use for the host device.

1. In the bottom-right corner of the device list screen, press/select the **Add Device** button .
2. In the **Details** screen:
   - Enter the device's desired label in the **Name** field.
   - Enter the device **IP address**. Refer to the device operator's manual for more information to locate device WiFi or Ethernet IP addresses.
   - Select the **Device Type**.
   - Determine if a secured connection will be used.
     - If a Secured Connection is needed, see ***Using a Secured Connection*** on page 18.
     - If a Secured Connection is not used, press/select the check mark in the bottom-right corner of the screen to add the device .

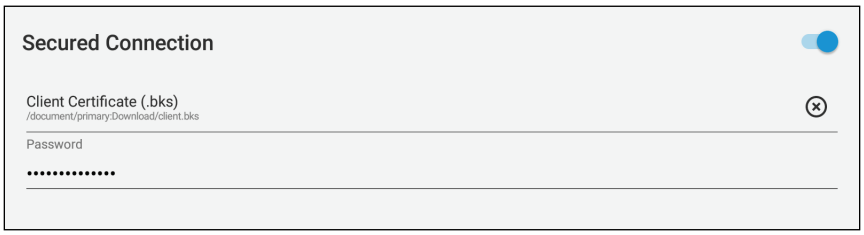


3. The device will appear in the device list. To view the device's parameter data on Kite, see ***Connecting to a Device*** on page 19.

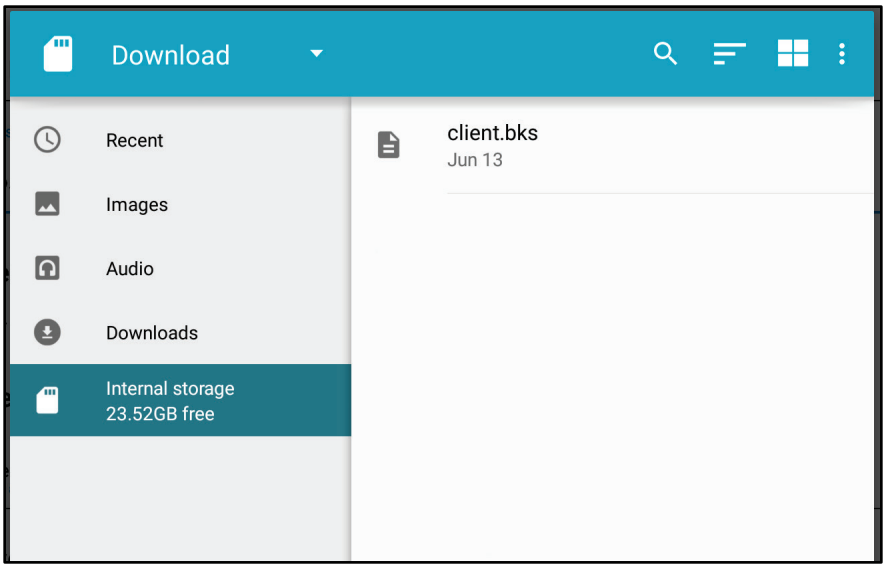
Using a Secured Connection

Follow the instructions below to use a Secured Connection when adding a device to Kite.

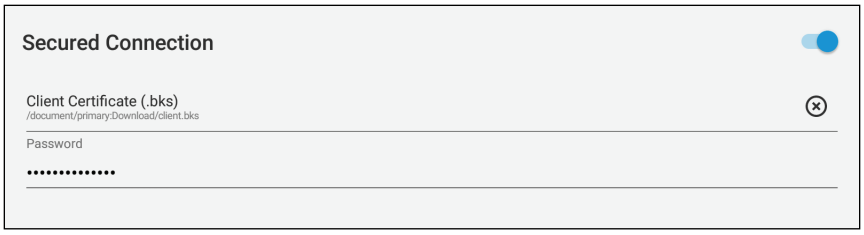
1. After selecting the device type, enable **Secured Connection**.
2. Press/select **Client Certificate (.bks)**.



3. Use the browse function to select the .bks file. The exact location of the file may vary.



4. Enter the password provided by Masimo.

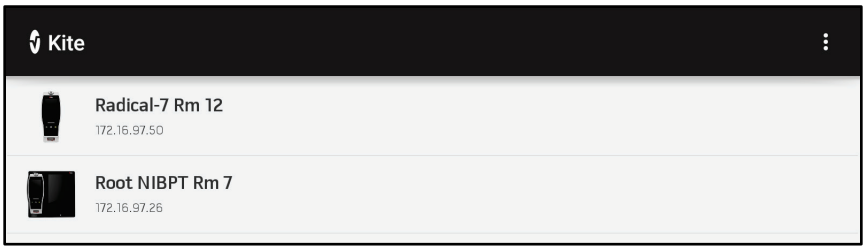


5. Press/select the check mark in the bottom-right corner of the screen to add the device .
6. The device will appear in the device list screen. To view the device's parameter data on Kite, see ***Connecting to a Device*** on page 19.

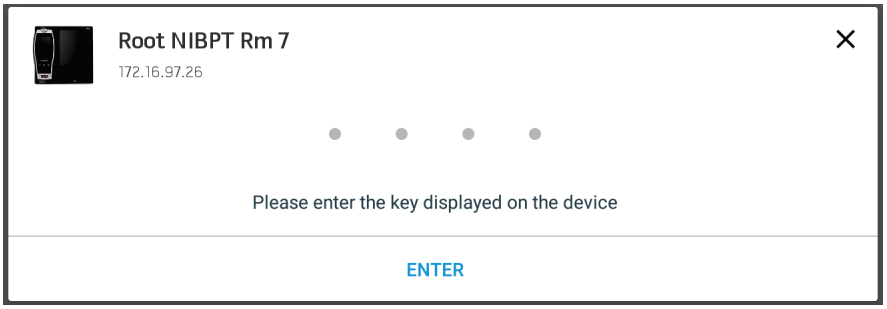
Connecting to a Device

Device parameter data, trends, and waveforms can be viewed on Kite when a connection is established. Follow the instructions below to connect Kite to a device.

1. In the device list, press/select the device to connect to Kite. If a device is not in the list, see ***Adding a Device to Kite*** on page 17.



2. After successful connection, the device's parameter data will appear on the Kite display. See ***Navigating the Kite Display*** on page 23.
   - If Kite displays the message *Please enter the key displayed on the device*, see ***Pairing a Device to Kite*** on page 20.



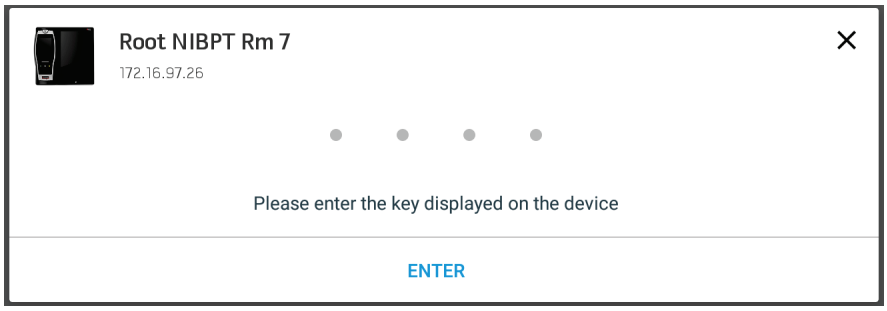
   - If the device cannot connect to Kite, press/select **Cancel**, then see ***Troubleshooting*** on page 31.

Pairing a Device to Kite

Some devices may require using a pairing key to connect to Kite. Follow the instructions below to pair a device with Kite.

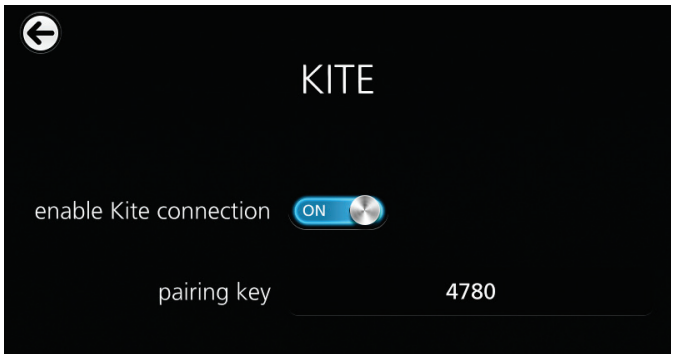
Note: Some devices may not display a pairing key. Refer to the device operator's manual. Root is shown in the following example.

1. Kite requests a pairing key to connect with a device.

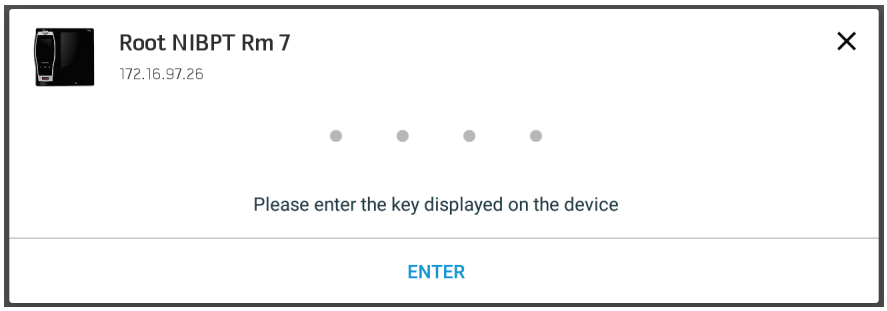


2. On the device screen, the **Kite Pairing** key is displayed.

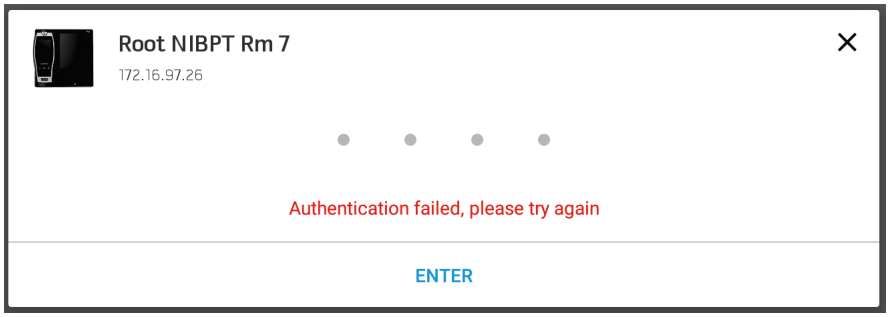
3. If the pairing key window is closed, go to the Kite settings in the device to view the pairing key. For more information, see the device operator's manual.



4. On the Kite screen, enter the Kite pairing key.
5. Press/select **ENTER**.



If the incorrect pairing key is entered, a message displays *Authentication failed, please try again*.

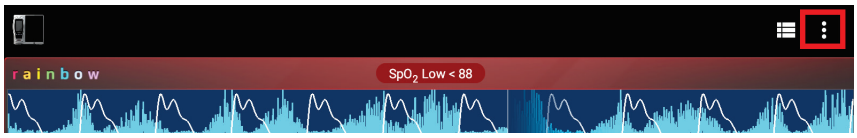


6. After successful connection, the device's parameter data will appear on the Kite display. See ***Navigating the Kite Display*** on page 23.

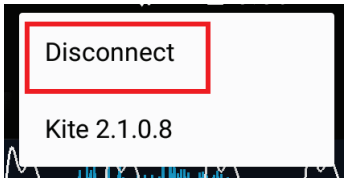
Disconnecting /Changing a Device

Follow the instructions below to disconnect Kite from a device and connect to a different device.

1. While viewing the Kite display, press/select the **Menu** in the upper-right corner of the screen.



2. Press/select **Disconnect**.



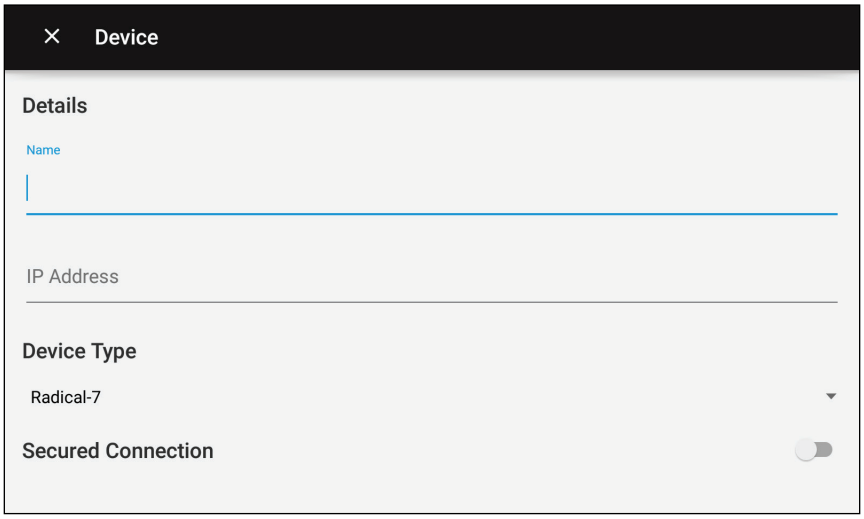
3. The device is disconnected from Kite and the device list will be displayed. To re-connect to the same device or to connect to a different device:
   - Press/select the desired device in the list. See ***Connecting to a Device*** on page 19.
   - If the desired device is not in the list, see ***Adding a Device to Kite*** on page 17.

Modifying/Removing a Device

Modifying a Device

Follow the instructions below to modify device details in Kite.

1. On the device list screen, press/select and hold on the selected device to view the **Device Details** screen.
2. Change the device details as desired.

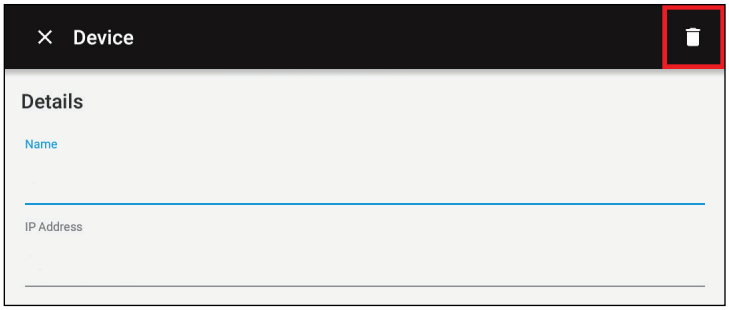


3. When complete, select the check mark at the bottom-right corner of the screen to save the changes and exit the **Device Details** screen to the device list.

Removing a Device

Follow the instructions below to remove a device from Kite.

1. On the device list screen, press/select and hold on the selected device to view the **Device Details** screen.
2. Press/select the trash can icon in the upper-right corner of the screen.



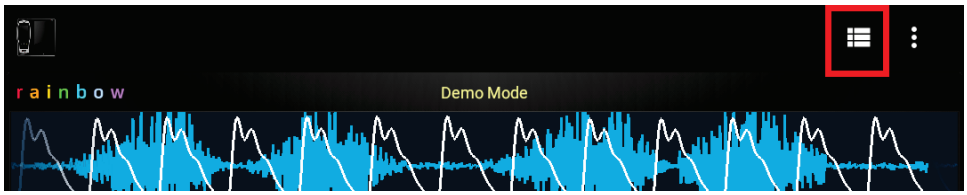
3. When prompted to *Delete Device?*, select **OK** or **Cancel**.
4. When **OK** is selected, the device is removed and Kite returns to the device list screen.

Navigating the Kite Display

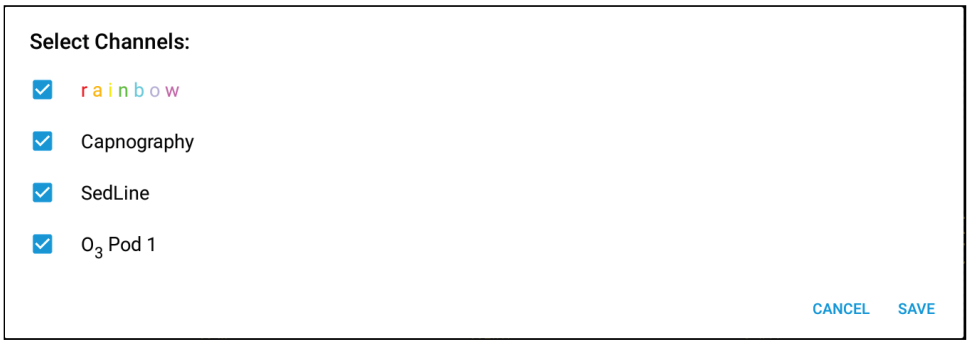
Showing/Hiding Channel Windows

Follow the instructions below to select channels displayed on Kite. Up to four (4) channels can be displayed on Kite. The channels available for selection match those available on the connected device. If the device is not equipped with a certain channel, that channel will not be available as an option.

1. Press/select the channel selection icon in the upper-right corner of the screen.



2. In the **Select Channels** window, press/select the check box next to the channel to activate/deactivate the channel.
3. Press/select **SAVE** to save changes and close the window, or **CANCEL** to close without saving changes.



4. The activated/deactivated channels will appear/disappear on the Kite main screen. Channels appearing on the Kite display will show parameter data in trend view and the well. See ***Customizing Channel Windows*** on page 24 and ***Using Trend View*** on page 23.

Using Trend View

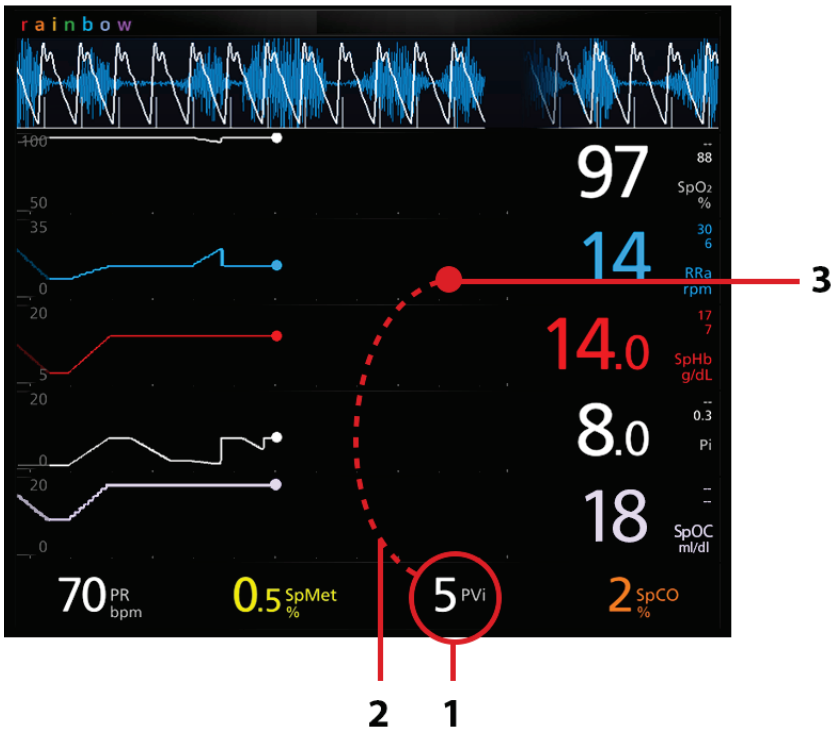
The trend view displays parameter measurement data as a graph of its values over time.

Ref.	Feature	Description
1	*Value Range*	Indicates current viewing of the parameter or measurement.
2	*Trend Graph*	Displays parameter and measurement over a period of time.
3	*Numeric Value*	Indicates current reading of the parameter or measurement.
4	*Alarm Limits*	Indicate high and low alarm limits for the parameter or measurement, if supported.
5	*Parameter or Measurement Label*	Indicates the name of the parameter or measurement.

Customizing Channel Windows

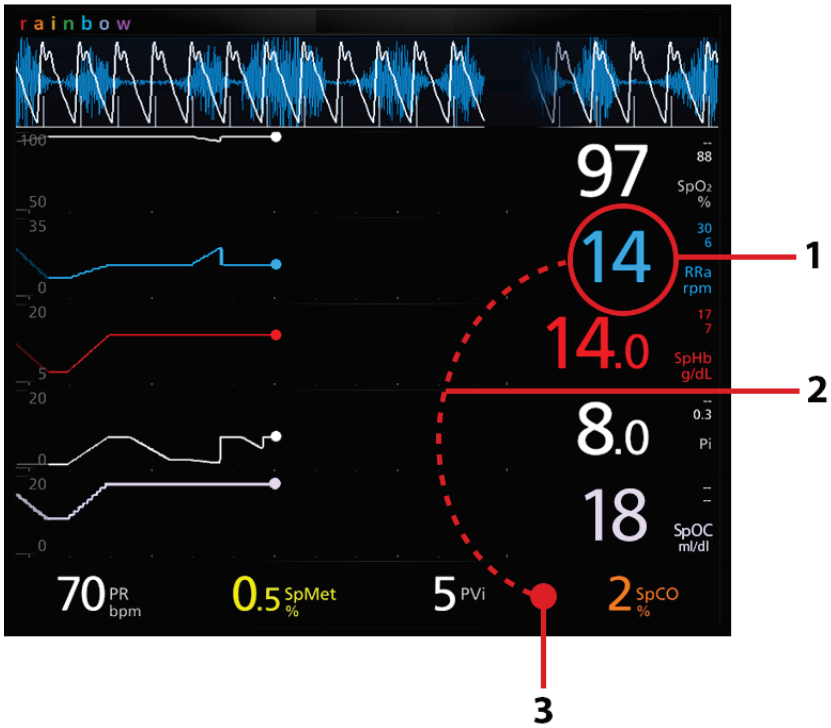
Channel windows can be customized by expanding and minimizing parameters and measurements. When a parameter is minimized, it is only displayed in the well with its numeric value and parameter label. When a parameter is expanded, it will be shown as a trend view. See how to expand and minimize parameters below.

Expanding a Parameter in Trend View



Order	Instruction
Step 1	Press/click and hold the numeric value until it dims.
Step 2	Drag the numeric value over any trend display.
Step 3	Release the numeric value.

Minimizing a Parameter in the Well

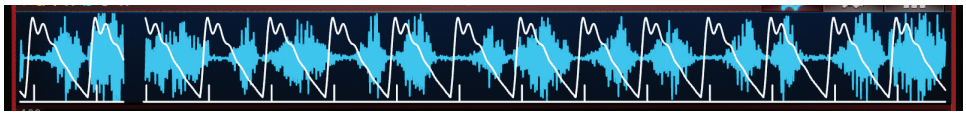


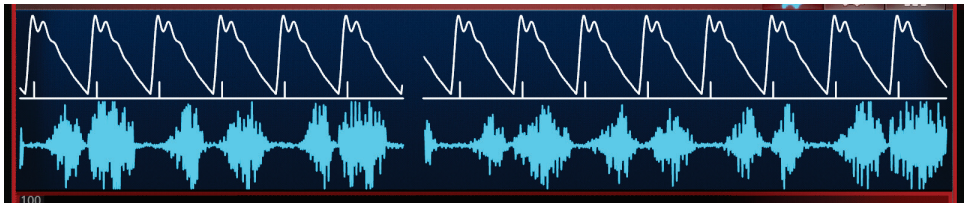
Order	Instruction
Step 1	Press/click and hold the numeric value until it shrinks.
Step 2	Drag the numeric value to the well.
Step 3	Release the numeric value.

Expanding/Collapsing Waveform Displays

Expanding/Collapsing Plethysmographic, Signal IQ, and Acoustic Waveforms

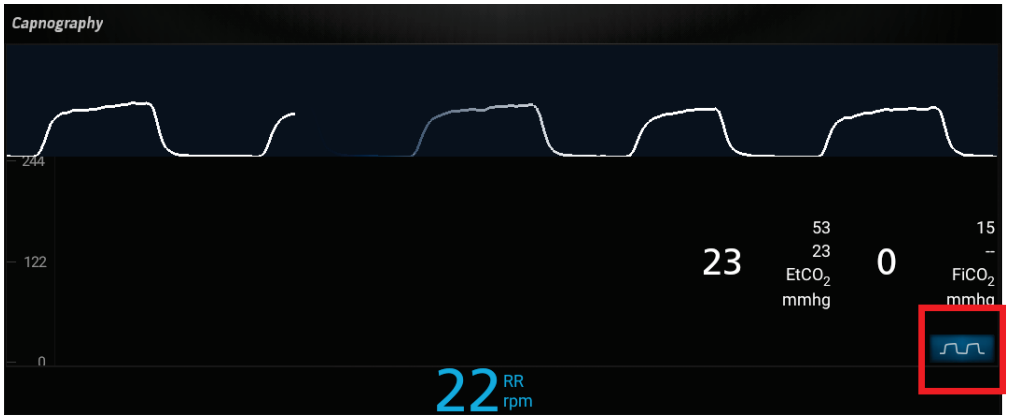
Plethysmographic, Signal IQ, and Acoustic waveforms can be displayed as either combined or separated. Press/click on the waveform to separate or combine waveforms.





Expanding/Collapsing the Capnography Waveform

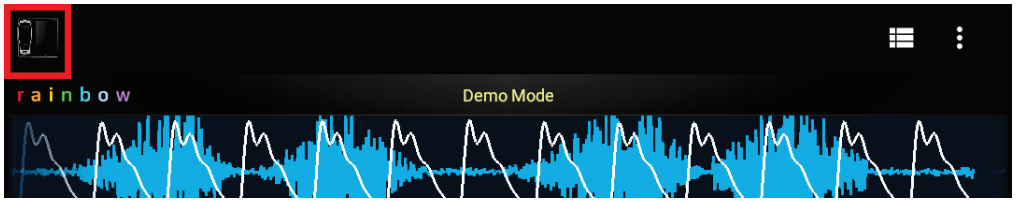
If the capnography channel has been selected, press/select the capnography waveform button to expand/collapse the waveform in the capnography trend view.



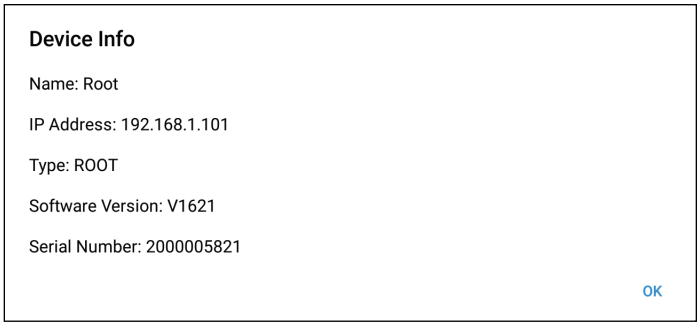
Viewing Device Information

Follow the instructions below to view device information.

1. Press/select the device icon in the upper-left corner of the Kite display screen.



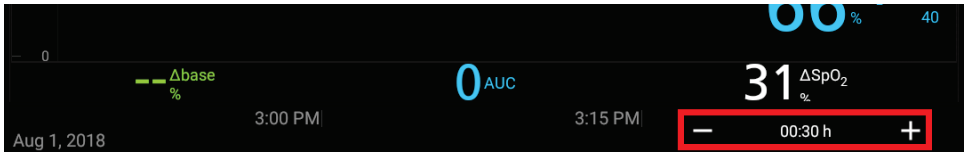
2. The **Device Info** window will appear and display the following information:
   - Device Name
   - Device IP Address
   - Device Type
   - Device Software Version
   - Device Serial Number



3. Press/select **OK** to close the **Device Info** window.

Kite Trend Settings

Press/select the + and - located in the bottom-right corner of the Kite display to change trend settings in Kite. Trend settings configured in Kite do not affect trend settings in a device. To configure trend settings in a device, see the device's operator's manual.



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

Chapter 3: Messages

Messages

Message	Potential Causes	Next Steps
Authentication failed, please try again	• Incorrect Kite pairing key entered.	• Enter the Kite Pairing key displayed on the device.
Please Select a Channel	• A device is connected and displaying, but no channels are selected.	• Select channels to display. See ***Showing/Hiding Channel Windows*** on page 23.
Kite connection is disabled on the instrument	• Device does not have Kite connection enabled.	• Ensure the Kite connection is enabled. Refer to the device's operator's manual to enable the Kite connection.
Please connect a device	• A device is connected with no channels.	• Connect a device with viewable channels. See ***Showing/Hiding Channel Windows*** on page 23.

Chapter 4: Troubleshooting

Troubleshooting Kite

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

Symptom	Potential Causes	Next Steps
Kite cannot connect to device	• Kite and/or device are not connected to a network.	• Ensure both Kite and the device are connected to a network.
	• Kite and device are not on the same network.	• Ensure both Kite and the device are connected to the same network.
	• Device does not have Kite connection enabled.	• Ensure the Kite connection is enabled. Refer to the Operator's Manual for the device to enable the Kite connection.
	• An incorrect IP address for the device is entered into Kite.	• Enter the correct IP for the device. Refer to the Operator's Manual for the device to view the current IP address.
Cannot locate Client Certificate (.bks) when using Secured Connection	• The device does not require a Secured Connection	• Disable the Secured Connection, add the device and attempt to connect the device. See ***Connecting to a Device*** on page 19.
	• The device requires a Secured Connection and a certificate is not loaded on Kite.	• Attempt to locate the Client Certificate (.bks) using the Browse feature of Kite. Contact Masimo Technical Services. See ***Masimo Technical Services*** on page 35.
	• The Client Certificate (.bks) may be located in a different location.	
Forgot login and/or password for Kite	• Login and password are required to access Kite.	• A new user needs to be created. See ***Registering a New User*** on page 13.
Do not have a Key to create a new user	• A Key is required to create a new user (Register).	• Contact Masimo Technical Services. See ***Masimo Technical Services*** on page 35.
Time and date displayed on Kite does not match the Masimo device.	• Time and date setting on the Kite host device is not set to the same as the Masimo device.	• Set the time and date on the Kite host device to the same time and date as the Masimo device. • Refer to the manual for the Kite host device to set the time and date to match the Masimo device.

Chapter 5: Specifications

Kite Host Device

Item	Specification
Operating System	Android 5.1.1 (Lollipop) or above

Kite Symbols

The following symbols may appear on the product or product labeling:

Symbol	Description	Symbol	Description
	Follow instructions for use		Consult instructions for use
	Separate collection for electrical and electronic equipment (WEEE)	REF	Catalog number (model number)
CE	Mark of conformity to European medical device directive 93/42/EEC	EC REP	Authorized representative in the European community
	Recyclable	LOT	Lot code
eIFU indicator	Instructions/Directions for Use/Manuals are available in electronic format @http://www.Masimo.com/TechDocs **Note: eIFU is not available for CE mark countries.**		

Chapter 6: Warranty Information

Cleaning

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

Masimo Technical Services

To contact Masimo Technical Services, refer to the Masimo Technical Services web page:

http://www.masimo.co.uk/company/global-services/technical-services/

Contacting Masimo

Masimo Corporation
52 Discovery
Irvine, California 92618

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

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Appendix A: Compatible Masimo Devices

The following Masimo devices are compatible with Kite:

Device	Minimum Software Level Requirement
Root	v1.5.6.9 or above
Radical-7	v1.5.5.8 or above
Rad-97	v1.1.3.3 or above

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