# Operator's Manual

# Kite<sup>®</sup> Supplemental Display





These operating instructions provide the necessary information for proper operation of all models of the 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.

**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.

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

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Patents: www.masimo.com/patents.htm

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# Contents

About This Manual	5
Product Description, Intended Use and Contraindications	7
Product Description	7
Intended Use	7
Contraindications	7
Safety Information, Warnings and Cautions	9
Safety Warnings and Cautions	9
Performance Warnings and Cautions	9
Cleaning and Service Warnings and Cautions	10
Compliance Warnings and Cautions	10
Chapter 1: Description	11
Overview	11
Chapter 2: Operation	13
Navigating the Kite	13
Add a Device	15
Modify/Remove Device	17
View Device Data	17
Kite Display	20
Disconnect/Change Device	23
Chapter 3: Troubleshooting	25
Troubleshooting Kite	25
Chapter 4: Specifications	27
Kite Host Device	27
Compatible Masimo Devices	27
Chapter 5: Warranty Information	29
Contacting Masimo	29
Index	

# 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™
  - 03®
- 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.

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.

# Chapter 2: Operation

# Navigating the Kite

To operate Kite on the connected display:

1. Select the icon to start Kite.



2. Once Kite starts, the login screen will be displayed. See *Login* on page 13.

# Login

Login to Kite using a username and password credentials.

	<b>S</b> Masimo	
<b>±</b>	USERNAME	
<b></b>	PASSWORD	
	LOGIN	
	Forgot your password? Register.	

- Registration is required to use Kite. To register, see Create New User (Register) on page 14.
- For a forgotten username or password, a new account **must** be created by pressing/selecting *Forgot your password? Register*. The lost or forgotten username or password cannot be recovered.

### Create New User (Register)

To create a new user (register), perform the following procedure:

1. Press/select Forgot your password? Register on the Login screen. See Login on page 13.

	<b>S</b> Masimo
<b>.</b>	USERNAME
<b>a</b>	PASSWORD
	CONFIRM PASSWORD
Ŷ	KEY
	REGISTER
	Already registered? Login.

- 2. Enter a Username.
- 3. Enter a *Password* to be used with this user name.
- 4. Enter the password again in the Confirm Password field.
- 5. Enter MasimoKite7283 (case sensitive) into the Key field.
- 6. Press/select the *Register* button to complete the new user registration.

### Logout

To log out of Kite:

1. While viewing the *Parameter* screen of a particular device, press/select the *Menu* icon in the upper-right corner of the screen.

Q		III :
rainbow	SpO <sub>2</sub> Low < 88	

2. Select Disconnect.



3. When the *Device* screen displays, press/select the *Menu* located at upper-right corner of the screen.

🕽 Kite		:
	Radical-7 Rm 12 172.16.97.50	
	Root NIBPT Rm 7 172.16.97.26	

4. Select Logout.



5. After logging out, the *Login* screen is displayed. See *Login* on page 13.

## Add a Device

The device to be added must be on the same network (wired or wireless) as the Kite host device.

**Note:** If the device is not on the same network, it can be added, but Kite will not be able to connect it to view the parameters monitored by that device until both Kite and the device are connected to the same network.

To add a new device, perform the following procedure:

1. Press/select the Add Device button, located at the top of the Device screen.



2. The device's Details screen displays.

× Device	
Details	
Name	
IP Address	
Device Type	
Radical-7	•
Secured Connection	

- 3. Give the device a desired label or identifier in the *Name* field.
- 4. Enter the IP address from the device. If using a Wi-Fi connection, use the Wi-Fi IP address; if using an Ethernet connection, use the Ethernet IP address. Refer to the Operator's Manual for the device for instructions on locating the IP address.
- 5. Select the model of the device to be connected from the Device Type drop-down menu (Radical-7 shown in this example).
- 6. If a Secured Connection is needed, see *Using a Secured Connection* on page 16.
- 7. If a Secured Connection is not used, press/select the check mark in the bottom-right corner of the screen to add the device.



П

- 8. The device will be added to the *Device* screen.
- 9. To view the device on Kite, see *View Device Data* on page 17.

## Using a Secured Connection

To add a Secured Connection for a device, perform the following procedure:

1. After selecting the Device type, enable Secured Connection.

Secured Connection	
Client Certificate (.bks) /document/prmary.bownload/client.bks	$\otimes$
Password	
•••••	

 Press/select Client Certificate (.bks) and use the Browse function of Kite to select the .bks file. Note: The exact location of the file may vary.



- 3. Enter the password provided by Masimo.
- 4. Press/select the check mark in the bottom-right corner of the screen to add the device.



- 5. The device is added to the *Device* screen.
- 6. To view the device on Kite, see *View Device Data* on page 17.

## Modify/Remove Device

To modify device details or remove a device from Kite, from the Device screen, press/select and hold on the selected device to view the Device Details screen. See **View Device Data** on page 17.

#### **Modify Device Details**

- 1. Change the device details as desired.
- 2. When complete, select the check mark at the lower right corner of the screen to save the changes and exit the device *Details* screen and return to the *Device Screen*.

#### **Remove a Device**

- 1. While viewing the device *Details* screen, select the trash can icon in the upper right corner of the screen.
- 2. When prompted to "Delete Device?", select OK or Cancel.
- 3. When OK is selected, the device is removed and Kite returns to the Device Screen.

### View Device Data

Available devices setup to display on Kite appear on the Device screen.

If a device is not available, add a device by pressing/selecting the *Add Device* button , located at the bottom right corner of the *Device* screen. See *Add a Device* on page 15.



- 1. Press/select the device to connect.
- 2. If the device is successfully connected to the same network as Kite, the device parameters display. See Kite Display.
  - If Kite displays "Please enter the key displayed on the device" before connecting, see Pairing Key on page 18.
  - If the device cannot connect, Kite continues to attempt a connection until Cancel is pressed/selected.

# Pairing Key

If the device requests a pairing key to connect to Kite, perform the following procedure:

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 the device.

Root NIBPT Rm 7 172.16.97.26	×
• • • •	
Please enter the key displayed on the device	
ENTER	

2. The *Kite Pairing* key displays on the device screen. This is the number to enter on Kite.

KITE PAIRING
4780
Please enter this key in the Kite client.
Dismiss

**Note:** If the Kite pairing key window is closed, go to the Kite settings on the device to view the paring key. Refer to the device Operator's Manual.

Ð	KITE		
enable Kite connection	ON		
pairing key		4780	

3. Enter the Kite pairing key on Kite screen and press/select Enter.

Root NIBPT Rm 7 172.16.97.26	×
• • • •	
Please enter the key displayed on the device	
ENTER	

**Note:** If the incorrect pairing key is entered, a message displays indicating *Authentication failed*, *please try again*. There is no limit to the number of times an incorrect pairing key can be entered.

Root NIBPT Rm 7 172.16.97.26	×
• • • •	
Authentication failed, please try again	
ENTER	

# Kite Display

While viewing device parameters on Kite, various components of the display can be manipulated. The following image and table outlines the Kite display components.

Note: Root with Capnography and SedLine is shown in the example.



No.	Item	Description
1	Device	Identifies the device whose parameters are currently displayed. Press/select to view device info. See <i>Device Information</i> on page 21.
2	Channel Menu	Select available channels to display. See <b>Channel Menu</b> on page 22.
3	Menu	Disconnect from the current device or view Kite software version.
4	Alarm / Message Display	Displays active alarms and messages.
5	Waveform	Displays Pleth + Sig IQ and Acoustic waveforms. See <b>Waveforms</b> on page 22.
6	Main Parameter Window	Displays device parameters with trend views. See <b>Parameter Display</b> on page 22.
7	Well	Displays device parameters in smaller font. See <b>Parameter Display</b> on page 22.
8	Channel Display	Displays additional channels as selected in the <i>Channel Menu</i> . See <b>Channel Menu</b> on page 22.
9	Trend Data Time Interval	Allows trend data time intervals to be changed. See <b>Trend Data</b> on page 22.
10	Date	Displays the date and timestamp of the data being viewed.

# Device Information

Information about the connected device currently displaying parameters on Kite is shown in the Device Info window. Press/select OK to close.



# Channel Menu

The *Channel Menu* allows available channels to be selected for display. 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 an option in the *Channel Menu*.

**Note:** Up to four (4) channels can be displayed at one time on Kite.



**Example:** If only rainbow® is available on the connected device, such as when viewing a stand-alone Radical-7 connected to a dock, only Rainbow is available as an option. If the device is capable and connected to a SedLine module, then SedLine also appears as a selection.

# Waveforms

Waveforms display either combined (Pleth + Sig IQ + Acoustic) or separated into Pleth + Sig IQ and Acoustic. Press/select the waveform to separate or combine.





# Parameter Display

Parameters displayed in the main parameter window are directly related to the channel selection. See **Channel Menu** on page 22. Below the main parameter window is the well. All parameters not displayed in the main parameter window, are displayed in the well.

• To add a parameter from the well to the main parameter window, press/select and hold on the parameter and drag it to the main window.

• To remove a parameter from the main parameter window back to the well, press/select and hold on the parameter and drag it to the well. **Note:** This information applies to all channels selected and displayed.

# Trend Data

Press/select the + and - located at the lower right corner of the display to change trend data time interval. Default is 1:00 h (hour).

# Disconnect/Change Device

To disconnect from the current device or to view parameters from a different device:

1. While viewing the parameter screen, open the *Menu* in the upper right corner of the screen.



2. Select Disconnect.



3. The Device Screen displays. Select the same or different device to view parameters. See View Device Data on page 17.

# Troubleshooting Kite

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

Symptom	Potential Causes	Next Steps	
Kite cannot connect to device	<ul> <li>Kite and/or device are not connected to a network.</li> </ul>	• Ensure both Kite and the device are connected to a network.	
	<ul> <li>Kite and device are not on the same network.</li> </ul>	• Ensure both Kite and the device are connected to the same network.	
	<ul> <li>Device does not have Kite connection enabled (Root).</li> </ul>	<ul> <li>Ensure the Kite connection is enabled. Refer to the Operator's Manual for the device to enable the Kite connection.</li> </ul>	
	<ul> <li>An incorrect IP address for the device is entered into Kite.</li> </ul>	<ul> <li>Enter the correct IP for the device. Refer to the Operator's Manual for the device to view the current IP address.</li> </ul>	
"Authentication failed, please try again" message displays	<ul> <li>Incorrect Kite pairing key entered.</li> </ul>	• Enter the Kite Pairing key displayed on the device.	
"Please Select a Channel" message displays	<ul> <li>A device is connected and displaying, but no channels are selected.</li> </ul>	<ul> <li>Select channels to display. See Channel Menu on page 22.</li> </ul>	
"Kite connection is disabled on the instrument" message displays	<ul> <li>Device does not have Kite connection enabled (Root).</li> </ul>	<ul> <li>Ensure the Kite connection is enabled. Refer to the Operator's Manual for the device to enable the Kite connection.</li> </ul>	
"Please connect a device" message displays	A device is connected with no channels.	<ul> <li>Connect a device with viewable channels. See Channel Menu on page 22.</li> </ul>	
Cannot locate Client Certificate (.bks) when using Secured	<ul> <li>The device does not require a Secured Connection</li> </ul>	• Disable the Secured Connection, add the device and attempt to connect the device. See <i>View Device Data</i> on page 17.	
Connection	<ul> <li>The device requires a Secured Connection and a certificate is not loaded on Kite.</li> </ul>	Attempt to locate the Client Certificate (.bks) using the     Browco facture of Kite, Centrat Maximo Service, See	
	<ul> <li>The Client Certificate (.bks) may be located in a different location.</li> </ul>	Contacting Masimo on page 29.	
Forgot login and/or password for Kite	<ul> <li>Login and password are required to access Kite.</li> </ul>	<ul> <li>A new user needs to be created. See Create New User (Register) on page 14.</li> </ul>	
Do not have a Key to create a new user	<ul> <li>A Key is required to create a new user (Register).</li> </ul>	<ul> <li>Contact Masimo Service. See Contacting Masimo on page 29.</li> </ul>	
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.	<ul> <li>Set the time and date on the Kite host device to the same time and date as the Masimo device.</li> <li>Refer to the manual for the Kite host device to set the time and date to match the Masimo device.</li> </ul>	

# Chapter 4: Specifications

# Kite Host Device

Item	Specification
Operating System	Android 5.1.1 (Lollipop) or above

# 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

# 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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No warranty applies to any Product provided to Purchaser for which Masimo, or its authorized distributor, is not paid; and these Products are provided AS-IS without warranty.

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# Index

### A

About This Manual • 5 Add a Device • 15, 17

### С

Channel Menu • 21, 22, 25 Chapter 1 Description • 11 Chapter 2 Operation • 13 Chapter 3 Troubleshooting • 25 Chapter 4 Specifications • 27 Chapter 5 Warranty Information • 29 Cleaning and Service Warnings and Cautions • 10 Compatible Masimo Devices • 27 Compliance Warnings and Cautions • 10 Contacting Masimo • 25, 29 Contraindications • 7 Create New User (Register) • 13, 14, 25

### D

Device Information • 21 Disconnect/Change Device • 23

### Е

Exclusions • 29

#### I

Intended Use • 7

### Κ

Kite Display • 20 Kite Host Device • 27

#### L

Limitation of Warranty • 29 Limited Warranty • 29 Login • 13, 14, 15 Logout • 14

#### Μ

Modify/Remove Device • 17

#### Ν

Navigating the Kite • 13

### 0

Overview • 11

### Ρ

Pairing Key • 17, 18 Parameter Display • 21, 22 Performance Warnings and Cautions • 9 Product Description • 7 Product Description, Intended Use and Contraindications • 7

### R

Restrictions • 30

### S

Safety Information, Warnings and Cautions • 9 Safety Warnings and Cautions • 9 Sales & End-User License Agreement • 29

### Τ

Trend Data • 21, 22 Troubleshooting Kite • 25

### U

Using a Secured Connection • 16

### V

View Device Data • 16, 17, 23, 25

#### W

Waveforms • 21, 22



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