



RescueNet[®] Live User Guide

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0123

How to Use This Manual

The ZOLL RescueNet[®] Live User Guide provides information for the safe, effective use of the product. It is important that you read and understand all the information contained in this guide.

RescueNet Live is available for use with patients monitored by ZOLL X Series Advanced[®], X Series[®], Propaq[®] M and Propaq[®] MD devices. RescueNet Live users should be thoroughly familiar with the use of each device and the information contained in their respective *Operator's Guide*.

Intended Use

RescueNet Live is intended for use by trained medical personnel who are familiar with basic monitoring, vital sign assessment, and emergency cardiac care in order to remotely view patient and device data transmitted from connected devices. The information streamed to RescueNet Live allows the consulting clinician to make decisions on patient care supplemental to the clinician treating the patient.

Important: The remote clinician should not use RescueNet Live as a primary diagnostic device, but instead use the data to consult with the clinician at the patientside.

Conventions

This guide uses the following conventions:

Objects of actions in procedures appear in **bold** typeface. Note the following example:

Select the **Update** button.

Warning! **Warning statements alert you to conditions or actions that can result in personal injury or death.**

Caution Caution statements alert you to conditions or actions that can result in damage to the device.

Updates

An issue or revision date for this manual is shown on the front cover. If more than three years have elapsed since this date, contact ZOLL Medical Corporation to determine if additional product information updates are available.

All users should carefully review each manual update to understand its significance and then file it in its appropriate section within this manual for subsequent reference.

Product documentation is available through the ZOLL website at www.zoll.com. From the Products menu, choose Product Manuals.

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Chapter 1

General Information

This chapter provides a general overview of RescueNet Live. It includes the following sections:

- Overview2
- RescueNet Live Applications.....2
- Troubleshooting3

Overview

RescueNet Live provides remote viewing of near-real time waveforms, numerics and alarms for patients being monitored by X Series and Propaq devices. Up to 4 waveforms and 8 physiologic parameters are streamed from connected devices to the RescueNet Live application running on a laptop, PC or tablet. Each point of care device collects patient data and transmits it to the RescueNet Live application through either a network or cellular connection.

Important: The remote clinician should not use RescueNet Live as a primary diagnostic device, but instead use the data to consult with the clinician at the patientside. Always refer to your primary monitoring device for current real-time data.

RescueNet Live Applications

Two versions of RescueNet Live are available; a Web Application and a Viewing Application. Each version can be used independently of one another.

RescueNet Live Web Application

The RescueNet Web Application allows you to view waveforms and physiologic data from connected devices. Connected devices send data to a central server, where users can launch the Web Application to view data from devices of their choice. Up to 6 different Web Application users can simultaneously view the same connected device stream. The information streamed to the Web Application allows a clinician to make decisions on patient care supplemental to the clinician on scene with the patient.

The Web Application allows you to:

- View near-real time waveforms and physiological parameters received from devices connected to RescueNet Live.
- View the streaming data from up to 6 connected devices simultaneously in a single gallery view.
- View a full display of patient data from a single connected device in detail.
- View patient alarms and equipment alerts that have been detected by each of the connected devices.
- Retrospectively review data from any point in the streaming session.
- View patient demographic and device information.
- View snapshots and trend reports.

See Chapter 2, "Web Application" information on using the RescueNet Live Web Application.

RescueNet Live Viewing Application

The RescueNet Live Viewing Application serves as an alternative secondary display for viewing near-real time waveforms and numerics from a single connected device. With the Viewing Application data streams over Wi-Fi to RescueNet Live running on a laptop or tablet. See Chapter 3, "Viewing Application" for information on using the RescueNet Live Viewing application.







Troubleshooting

Streaming Data Page Does not Show Data

If the RescueNet Live monitor goes blank, or if the quality is intermittent, poor, or suspicious, the remote clinician should defer to the clinician next to the device. After evaluating the patient, the clinician should check the connected device for power and connectivity.

Check the following:

1. Verify that the device is powered on.
2. At the device, verify that the device recognizes that it has a working connection to the network by observing the following icons:

This Symbol	Indicates
	The device is streaming data. Press this icon to stop streaming.
	The device is not streaming data. Press this icon to start streaming.
	Wireless connectivity is active
	Wireless connectivity is inactive. Selected network cannot connect due to incorrect configuration or weak/no signal strength
	A working wired connection – an adapter is connected and the connection is operating
	An Ethernet adapter is connected but the connection is not operating

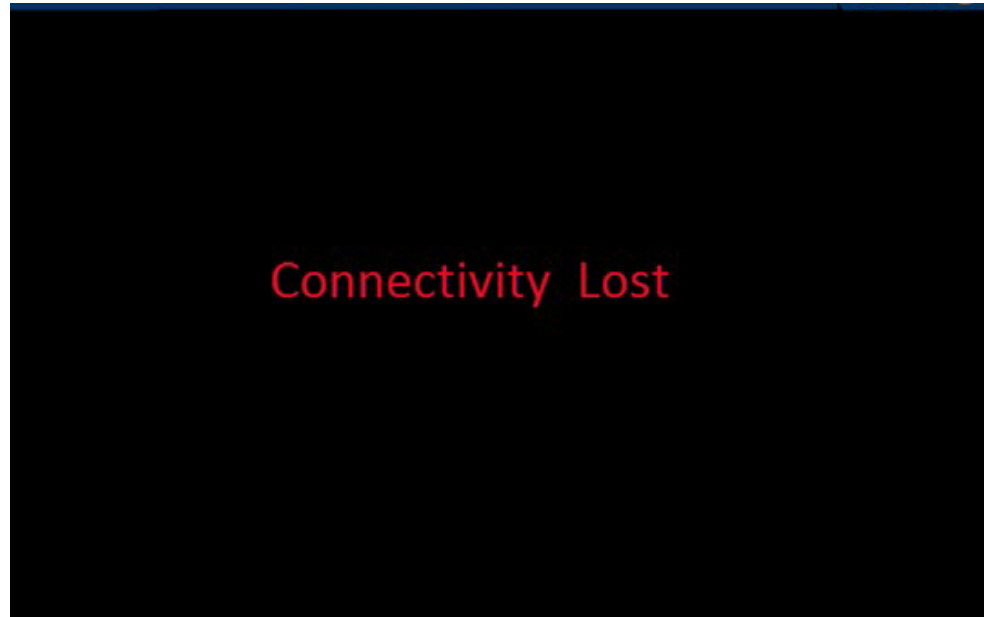
3. Verify that the device is connected to RescueNet Live by observing the indicator light on the top of the device. When the device successfully connects to RescueNet Live, this light is green and should be constant.
4. If you have verified or corrected the above conditions and the RescueNet Live monitor remains blank, call ZOLL Customer Service.

Bad Data Quality

RescueNet Live relies on good cellular quality. If the device is in a vehicle that is traveling in and out of cellular networks, the data quality could be poor or intermittent. Bad data quality will disrupt streaming and result in poorly displayed waveform traces.

Connectivity Lost

If the message “Connectivity Lost” displays, the device is no longer communicating with RescueNet Live. Check the connected device.



If the RescueNet Live window goes blank or data quality is intermittent, poor or suspicious defer to clinician next to the device. Do not use RescueNet Live as a primary diagnostic device but instead use the information to consult with the clinician at patient side.

Operational Notes

When the monitoring device saves a 12-Lead or Monitor Snapshot, the system may briefly interrupt the waveform stream, which results in the display of dashed lines in place of ECG data, or a message that the stream dropped.

Chapter 2

Web Application

This chapter describes how to use the RescueNet Live Web Application. It includes the following sections:

- Overview 6
- Accessing the RescueNet Live Web Application 7
- The Gallery View 9
- The Web Application Patient Display 12

Overview

The RescueNet Live Web Application allows you to view patient physiological data streamed from connected devices to a remote laptop, tablet or PC. Connected devices send data to a central server, where users can launch the Web Application to view data from devices of their choice. Up to 6 different Web Application users can simultaneously view the same connected device stream. The information streamed to the Web Application allows a clinician to make decisions on patient care supplemental to the clinician on scene with the patient.

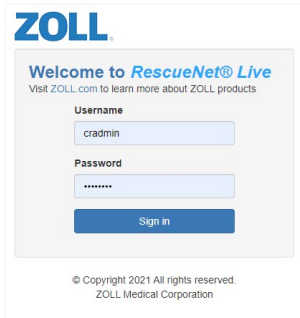
The RescueNet Live Web Application allows you to:

- View near-real time waveforms and physiological parameters received from devices connected to RescueNet Live.
- View the streaming data from up to 6 connected devices simultaneously in a single gallery view.
- View a full display of patient data from a single connected device in detail.
- View patient alarms and equipment alerts that have been detected by each of the connected monitoring devices.
- Retrospectively review data from any point in the streaming session.
- View patient demographic and device information.
- View snapshots and trend reports.

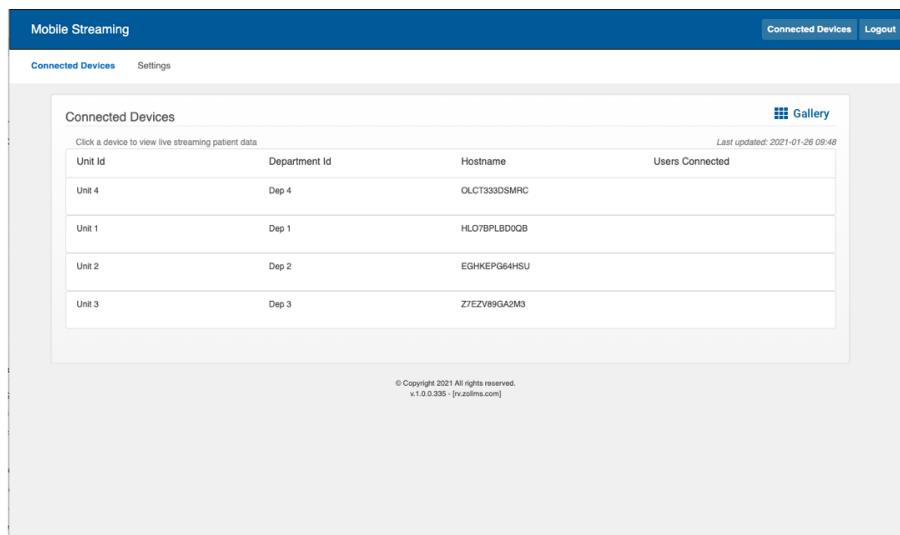
Accessing the RescueNet Live Web Application

To access to the RescueNet Live Web Application:

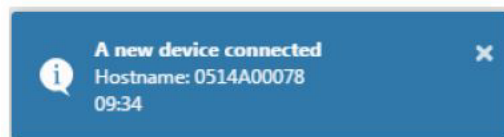
1. Type the RescueNet Live URL into your browser's address bar and press **Enter**. The RescueNet Live Login screen displays.



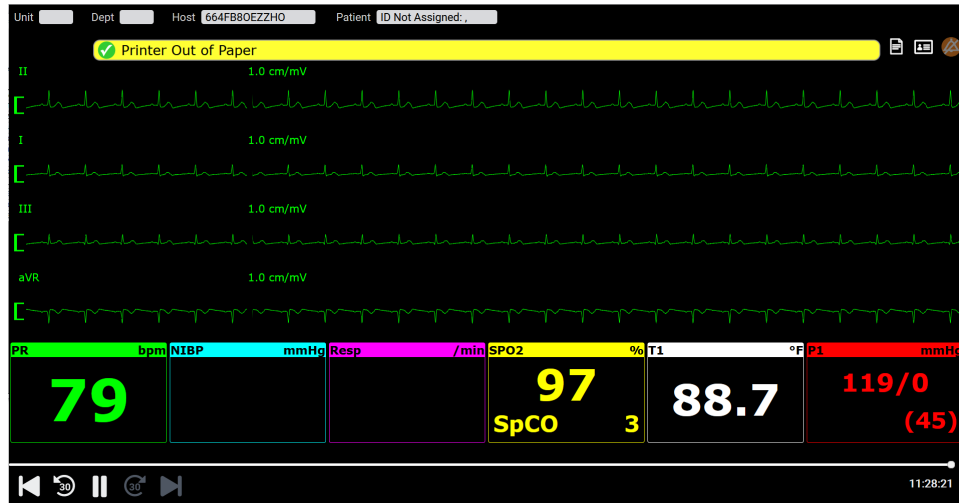
2. Establish a connection to the RescueNet Live Server by providing a Username and Password on the Login page then selecting **Sign in**. The Connected Devices page displays with a list of the currently connected devices and the users currently viewing data for those devices.



Note: The Connected Devices page is dynamic and updates as devices connect and disconnect. In the event that a new device connects to RescueNet Live, the system displays a notification in the lower right corner of the Connected Devices page. This is an informational message only and will disappear after a short period.



- If you would like to view a full patient display of streaming data from a single device in detail, select the appropriate row on the Connected Devices page. A Patient Display window opens in a new tab that with the patient data associated with the selected device. See “The Web Application Patient Display” on page 12 for information on using the RescueNet Live Patient Display.



- If you would like to see a gallery of up to 6 currently connected devices, select **Gallery** on the Connected Devices page. A new tab opens with a window that displays up to 6 panels of connected devices. See “The Gallery View” on page 9 for information on using the RescueNet Live Gallery view.

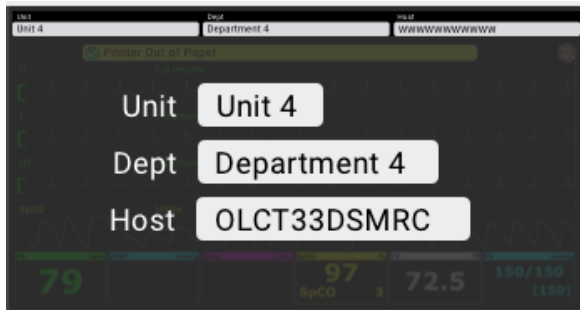


The Gallery View

The Gallery page allows you to view panels of streaming data from up to 6 connected devices simultaneously. The Gallery view populates with the first 6 devices on the Connected Device page list.



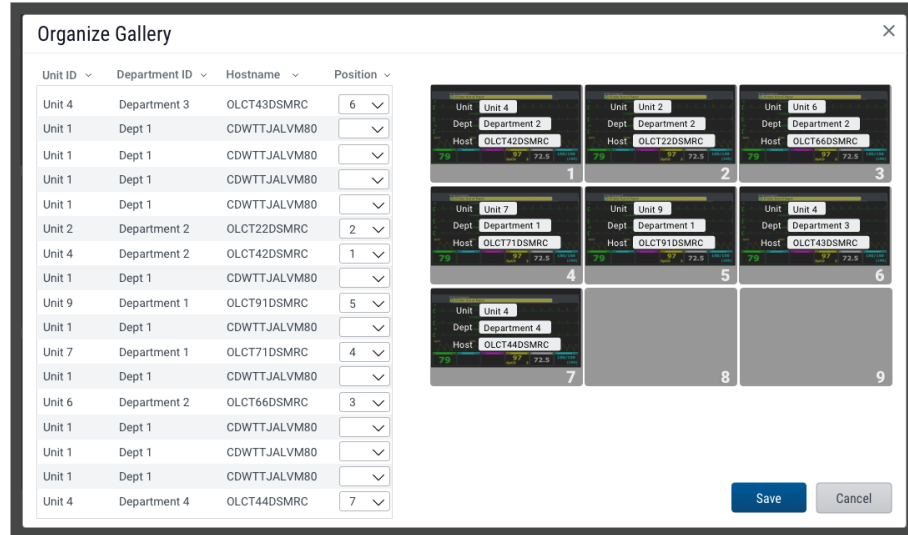
To view identifying information for a particular device, hover over the appropriate panel to reveal the Unit, Department and Host name for the associated device.



Organizing the Gallery Display

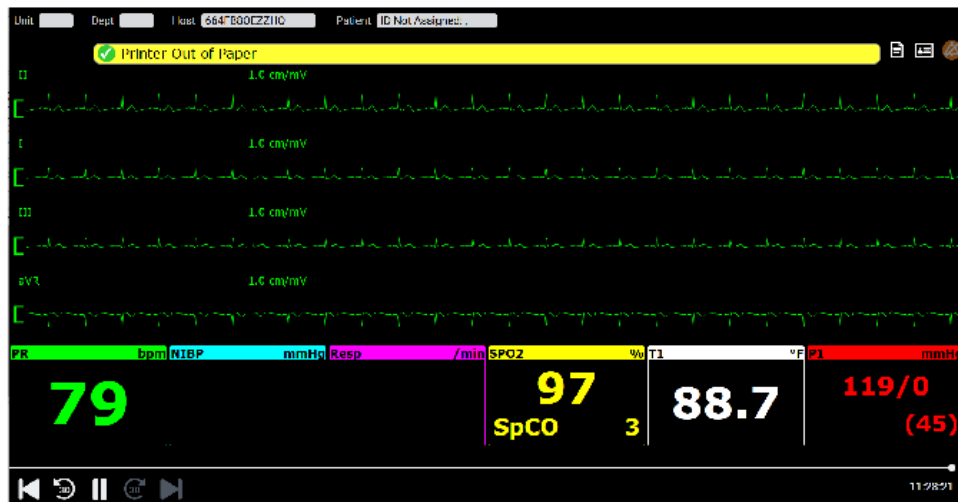
To organize the devices that display in the Gallery panels:

1. Select **Organize** on the top right of the Gallery page. The Organize Gallery page displays with panel positions identified in numerical order from left to right, top to bottom.



2. To assign or change the panels displayed in the Gallery, select the **Position** drop down arrow next to the appropriate device and select the number that corresponds to the desired panel.

Note: You can explicitly have a panel remain empty (blank) by selecting the **Position** drop down arrow and choosing the blank space above position 1.
3. Repeat Step 2 above as necessary to assign additional devices to panels.
4. When you are done assigning devices to panels, select the **Save** button to confirm your choices or the **Cancel** button to discard changes and return to the Gallery page.
5. If you would like to view streaming data from a single device, in the Gallery page select the panel that corresponds to that device. A Patient Display window opens with the patient data associated with that device.



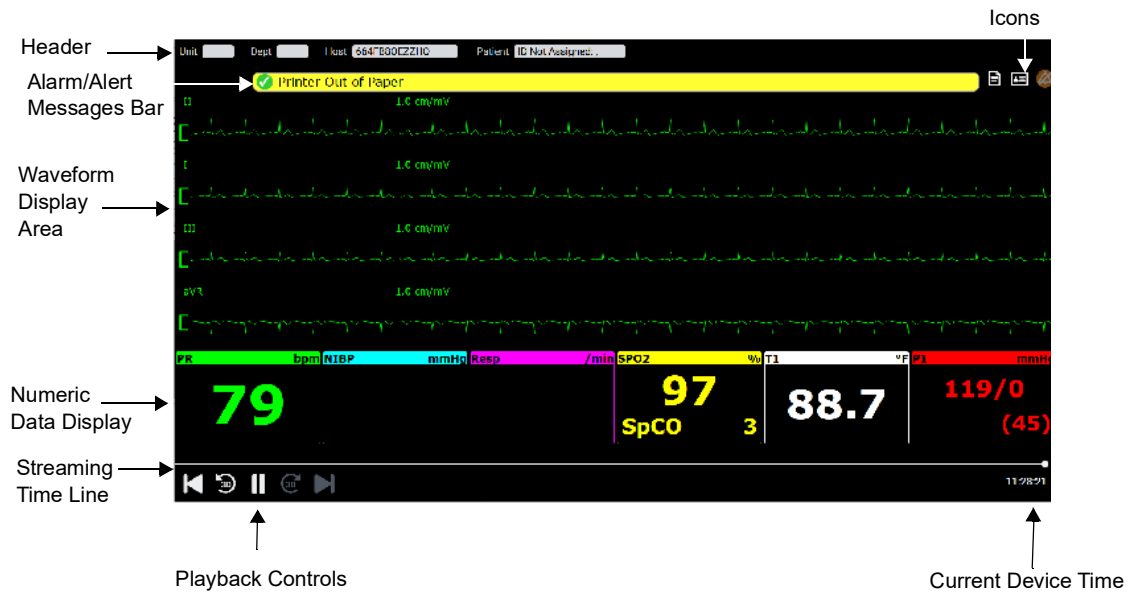
Notes on Gallery Behavior

- No alarm notifications sound while viewing the Gallery.
Note: If you have other Patient Display windows open while viewing the Gallery, alarm notification from those devices sound.
- When you assign a device to a panel that is already occupied, the RescueNet Live system replaces the stream with the new device.
- If there are empty panels on the Gallery page and additional streaming devices are subsequently connected, the system automatically populates the empty panels with the new devices in the order in which the devices are connected.
- The RescueNet Live system only auto-populates a panel once.
- If the Gallery panels are full and more devices connect, those devices do not display in the Gallery. The newly connected devices are available, however, in the device list in the Organize Gallery window where you can assign them to panels if desired.




The Web Application Patient Display

The information that appears on the Web Application Patient Display is similar to the monitoring device display and includes the following:

- Unit assignment, Department and patient information
- Icons
- Alarm/status messages
- Waveform display
- Playback controls for retrospective viewing of patient data from any point in the current streaming cycle.



Icons

Icon	Description
	<p>Create Reports icon. Allows you to create PDF reports that you can view, save, or print. You can choose the following reports:</p> <ul style="list-style-type: none"> • Trends • 12-Lead 3x4 Report • 12-Lead Full Report • Snapshot
	<p>View Patient Demographics icon. Provides a read-only view of patient demographic information for the current device. You can only change patient demographic information on the device.</p>
	<p>Alert pause icon. Use to temporarily pause the RescueNet Live alert tone. Pausing the RescueNet Live alert tone does not clear or pause alarms on the monitoring device.</p>

Header

The Header appears on the top of the RescueNet Live Patient Display. It identifies the current patient for the connected device (Patient ID, Last Name, First Name, Middle Name, Age, and Sex if available), and displays the connected device Host name, Department and Unit ID.

Waveform Display

The waveform display section displays 4 waveform traces currently shown on the connected device. The waveform source, position on the page, and scale come from the connected device. Adjust waveform settings on the device.

Numeric Data Display

The bottom of the Patient Display window provides numeric data for up to eight physiological parameters. The displayed parameters are those that are currently configured to display on the device.

The numeric labels, units of measure, and colors are the same as on the connected device. You can make adjustments to the parameter settings on the connected device.

Note: FiCO₂ numeric data is not available for display in RescueNet Live. RescueNet Live, however, provides an alert tone when an FiCO₂ alarm condition exists on the device.

Alarm and Alert Notifications

RescueNet Live notifies you to patient alarms, technical alerts, and equipment status messages detected by the monitoring device. The Alarm/Alert Message bar on the top of the Patient Display window displays the 12 most recent status and alarm messages generated by the device.



Each status and alarm message displays in the message bar individually for four seconds in the order provided by the device. Moving your cursor over the message bar provides a list of the 12 most recent status messages.

When a patient's vital signs measurements trigger an alarm, RescueNet Live sounds an alert tone (two beeps repeated every 15 second). You can temporarily pause the RescueNet Live alert tone for 4 minutes by selecting the **Alert Pause** icon (🔕). Visual alarm indicators continue to display after selecting **Alert Pause**.

Notes:

- Only the clinician working at the patient bedside can clear the cause of a status message.
- Selecting the **Alert Pause** icon does not clear or silence alarms on the connected devices. Alarms can *only* be cleared directly on the device.
- If the clinician does not clear the alert/alarm on the device and you paused the RescueNet Live alert tone, the RescueNet Live alert tone resumes and the Alert Pause icon flashes within four minutes.
- If a *new* alert/alarm occurs on the connected device after you select the **Alert Pause** icon, the alert tone sounds again and continues until either you suspend the alert tone again by selecting the **Alert Pause** icon or the condition is cleared on the device.
- The sound on your computer must be turned on (not muted) to receive alert tones.

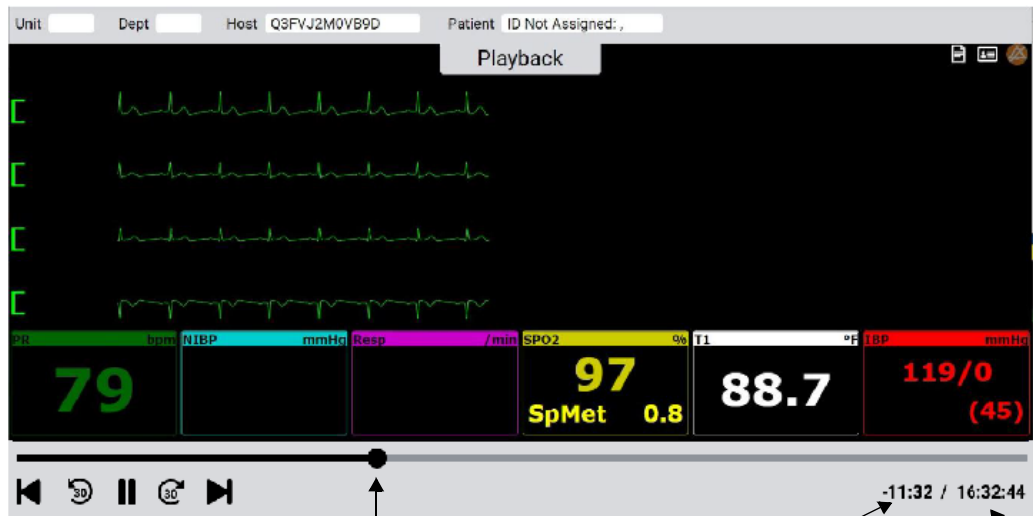
Playback

The RescueNet Live Patient Display includes a Playback feature that allows you to review patient waveform and numeric data from any point in the current streaming cycle. On the bottom of the Patient Display are Playback controls that enable to easily navigate to a time in the streaming cycle.

When in Playback mode:

- RescueNet Live displays the word Playback on top of the Patient Display to indicate you are no longer viewing the active streaming data.
- Playback controls display with a gray background.
- The alarm message bar is not available.
- RescueNet Live indicates the active streaming time as well as the time associated with data being viewed in Playback.

See the table below for information on using the RescueNet Live Playback feature.



Playback Controls








Streaming Time Line
Scrollbar. The dot
identifies the time
associated with the
data being viewed.

Negative offset
time. Identifies
how far back in the
past you are for the
data you are
viewing.

Identifies the time on
the for the data you are
viewing.

Using Playback

The table below describes how to use the RescueNet Live Playback feature.

If you would like to	Do this....
Pause the display of streaming data.	Select the Pause icon (). Waveforms and parameter values stop at the current point in time and the Pause icon changes to the Play icon (). If you would like to see the historical data progress second-by-second on the Patient Display, select the Play icon ().
Review waveform data for a specific time in the data stream.	Move your cursor over the streaming time line to reveal points in the data stream then select the desired time. RescueNet Live displays the data associated with the selected time interval. Note: Alternatively, you can select and drag the time line dot to your desired time in the streaming cycle.
Review waveform data from the beginning of the stream.	Select the Go to Beginning icon (). RescueNet Live displays the data associated with the start of the current streaming cycle.
Go 30 seconds back in the streaming data.	Select the Back 30 Seconds icon ().
Go 30 seconds forward in the streaming data.	Select the Forward 30 Seconds icon ().
Return to viewing the active (live) streaming data.	Select the Live icon (). RescueNet Live resumes streaming patient's near-real time waveforms and numerics for the current device.

Reports

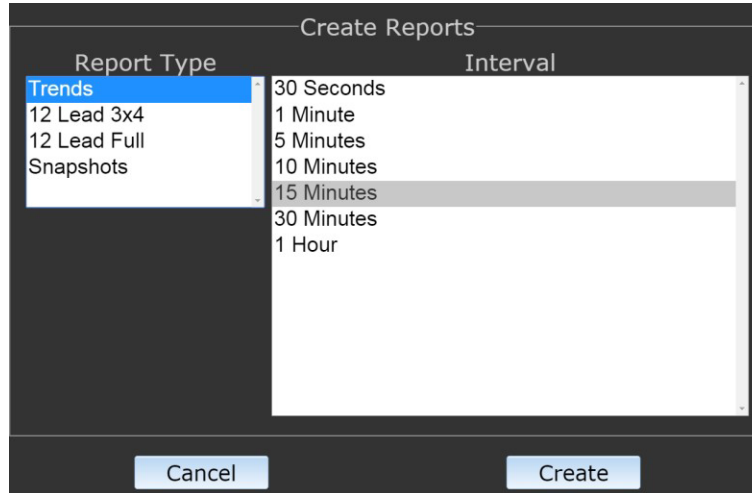
You can view, download, and print the following reports from the RescueNet Live Web Application Patient Display. The following reports are available:

Report	Description
Trends Summary	Displays a Trends Summary Report in a time interval you specify. For more information, "Trends Summary Report" on page 18.
12-Lead 3x4	<p>12-Lead reports are only available if a 12-Lead report exists on the connected device. The 12-Lead 3x4 report provides one page of acquired 12-Lead data per lead based on the current connected device configuration. The 12-Lead 3x4 contains 10 full seconds of 12-Lead data for a focus lead you select. The other 12-Lead waveforms display 2.5 seconds of data. 12-Lead reports include patient information, 12-Lead analysis and waveform data for all 12 acquired leads. The report prints in the 12-Lead format currently specified on the device. When a user configures the device for a 2x6 report, the RescueNet Live 12-Lead 3x4 report will be a 3x4 staggered report. For more information, see "12-Lead 3x4 Report" on page 19.</p> <p>For information on 12-Lead print formats, see your appropriate device <i>Operator's Guide</i>.</p>
12-Lead Full	<p>12-Lead reports are only available if a 12-Lead report exists on the connected device. The 12-Lead Full report contains 10 seconds of data for all 12-Lead captures that you select. You can select from up to 32 of the last saved 12-Leads. 12-Lead reports include patient information, 12-Lead analysis and waveform data for all 12 acquired leads. For more information, see "12-Lead Full Report" on page 20</p>
Snapshot	<p>If the snapshot was created by pressing the Snapshot button on the device, the Snapshot report contains 24 seconds of data.</p> <p>If the snapshot was created as a result of an event such as pacing, provided treatment, or administered shock, the Snapshot report contains 15 seconds of data. For more information, see "Snapshot Report" on page 21.</p>

Trends Summary Report

To create a Trends Summary Report:

1. On the upper right-hand side of the RescueNet Live Patient Display page, select the **Create Reports** icon (📄). The Create Reports dialog box displays with a list of available reports.

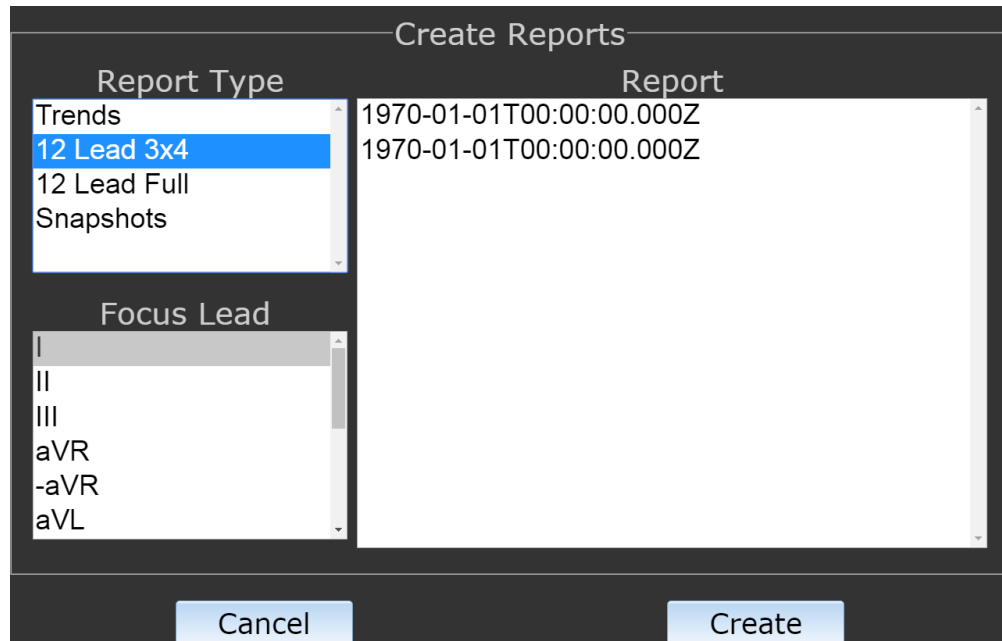


2. In the Report Type field select **Trends**.
3. In the Interval field select the desired time interval.
4. Select **Create** button. The Trends report displays on your screen.
5. Download the report, if desired, by selecting the **Download** icon (⬇️) on the top right of page, specify a location to download the report then select **Save**.
6. Print the report, if desired, by selecting the **Print** icon (🖨️) on the top right of page, specify a print destination then select **Print**.
7. If you would like to view, print or download additional reports, select **Back** to return to the Create Reports page.
8. When you are done creating reports, select **Exit** to return to the Patient Display.

12-Lead 3x4 Report

To create a 12-Lead 3x4 Report:

1. On the upper right-hand side of the RescueNet Live page select the **Create Reports** icon (📄). The Create Reports dialog box displays.

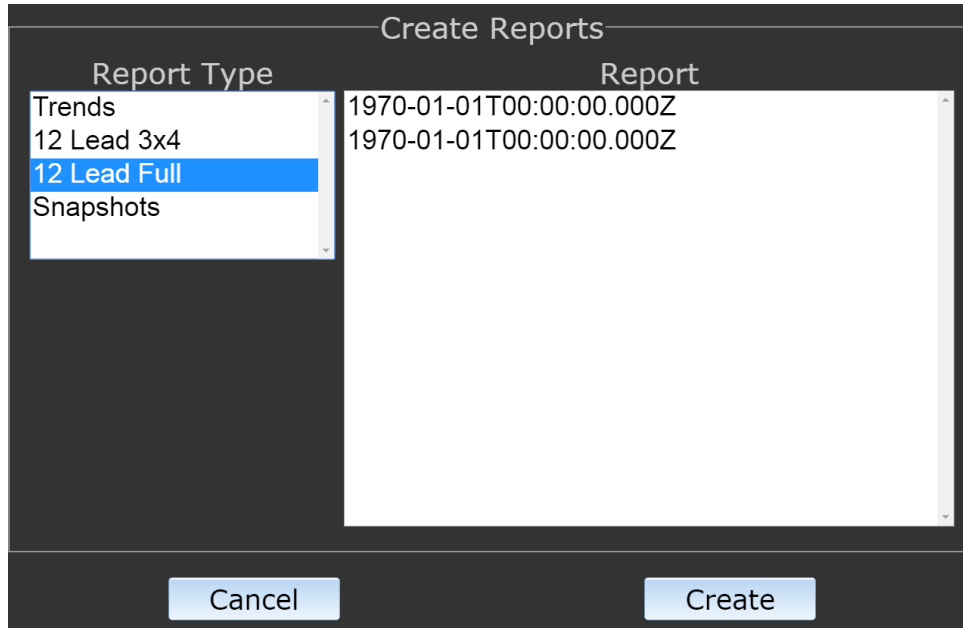


2. In the Report Type field select **12-Lead 3x4**.
3. In the Focus Lead field select the focus for the report. The focus lead you select displays 10 seconds of waveform data on the bottom of the report. The other 12-Lead waveforms display 2.5 seconds of data.
4. In the Report field select the acquired 12-Lead for which you want to create a report. You can choose from a list of 32 acquired 12-Leads saved on the device for the current case only.
5. Select the **Create** button. The report 12-Lead 3x4 Report displays.
6. Download the report, if desired, by selecting the **Download** icon (📄) on the top right of page, specify a location to download the report then select **Save**.
7. Print the report, if desired, by selecting the **Print** icon (🖨️) on the top right of page, specify a print destination then select **Print**.
8. If you would like to view, print or download additional reports, select **Back** to return to the Create Reports page.
9. When you are done creating reports, select **Exit** to return to the Patient Display.

12-Lead Full Report

To create a 12-Lead Full Report:

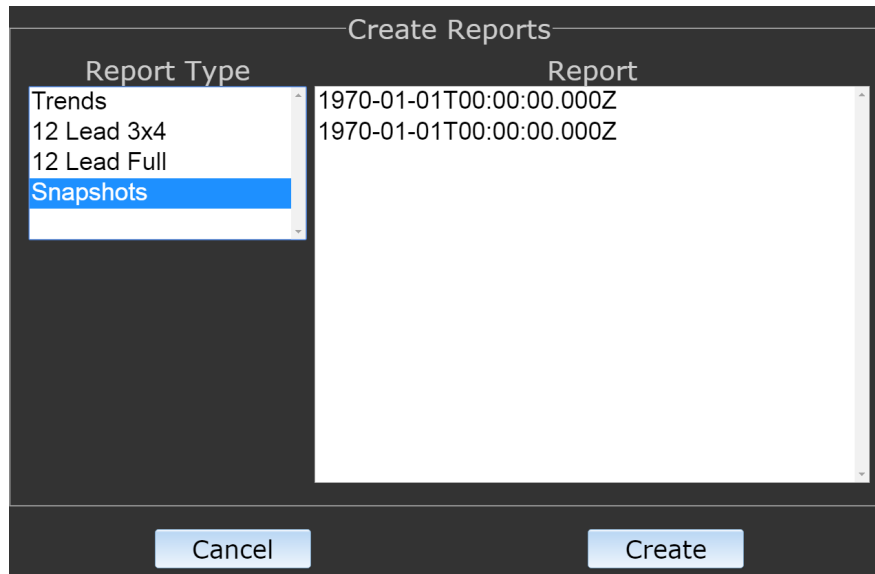
1. On the upper right-hand side of the RescueNet Live page select the **Create Reports** icon (📄). The Create Reports dialog box displays.



2. In the Report Type field select **12-Lead Full**.
3. In the Report field choose the acquired 12-Lead for which you want to create a report. You can choose from a list of the last 32 acquired 12-Leads for the current case saved on the device.
4. Select the **Create** button. The 12-Lead Full report displays
5. Download the report, if desired, by selecting the **Download** icon (📄) on the top right of page, specify a location to download the report then select **Save**.
6. Print the report, if desired, by selecting the **Print** icon (🖨️) on the top right of page, specify a print destination then select **Print**.
7. If you would like to view, print or download additional reports, select **Back** to return to the Create Reports page.
8. When you are done creating reports, select **Exit** to return to the Patient Display.

Snapshot Report

1. On the upper right-hand side of the RescueNet Live page select the **Create Reports** icon (📄). The Create Reports dialog box displays.



2. In the Report Type field select **Snapshots**.
3. In the Report field select the acquired Snapshot for which you want to create a report.
4. Select **Create**. The Snapshot report displays.
5. Download the report, if desired, by selecting the **Download** icon (⬇️) on the top right of page, specify a location to download the report then select **Save**. The report is saved in pdf format in the specified location
6. Print the report, if desired, by selecting the **Print** icon (🖨️) on the top right of page, specify a print destination and number of copies then select **Print**.
7. If you would like to view, print or download additional reports, select **Back** to return to the Create Reports page.
8. When you are done creating reports, select **Exit** to return to the Patient Display.

Chapter 3

Viewing Application

This chapter provides information on using the RescueNet Live Viewing Application. It includes the following sections:

- Overview3-24
- Accessing the RescueNet Live Viewing Application.....3-24
- The Viewing Application Patient Display.....3-26

Overview

The RescueNet Live Viewing Application allows you to view a patient's near-real time waveforms and numeric streamed from a single connected device on a laptop or tablet. The Viewing Application serves as a read-only alternative secondary display for viewing patient data. Data streams over WLAN from a single connected device to the RescueNet Live Viewing Application running on your computer.

With the RescueNet Live Viewing Application you can:

- View up to 4 continuous near-real time waveforms and 8 physiological parameter numerics.
- View patient alarms and equipment alert messages that have been detected by the monitoring device.
- View device status messages.

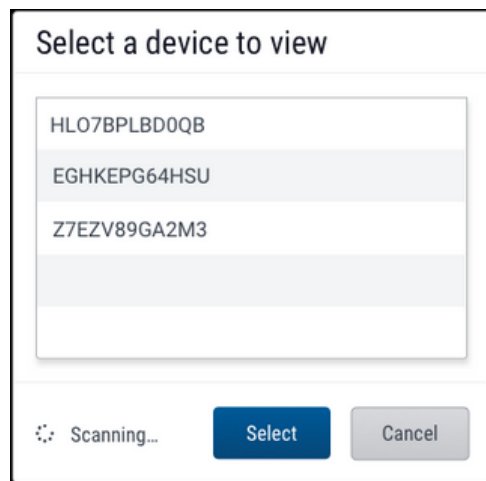
Accessing the RescueNet Live Viewing Application

The RescueNet Live Viewing Application can be set up by your system administrator to automatically connect to a specific device based on the device IP address or you can connect to an available device by scanning for devices on the network.

Note: Once you connect to a specific device, the Viewing application will automatically connect to that device when it starts up or until you decide to connect to another device.

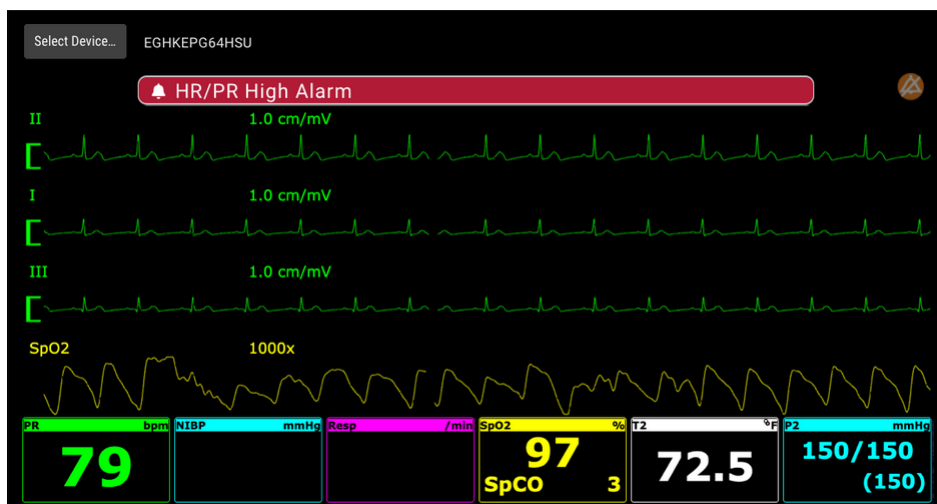
To connect to the RescueNet Live Viewing Application:

1. On your laptop or tablet launch RescueNet Live Viewing Application. The Viewing Application scans for available devices then displays the Select a Device to View dialog with a list of available devices.



2. Highlight the desired device from the **Select a Device to View** list then press the **Select** button. A Patient Display window opens and begins streaming patient data.

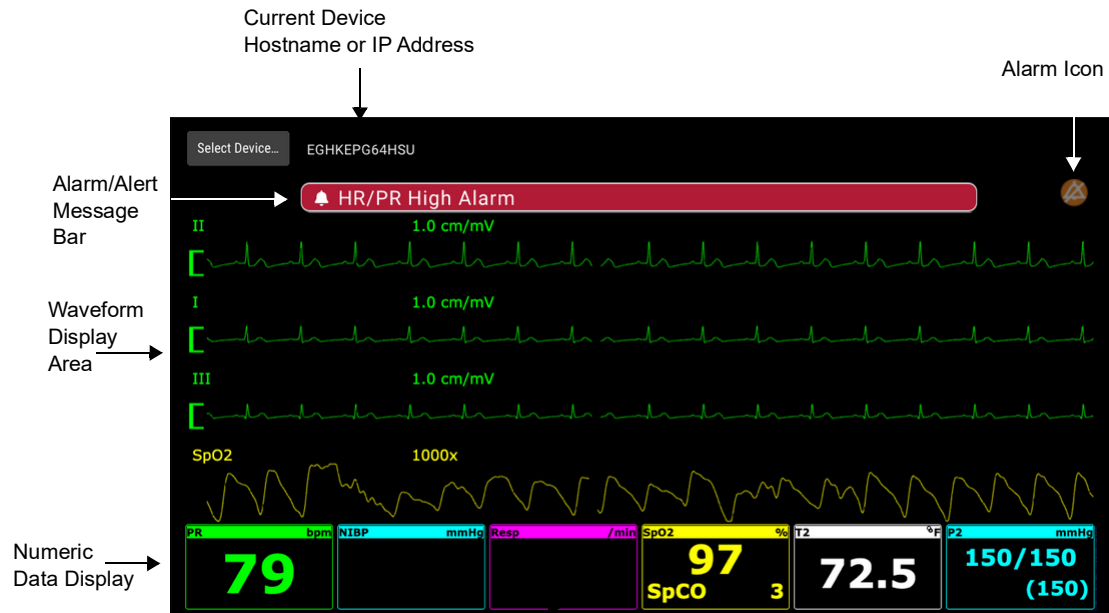
Note: Once you connect to a specific device, the Viewing application will automatically connect to that device when it starts up or until you decide to connect to another device.



3. Select another device from which to view streaming data, if desired, by pressing the **Select Device** button from the top left of the Viewing Application Patient Display then selecting a new device from the Select a Device to View dialog box.
4. If the Password Incorrect dialog box displays any time while accessing the Viewing Application, enter the correct password and press **Select**.

The Viewing Application Patient Display

The Viewing Application Patient Display is similar to the connected device display and allows you to view near-real time waveforms, numerics and alarm/alert messages.



Alarm and Alert Notifications

The Viewing Application alerts you to patient alarms, technical alerts, and equipment status messages detected by the monitoring device. The Alarm/Alert Message Bar on the top of the Patient Display window displays the 12 most recent status and alarm messages generated by the device.

Each status and alarm message displays in the message bar individually for four seconds in the order provided by the device. Moving your cursor over the message bar provides a list of the 12 most recent messages.

When a patient's vital signs measurements trigger an alarm on the connected device:

- The RescueNet Live Viewing Application alarm icon (🔔) flashes on the Patient Display.
- No alert tone sounds.
- The Alarm icon continues to flash until the alarm condition is cleared on the device. Only the clinician working at the patient bedside can clear the cause of a status message or silence alarms on the connected device.

Only the clinician working at the patient bedside can clear the cause of a status message.

Waveform Display

The waveform display section displays the 4 waveform traces currently shown on the connected device. The waveform source, position on the page, and scale come from the connected device. Adjust waveform settings on the device.

Numeric Data Display

The bottom of the page displays numeric data for up to eight physiological parameters. The displayed parameters are those that are currently configured to display on the device.

The numeric uses the same labels, units of measure, and colors as the connected device. Adjust the parameter settings on the device.

Note: FiCO₂ numeric data is not available for display. The RescueNet Live Alarm icon flashes when a FiCO₂ alarm condition exists on the device.

