SPACELABS HEALTHCARE

Xhibit Central Station XC4 and XC48
96501/96102
96280 Xhibit Telemetry Receiver

Xhibit Central Station (96102) and Xhibit XC4 (96501): Software version 1.6.x
Xhibit Telemetry Receiver (96280): Software version 1.02 and 1.4.x
Quick Start Guide

The 96280 Xhibit Telemetry Receiver is compatible with the 96281-A, -B, -C AriaTele® transmitters. See the Operations Manual for compatibility with transmitters.

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Spacelabs training acknowledgement

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It is recommended that you review the Operations and Service Manuals in conjunction with viewing these materials.

All data shown in this video is from Spacelabs' simulation program and is not actual patient data.

Specifications subject to change without notice.

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Getting started

The Xhibit® Central Station, XC4, and XC48, when used with the Xhibit Telemetry Receiver (XTR), provide portable telemetry monitoring of patients when used with a Spacelabs telemetry transmitter (AriaTele).

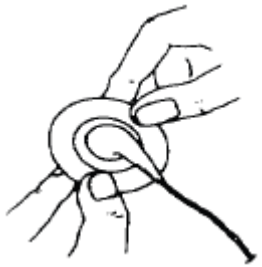
To prepare the patient:

1. Wash the skin area with soap and water.
2. If necessary, clip the area where you plan to position the electrodes.
3. Clean the skin with alcohol.
4. Dry the skin thoroughly.
5. Abrade the skin to remove any dead skin cells.

To apply the ECG electrodes:

1. Attach an electrode to a leadwire.
2. When applying the electrode to the patient's skin, avoid pressing on the gel column.

Note: Insert the transmitter's batteries to initiate monitoring.



Assign a bed to the zone

To add a bed to the zone at the Xhibit central station:

1. Select the **Unassigned Zone**.
2. From the **Select Bed Window**:
    - Select the **Current Organization** from the dropdown list;
    - Type in the **Telemetry Channel;**
    - Check the **Permanent Assignment** box (optional);
    - Select the bed from the Beds list:

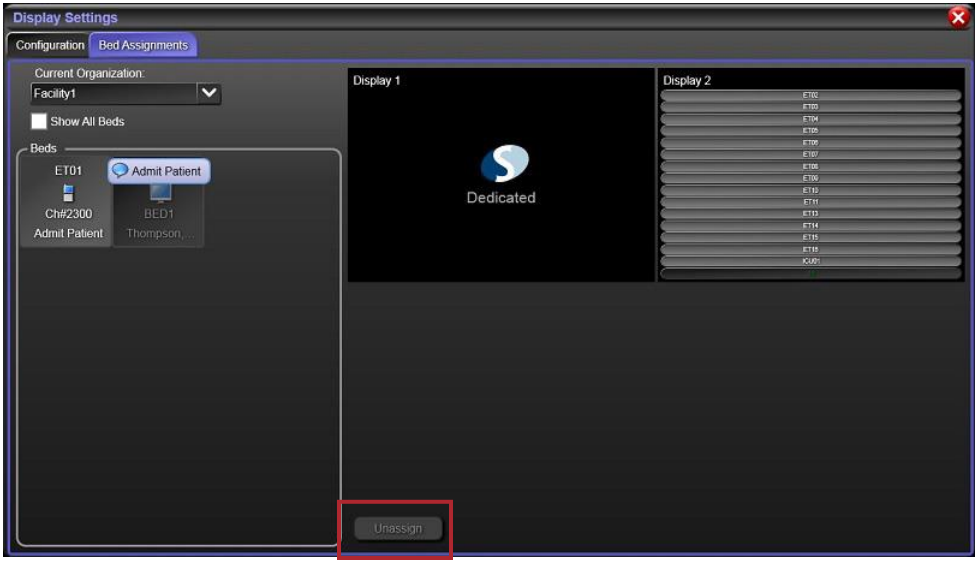
OR

1. Select the Spacelabs Menu. (The Spacelabs logo on the Action Bar.)
2. Select the **Display Settings** tab.
3. Select the **Bed Assignments** tab.
4. Select the **Current Organization** from the dropdown list.
5. Select the bed icon.
6. Select an unassigned patient zone.
7. Close the **Display Settings** window.

Unassign a bed at the Xhibit central station.

Unassign a bed:

1. Select the **Spacelabs Menu.** (The Spacelabs logo on the Action Bar.)
2. Select the **Display Settings** tab**.**
3. Select the **Bed Assignments** tab.
4. Select the display with the bed to be removed. The selected display is enlarged.
5. Select the bed to be unassigned from the display zone.
6. Select the **Unassign** button.

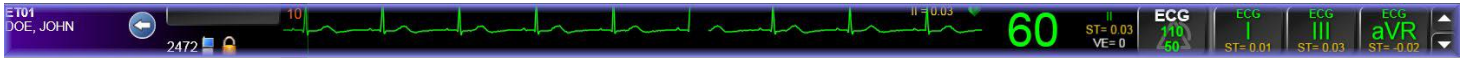


Admit a patient

To admit a patient at the Xhibit central station:

1. Select the **Patient Title Bar** (includes bed and patient name or identifier) to open the **Patient Info View**.

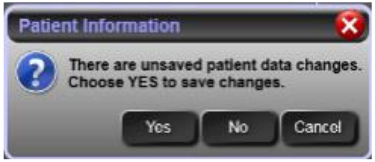
Note: The selected patient is framed in blue.



2. Select **Admit.**

3. Enter the patient ID in the **ID1** field.
4. Enter the transmitter channel in the **Transmitter Channel** field.
5. Select the **Save** button.

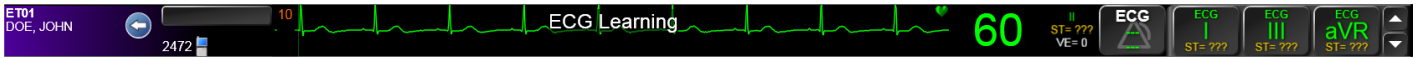
If you have not saved, a message is shown to remind you.



*Note: You may select the telemetry icon to tune the transmitter until you have the patient demographics. To add more of the demographics, select the **Edit** button. Confirm the **Telemetry Channel** is correct once connected to the patient.*

ECG Learning

When the patient is first connected to the telemetry transmitter, the ECG starts a learning process.



ECG Learning establishes heart rate and determines the patient's dominant normal beat.

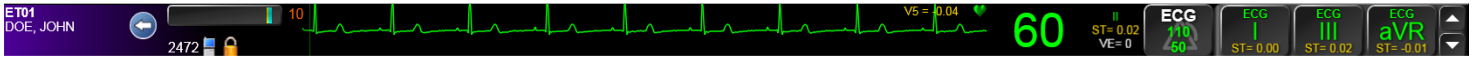
ECG alarms for ventricular fibrillation and asystole remain active while the patient's rate and morphology are being learned (for example, following a lead switch or use of the RELEARN feature). ECG alarms for other analyses are not reactivated until the learning process ends.

Patient Zone

The Xhibit Central Station **Patient Zone** provides a patient-centric view of all monitored parameters. The **Patient Zone** is identified by a bed name or labeled as “Unassigned zone” if no bed has been assigned.
Components to the **Patient Zone** are:

- **Patient Info** area
- **Waveform Zone**
- **Numeric Zone**

Single column (Patient Info area on the Left of Waveform Zones)



Waveform Zone Numeric Zone

Two Columns (Patient Info area on Top of Waveform Zones)

Waveform Zone Numeric Zone Waveform Zone Numeric Zone

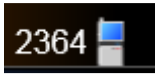
Temporary view of numeric zone parameter

The ECG leads show as space permits depending on a single-column or two-column display setting or number of patient zones being monitored. The primary lead is always displayed. The other leads are displayed in the **Numeric Zone**.

- Select a **Numeric Zone** ECG button to temporarily display a different ECG lead view in the **Waveform Zone**.
- The new ECG lead waveform will appear for 20 seconds, or until another ECG lead is selected from the **Numeric Zone**.
- A countdown timer will appear in the lower-right corner of the **Waveform Zone** indicating how much time is left of the temporary waveform viewing.

Telemetry transmitters – temporary or permanent assignment

Temporary transmitter assignment is when the transmitter can be assigned to any bed.



Permanent transmitter assignment is when a transmitter is permanently assigned to a bed or zone.

*Note: For temporary assigned transmitters, a lock icon is not next to the transmitter and the **Permanent Assignment** box is unchecked.*

Transferring a telemetry patient to a new bed

To transfer a patient:

1. Select the **Patient Title Bar** to open the **Patient Info** view.
2. Select the new bed from the Bed drop-down list..
3. When the confirmation message shows, select **Yes**.
4. The telemetry patient is transferred to the new bed and zone.

Note: The Bed drop-down is not available on permanently assigned transmitters.

A bed should be visible on the Xhibit display before transferring the patient to that room so that the patient is being monitored.

A patient CAN be moved (on purpose or accidentally) to an Unassigned bed.

To change a telemetry transmitter:

1. In the **Patient Info** view, type the new transmitter channel number in the **Transmitter Channel** field.
2. Select the **Enter** button.
3. Select the **Transmitter** icon to tune the channel.
4. When the confirmation message shows, select **Yes**.

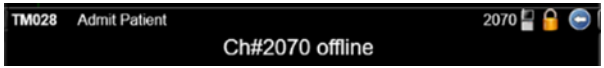
Note: The permanently assigned transmitter cannot be changed without unlocking it. If this is required, follow the hospital's protocol.

Discharging a telemetry patient

Discharging a telemetry patient:

1. Select the **Patient Title Bar** to open the **Patient Info** view.
2. In the **Patient Info** view, select the **Discharge** button.
3. Select **Yes** to discharge the patient and clear all the data.

Note: On permanently assigned transmitters, the discharge message shows in the Waveform Zone for about a minute. This message then changes to an offline message. If the transmitter is not retuned, the next patient admitted to the transmitter will not be monitored. On temporarily assigned transmitters, the Patient Zone shows only the bed name.

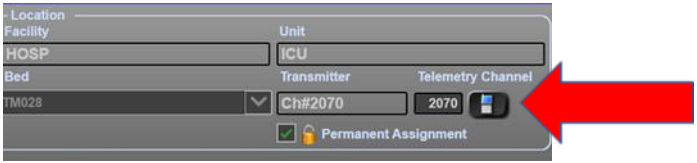


Permanently assigned telemetry zones are always temporarily tuned on the receiver. After any discharge, telemetry transmitters permanently assigned on the Xhibit Central Station always require a retuning. If the zone is tuned again after a discharge of a telemetry transmitter, then when the next patient is placed on the transmitter, a waveform automatically shows in the zone–even if staff forget to admit the patient.

Retune a transmitter

To retune a transmitter that is offline:

1. After discharge, return to the **Patient Info** view and select the Telemetry icon to retune the transmitter to the central station.
   No Signal will now be displayed in the **Waveform Zone**, which allows a waveform to pop up as soon as a patient is placed on a transmitter and batteries are inserted.
   Any time the offline message shows in a **Waveform Zone**, select the Telemetry icon to retune it.



- OR -

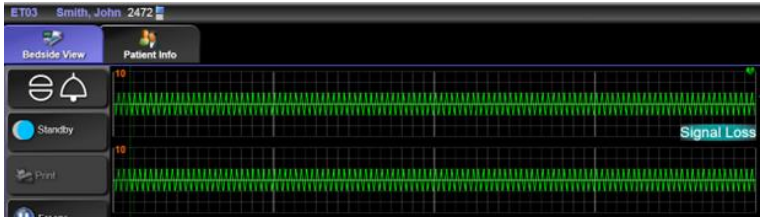
2. Admit a patient to the permanently assigned telemetry zone and select the Telemetry icon or select **Save**.

Telemetry Standby (if enabled)

During **Signal Loss** or an **All Leads Off** alarm condition, placing the telemetry in Standby removes the waveform, but keeps the patient admitted to the zone and transmitter assigned.

To place a telemetry channel in Standby:

1. Select the active **Standby** button in the **Bedside View** or the **Standby** icon in the Taskbar.
   Telemetry Standby suspends all patient monitoring. The **Patient Info** area remains visible, but waveforms and numerics disappear, the alarms are suppressed, and a **Standby** messages shows in the **Patient Zone**.

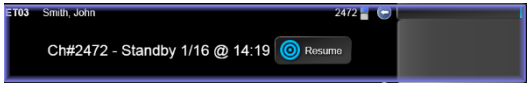


To exit Standby:

1. If the Signal Loss and All Leads Off conditions end and a signal returns, then Telemetry Standby is exited and patient monitoring resumes.

- OR -

2. Select the **Resume** button to manually remove the telemetry channel from **Standby** mode and resume monitoring.



Alarm management tools

The Xhibit Central Station has many features to help manage patient alarms. Alarms are prioritized by High, Medium, or Low. Alarm priority is determined by the Privileged Access telemetry settings.

Alarm Management features:

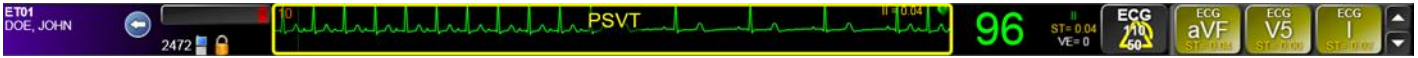
- Audible alarm tones/Pausing alarm tones
- When the tones are paused, a dotted red X covers the bell, and a countdown timer shows.
- Visual indicators/Alarm Off indicators/Alarm messages
- Acknowledge alarms
- Escalation of alarms
- Latching message for high priority alarm events
- Parameter Settings—change alarm limits
- 60-minute Alarm History Bar
- 30-minute Alarm Limit Review Trend
- Alarm event review via integrated Clinical Access

Alarms

Alarm priorities and visual appearances:

Waveform Zone – high priority visual alarm

Waveform Zone – medium priority visual alarm



Waveform Zone – low priority visual alarm

Alarms…continued

To pause alarm audio (tones):

1. Select the bell in the lower-right corner to temporarily pause the alarm audio for the central station display.
    - Select the alarm bell once to pause the tones for 45 seconds.
    - Select the alarm bell twice to pause for three minutes.
    - Select the alarm bell third time to reinitialize the alarm tones.

During the pause time, a new alarm will reinitialize audible alarm tones.

If enabled, the audio at the Xhibit Central Station can be turned off. If the audio is turned off at the Xhibit Central Station, you will not hear alarm tones. Also, the Action Bar is orange and shows the message **Alarm Audio** is **Off**. The message, **Alarm Audio Off**, also fades in and out over the Alarm Bell.

*Note: **Alarm Audio On** or **Off** message in the Action Bar (area along the bottom of the display) is shown until a more current technical message occurs.*

Alarm Acknowledge

If enabled, you can use the alarm acknowledge feature to pause the audio and some of the visual indicators.

To acknowledge an alarm:

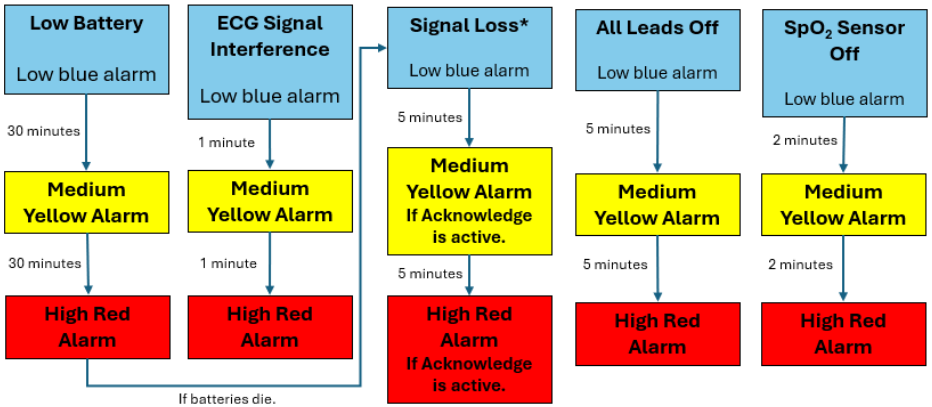
1. Select the Alarm Acknowledge icon in the Bedside View.
    - The flashing frame goes away.
    - The alarm message in the waveform zone remains in the color of the alarm priority.
    - The **Alarm Acknowledged** and **Audio Off** icons are present in the parameter zone next to the alarm message.
    - Alarm recordings stop.

The alarm remains acknowledged until any of the following occurs:

- The original alarm condition resolves.
- A different alarm condition for the same parameter occurs.
- An extreme alarm violation of the same alarm occurs.

Alarm Escalation

Over time, unattended alarms escalate to the next priority level as described.



**Batteries are typically removed from the AriaTele Transmitter to place monitoring of the patient on hold. Any alarm can be set to be acknowledged at any level to stop further escalation of that alarm. The Signal Loss alarm does not escalate to a priority higher than what can be acknowledged. The Signal Loss alarm escalates based on the unit's telemetry alarm acknowledge setting.*

Latched message for high priority alarms

When a High Priority alarm is no longer active, an alarm message of the alarm condition latches to the lower-left area of the Waveform Zone. The message remains on the display until you select it or until a new High Priority alarm occurs.

Notes:

- Regardless of the subsequent alarm limit violations during the alarm episode only the initial violation value is saved and shown in the **Alarm History** list.

Latched alarm messages in Waveform Zones

- If the same patient is monitored on multiple Xhibit central stations (for example, XC48, XC16, XC4), clearing a latched alarm on one central station does not clear it from any other central station screens.
- When a display is set up as a repeater, or is mirrored from an Xhibit central station, the latched alarm is removed from the repeater display once it is cleared from the originating Xhibit central station.

Latched message for high priority alarm events…continued

60-minute Alarm History Bar:

Located in the **Patient Info** area, the **Alarm History Bar** (noted with the red box) provides a 60-minute indicator of alarm events with one vertical bar for each minute. The most recent alarm bar appears to the right to show alarm occurrences at a glance.

The title bar in each Patient Zone includes the Alarm History Bar.

When you select the **Alarm History Bar**, a list appears of the high and medium alarm events.

To view the waveform associated with an alarm event:

- Touch any alarm event to open the **Alarms** tab in Clinical Access (if installed).

Xhibit Telemetry Rate Alarms

The Parameter Settings window provides access to all parameters being monitored by the telemetry transmitter. The selected parameter on the left of the window is framed in blue.
Simply select a parameter to adjust.

When the Alarms menu is selected, **Rate** is the default view. This tab contains the controls for **HR Alarms,** and **ECG>Relearn**.

To adjust rate alarm limits:

1. Select an **ECG** lead label key in the **Waveform Zone** to open the **Parameter Settings** > **Alarms** window for that parameter.
2. The **ECG** parameter key is selected.
3. Select the **Alarms** tab and then the **Rate** tab.
4. For HR alarms, select On or Off.
    - Select **On** to activate the **High** and **Low** heart rate alarms.
    - Adjust the alarms as necessary.
    - Select **Off** to make the **High** and **Low** heart rate alarms unavailable.

A trend in the **30-Minute Review** is provided to show the relationship between the patient's vital sign value and the high and low alarm limit settings. The white solid and dotted lines adjust if the alarm limits are changed. The solid lines are the high and low alarm limits. The dotted lines are the extreme alarm settings.

Xhibit Telemetry Arrhythmia Analysis

Xhibit Telemetry incorporates an arrhythmia analysis algorithm that includes identification of the following:

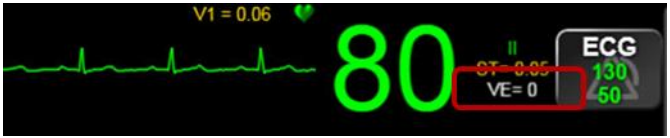
- Asystole (always **ON**, cannot be turned **OFF**)
- Ventricular Fibrillation (always **ON**, cannot be turned OFF)
- Ventricular Tachycardia (10 or more ventricular beats at a rate greater than 100 bpm)
- VRun (user sets the rate from 3 to 9 consecutive ventricular beats)
- R on T PVC (ventricular beat occurring on a T wave)
- Couplet (pair of consecutive ventricular beats)
- Pause (user sets the length, default at 2 to 4.5 seconds)
- Atrial Fibrillation
- Paroxysmal Supraventricular Tachycardia (PSVT) On or Off
- VE/Min (number of ventricular ectopic beats occurring in a minute)

Xhibit Telemetry Arrhythmia Analysis…continued

In addition, the algorithm includes the following alarms for pacemaker functions:

- Pacer Not Sensing
- Pacer Non-Capture
- Pacer Pulse on T

*Note: If **Pace Detection** is **On**, all pacer alarms are active by factory default.*



Select the VE=x in the Patient Zone as a shortcut to open the **Parameters Settings > Alarms > Arrhythmia** tab.

Default telemetry settings

Default telemetry settings are in the **Privileged Access** menu and are specific to care areas. If a patient is transferred to a different care area, review your alarm settings and adjust as required.

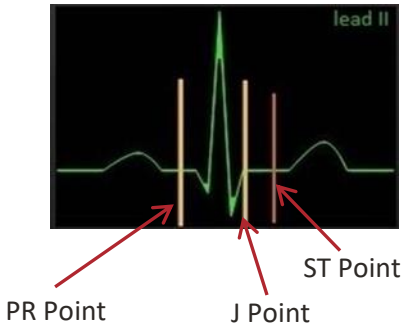
Xhibit Telemetry ST measurements

Xhibit Telemetry performs ST monitoring by measuring the offset between the ST measurement point and the isoelectric reference point (P-R interval on the baseline of the ECG called the PR point). This ST monitoring is done for all ECG leads measured. For Xhibit Telemetry, **all** ECG leads include **leads I, II, III, aVR, aVL, aVF, and V**. When this value exceeds the alarm limit setting for a specified time, an alarm is generated.

The ST values are presented as a number that represents the deviation (in millimeters) from the reference (PR point) and are shown for all ECG leads.

Keywords:.

- **PR point –** Isoelectric reference point within the P-R interval.
- **J point –** Point where the QRS complex ends.
- **ST point –** 60 ms after J point where the ST value is measured.
- **ST value** – The amplitude difference between ST point and PR point.



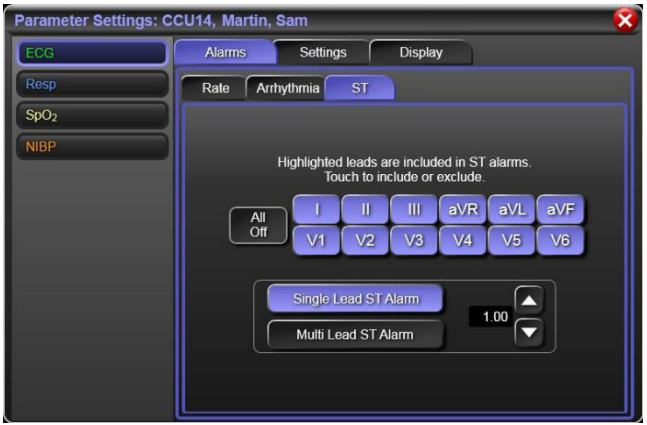
Parameter Settings: ST Alarms tab–change alarm limits

Go to **Parameter Settings** or select the ST = x on the Patient Zone as a shortcut to open the **Parameters Settings** > **ST** > **Alarms** tab.

ST for a Single Lead:
For all leads selected, if any one lead violates the alarm threshold, an alarm sounds.

To adjust the ST Index for user-selected leads
For all leads selected, if the **AVERAGE** of the ST values for the selected leads violates the alarm threshold, an alarm sounds.

1. Select **User 1.**
2. Turn **Alarm Limits ON.**
3. **Select Leads.**
   The selected leads are highlighted.
4. Turn Extreme ST alarm ON or OFF.



ST Alarm and Extreme ST Alarm

The alarm limit setting is a change value, which means the limit is not an absolute value of the ST measurement. An alarm sounds if the ST value deviates more than the alarm setting value.

Extreme ST Alarm

When an ST Alarm sounds, the alarm continues until the ST value remains stable for 3 minutes (no change > 0.2 mm) or the alarm is acknowledged. When the alarm is acknowledged, the alarm message shows the alarm acknowledge symbol.

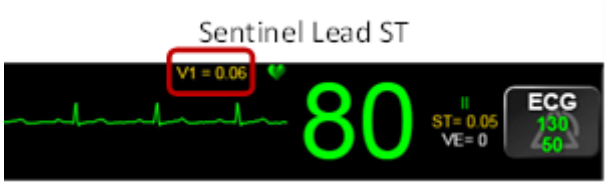
The ST alarm is typically a Medium (Yellow) priority alarm. If the ST value deviates more than twice the **ST** alarm setting value and the **Extreme ST** alarm is turned **ON**, a second, High (Red) priority alarm sounds.

For example, if the **ST** alarm is set to 1.00 and the **Extreme ST** alarm is set to **On**:

- the first ST alarm sounds if the ST value depresses or elevates greater than 1.00 mm; and
- an extreme alarm sounds if the ST value depresses or elevates greater than 2.00 mm.

ST – Sentinel Lead and multiple leads displayed

The ECG lead with the greatest ST value deviation from the reference point is referred to as the Sentinel® Lead. Its value shows to the left of the heart icon at the top of the ECG display.



ST data shows for all available ECG leads. When the ECG lead waveform shows, the ST value is to the right of the waveform. When multiple leads are monitored, but waveforms cannot be shown, the ST data shows on the numeric buttons.

To view more leads:
Use the up and down arrows in the Numeric Zone.

Patient View

The **Patient View** shows all data monitored for a patient in Bedside View.

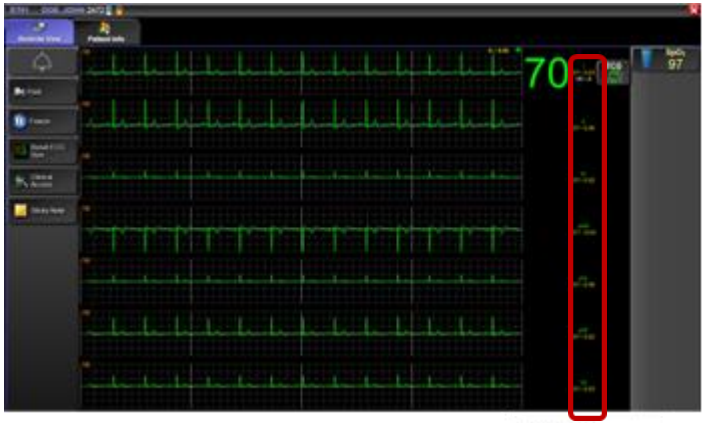
To open the Bedside View:
Touch the waveform zone.

The **Patient View** shows on a separate dedicated display or in the lower section of the Home Screen of a non-dedicated display.

When **Bedside View** is selected, all ECG leads, the associated ST values are displayed with SpO_2.

The Patient View contains:

- **Bedside View** (**Alarm Audio**, **Print**, **Freeze**, **Clinical Access** [if available], and **Sticky Notes**).
- **Trends View** (Button is not presented if **Clinical Access** is available. **Trends** may be viewed through **Clinical Access**.)
- **Patient Info View** (**Admit**, **Discharge**, **Edit**, **Print**, and access to the on-screen keyboard)



Parameter Settings > Settings

The **Parameter Settings** window provides access to all parameters being monitored by the telemetry transmitter. The selected parameter on the left of the window is framed in blue.

Simply select a parameter to adjust:

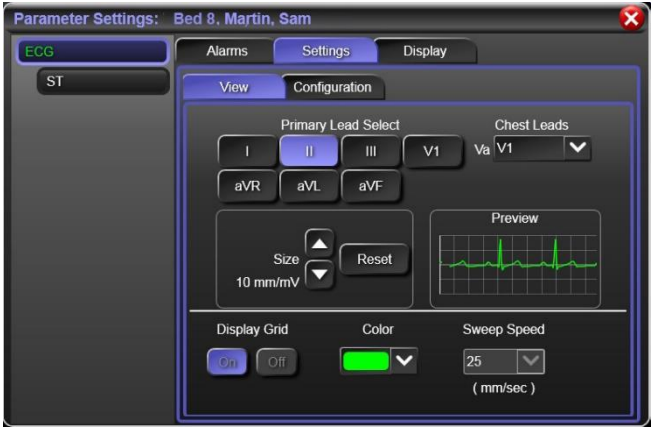
- **Alarms** (see Alarm Management}
- **Settings –** in the case to the right, **Settings** includes **View** and **Configuration**
- **Display**

The selected tab is highlighted blue. In the example to the right: the tab **Settings** and **View**.

Each parameter has its own unique **Settings** options.
In this example to the right, under ECG, the **Settings** tab is opened to the **View** tab. This allows for selections to change the ECG leads, parameter color, and size of the waveform.

The Sweep Speed displayed on this tab can only be changed in a patient's **Bedside View**.

ECG Parameter Settings > **Settings** tab



Parameter Settings > Settings

To change the lead selection:
Go to **Parameter Settings** or select the lead label (example: II) on the **Patient Zone** as a shortcut to open the **Parameter Settings** > **View** tab.

Select the **Primary Lead** or change the **V Lead** label. The **Primary Lead** is the lead that is displayed in **the Waveform Zone** in the home screen.

Note: You should change the V Lead electrode position to the selected V Lead label.

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Parameter Settings > Display

The **Display** tab allows you to show a parameter in the **Waveform Zone** or **Numeric Zone** in the **Patient Zone** or **Bedside View** and to change the order of parameters displayed.

The selected parameter is highlighted in blue. If you deselect a parameter button, the blue will disappear, and the parameter will not show.

*Note: Order of telemetry ECG leads applies to the **Patient Zone** only.*

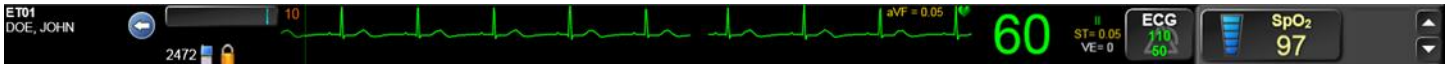
SpO_2 measurements

SpO_2 measurements from the transmitter show as numerics-only in the Numeric Zone (no waveform), along with the signal strength.

*Note: Always use ECG leads with the **SpO_2**. The telemetry transmitter is not intended to be used as a standalone **SpO_2** monitor. Also, no alarms will sound without ECG leads being monitored.*

To view the SpO_2 in the Numeric Zone:

Use the arrows at the right in the **Numeric Zone**.



To set up SpO_2 for the telemetry patient:

1. Connect the SpO_2 cable into the transmitter.
2. To show the tabs for the **SpO_2 Alarms**, **Settings**, and **Display**, select the ECG parameter button in the waveform zone.
3. Select the SpO_2 parameter button in the **Parameter Settings** window. The **Alarms** tab is where you can set the high and low alarm limits.

*Note: **SpO_2** percentage and pulse rate values show as **???** until approximately 15 seconds after the **SpO_2** sensor is connected to a patient.*

Taskbar

The **Taskbar**, located in the **Patient Info a**rea, contains 6 quick keys for easy access to various features.

To open the Taskbar:
Select the arrow.

Features include:

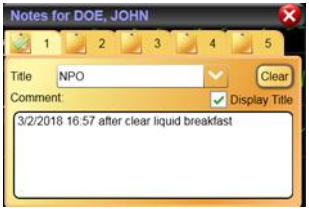
- **Sticky Notes**
- **Printer** options
- **Minimize Bed**
- **Clinical Access** (if enabled)
- **Color Palate** to change color of the Patient Title Bar)
- **Standby** (if enabled)

Note: If an icon is light gray, such as the bed is in the image above, it is disabled or invalid due to connectivity issues or not useful due to system restrictions.

Taskbar…continued

Sticky Notes

To create a Sticky Note:
Select the **Sticky Note** icon.



- Use the arrow next to the **Title** field to select one of five predetermined notes or create up to five “user-defined” notes specific to your care area.
- Check **Display Title** to indicate which note displays in the **Patient Zone**.
- A **Sticky Note** icon appears in the Patient Zone title bar as well as the Bedside View.
- To create multiple notes, select a new numbered tab. You may create up to five sticky notes.
- **Sticky Notes** are reminders, which are not printed or added to the patient record.
- **Sticky Notes** can be removed or will be automatically removed when a patient is Discharged
- **Sticky Notes** can only be seen on the Xhibit central station where they are created (and any repeater displays).

Color Palette

To change the Patient Title Bar color:

1. Select the **Color Palette** icon to open the color palette.
2. Select a color and apply it to the **Patient Info** area.

*Note: Color palette is also accessible through the **Action Bar**.*

Taskbar…continued

Minimize Bed

Select to minimize or restore empty beds. If you minimize the empty beds, you will see only those patient zones that contain an actively monitored patient. A number on this button indicates the number of minimized beds on the display.

Clinical Access

The **Clinical Access** icon provides direct access to the Clinical Access application for review of up to 72 hours of patient waveform or vital sign data. If Clinical Access is not installed, the **Clinical Access** icon is not available.

You may also access the **Clinical Access** application from the **Select Patients** window and the **Bedside View**.

When you select the **Alarm History Bar**, a list of the recent alarms is shown.
To view the waveform associated with an alarm event, touch any alarm event from the list to open the **Alarms** tab in **Clinical Access**.

Clinical Access will not open to the specific alarm (like the bedside monitor does). When opened Clinical Access takes the user to the **Alarms** tab in Clinical Access. This can be confusing if a previously-viewed alarm was opened to strip view because it looks like that is the alarm you are going to review, which may not be the correct one.

Taskbar…continued

Printing

Use the following menus to print at the Xhibit Central Station:

- The Taskbar in the **Patient Zone** title bar.
- The **Bedside View Print** button has the same print options as the taskbar.
- The Spacelabs icon in the Action Bar**.**
- **Trends Print** button.
- Print options are available through **Clinical Access**.

To print all displayed waveform(s):

1. Select the Printer icon from the taskbar in the **Patient Zone** title bar.
2. Select **Print Displayed** to print all waveforms that are being viewed in the Waveform Zone.

Printing…continued

To print selected waveforms:

1. Select the **Printer** icon from the taskbar in the Patient Zone title bar or the print button in the Bedside View.
2. Select **Print Selected** and select the waveforms to be printed.
3. Select one or more waveforms and print either continuous or a 6-second strip. Parameters must be displayed to print.

To print all waveform and numeric data for all parameters:

1. Select the **Printer** icon from the taskbar in the **Patient Zone** title bar.
2. Select **Print All.**

To print a continuous strip of displayed waveforms:

1. Select the **Printer** icon from the taskbar in the **Patient Zone** title bar.
2. Select **Print Continuous.**

To stop a continuous printout:

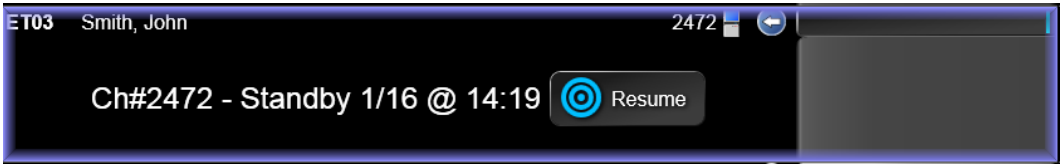
Select the **Printer** icon in the Patient Zone title bar or select the **Stop** button in the Bedside View.

Standby on the Task Bar

Select the active icon to initiate Standby for the patient on a telemetry channel. You can initiate Standby during a **Signal Loss** or an **All Leads** Off condition.

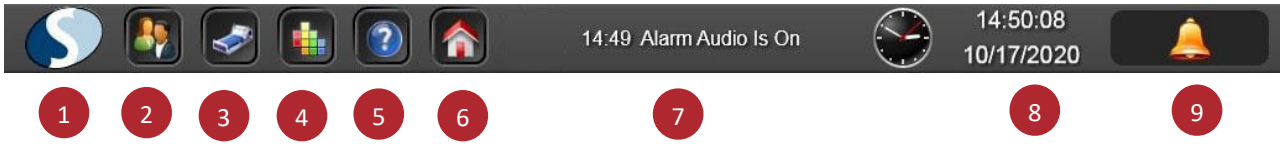
The Standby icon shows in the Taskbar when Standby is enabled or allowed on Xhibit through the **Privileged Access** menu. Disabled by default, it becomes enabled when there is an active **Signal Loss** or **All Leads Off** alarm.

- If the patient was placed into Standby with ONLY a **Signal Loss** alarm condition and the signal comes back, Standby is exited, and telemetry patient data shows again at the Xhibit Central Station.
- If the patient is placed into Standby during an **All Leads Off** alarm and data is received, Standby is exited, and ECG data comes in from ECG and/or SpO_2.



Channel in Standby with Resume button

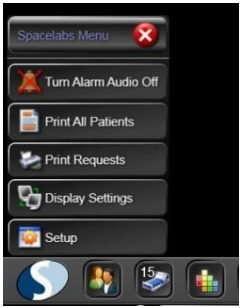
Action Bar



The Action Bar always shows at the bottom of all displays and contains the following icons (from left to right):

1. **Spacelabs** icon
2. **Select Patient**
3. **Minimize Beds**
4. Change **Color** (color palette)
5. **Help**
6. **Home**
7. Technical message area – Touch the message shown in the action bar to view all the current technical messages.
8. Time/Date
9. Alarm audio pause

Action Bar…continued



Spacelabs icon

Select the **Spacelabs** icon to open the **Spacelabs Menu**. Access the system administration, display configurations, and printing through this menu. **Display Settings** allows you to choose the configuration of the **Patient Zone** layout to be either a single column or a two-column view.

- A one-column view provides a longer, horizontal waveform view.
- A two-column view provides more vertical space for additional waveform viewing.

To change the Patient Zone layout:

1. Select the **Spacelabs** icon.
2. Select **Display Settings**.
3. Identify the display to reconfigure, if there are multiple displays, using the **Identify Displays** button.
4. Select **1 Column View** or **2 Column View**.

Decreasing the number of zones or changing the dedicated display may cause monitored patients to no longer be displayed. You may need to reassign beds to display zone.

Action Bar…continued

To view a patient census list

1. Select the **Select Patients** icon.

When you select the **Select Patients** icon (a census), you can quickly see a list of all the patients on the monitoring network, as well as patients that have been discharged from the Central Station within the last 24 hours.

Minimize Bed

The **Minimize Bed** icon allows you to hide a Patient Zone that is not being used, which makes more space available for viewing additional data on actively monitored patients. The Minimize Bed icon is active only if a telemetry transmitter:

- Has not been tuned.
- Has been tuned but no batteries have been inserted.
- Has been disconnected from the network.

Or the zone is in an unassigned state.

The Minimize Beds icon in the Action Bar at the bottom of the display will indicate the number of beds that have been minimized.
Select the icon to restore all beds or select individual beds. A minimized telemetry bed is automatically restored to the central, if the batteries have been inserted and the transmitter was previously tuned or reconnected to the network.

Action Bar…continued

To change the color:
Select the **Change Color** icon to place the display into a color change mode. Select a color from the color palette and apply it to any **Patient Zone** title bar.

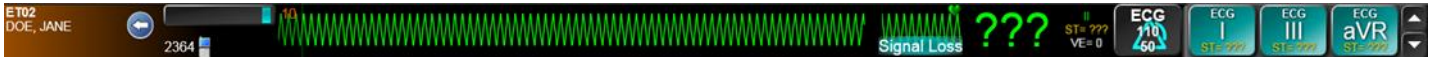
Clinical Access information is on page 35 as part of the taskbar information.

Printing features are mentions as part of the taskbar information on page 36.

Troubleshooting the transmitter

This squelch waveform and signal loss alarm could be caused by one of these situations:

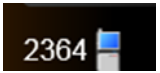
- The patient has walked into an area where there is no or very little telemetry signal coverage.
- The transmitter batteries have been removed from the transmitter.
- The transmitter batteries have died.



Channel no signal message means the transmitter is tuned but no batteries have been inserted into the transmitter.
Channel offline message means the transmitter has not been tuned.

Gray transmitter icon means the transmitter is either not tuned, no batteries are inserted, or both.

Blue transmitter icon means the transmitter has an active signal..



Note: This document is intended as a quick start guide for the Xhibit central station and Xhibit Telemetry Receiver software. For more detailed information, refer to the Xhibit Operations Manual (P/N 070-2114-xx)

Contact Information

Technical Support: **1-800-522-7025** Available 24 hours a day and 7 days a week.

Field Service Engineer: _____

Clinical Education Consultant: _____

Sales Representative: _____