

# Xhibit<sup>®</sup> Central Station XC4 and XC48

# 96501/96102 96280 Xhibit Telemetry Receiver



For Telemetry

### Software Version 1.4 Xhibit & 1.02 and 1.3 Xhibit Telemetry Receiver 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.



# **Getting started**

The Xhibit<sup>®</sup> 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 (Aria Tele).

### 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 ECG electrodes

- 1. Attach an electrode to a leadwire.
- 2. Apply the electrode to the patient's skin. Try not to press on the gel column.

Insert the transmitter's batteries to initiate monitoring.





### Assign a bed to the zone

- 1. Select the Unassigned Zone.
- 2. From the Select Bed window.
  - Select the Current Organization from the drop-down 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.
- 3. Select the Bed Assignments tab
- 4. Select the Current Organization from the drop-down list
- 5. Select the bed icon.
- 6. Select an unassigned patient zone
- 7. Close the Display Settings window.
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# Unassign a bed

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

Display Settings				•
Configuration Bed Assignments				
Current Organization:				
TELE	~	Display 2		- C
Show All Beds			ET01	
C Beds			ET02	
ET01 ET02	ET03			
ETN				
2104				
			10	
			11	
			13	
			16	
			16	
		Unassign		

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# Admit a patient

### To admit a patient:

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.



ET01 DOE, JOHN

- 3. Enter the patient ID in the **ID 1** field.
- Enter the transmitter channel in the 4 Transmitter Channel field.
- 5. Select the Save button

JOHN 2472 8

60

ST= 0.03

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 goes through 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



#### Two columns (Patient Info Area on top of Waveform Zones)





### **Temporary View of Numeric Zone Parameter**

The ECG leads are displayed 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.



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## **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.

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





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# 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 dropdown list
- 3. When the confirmation message shows, select Yes.
- 4. The telemetry patient is transferred to the new bed and zone.



### To change a telemetry transmitter:

In the **Patient Info** view, type the new transmitter channel number in the **Transmitter Channel** field. 1.

DOE, JOHN 2472 Patient In

Bedside Vie

Discharge

📝 Edit

Print

- Select the Enter button.
- Select the transmitter icon to tune the channel. 3.
- When the confirmation message shows, select **Yes**. 4.

2472

ICU1 ICU2 ICU3 ICU1t ICU2t ICU3t

ED1 ED2 ED1t ED2t

NICU1

ΠP

BSA (m<sup>2</sup>): 0.00 BMI: 0.00



# **Discharging a Telemetry Patient**

To discharge 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 patient data.

Note: On permanently assigned transmitters, the discharge message shows in the waveform zone for about a minute. On temporarily assigned transmitters, the patient zone shows only the bed name.

ET01 Not Available		Patient discharged	
	2472 📮 🔒		



# **Telemetry Standby (if enabled)**

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

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Standby

ET03 Smith, John 2472 Bedside View

Patient Info

To place a telemetry channel in Standby:

Select the active **Standby** button in **Bedside View** or the Standby icon in the Taskbar. 1.

Telemetry Standby suspends all patient monitoring. The Patient Info area remains visible, but waveforms and numerics disappear, the alarms are suppressed, and a Standby message shows in the Patient Zone.

#### To exit Standby:

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



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

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### **Alarm Management Tools**

The Xhibit<sup>™</sup> 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 include:

- 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



#### Alarm Priorities and visual appearances:

### Waveform Zone – High Priority visual alarm



### Waveform Zone – Medium priority visual alarm

ET01 DOE, JOHN - 2472	<sup>1</sup> <sup>0</sup> ulululululululululul		06 ST= 0.04 VE= 0	ECG 200 STELLIM	ECG V5 STE 0 00
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#### Waveform Zone – Low Priority visual alarm

ET01	10	V5 = -0.02	60	ECG	SpO <sub>2</sub>	ECG 🔺
DOE, JOHN	2472 🛓 🔒	SpO <sub>2</sub> Sensor Off	60	VE= 0	???	ST= 0.00



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### Pause alarm audio (tones):

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

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

# A

When the alarm audio has been turned off for the entire 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 is shown until a more current technical message occurs.

13:35:38



## Acknowledge alarms

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 Acknowledge 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.



If Batteries Die

\*Batteries are typically removed from the AriaTele Transmitter to place monitoring of the patient on hold. 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 Alarm Events:

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 priority alarm occurs.





### 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. Low priority alarms are NOT included in the alarm history list.

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).

Alarm History - DOE, JOHN					
	Start Time	End Time	Alarms		
	3/2 16:51:28	3/2 16:52:34	Low HR 45 Low Limit=50		
⊿	3/2 16:43:35	3/2 16:45:42	High HR 111 High Limit=110		
	3/2 16:44:29	3/2 16:45:40	High HR 144 Extreme High Limit=130		
	3/2 16:44:24	3/2 16:44:30	PSVT		
	3/2 16:43:26	3/2 16:43:37	PSVT		



# **Xhibit Telemetry Rate Alarms**

Rate is the first tab in the ECG, Alarms submenu. When Alarms is selected, Rate is the default view. This tab contains the controls for HR Alarms, alarm limits, and ECG Relearn.

### Adjusting Rate Alarm Limits

- 1. Select a ECG lead label button in the Waveform Zone to open the Parameter Settings>Alarms window for that parameter
- 2. The ECG parameter button is selected.
- 3. Alarms>Rate tab
- 4. HR Alarms: selected on or off
  - Select On to activate the High and Low heart rate alarms
  - 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 alarms limits. The dotted lines are the extreme alarm settings.



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# **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 seconds)
- Atrial Fibrillation
- Paroxysmal Supra Ventricular Tachycardia (PSVT)
- VE/Min (number of ventricular ectopic beats occurring in a minute)





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

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

NOTE: If Paced detection is ON, all pacer alarms are active by factory default.

Select the VE= x on the patient zone as a short cut to open the **Parameters Settings> Alarms> Arrhythmia** tab.



### **Default Telemetry Settings**

Default telemetry settings may be set in the **Privileged Access** menu and are care area specific. 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**

Select the ST = x on the patient zone as a short cut to open the **Parameters Settings > ST > Alarms** tab

#### ST Change for Single Lead:

For all leads selected, if any one lead violates the alarm threshold, an alarm sounds.

### 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 Single Lead or User 1.
- 2. Turn Alarm Limits ON.
- 3. Select Leads.

The selected leads are highlighted.

4. Turn Extreme ST alarm ON or OFF.



Parameter Settings: ET01, DOE, JOHN				
ECG	Alarms			
<u>ST</u> SpO2	ST Change Sngle Lead 1:00 mm ST Index User 1 Off	ST Alam On Off Select Leads J II III V5 aVR aVL aVF Alam Limis 100 Reset		
	Extreme ST On Off			

ST Alarms



# 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 Display

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**.

Touch the waveform zone to open the **Bedside View**. 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 and the associated ST values are displayed.

### The Patient View contains:

- Bedside View (Alarm Audio, Print, Freeze, Clinical Access – if available, and Stick 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 on-screen keyboard)



Print

Clinical Access





# **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 the Alarm Management)
- Settings
- Display

The selected tab is highlighted blue. For example: the tabs, Settings and View.

Each parameter has its own unique Settings options.

In the example to the right, the ECG Settings include selections to change ECG leads, parameter color, size of the waveform, and sweep speed.

### ECG Parameter Settings > Settings tab





### **Parameter Settings > Settings: Changing Lead Selection**

Select the lead label (example: II) on the patient zone as a short cut to open the **Parameters 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 must change the V Lead electrode position to the selected V Lead Label.





### **Parameter Settings > Display:**

Display tab allows you to show a parameter in the Waveform Zone or in the Numeric Zone in the Patient Zone or Bedside View.

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<sub>2</sub> measurements

 $\mathsf{SpO}_2$  measurements from the transmitter show as numerics in the Numeric Zone.

Note: Always use ECG Leads with the SpO<sub>2</sub>. The telemetry transmitter is not intended to be used as a standalone SpO<sub>2</sub> monitor.

To view the SpO<sub>2</sub> in the Numeric Zone, use the arrows at the right in the Numeric Zone.



### To set up SpO<sub>2</sub> for the telemetry patient

- 1. Connect the SpO<sub>2</sub> cable into the transmitter
- 2. To show the tabs for the SpO<sub>2</sub> Alarms, Settings, and Display, select the ECG parameter button in the Waveform Zone.
- Select the SpO<sub>2</sub> 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.





# **Task Bar**

The Task Bar, located in the Patient Info Area, contains 5 quick keys for easy access to various features.

**To open the Task Bar, select the arrow.** Features include:

- Sticky Notes
- Printer options
- Color Palette
- Minimize Bed
- Clinical Access 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.





#### **Sticky Notes:**

Select the Sticky Note icon to create a sticky note

- Use the arrow next to the Title field to select one of 5 predetermined notes.
- Or create up to 5 '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 5 sticky notes.
- Sticky Notes are reminders, are not printed, or added to the patient record.

### **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.







Minimize Bed:

The **Minimize Bed** icon allows you to 'hide' a patient zone that is not being utilized which makes more space available for viewing additional data on actively monitored patients. The **Minimize Bed** icon will be active only if a telemetry transmitter:

- Has not been tuned
- Has been tuned but no batteries have been inserted
- Disconnected from the network
- A zone is in an 'Unassigned' state.

The **Minimize Bed** 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 its position on the central, if the batteries have been inserted and the transmitter was previously tuned, or reconnected to the network.

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**Clinical Access:** 

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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**.



Access



# Printing

Printing at the Xhibit Central Station is available through the following menus:

- The Task Bar in the Patient Zone Title Bar
- The Bedside View Print button has the same print options as the Task Bar
- The Spacelabs icon in the Action Bar
- Trends Print button
- Print options available through Clinical Access

# To print any displayed waveform(s):

- 1. Select the **Printer** icon from the **Task Bar** in the Patient Zone Title Bar.
- 2. Select **Print Displayed** to print any waveforms that are being viewed in the **Waveform Zone**.







### To print selected waveforms:

- 1. Select the **Printer** icon from the **Task Bar** 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 seconds strip. Parameters must be displayed to print.

### To print all waveform and numeric data for all parameters:

- 1. Select the **Printer** from the Task Bar in the Patient Zone Title Bar.
- 2. Select Print All.

### To print a continuous strip of displayed waveforms:

- 1. Select the Printer from the Task Bar in the Patient Zone Title Bar.
- 2. Select Print Continuous.

### To STOP a continuous printout:

Select the icon in the Patient Zone Title Bar or select **STOP** button in the Bedside View.







# **Action Bar**





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

- Spacelabs
- Select Patient
- Minimize Bed
- Change Color (Color Palette)
- Dynamic Network Access (DNA)
- Help
- Home
- Technical message area Touch the message shown in the Action Bar to view all the current technical messages.
- Time/Date
- Alarm audio pause



### **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 Identity Displays button.
- 4. Select 1 or 2 column view.



Decreasing the number of zones or changing the dedicated display causes monitored patients to no longer be displayed. You must reassign beds to display zones.





#### Select Patients icon – to view a patient census list

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.



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### 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.

#### **Change 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.









# **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.



**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.



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NOTE: This document is intended as a quick start guide for the Spacelabs Xhibit™ (96102/96501/96820). For more detailed information, refer to the Spacelabs Xhibit™ (96102/96501/96820) Operations Manual (P/N 070-2114-05).

### **Contact Information**

Technical Support: <u>1-800-522-7025</u> Available 24 hours a day and 7 days a week.

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