

# Xhibit Central Station XC4 and XC48 96501/96102

For bedside monitors  
Xhibit® Software version 1.6.x  
Quick Start Guide

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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.

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# Xhibit Central Station – Patient Zone

The Xhibit® Central Station XC4 and XC48 Patient Zone provides a patient-centric view of all monitored parameters. Components to the Patient Zone are:

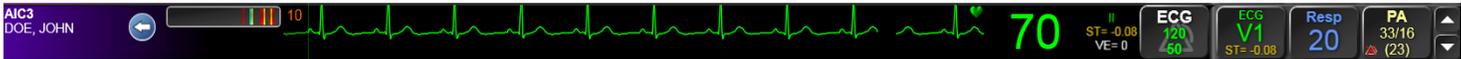
- Patient Info area
- Waveform Zone
- Numeric Zone

Single-column

Patient Info area

Waveform Zone

Numeric Zone



Two-columns (Patient Info area on top of Waveform Zone)

Waveform Zone

Numeric Zone

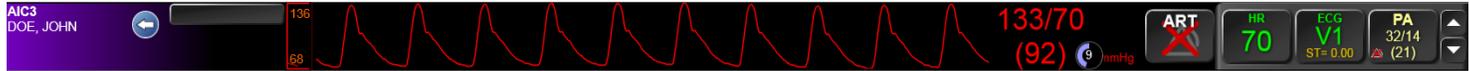
Waveform Zone

Numeric Zone



# Temporary view of Numeric Zone parameter

- Select a Numeric Zone parameter button to temporarily display the waveform or table in the Waveform Zone.
- The waveform will appear for 20 seconds, or until another parameter 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.



# Admit and discharge

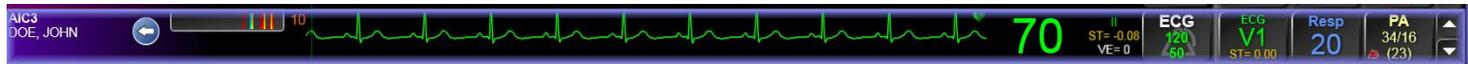
You can admit and discharge a patient from the Spacelabs bedside monitor or from the Patient Info View.

## To admit or discharge a patient:

1. Select the Patient title bar (includes bed and patient name) to open the Patient Info View.



*Note: If a patient is selected to view Bedside View or Clinical Access the patient zone is framed in blue.*



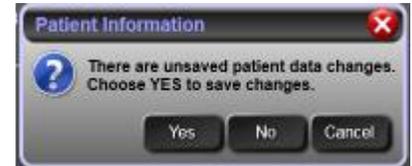
# Admit a patient

## To admit or discharge a patient: ...continues

2. Select either **Admit**, **Discharge**, or **Edit Patient Data**
3. Choose **Yes** (to clear data) or **No** (to keep data).
4. Enter patient information (if admitting or editing the data)
5. Select the **Save** button  
If you have not saved, a prompt will appear to remind you.



The screenshot shows the 'Patient Info' form in the BICS system. The form is titled 'BICS DOE JOHN' and has a close button in the top right corner. It features a navigation bar with 'Bedside View', 'Hemo Calcs', 'Oxy Calcs', and 'Patient Info'. On the left, there are buttons for 'Admit', 'Discharge', and 'Edit'. The main form area is divided into several sections: 'Patient Name and ID' with fields for Last Name (DOE), First Name (JOHN), Middle Name, ID 1 (UV\_SAFDDF4D), and ID 2; 'Location' with fields for Facility (Hospital B), Unit (ER), Bed, and Monitor Name (BPI6); 'Patient Information' with fields for Date of Birth (Year, Month, Day), Age, Sex (Male, Female, Unknown), Patient Type (Adult, Pediatric, Neonate), Height (Inches), Weight (lbs), BSA (m²), and BMI; and a 'Print' button.



# Assigning beds to an Unassigned zone

## To assign a bed to an unassigned zone:

1. Select the Patient Title bar that says, **Unassigned**.
2. In the **Select Bed** popup window, select a bed in the **Beds/Monitor** box.
3. Select **Save**.

## To transfer a patient from current bed to another bed:

1. Discharge the patient from the current bed.
2. Admit the patient to another bed.

# 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 module in the bedside monitor.

Alarm management features include:

- Audible alarm tones and pausing alarm tones
- When the tones are paused, a red X covers the bell, and a countdown timer shows.
- Visual indicators, alarm off indicators, and alarm messages
- Latching Message for High Priority Alarm Events
- Parameter Settings – change alarm limits
- 60-minute Alarm History Bar
- Alarm event review via integrated Clinical Access
- 30-minute Alarm Limit Review Trend
- When alarm audio is turned on for the entire Xhibit Central Station, the Action Bar is gray. When the alarm audio has been turned off for the entire Xhibit Central Station, 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.*

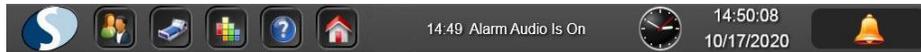
# Alarm management features...continued.

## To pause the alarm tones:

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



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



# Alarm priorities and visual appearances

Waveform Zone – High priority visual alarm



Waveform Zone – Medium priority visual alarm



Waveform Zone – Low priority visual alarm



# Latched message for High Priority 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 to acknowledge or until a new priority alarm occurs.



# Alarm limits – parameter settings

## To change the Alarm Limits – parameter settings:

1. Select a parameter label button in the Waveform Zone to open the Parameter Settings/Alarms window for that parameter.



2. Ensure the alarms are ON;
3. The selected parameter is highlighted in blue, example: ECG.
4. Select the up and down arrows next to the alarm setting to adjust the limits.
5. You may change any parameter's alarm limits by selecting from the list of parameters on the left.



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.

# 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
⚠	4/4 17:15:43	4/4 17:15:49	SpO <sub>2</sub> Desat 84 Limit=85
⚠	4/4 17:15:40	4/4 17:15:43	SpO <sub>2</sub> Low 86 Limit=90
⚠	4/4 17:14:33	4/4 17:14:43	PSVT
⚠	4/4 17:13:15	4/4 17:13:26	High HR 141 Extreme High Limit=140
⚠	4/4 17:13:10	4/4 17:13:15	PSVT
⚠	4/4 17:10:11	4/4 17:10:21	PSVT
⚠	4/4 17:09:33	4/4 17:09:40	SpO <sub>2</sub> Desat 84 Limit=85
⚠	4/4 17:08:08	4/4 17:08:18	High HR 141 Extreme High Limit=140
⚠	4/4 17:02:12	4/4 17:02:22	PSVT

# Parameter Settings - Settings

The Parameter Settings window provides access to ALL parameters being monitored at the bedside monitor. 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** included selections to change ECG leads, parameter color, size of the waveform, and sweep speed.



# Parameter Settings – Display

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

To change the order of a parameter, select a **Parameter** and move it up or down with the arrows.

Waveform priority is determined by the order as well as the amount of space available in each Patient Zone.

*Note: If a parameter has been deselected from both the Patient Zone and the Bedside View, a warning icon with a message shows informing you that the parameter alarms are not shown on this central station.*



# Taskbar

The **Taskbar**, located in the **Patient Info** area, contains 5 quick keys for easy access to various features.



## To open the Taskbar:

Select the arrow.

## Features include:

- **Sticky Notes**
- **Printer** options
- Color palette
- **Minimize Bed**
- **Clinical Access** (if enabled)
- **Standby**

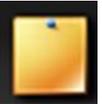
*Note: If an icon is light gray, such as the bed is in the image above, it is disabled or invalid due to connectivity issues or not useful due to system restrictions.*

# Taskbar...continued

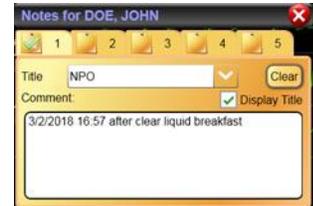
## Sticky Notes

### 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.



## 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. Also see Action Bar information.



## Unassign beds from the monitored zone:

1. Select the Spacelabs Menu. (the Spacelabs heart logo on the Action Bar).
2. Select the **Display Settings**.
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.

# Taskbar...continued

## 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**.



# Taskbar...continued

## Vital Sign Trends

Vital sign data is accessible from the Xhibit Central Station from either a dedicated or non-dedicated display.

### To review or print vital signs:

#### With Clinical Access

With Clinical Access, trends are stored up to 72 hours.

1. Select **Clinical Access** from the Taskbar in the Patient Zone title bar or the **Clinical Access** button on the left side of the Bedside View.
2. Select the **Print** button to print the displayed vital signs.

#### Without Clinical Access

Without Clinical Access, vital signs are stored for up to 96 hours.

1. Select the Waveform Zone area to open the Bedside View.
2. Select the **Trends** button.
3. Touch the **Print** button to print the displayed vital signs.

With Clinical Access



Without Clinical Access



# 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 any displayed waveform(s):

1. Select the Printer icon from the taskbar in the **Patient Zone** title bar.
2. Select **Print Displayed** to print any 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.



# Patient View

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

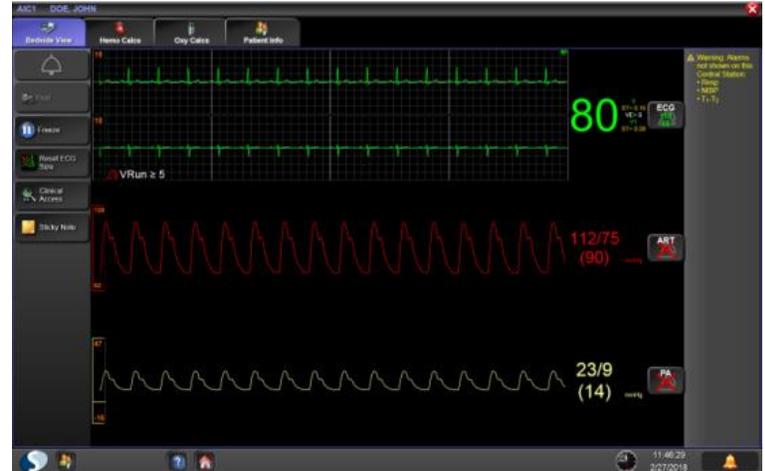
## To open the Bedside View:

Touch the waveform zone.

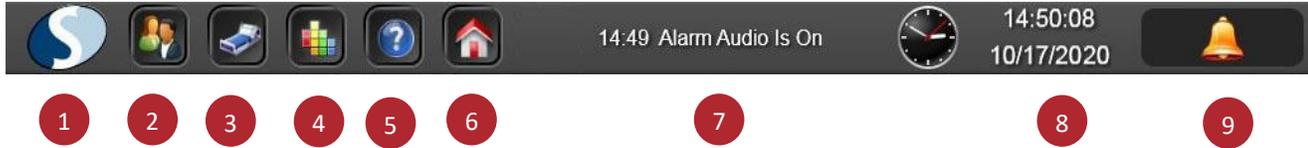
The **Patient View** shows on a separate dedicated display or in the lower section of the Home Screen of a non-dedicated display. When **Bedside View** is selected, all ECG leads, and the associated ST values are displayed.

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)
- **Oxy Calcs View** (Oxygenation Calculations – See the operations manual, P/N 070-2114-xx for details.)
- Patient Infor view (**Admit, Discharge, Edit, Print,** and access to on-screen keyboard)



# 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 Bed**
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 causes monitored patients to no longer be displayed. You must 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 its position on 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 24 as part of the taskbar information.

Printing features are mentioned as part of the taskbar information on page 35.

*Note: This document is intended as a quick start guide for the Xhibit central station XC4 and XC48. 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.

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