



CamBot Camera Control Panel User Guide

Version 2.0

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CamBot Camera Control Panel User Guide

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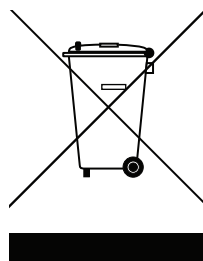
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You can also contact Ross Video for more information on the environmental performances of our products.

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Introduction

This chapter contains the following sections:

- “**Overview**” on page 1–1
- “**Documentation Conventions**” on page 1–1
- “**Contacting Technical Support**” on page 1–2

Overview

This guide describes how to use the Sony camera control panel to configure and control selected Sony robotic cameras.

Documentation Conventions

Special text formats are used in this guide to identify parts of the user interface, text that a user must enter, or a sequence of menus and submenus that must be followed to reach a particular command.

Interface Elements

Bold text is used to identify a user interface element such as a dialog box, menu item, or button. For example:

In the **Media Manager Client**, tap **Channel 1** in the **Channels** section.

Touch-Screen Support

This guide assumes you are using a touch-screen. The guide includes instructions to tap user interface elements. If you are using a mouse instead of a touch screen, click the mouse instead of tapping.

User Entered Text

Courier text is used to identify text that a user must enter. For example:

In the **File Name** box, enter `Channel01.property`.

Referenced Guides

Italic text is used to identify the titles of referenced guides, manuals, or documents. For example:

DashBoard Server and User Rights Management User's Guide

Menu Sequences

Menu arrows are used in procedures to identify a sequence of menu items that you must follow. For example, if a step reads “**Server > Save As,**” you would tap the **Server** menu and then tap **Save As**.

Important Instructions

Star icons are used to identify important instructions or features. For example:

- ★ Contact your I.T. Department if you experience communication issues with DashBoard and are running anti-virus software.

Contacting Technical Support

At Ross Video, we take pride in the quality of our products, but if problems occur, help is as close as the nearest telephone.

Our 24-hour Hot Line service ensures you have access to technical expertise around the clock. After-sales service and technical support is provided directly by Ross Video personnel. During business hours (Eastern Time), technical support personnel are available by telephone. After hours and on weekends, a direct emergency technical support phone line is available. If the technical support person who is on call does not answer this line immediately, a voice message can be left and the call will be returned shortly. This team of highly trained staff is available to react to any problem and to do whatever is necessary to ensure customer satisfaction.

- **Technical Support:** (+1) 613-652-4886
- **After Hours Emergency:** (+1) 613-349-0006
- **E-mail:** techsupport@rossvideo.com
- **Website:** <http://www.rossvideo.com>

The CamBot Control Panel

The CamBot Control Panel is a DashBoard panel used to configure and control CamBot robotic heads and cameras mounted to them.

This document describes the CamBot camera control panel and how to use it. The following topics are included:

- “**Installing the Camera Control Panel Files**” on page 2–1
- “**Installing and Configuring MasterPanel Software**” on page 2–1
- “**Establishing a Device Connection to the Joystick Server**” on page 2–3
- “**Launching the Camera Control Panel**” on page 2–4
- “**Configuration**” on page 2–4
- “**Controlling Cameras, and Storing and Recalling Shots**” on page 2–6
- “**Backing up Camera Control Panel Data**” on page 2–8
- “**User Interface Reference**” on page 2–8

Installing the Camera Control Panel Files

The camera control panel is a DashBoard panel. DashBoard must be installed to run the camera control panel. DashBoard is available as a free download from www.rossvideo.com.

To install the camera control panel:

1. Ensure that DashBoard is installed.
2. Open the camera control panel zip file and then extract the **CamBotCamera** folder into the C:\ directory.

Installing and Configuring MasterPanel Software

MasterPanel is an application that controls CamBot robotic heads and interprets data from the Ross Video joystick panel. It is required if your system includes a Ross Video joystick panel. Although users do not interact with the MasterPanel user interface, MasterPanel must be running whenever the system is in use.

You must configure MasterPanel to work with the system, and ensure one or more CamBot shot list files exist.

Typically, MasterPanel is pre-installed on the CamBot Computer. In some cases, Ross Video may instruct you to upgrade to a newer version.

To install or upgrade MasterPanel:

1. On the CamBot Computer, navigate to the C:\ directory.
2. If the C:\ directory contains a **Cambotics** folder, rename the folder so it can act as a backup.
For example, you might rename the folder **Cambotics_backup**.
3. In the C:\ directory, create a new folder named **Cambotics**.
4. Extract the contents of the **masterpanel** zip file into the C:**Cambotics** folder.
5. If you are adding the CamBot Control Panel to an existing CamBot system and you want to retain data such as camera IP addresses, camera names, etc, do the following:
 - a. Navigate to the **Cambotics backup** folder you created in **Step 2**.
 - b. Select all files that end in a **.cam** extension, and copy them.
 - c. Paste the copied files into the C:**Cambotics** folder.

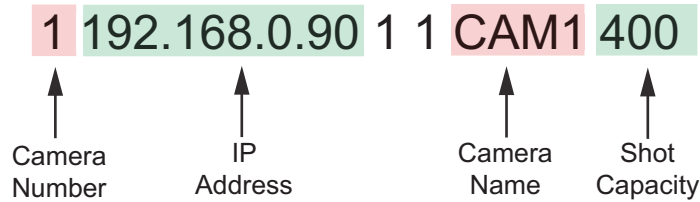
When prompted about existing files with the same names, tap the **Copy and Replace** option.

To configure MasterPanel:

1. On the CamBot Computer, navigate to the C:\Cambotics folder.
2. If your system includes CamBot robotic heads, edit the **devices.cam** file, as follows:

- a. Open the **devices.cam** file in a text editor, such as Notepad.
- b. In the list of cameras at the end of the file, specify the **camera number**, **IP address**, **camera name**, and **shot capacity** for each camera in your system.

Tip: Each line contains several pieces of data, separated by spaces. The line format is described at the start of the file, and shown below:



IMPORTANT: Set the shot capacity to **400**. This is the maximum number of shots for CamBot units.

Tip: If you are adding the CamBot Control Panel to an existing CamBot system, the IP addresses and camera names may already be defined.

IMPORTANT: If you add cameras or update camera IP addresses in the **devices.cam** file, you must also restart the CamBot Camera Control panel, or tap the **Refresh Master Panel Connection** button from within the CamBot Camera Control panel.

Refreshes the connection to the MasterPanel application. Enables you to establish a connection to cameras that have been added or that have had their IP addresses changed in the MasterPanel devices.cam file.

- c. Save and close the **devices.cam** file.
3. Edit the **masterpanel1.exe.config** file, as follows:
 - a. Open the **masterpanel1.exe.config** file in a text editor, such as Notepad.
 - b. Find the section of the file that resembles the following:

```
<CambotControlPanel
  MaxDevices="8"
  DeviceButtonsPerRow="8"
  MaxShots="96"
  MaxVias="16"
  EnableShotReflow="true"
  EnableCameraWindowButtonBar="true"
  EnableNonModalJoysticksWindow="true"
  EnableMainWindowNotAlwaysOnTop="false"
  MouseWheelTimeIncrement="15"
```

- c. Set the **MaxDevices** value to **10**.
- d. Set the **DeviceButtonsPer Row** value to **10**.
- e. Set the **MaxShots** value to **400**.

- f. If you do not want the **CamBot Control Panel** window to always be on top of all other windows, set the **EnableMainWindowNotAlwaysOnTop** property to **true**.

Tip: We recommend setting this property to **true** to maximize visibility of the camera control panel.

- g. Save and close the **masterpanell.exe.config** file.

4. Launch MasterPanel (C:\Cambotics\masterpanell.exe).

Tip: To make the MasterPanel application more readily available, create a shortcut to the application, and place the shortcut on your desktop.

5. In the **CamBot Control Panel** window, tap the **Configure** button.
6. In the **Configuration** window, tap the **Engineering Screen** button.
7. In the **password** box, type the password, **foo**.
8. Tap **OK**
9. In the **Engineering Configuration** window, tap the **automation cam-switch following** button to turn it **off**.
10. Tap the **save changes and exit** button.
11. In the **Configuration** window, tap the **remote** button until it reads “**remote: Ross Video**”.
12. Tap the **save config settings** button.
13. Tap the **exit** button.
14. Leave MasterPanel open for the next procedure.

To ensure that one or more CamBot shot list files exist:

1. Navigate to the C:\Cambotics folder.
2. If the **Cambotics** folder contains any files with a **.dat** extension, such as **file1.dat**, then CamBot shot list files exist.

Skip the remaining steps.

3. In the **CamBot Control Panel** window, if the **System** button is visible, tap it.
4. Tap the **File Save** button.
The **File Save** window appears.
5. In the **File Save** window, tap a **file** button.
The button turns red.
6. Tap the **Save File** button.
A message notifies you that the file has been saved.
7. In the message box, tap **OK**.
8. Tap the **Return** button.
9. Minimize the **CamBot Control Panel** window, but do not close it.
MasterPanel must be running whenever you use the CamBot Control Panel.

Establishing a Device Connection to the Joystick Server

This procedure applies only to systems that include a Ross Video joystick panel.

The MasterPanel software includes a joystick server component. You must establish a device connection in DashBoard to enable the CamBot Control Panel to use the Ross Video joystick panel.

To Establish a Device Connection to the Joystick Server:

1. Ensure that **MasterPanel** is running (C:\Cambotics\masterpanel1.exe).
2. In **DashBoard**, from the **File** menu, tap **New**, and then tap **TCP/IP openGear Frame**.

The **New TCP openGear Frame Connection** dialog box appears.

3. In the **IP Address** box, type **localhost**.
4. In the **Display Name** box, type a name for the node.

For example, you might name it **Robots**. The name doesn't matter.

5. Tap **Finish**.

The new node appears in the tree. Because **MasterPanel** is running, the node icon includes a green dot.

Launching the Camera Control Panel

Add the camera control panel to the **DashBoard** File Navigator, to make it readily available from **DashBoard**.

To add the camera control panel to DashBoard File Navigator:

1. Start **DashBoard**.
2. From the **Views** menu, tap **File Navigator**.
3. On the **File Navigator** tab, tap the green + symbol.
The **Browse for Folder** dialog appears.
4. Navigate to the **CamBotCamera** folder located in **Computer > OS (C)**, and then tap **OK**.
5. In the **File Navigator** tree, expand the **CamBotCamera** folder to show the **CamBot.grid** file.
6. To open the camera control panel anytime, double-tap the **CamBot.grid** file.

The camera control panel will always be available from the **DashBoard** File Navigator.

Configuration

This section describes how to perform the following configuration tasks:

- “**Configuring Connectivity**” on page 2–4
- “**Configuring Shot Store Mode**” on page 2–5
- “**Renaming Presets (Shots)**” on page 2–5
- “**Saving and Loading Camera Data**” on page 2–6

For more detailed information about specific configuration settings, see “**Camera Configuration Window**” on page 2–8.

Configuring Connectivity

You can configure settings that enable the camera control panel to communicate with cameras and the Ross Video joystick panel (if equipped).

To configure connectivity:

1. In the camera control panel, tap the **Config** button.
2. On the **General** tab, tap the **Refresh Master Panel Connection** button to ensure the connection is active.
Tip: The MasterPanel application must be running whenever you use the CamBot Camera Control panel. MasterPanel is at **C:\Cambotics\masterpanell.exe**.
3. If any of the cameras are mounted in an inverted position, on the **Cameras** tab, select the **Invert Horizontal Axis** and **Invert Vertical Axis** check boxes as required.
Tip: Invert camera axes as required to make all cameras behave consistently when manipulated by any controls, including joysticks.
4. On the **Joystick** tab, check that joystick data is shown.
The **Joystick** tab displays raw data from the Ross Video joystick panel (if equipped), for diagnostic purposes. The data is not configurable. If the tab does not show data, or says **No Connection**, then no connection to the joystick is detected. Ensure that MasterPanel is running, and then check the joystick data again.

Configuring Shot Store Mode

The camera control panel has two buttons related to storing and recalling shots: **Store Shot**, and **Recall Shot**. By default, after you use the **Store Shot**, the **Recall Shot** button becomes the active button. If you then tap a shot button, the shot is recalled because the **Recall Shot** button is active. This helps protect you from overwriting shots if you accidentally tap a shot button without first tapping the **Recall Shot** button.

You can change the behavior of these buttons so that whichever button you tap remains active until you tap a different one.

To configure shot store mode:

1. In the camera control panel, tap the **Config** button.
2. In the **Store Mode** list, select one of the following options:
 - **1-Time** — After you store or delete a shot, the **Recall Shot** button becomes the active button.
 - **Hold** — Whichever button you tap (**Store Shot**, or **Recall Shot**) remains active until you tap a different one.
Tip: The **Hold** mode is helpful when you want to add or update many presets at once, such as during commissioning.

Renaming Presets (Shots)

Every preset, or shot, has a number. They also have names.

Shot numbers cannot be changed, but you can change the shot names to make them more meaningful.

To rename shots:

1. In the CamBot camera control panel, create all your shots.
For more information, see “**Controlling Cameras, and Storing and Recalling Shots**” on page 2–6.
2. Save your shots in a **Camera File**.
Note the name of the file. This is also the name of the CamBot shot list file.
For more information, see “**Saving and Loading Camera Data**” on page 2–6.
3. In the **Master Panel** application, load the CamBot shot list file, rename the shots, and then save the shot list file.
For more information, see the *CamBot Control System User Guide (5100DR-503-xx)*.
4. In the CamBot camera control panel, load the **Camera File**.

Saving and Loading Camera Data

You can save all camera data in a file, and later load that file back into your camera control panel. Camera data includes camera configuration data and preset (shot) data.

Note: When you load a camera data file, any unsaved changes you made are lost. If you want to save your current camera data, do so before you load a camera data file.

To save a camera data file:

1. In the camera control panel, tap the **Config** button.
2. In the **Camera File** box, tap the camera for which you want to save data, or tap **All Cameras** to save data for all cameras.

This feature enables you to save CamBot shot list data for each camera individually.

3. Beside the **Camera File** box, tap the **Save File** button.

The **Save Camera File** dialog box appears.

4. In the **Filename** box, type a new name for the camera data file.

Tip: this filename is also the name of the CamBot shot list file.

5. Tap **Save As**.

The camera data file is saved.

To load a camera data file:

1. In the camera control panel, tap the **Config** button.
2. In the **Camera File** box, tap the camera for which you want to load data, or tap **All Cameras** to load data for all cameras.

This feature enables you to load CamBot shot list data for each camera individually.

3. Beside the **Camera File** box, tap the **Load File** button.

The **Load Camera File** dialog box appears.

4. Tap the name of the file you want to load, and then tap the **Load File** button.

The camera data file loads.

Controlling Cameras, and Storing and Recalling Shots

This section describes how to manually control cameras, and how to store and recall shots.

Controlling a Camera

This section describes how to use the camera control panel to control cameras. After you move a camera, you can save its position as a shot to be recalled later.

Tip: If your system includes a joystick panel, you can use the joystick to move cameras and use the camera control panel to store and recall shots.

To position a camera:

1. In the camera control panel, tap the **Controls** button.
2. Tap a camera button to control that camera.

Tip: The ten camera buttons are in a row along the top of the window.

3. Move the camera using either the Ross Video joystick panel, or the Camera Control window:
 - To use the Ross Video joystick panel:
 - › **Pan** — Push the right joystick right and left.
 - › **Tilt** — Push the right joystick forward and backward.
 - › **Zoom** — Rotate the right joystick.
 - › **Focus** — Turn the **FOCUS** knob.
 - To use the Camera Control window, tap the **PTZ Controls** button, and then adjust the following as required:
 - › **Pan and Tilt** — Tap the **Positioner** button to choose between **PAN** / **TILT** sliders or the pan/tilt positioner, and then move the camera.
 - › **Zoom** — Tap and drag the **ZOOM** slider handle to adjust the zoom.
 - › **Focus** — Tap and drag the **FOCUS** slider handle to adjust the focus.

Tip: If the **FOCUS** slider is visible but not available, tap the **Auto Focus** button to turn off auto focus.

Storing and Recalling Shots

You can save a camera's position as a shot and recall it later.

After you create and store shots, you can save them in a camera data file. For more information, see “**Saving and Loading Camera Data**” on page 2–6.

To store a shot:

1. Move the camera to the position you want to store as a shot.

For more information, see “**Controlling a Camera**” on page 2–6.
2. Tap the **Store/Recall Shots** button.
3. Tap the **Store Shot** button.
4. Do one of the following to store the shot:
 - On the numeric keypad, type the shot number and then tap **Enter**.
 - Store the shot graphically:
 - › Tap a **Bank** button to select a shot bank.

Tip: Each shot bank contains 100 shots. Bank 0 contains shots 0 to 99, bank 1 contains shots 100 to 199, and so on.
 - › Tap a shot button to store the shot.

Tip: Blue shots buttons already shots stored. If you tap a blue button, the system overwrites the existing shot with the new data.
5. Rename the shot, if necessary.

For more information, see “**Renaming Presets (Shots)**” on page 2–5.

To recall a shot:

1. Tap the **Store/Recall Shots** button.
2. Tap the **Recall Shot** button.
3. Do one of the following to recall the shot:
 - On the numeric keypad, type the shot number and then tap **Enter**.
 - Recall the shot graphically:
 - › Tap a **Bank** button to select a shot bank.

Tip: Each shot bank contains 100 shots. Bank 0 contains shots 0 to 99, bank 1 contains shots 100 to 199, and so on.
 - › Tap a shot button to recall the shot.

Tip: Only blue buttons contain shots.

Backing up Camera Control Panel Data

When your camera panel is completely configured and ready for use, back up the camera control panel files.

To back up camera control panel files:

1. On the camera control computer, navigate to the C:\ directory.
2. Create a copy of the **CamBotCamera** folder and save it with a new name.
3. Store a copy of the backup folder in a safe place, such as on a different computer, in a backed-up network location, or on a mobile storage device such as a USB stick.

User Interface Reference

This section describes the controls available in the CamBot camera control panel.

The camera control panel consists of two interfaces:

- **Camera Configuration (Config) Window** — Enables you to configure camera settings such as camera names, IP addresses, and preset (shot) names. For more information, see “**Camera Configuration Window**” on page 2–8.
- **Camera Control (Controls) Window** — Enables you to operate cameras. You can move cameras, and store and recall shots. For more information, see “**Camera Control Window**” on page 2–11.

Camera Configuration Window

The camera configuration window enables you to configure camera settings such as camera names, IP addresses, and preset (shot) names.

To access the camera configuration window:

- Tap the **Config** button.

The **Config** window includes the following tabs:

- “**General Tab**” on page 2–8
- “**Cameras Tab**” on page 2–10
- “**Preset Names Tab**” on page 2–11
- “**Joystick Tab**” on page 2–11

General Tab

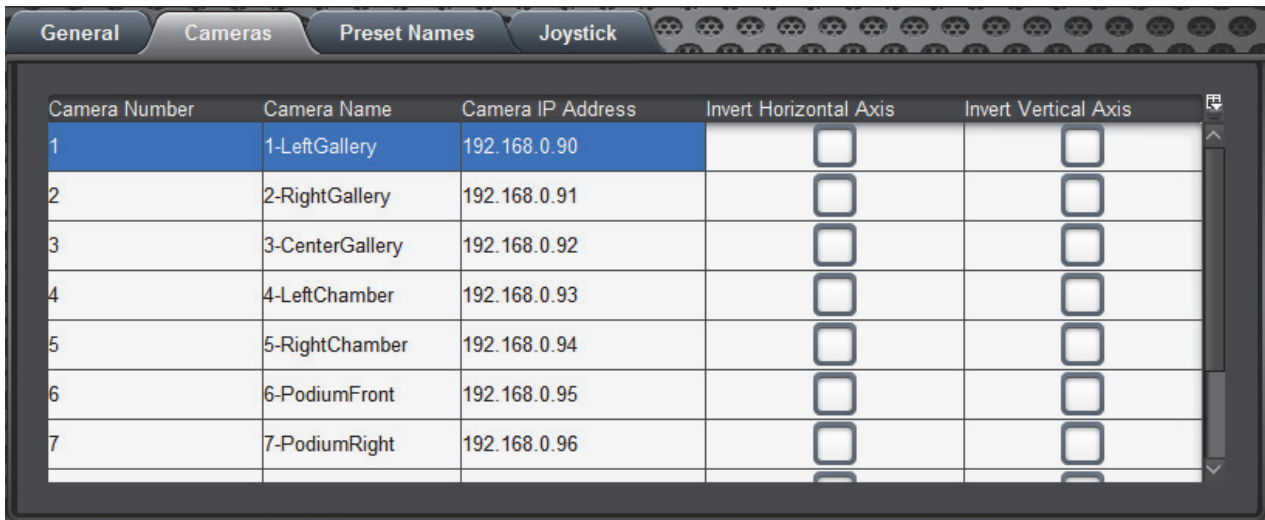
The **General** tab includes the following settings and buttons:

Setting or Button	Description
Debug	Debug mode collects information about camera control panel performance. Turn Debug mode on only if asked to do so by Ross Video Technical Support.
Master Panel IP	Shows the IP address of the CamBot MasterPanel software. This is not configurable.

Setting or Button	Description
Store Mode	<p>By default, after you use the Store Shot button, the Recall Shot button becomes the active button. If you then tap a shot button, the shot is recalled because the Recall Shot button is active. This helps protect you from overwriting or deleting shots if you accidentally tap a shot button without first tapping the Recall Shot button.</p> <p>The Store Mode feature enables you to change the behavior of these buttons so that whichever button you tap remains active until you tap a different one.</p> <p>The options are as follows:</p> <ul style="list-style-type: none"> • 1-Time — After you store or delete a shot, the Recall Shot button becomes the active button. • Hold — Whichever button you tap (Store Shot or Recall Shot) remains active until you tap a different one.
Camera File	<p>Select an option for loading or saving camera data, including shots:</p> <p>Tap the camera for which you want to load/save data, or tap All Cameras to load/save data for all cameras.</p>
Load File	Enables you to load a camera data file.
Save File	Enables you to save a camera data file.
Refresh Master Panel Connection	Refreshes the connection to the MasterPanel application. Enables you to establish a connection to cameras that have been added or that have had their IP addresses changed in the Master Panel devices.cam file.

Cameras Tab

Figure 2.1 shows the Cameras tab.



Camera Number	Camera Name	Camera IP Address	Invert Horizontal Axis	Invert Vertical Axis
1	1-LeftGallery	192.168.0.90	<input type="checkbox"/>	<input type="checkbox"/>
2	2-RightGallery	192.168.0.91	<input type="checkbox"/>	<input type="checkbox"/>
3	3-CenterGallery	192.168.0.92	<input type="checkbox"/>	<input type="checkbox"/>
4	4-LeftChamber	192.168.0.93	<input type="checkbox"/>	<input type="checkbox"/>
5	5-RightChamber	192.168.0.94	<input type="checkbox"/>	<input type="checkbox"/>
6	6-PodiumFront	192.168.0.95	<input type="checkbox"/>	<input type="checkbox"/>
7	7-PodiumRight	192.168.0.96	<input type="checkbox"/>	<input type="checkbox"/>

Figure 2.1 Cameras Tab

The Cameras tab includes the following settings and buttons:

Setting or Button	Description
Camera Number	Displays the numbers of the cameras. This is not editable. Each row in the table represents one camera.
Camera Name	Specify a meaningful name for the camera.
Camera IP Address	Displays the IP addresses of the cameras. This is not editable. Each row in the table represents one camera. For information about configuring camera IP addresses, see “ Installing and Configuring MasterPanel Software ” on page 4–2.
Invert Horizontal Axis	Reverses the direction the camera pans when manipulated by the joystick or the Camera Control window. Use this option if the camera is mounted in an inverted position.
Invert Vertical Axis	Reverses the direction the camera tilts when manipulated by the joystick or the Camera Control window. Use this option if the camera is mounted in an inverted position.

Preset Names Tab

Figure 2.2 shows the **Preset Names** tab.



Figure 2.2 Preset Names Tab

The **Preset Names** tab includes the following settings and buttons:

Setting or Button	Description
Camera tabs	Each Camera tab corresponds to a camera in the system. Each camera has a separate list of presets. Tap a tab to set preset names for shots on a different camera.
Preset Number	Displays the numbers of the camera presets (shots). This is not editable. Each row in the table represents one preset.
Preset Names	Displays the names of the camera presets (shots). This is not editable. Each row in the table represents one preset. For information about renaming presets, see “ Renaming Presets (Shots) ” on page 2–5.
Send Camera Preset Names	Tap this button to send the names of presets (shots) to other inter-connected Dashboard panels, such as a Legislative Control System (LCS) panel. Sending the preset names enables the other panel(s) to display them. Tip: Preset names are defined in Master Panel. For more information, see “ Renaming Presets (Shots) ” on page 2–5.

Joystick Tab

The Joystick tab displays raw data from the Ross Video joystick panel. If the tab does not show data, or says **No Connection**, then no connection to the joystick is detected.

Camera Control Window

The camera control window enables you to operate cameras. You can move cameras, and store and recall shots.

To access the camera control interface:

- Tap the **Controls** button.

The **Controls** interface includes the following windows:

- “**Store/Recall Shots Window**” on page 2–12

- “PTZ Controls Window” on page 2–13

Store/Recall Shots Window

The **Store/Recall Shots** window enables you to store camera positions as shots for future recall. It also enables you to recall those shots. The **Store/Recall Shots** window is used as an operator interface for controlling cameras during a presentation.

To access the Store/Recall Shots window:

- From the camera control interface, tap the **Store/Recall Shots** button.

Figure 2.3 shows the **Store/Recall Shots** window.

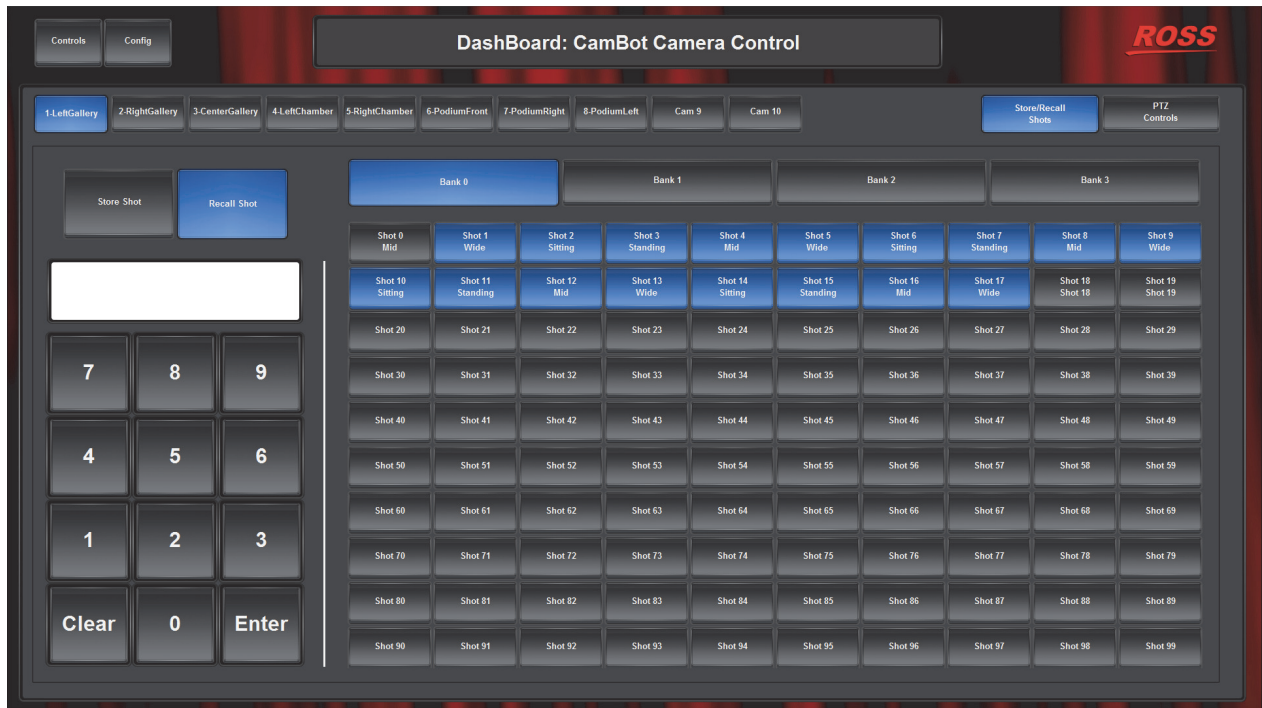


Figure 2.3 Store/Recall Shots Window

The **Store/Recall Shots** window includes the following settings and buttons:

Setting or Button	Description
Camera buttons	The row of ten buttons across the top of the Store/Recall Shots window includes one button per camera. Tap a button to select the camera to which you want to store shots, or from which you want to recall them.
Store Shot button	Tap the button to switch to Store Shot mode. In Store Shot mode, you can save the current camera position as a shot for future recall.
Recall Shot button	Tap the button to switch to Recall Shot mode. In Recall Shot mode, you can recall saved shots for the current camera. Recall Shot mode is used for camera operation.
Shot Selection keypad	Type a shot number and then press the Enter button on the keypad to store or recall a shot, depending on the current mode. Alternatively, you can type a number in the box above the keypad and then press the Enter button on the keypad.

Setting or Button	Description
Bank buttons	Tap a bank button to quickly access a group of shots. The camera control panel can only display 100 shot buttons at a time. Shot banks enable you to change which group of 100 shots is shown.
Shot buttons	Tap a Shot button to store or recall a shot, depending on the current mode. Shot buttons are used for camera operation. Tip: Be aware of the current mode (Store Shot , or Recall Shot) before you tap a Shot button.

PTZ Controls Window

The **PTZ Controls** window enables you to manually adjust the position of the currently-selected camera. You can move cameras during a presentation, or move them into position to store a shot.

To access the PTZ Controls window:

- From the camera control interface, tap the **PTZ Controls** button.

Figure 2.4 shows the **PTZ Controls** window.

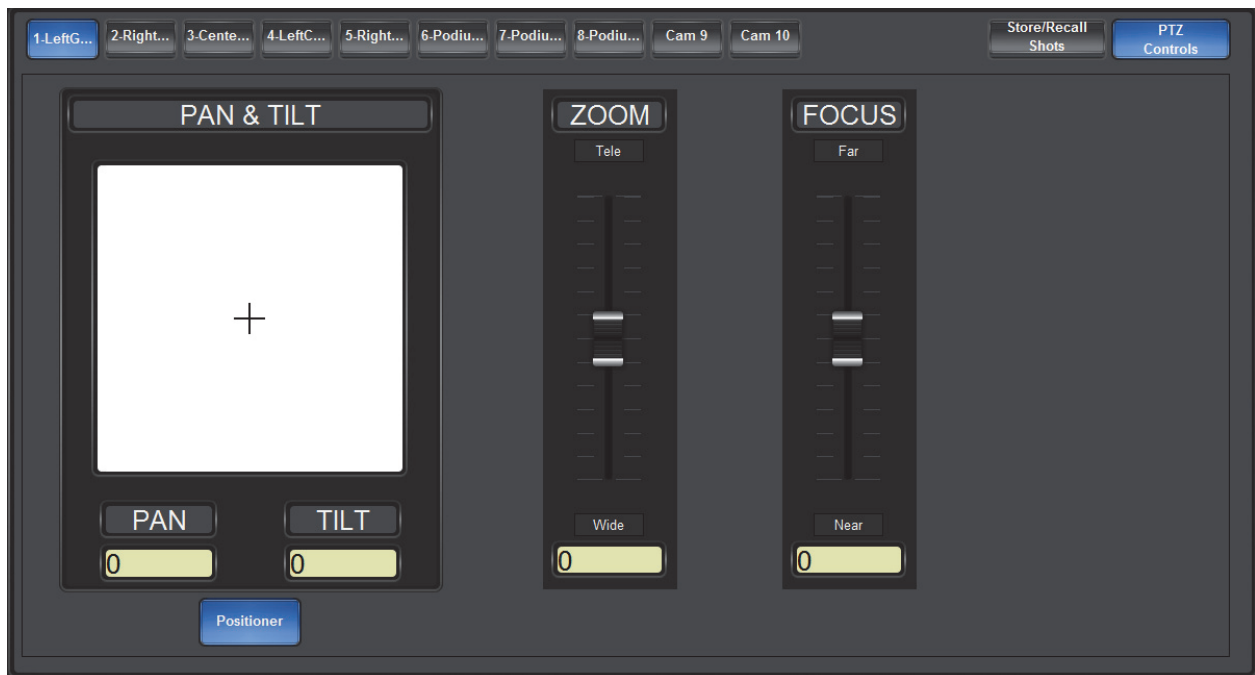


Figure 2.4 PTZ Controls Window (showing Pan/Tilt positioner)

The **PTZ Controls** window includes the following settings and buttons:

Setting or Button	Description
Camera buttons	<p>The row of ten buttons across the top of the PTZ Controls window includes one button per camera.</p> <p>Tap a button to select which camera you want to move.</p>
Positioner button	<p>Switches between interfaces for adjusting pan and tilt positions:</p> <ul style="list-style-type: none"> • PAN and TILT sliders — enable you to adjust pan and tilt individually. • PAN & TILT Positioner — enables you to adjust pan and tilt simultaneously. <div data-bbox="560 485 1307 1031" style="text-align: center;"> </div> <p style="text-align: center;"><i>Figure 2.5 Pan/Tilt Sliders (left) and Pan/Tilt Positioner (Right)</i></p>
PAN and TILT sliders	<p>Tap and drag the PAN or TILT slider handles to pan or tilt the camera.</p> <p>Alternatively, you can use the up/down arrows beside the box to select a value.</p> <p>Higher pan values pan right. Higher tilt values tilt upwards.</p> <p>Pan and tilt slider values are relative, not absolute. When you release the slider, the value shown returns to zero.</p>
PAN & TILT Positioner	<p>Tap and drag the cross-hairs within the white box until the camera is in the desired pan/tilt position.</p> <p>Positioner values are relative, not absolute. When you release the cross-hairs, they return to the center and the values return to 0.</p>
ZOOM slider	<p>Tap and drag the ZOOM slider handle up or down to zoom the lens.</p> <p>Alternatively, you can use the up/down arrows beside the box to select a value.</p> <p>Higher values are towards telephoto, and lower values are towards wide.</p> <p>Zoom slider values are relative, not absolute. When you release the slider, the value shown returns to 0.</p>
FOCUS slider	<p>Tap and drag the FOCUS slider handle up or down to focus the lens manually.</p> <p>Alternatively, you can use the up/down arrows beside the box to select a value.</p> <p>Higher values are towards far focus, and lower values are towards near focus.</p> <p>Focus slider values are relative, not absolute. When you release the slider, the value shown returns to 0.</p>