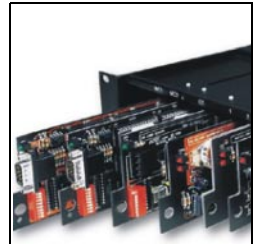




instruction manual

PT10-PLV3+

Multi-Camera Pan/Tilt System



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Table of Contents

PT10-PLV3+ Multi-Camera Pan/Tilt System	1
PT10-PLV3+ System Components	1
Multi-Camera Configuration with CMA-D3 (up to 100 m)	3
Installation and Wiring	5
Preparing the AXB-PT10 for Communication	5
Mounting the AXB-PT10	5
Mounting and Balancing the Camera/Lens	7
Wiring Information for the AXB-PT10	9
Wiring Guidelines	10
Using the AXlink connector for data and power	10
Wiring Information for the AXP-PLV	11
Using the AXlink mini-XLR connector for data and power	11
Using the AXCENT3	11
Using the camera control RS-232 DB-9 connector	11
Putting It All Together	13
Suggested Wire Types (for custom cables)	13
AXlink - (local-area, low-power requirement)	14
AXlink - (local-area, high-power requirement)	14
AXlink - (wide-area, local-power supply)	14
Using the AXP-PLV PosiTrack Video Pilot	15
Using the AXP-PLV Touch Panel Program	16
Troubleshooting	19
Setting the RS-232 DIP switch (S2)	19
Sony Technical Support	21
On the Web	21
Telephone Support	21
Written Requests for Assistance	21

PT10-PLV3+ Multi-Camera Pan/Tilt System

The AMX Multi-Camera Control System delivers an advanced modular solution for precise camera positioning applications. The main system component is the PosiTrack Pilot Video touch panel (PosiPilot) that provides on-screen camera preview and controls the AXB-PT10 camera pan/tilt head over a 4-wire (AXlink) data bus. The system can control up to six Sony® DXC-390/950 video cameras and store/recall up to 24 presets for each camera.

PT10-PLV3+ System Components

<p>AXP-PLV PosiTrack Pilot Video Panel Camera Controller (PosiPilot)</p> <p>The AXP-PLV PosiTrack Pilot Video Panel Camera Controller (PosiPilot) provides integrated, programmable control of pan/tilt heads and lenses. The integrated color video touch panel gives you touch control and on-screen video monitoring.</p>	
<p>AXB-PT10 Pan/Tilt Camera Head</p> <p>This AXB-PT10 is a fully integrated camera-positioning controller that provides onboard control of camera pan/tilt, and lens zoom/focus/iris.</p> <p>The AXB-PT10 power rating is 2 A @ 12 VDC. This power supply must be local.</p>	
<p>AXCENT³ Integrated Controller</p> <p>The AXCENT³ Integrated AXCESS Controller is a multi-port Master Controller that is programmed to control RS232/422/485 relay, IR/serial/data, and input/output devices.</p>	
<p>PS2.8 Power Supply</p> <p>The PS2.8 Power Supply provides up to 2.8 A of regulated power, automatically switches for 110/220 V AC operation, and is over-load protected.</p> <p>The PS2.8 supplies power to both the AXB-EM232 and AXP-PLV.</p>	



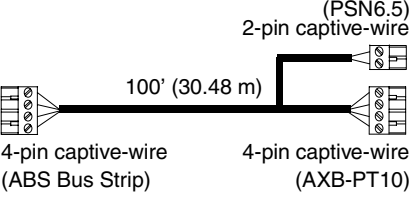
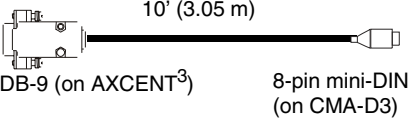
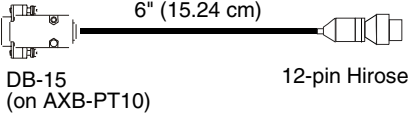
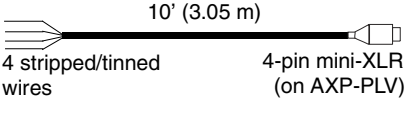
<p>PSN6.5 Power Supply</p> <p>The PSN6.5 NetLinx Power Supply distributes switched-mode 12 VDC power @ 6.5 A to up to three AMX devices.</p> <p>The PSN6.5 supplies power to the AXB-PT10 pan/tilt camera head.</p>	
<p>AXlink Bus Strip</p> <p>The ABS AXlink Bus Strip is a 10-connector AXlink terminal strip designed to simplify connecting multiple AXlink devices in an AMX Control System.</p> <p>Use the included double-sided tape to securely affix the unit to a surface.</p>	
<p>CC-AXL AXlink Connection Cable (4-pin captive-wire to 4-pin captive-wire, with 2-pin local power connector)</p> <p>The AXlink cable is used in all configurations, and connects the AXB-PT10 devices to the AXCENT³ Master Controller. The 2-pin connector plugs into the PSN6.5 to provide local power to the AXB-PT10.</p>	
<p>CC-CAM Connection Cable (DB-9 to 8-pin mini DIN)</p> <p>The CC-CAM cable connects the AXCENT³ to the CMAD3.</p> <p>This cable is used with cameras powered by a CMA-D3, when an AXCENT³ is used as the Master Controller.</p>	
<p>PT10 to Camera Lens Cable (DB15 to 12-pin Hirose)</p> <p>This cable connects the Lens control assembly on the camera to the LENS control port on the AXB-PT10.</p>	
<p>Positrack Pilot to Master Cable</p> <p>This cable connects the AXP-PLV PosiTrack Pilot to the Master Controller (either the AXB-EM232 or AXCENT³).</p>	

FIG. 1 shows a sample camera control application using a CMA-D3. The CMA-D3 provides power to cameras at distances of up to 100 meters. This system handles up to six cameras.

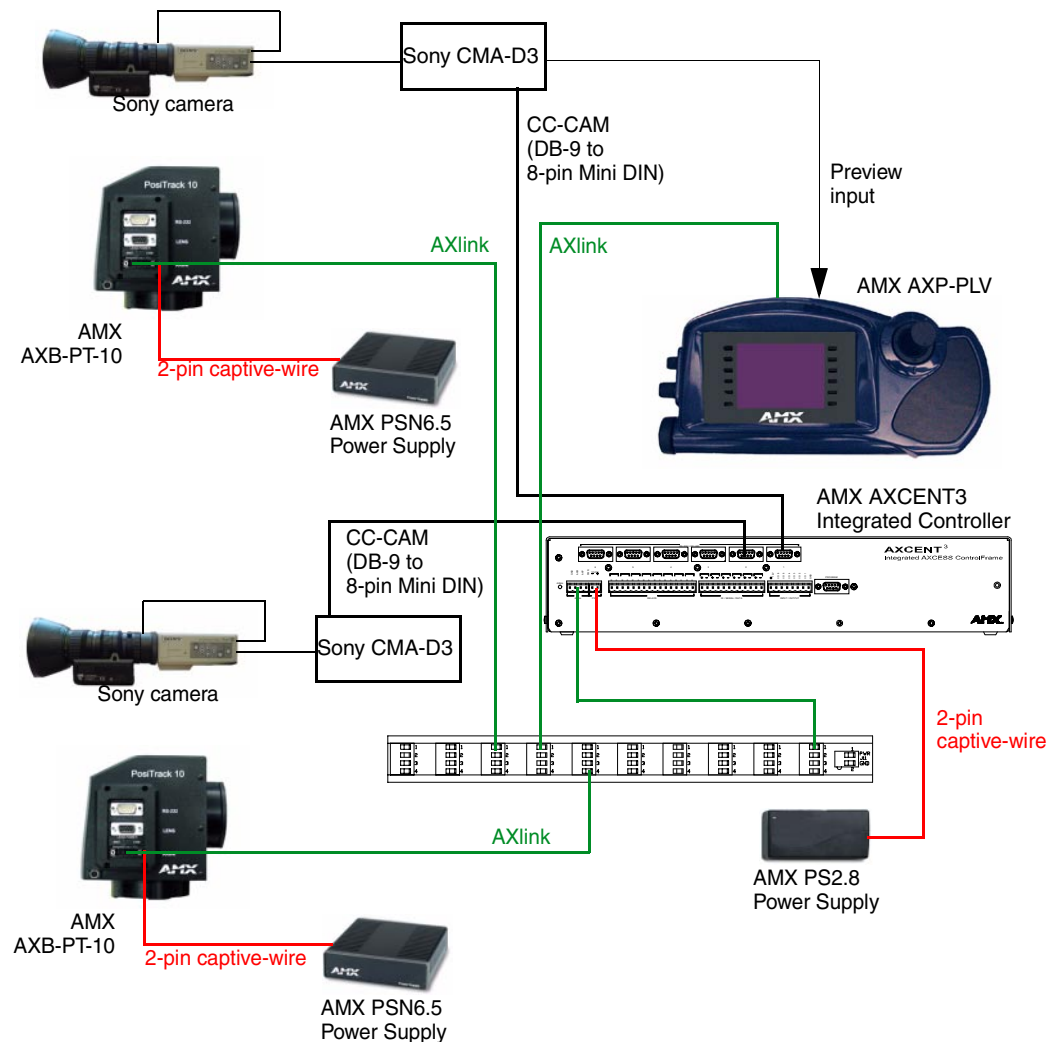


FIG. 1 Multi-Camera Configuration with CMA-D3 (up to 100 m)

Power to the AXB-PT10 is supplied from the PSN6.5 Power Supply to the unused power pin on the AXB-PT10's AXlink connector. Refer to FIG. 11 on page 11 for more information about wiring the AXB-PT10 AXlink connector.

AMX components in this additional-camera control system:

- | | |
|-----------------------|--|
| • AXB-EM232 | Master Controller |
| • AXB-PT10 | Pan/Tilt Camera Head |
| • AXP-PLV | PosiTrack Pilot Video Panel Camera Controller |
| • PS2.8 | Power Supply (for AXB-EM232) |
| • PSN6.5 | Power Supply (for AXB-PT10) |
| • CC-AXL AXlink cable | 100' (30.48 m) AXlink connection cable (4-pin captive-wire to 4-pin captive-wire, with 2-pin power connector with 2-pin local power) |

- CC-CAM cable 21" (53.34 cm) connection cable (DB-9 to 8-pin mini-DIN)
- PosiTrack Pilot to Master Cable 10' (3.05 m) connection cable (4-wire to 4-pin mini-XLR)
- PT10 to Camera Lens Cable 6' (15.24 cm) connection cable (DB15 to 12-pin Hirose)

Optional accessories:

- WM-CAM Wall or Ceiling Mount Adapter (for AXB-PT10)
- PM-CAM Pedestal Mount Adapter (for AXB-PT10)
- TM-CAM Tripod Mount Adapter (for AXB-PT10)
- AC-RK Accessory Rack Kit (for AXB-EM232, AXB-REL8 and AXB-AV2SM)
- CC-EXT Extron Switcher interface cable

Installation and Wiring

This section covers the steps necessary to connect and operate a PT10-PLV3+ Multi-Camera Pan/Tilt System. Digital encoders are installed on both the pan and tilt drives, allowing positional feedback for presets, and to provide accurate speed control. Software adjustable stop limits are used to limit the range of motion. Before continuing, verify that you have received the correct components for your package. Refer to *PT10-PLV3+ System Components* section on page 1 for more information.

Preparing the AXB-PT10 for Communication

If you add one or more AXB-PT10s to your system, it will be necessary to set the AXlink Device DIP switches on the additional PT10s. The AXB-PT10 that came with your kit was factory set as AXlink device number 90. The first additional AXB-PT10 must be set to AXlink device 91, the next one to device 92, then 93, and so on - up to 95 (for a maximum total of six AXB-PT10s).

The AXlink Device DIP switch is located beneath the round cover on the back of the AXB-PT10. FIG. 2 shows the location of the DIP switch and each of the possible AXlink Device DIP switch settings for additional AXB-PT10s.

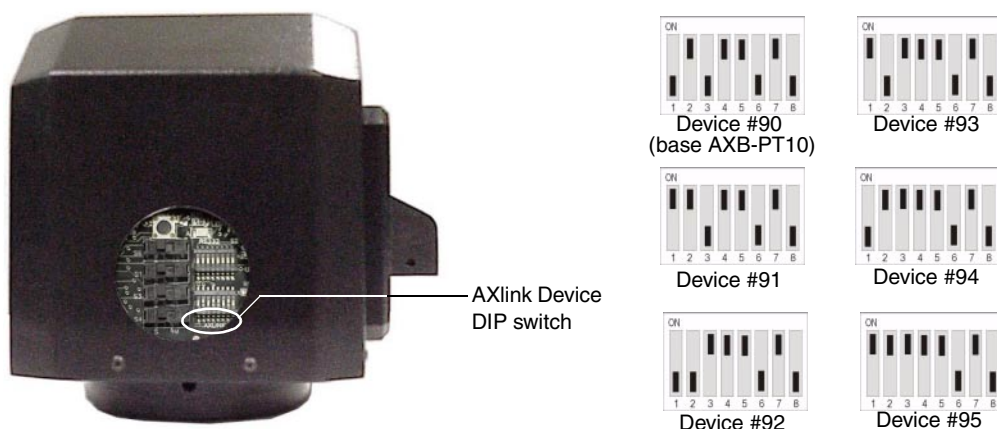


FIG. 2 AXB-PT10 (rear view) and AXlink Device DIP switch settings for devices 90 - 95.

Mounting the AXB-PT10

Mount the AXB-PT10 to a flat horizontal surface, either upright or inverted.



Never use the camera cradle to handle or lift the AXB-PT10. Do not mount a PosiTrack unit in any location where the motion of the camera is obstructed by any object.

1. Select a surface that can support the combined weight of the AXB-PT10 (8.00 lbs./3.63 kg), camera/lens (10 lbs./4.54 kg), and control cables. Some support surfaces include the WM-CAM, PM-CAM, and TM-CAM mounts available for use with these units.

2. Locate the external white position markers located on the pan and tilt axis. The position markers must align with the pan and tilt axis in order to be considered in the home position. FIG. 3 shows the camera cradle attachment in the center position.

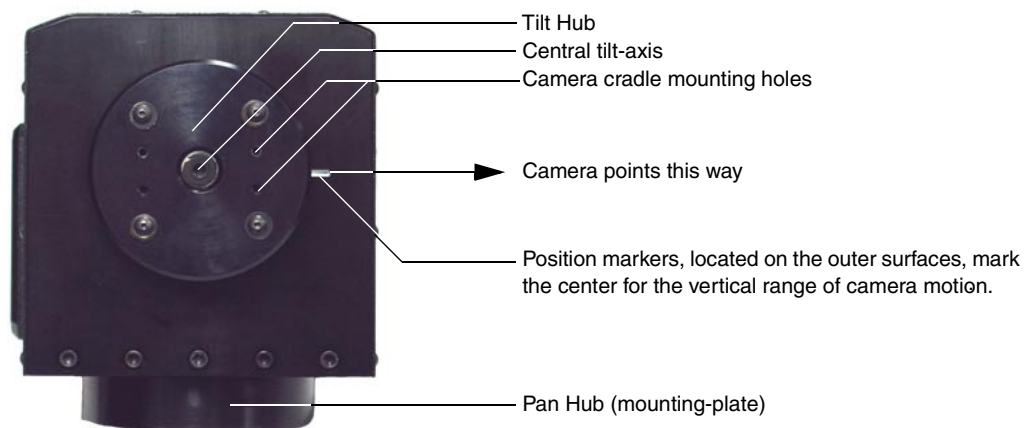


FIG. 3 Center position for the camera cradle attachment (side view)

3. Mount the PosiTrack unit to a flat surface by drilling four holes, according to the mounting-plate dimensions shown in FIG. 4. Secure the unit to the surface using four 1/4" x 20 machine bolts and lock washers. Ensure that the external white position marker, on the pan drive hub, is inside the desired camera rotation range.

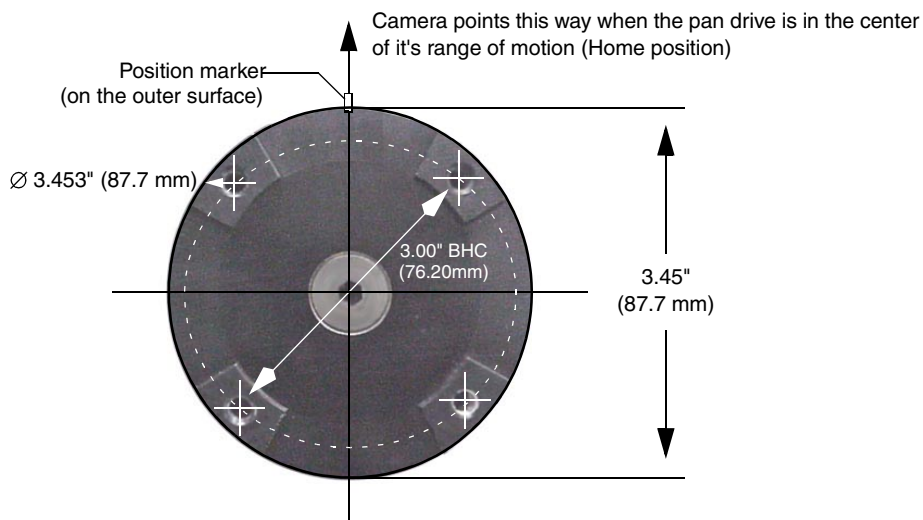


FIG. 4 Mounting-plate dimensions

The PT10 can be mounted to camera mounts such as the TM-CAM, WM-CAM, and PM-CAM (Pedestal mount) as shown in FIG. 5.



FIG. 5 PT10 and pedestal mount



The Camera/Lens cradle can be mounted on either side of the cradle support bracket.

Mounting and Balancing the Camera/Lens

The camera/lens assembly should be mounted so the tilt axis is capable of going through the optical axis of the camera, assuming the optical centerline is between ½" (12.70 mm) and 5" (127.00 mm) above the mounting plane of the camera lens. The mounting platform (camera mount) allows the camera/lens to be mounted with its center of gravity on the tilt axis. The maximum weight of the camera/lens assembly is 10 lbs. (4.54 kg). The camera cradle is mounted to the Tilt Hub, see FIG. 6 for dimensions.

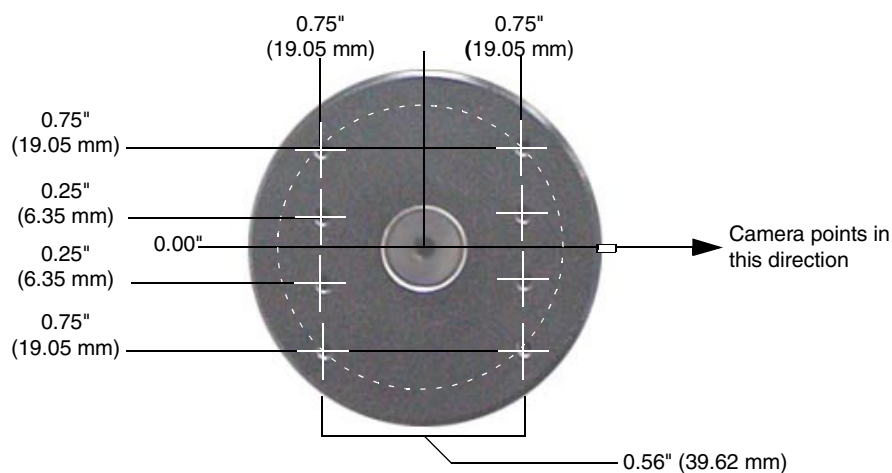


FIG. 6 Tilt Hub dimensions

To mount and balance the camera/lens:



Do not lift the PT10 by the Camera/Lens cradle as this procedure damages internal components.

1. Remove the camera/lens cradle assembly by removing the four ½" screws and washers from the tilt hub.
2. Separate the camera mount and cradle support bracket by removing the two ½" screws on the underside of the assembly (FIG. 7) using a 3/32 Allen wrench.
3. Install the camera alignment peg to the mount at the position that best fits the camera/lens.
4. Secure the camera/lens to the cradle (at the camera alignment peg) with the screw and fastener supplied with the camera/lens (see FIG. 7).

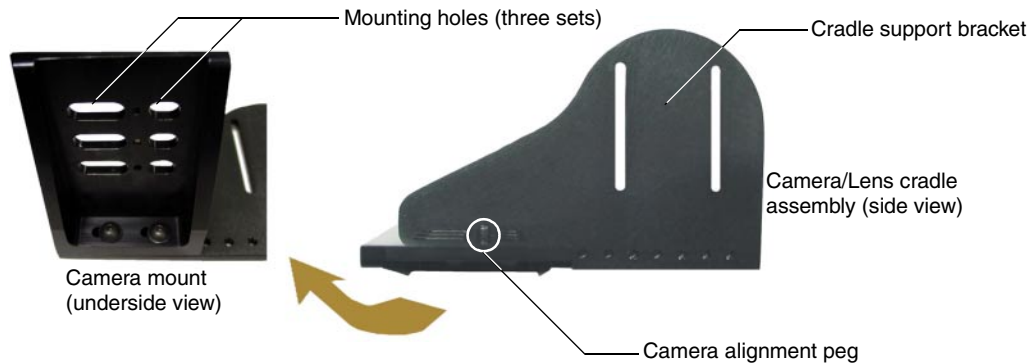


FIG. 7 Camera/Lens cradle assembly (camera mount and lens mount)

5. Determine and note the center of gravity for the camera by using your finger to balance the entire camera/lens and mount. The center of gravity is the location on the long axis of the camera/lens assembly around which the camera balances.
6. Place the camera/mount in the appropriate location along the cradle support bracket so the camera's center of gravity aligns with the horizontal tilt-axis, as shown in FIG. 8.

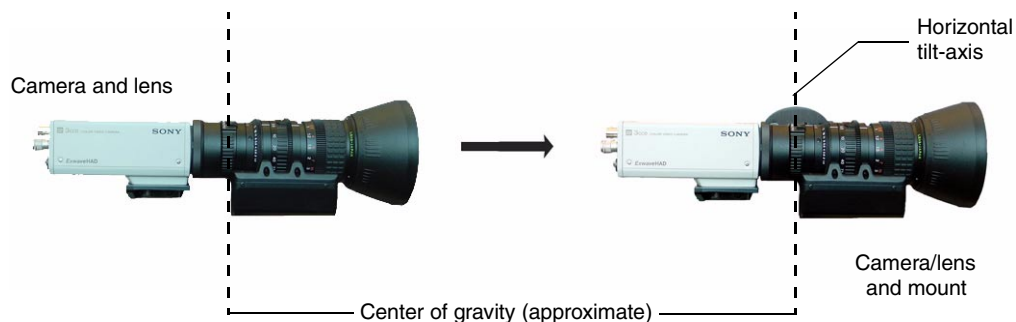


FIG. 8 Mounting a camera



NOTE

Mount the camera as close to the Tilt Hub as possible to obtain a true center of gravity.

7. Re-attach the camera mount (camera/lens) to the cradle support bracket using the two ½" screws.
8. Take the entire camera/cradle assembly and align the lens with the Tilt Hub so that the vertical-axis intersects the center of the camera's iris, as shown in FIG. 9.

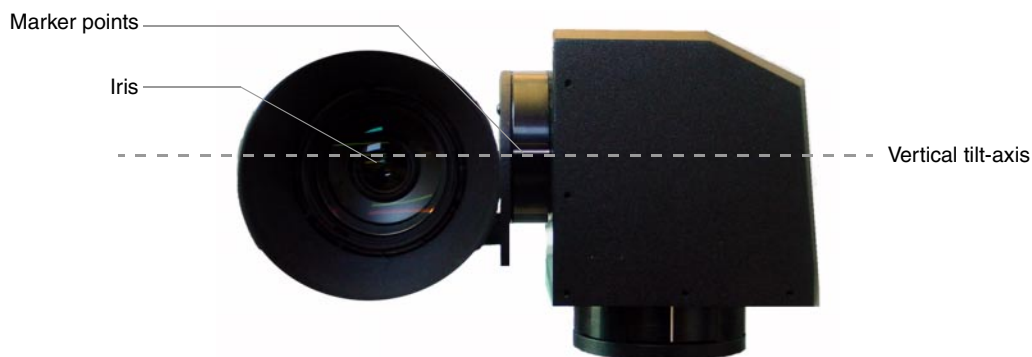


FIG. 9 Iris alignment with vertical tilt-axis

9. Mark the position of the cradle support bracket on the Tilt Hub (for later attachment).
10. Remove the camera/lens and mount piece from the support bracket by unscrewing the two ½" screws on the underside of the camera mount.
11. Secure the support bracket to the Tilt Hub (at the same position marked for the iris alignment) on the PT10 with some or all of the four ½" screws and washers.
12. Secure the camera/mount to the support bracket by using the two ½" screws.



The camera/lens cradle can be mounted on either side of the cradle support bracket. This is especially useful when the camera is mounted to the ceiling.

13. Support the weight of the camera cables with a wire tie attached to the wire tie mount on the lower corner of the face of the AXB-PT10 (FIG. 10).



When applying power to the AXB-PT10, adjust the soft-set pan/tilt-limit stops to a safe position to prevent camera or AXB-PT10 damage.

Wiring Information for the AXB-PT10

Each PosiTrack Controller has an RS-232 DB-9 connector, lens control DB-15 high-density connector, and an AXlink 4-pin connector. Always provide enough cable to accommodate the desired range of motion for the PosiTrack unit and its camera/lens. The Lens Power switch on the control panel (FIG. 10), removes any power noise on the incoming video by turning power On/Off to Pin 1 of the DB-15 lens control connector when the camera/lens is powered from a separate supply.

The AXB-PT10 receives all power through the +12 VDC and GND connections on the 4-pin AXlink connector. The portion of the power directed toward the pan and tilt motors is fused. The fuses are self-resetting.

The AXB-PT10 power rating is 2 amps @ 12 VDC. See FIG. 11 for details.

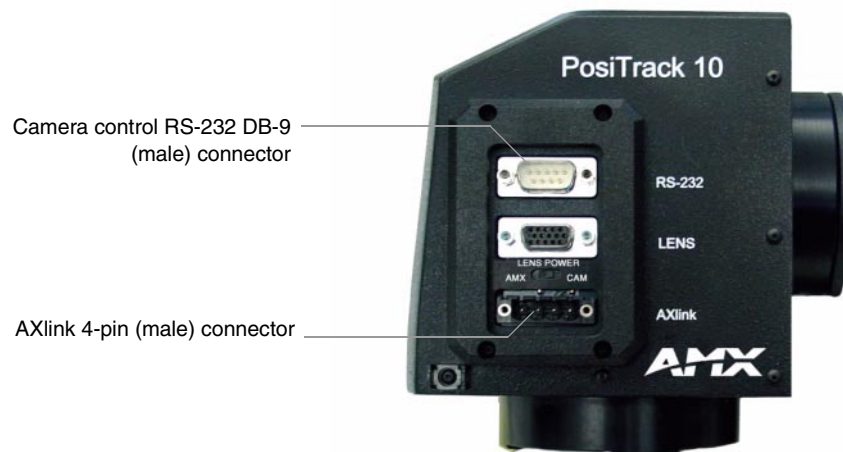


FIG. 10 Side view of the AXB-PT10 showing the location of the AXlink connector.

Wiring Guidelines

The PosiTrack Controller requires local +12 VDC power (optional) to operate properly. The maximum wiring distance between the power supply and the PosiTrack Controller is determined by power consumption, supplied voltage, and the wire gauge used for the cable. The following table lists wire sizes and the maximum lengths allowable between the PT10 and the power supply. The maximum wiring lengths are based on a minimum of 13.5 VDC, available at the power supply output.

Wiring Specifications PT10	
18 AWG	29.34 feet (8.94 meters)
20 AWG	18.56 feet (5.66 meters)
22 AWG	11.57 feet (3.53 meters)
24 AWG	7.30 feet (2.23 meters)



CAUTION

Do not connect power to the PosiTrack Controller until the wiring is complete. If using an optional +12 VDC power supply, apply power to the AXB-PT10 only after installation is complete.

The PosiTrack Controller is powered from an optional local power supply. The wiring distances listed for the AXB-PT10 in the above table are based on a +12 VDC power supply and are capable of 2 amps (continuous) with a maximum current of 20 amps. The PosiTrack unit provides power outputs for the camera/lens combination.

Using the AXlink connector for data and power

To use the AXlink 4-pin connector for data communication with the AXCENT3 and power transfer from the PSN6.5 power supply, the incoming PWR and GND cable from the PSN6.5 must be connected to the AXlink cable connector going to the AXB-PT10. FIG. 11 shows how the power cable from the PSN6.5 is used to power the AXB-PT10. This same figure shows how the GND cable is connected onto the existing GND cable on the AXlink cable coming from the AXCENT3. Always use a local power supply when using AXB-PT10. This is the configuration of the supplied CC-AXL AXlink Connection Cable.

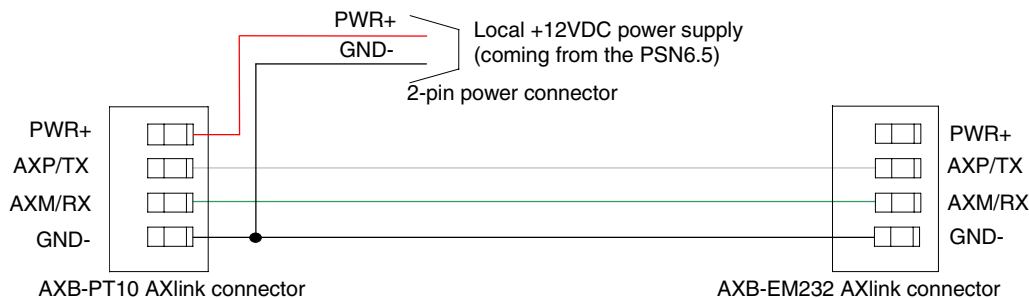


FIG. 11 AXlink connector and local +12 VDC power supply wiring diagram

Wiring Information for the AXP-PLV

The AXP-PLV comes shipped with a mini-XLR cable.

Using the AXlink mini-XLR connector for data and power

Wire the AXCENT3 AXlink connector to the mini-XLR connector (male) on the rear panel of the AXP-PLV for data and 12 VDC power as shown in Figure 15.

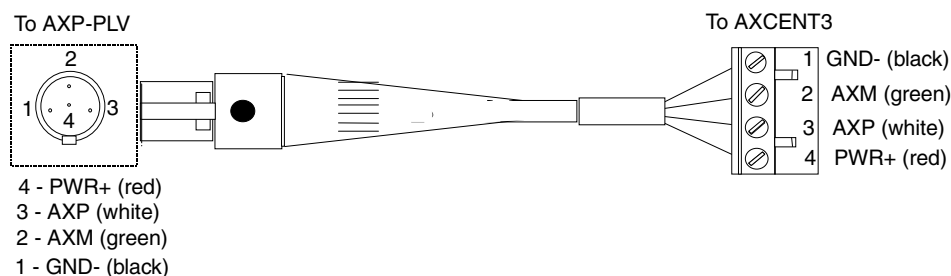


FIG. 12 Mini-XLR connector wiring diagram

Using the AXCENT3

FIG. 13 shows the front and rear view of the AXCENT3 and describes the features relevant to this configuration.

This table describes the blink patterns for the front panel AXlink LED.

The following section describes how to combine the ends of both AXB-PT10s and the AXP-PLV AXlink cables into one AXlink connector located on the rear of the AXCENT3.

Using the camera control RS-232 DB-9 connector

The RS-232 DB-9 (male) connector on the AXB-PT10 connects to the camera head's RS-232 connector. The following table lists the pinouts and shows the pin configuration for the DB-9 connector.

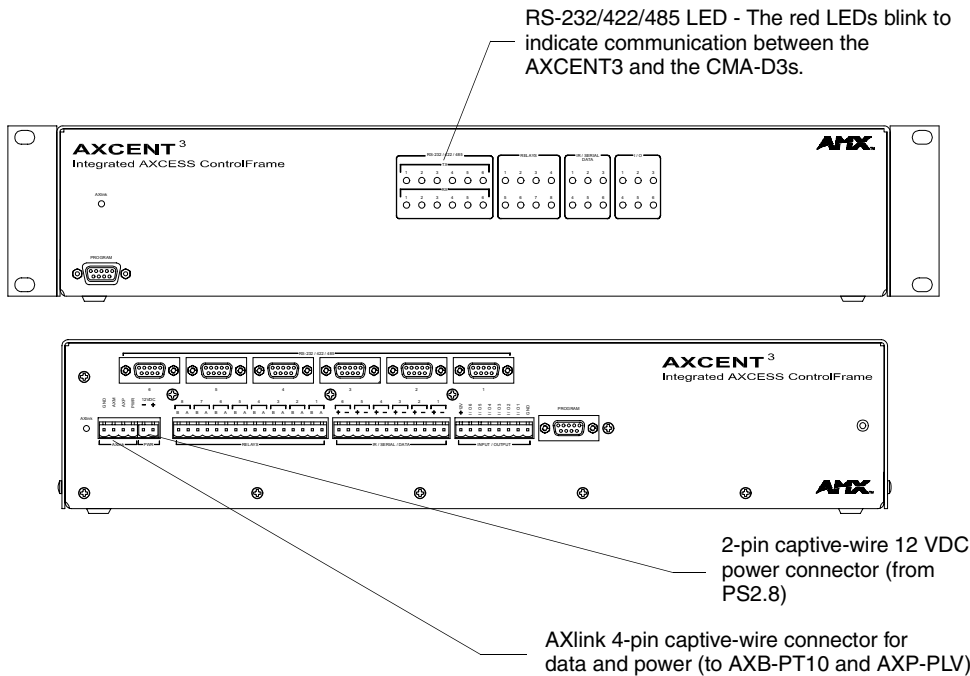


FIG. 13 Front and rear views of the AXCENT3

AXlink Blink Patterns	
One blink/second	Indicates that power is active and AXlink communication is functioning.
Two blinks/second	Indicates that power is active and AXlink communication is functioning, and that the devices specified in the master program do not match the devices found. This will be the blink pattern normally seen with PosiPilot camera control system because the master program has the ability to control more devices than are normally present.
Three blinks/second	Indicates that there is an AXlink communication error.
Full On	Indicates that there is either no AXlink activity or that the AXCESS program is not loaded.

Camera Control DB-9 RS-232 Connector Pinouts			
Pin	Signal	Pin	Signal
1	N/A	6	N/A
2	RXD	7	RTS
3	TXD	8	CTS
4	N/A	9	N/A
5	GND		

Pin 1

Pin 9

The following section describes how to combine the ends of both AXB-PT10s and the AXP-PLV AXlink cables into one AXlink connector located on the rear of the AXCENT3.

Putting It All Together

1. Connect the green 2-pin PS2.8 power connector to the rear of the AXCENT³.
2. Make AXlink connections:
 - a. Connect the AXlink port on the AXCENT³ to Connector 1 on the ABS.
 - b. Connect the AXlink port on the AXB-PT10s to an open connector on the ABS.
 - c. Connect the mini-XLR port on the AXP-PLV to an open connector on the ABS.
3. Connect the CC-AXL 2-pin power connector to the PSN6.5 power supply.



When applying power to the AXB-PT10, adjust the soft-set pan/tilt-limit stops to a safe position to prevent camera or AXB-PT10 damage.

4. Connect the lens control cable from the side of the camera to the 6-pin LENS connector on the rear of the camera.
5. Connect the CC-CAM cable from the CMA-D3 (8-pin Mini DIN) to RS-232/422/485 DB-9 (male) connector port #1 on the rear of the AXCENT3. Repeat this step for each additional CMA-D3 in the system, using ports #2-6.
6. Connect the CMA-D3 to the DC IN/VBS port on the rear of the camera.
7. Verify there are no obstructions in the horizontal or vertical paths of the attached camera on the AXB-PT10s.
8. Connect the VIDEO OUT port on the rear of the camera to the CMA-D3, and connect the CMA-D3 to the BNC connector on the rear of the AXP-PLV.

For best performance, mount the AXCENT3 as close to the CMA-D3 as possible for best performance.
9. Plug in the PSN6.5, PS2.8, and CMA-D3 power supplies to their respective outlets.
10. Press and hold the SETUP button (located on the rear of the AXB-PT10, beneath a protective cover) for three seconds to exercise each control axis (pan/tilt), to verify correct installation.
11. Allow the AXP-PLV touch panel software approximately 20 seconds for initialization and self-calibration before beginning use.

Do not move the joystick or the focus wheel while the AXP-PLV is displaying its initialization page. Self-calibration is in progress.

12. Select the video input for the desired camera by pressing the respective Camera Station (1-6) pushbutton located on the right side of the AXP-PLV touch panel.

Suggested Wire Types (for custom cables)

AXlink is a control network that uses four wires to carry data and power to all remote devices in the system. Two wires carry a balanced-line data signal; the other two provide ground and +12 VDC power. Large distributed systems that use long AXlink runs with a maximum of 3,000 feet (914.4 m) should use low-capacitance (12-14 pF/ft) shielded twisted pair cable.

- The length of an AXlink wire run is equal to the total length of wire used; a star run made of one 300' section and six 50' sections equals one 600' AXlink line.

- AXlink data lines (AXM and AXP) are designed for balance-line operation; wire the data lines in the same twisted pair.
- Use a shielded cable for best results, both to reduce electronic interference radiated by adjacent wiring and to eliminate noise from AXlink cabling to adjacent audio cabling.

If you find that the included 100' (30.48 m) AXlink cables are not long enough for your application, use the wire types suggested below to make custom cables.

AXlink - (local-area, low-power requirement)

22/24 AWG 4-conductor cables can be used for short wiring runs.

- Level 3, 4, or 5 unshielded, twisted pair
- Belden 8102, 2 twisted pair, 1 shield 12 pF/ft, PVC and plenum cable available.

AXlink - (local-area, high-power requirement)

Large systems that power many bus controllers or touch panels should use a heavier gauge wire to handle DC power.

- Liberty Wire and Cable AMX-2S22218 AXlink Cable, 1 shielded, twisted pair 22 AWG, 12.5 pF/ft, two 18 AWG, PVC and plenum cable available.

AXlink - (wide-area, local-power supply)

In this type of system, power is rarely distributed over the AXlink bus; local power supplies are used for each controller or linked system.

- West Penn D2401 1 twisted pair, 1 shield 14 pF/ft, plenum cable available.



Pan/tilt/zoom control joystick:	Use the joystick to control pan and tilt movements. Rotate the top of the joystick left and right to zoom in and out.
Speed control knob:	Rotate to control the speed of the pan and tilt movements.
Iris control knob:	Rotate to open and close the camera's iris.
Focus wheel:	Rotate to control focus on the camera.
External pushbuttons (left side):	This set of six pushbuttons closely duplicate the buttons on Sony RM-C350/950 camera controllers.
Menu:	Press to open the camera's on-screen menu.
Function up/down:	Press to scroll up/down through the camera menu options.
ABB:	Press to set Automatic Black Balance. This function is only active when camera menus are not being displayed.
Data up/down:	Once you have selected a camera menu option, press the Data up/down buttons to scroll through the available choices.
AWB:	Press to set Automatic White Balance. This function is only active when camera menus are not being displayed.
Enter:	Press to make a selection from the menu.
CAMERA STATION Select External pushbuttons (right side):	This set of six pushbuttons allows you select which camera (1-6) you are controlling. The Camera Station selection indicators along the right edge of the touch panel light to indicate which camera is currently selected.

Video preview/touch panel screen:	<p>The touch panel screen displays a video preview and gives you access to various control features such as store/recall presets, gain and detail settings and the camera configuration options via the touch panel buttons.</p> <p>For details on using the touch panel buttons, refer to the Using the AXP-PLV Touch Panel Program section below.</p>
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Using the AXP-PLV Touch Panel Program

This section describes the touch panel pages, and their buttons. When the AXP-PLV is powered up, an initialization screen appears for several seconds. Then, the CAMERA page (FIG. 15) appears:

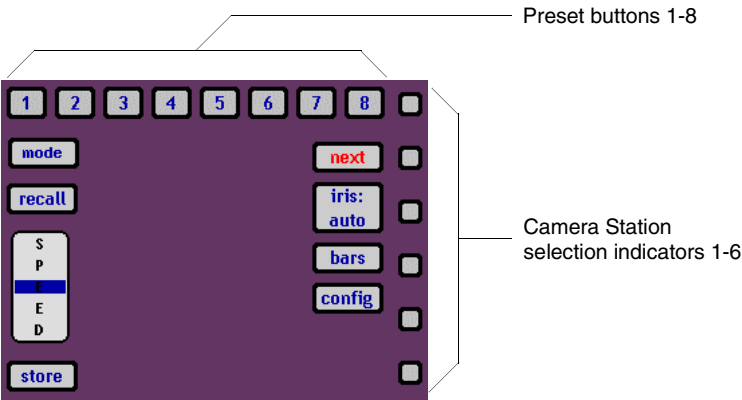


FIG. 15 CAMERA page

Simply touch the panel to activate the buttons and sliders on the panel.

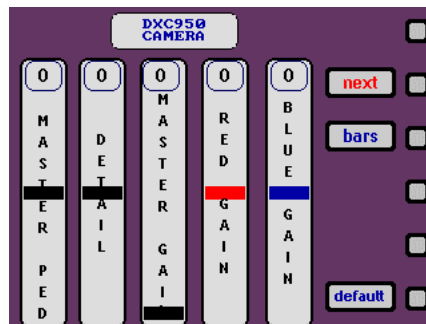
• Preset buttons 1-8	You can store and recall up to 24 presets for zoom, focus, iris, pan/tilt and speed settings. By default, preset buttons 1-8 are shown.
• mode button	Touch to display preset buttons 9-16. Press the mode button again to display preset buttons 17-24.
• store button	Touch a preset button, then touch the store button to store the camera's current pan/tilt position, zoom, focus, speed and iris settings as a preset.
• recall button	Touch a preset button, then touch the recall button to recall the pan/tilt position, zoom, focus, speed and iris settings saved for the selected preset.
• speed slider control	Use this slider control to adjust the preset pan/tilt speed.
• next button	Touch to flip to the next touch panel page (in this case, the MENU page).
• iris button	Touch to toggle between automatic and manual iris control. If it is set to Manual, you will use the iris control knob on the side of the AXP-PLV to open/close the iris.
• bars button	Touch to toggle a color bar display on the screen.
• config button	Touch to open the CAMERA CONFIGURATION page, where you can configure a camera for your system.
• Camera Station selection indicators 1-6	These indicators light to indicate which camera is currently selected (via the CAMERA STATIONS 1-6 external pushbuttons).

Press the **NEXT** button in the **CAMERA** page to open the **CAMERA MENU** page. Use the **CAMERA MENU** page to view the camera's menu page.



While the **CAMERA MENU** page is open, press the external button labeled **MENU** (to the left of the touch panel). The camera's menu page is displayed on the panel. The items in the **MENU** page will vary, depending on the camera installed, so consult the Sony literature for details on your camera.

• next button	Touch to flip to the next touch panel page (in this case, the CAMERA ADJUSTMENT page).
• DEFAULT button	Touch to return the selected camera menu item to its default setting.



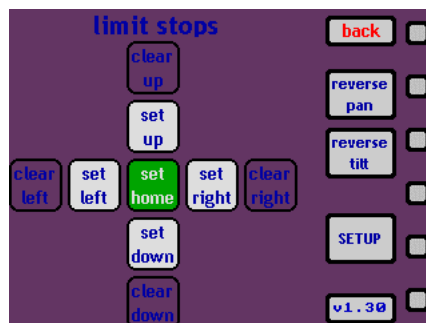
Use the **CAMERA ADJUSTMENT** page slider bars to:

- Adjust the master pedestal setting.
- Adjust the detail setting.
- Adjust the master gain setting.
- Adjust the red gain setting.
- Adjust the blue gain setting.

When you press any of these slider bars, a secondary page is opened that shows only the selected slider bar, leaving the rest of the screen free to view the preview picture.

• next button	Touch to flip to the next touch panel page (in this case it flips back to the CAMERA page).
• bars button	Touch to toggle a color bar display on the screen.
• default button	Touch to restore the camera to its default master pedestal, detail and gain settings. (This is the same as pressing the Data UP and DOWN buttons simultaneously on the Sony RM-C950).

Press the **CONFIG** button on the **CAMERA** page to open the **CAMERA CONFIGURATION** page:



Use the CAMERA CONFIGURATION page buttons to configure a new camera to the system:

- Set and/or clear limit stops for pan up/down and left/right.
- Set the home position.
- Reverse the pan orientation on the joystick.
- Reverse the tilt orientation on the joystick.
- Enter the touch panel's SETUP screen (for system administrators only).

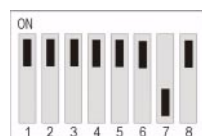
• set home button	Touch to set the home position.
• set up button	Touch to set the up limit stop.
• clear up button	Touch to clear the up limit stop.
• set down button	Touch to set the down limit stop.
• clear down button	Touch to clear the down limit stop.
• set right button	Touch to set the right limit stop.
• clear right button	Touch to clear the right limit stop.
• set left button	Touch to set the left limit stop.
• clear left button	Touch to clear the left limit stop.
• back button	Touch to flip to the previous page.
• reverse pan button	Touch to reverse the current pan orientation on the joystick.
• reverse tilt button	Touch to reverse the current tilt orientation on the joystick.
• SETUP button	Touch to access the touch panel Setup screen (for system administrators only).

Troubleshooting

If you are experiencing communication problems with the AXCENT³, check the communications settings for the device. The RS-232 communication parameters for this device are set via the eight-position RS-232 DIP switch. On the AXCENT³, the RS-232 DIP switch is located on the front panel. Verify that this DIP switch is set to the default positions indicated in below.

Setting the RS-232 DIP switch (S2)

The following describes the RS-232 DIP switch default positions:



- 9,600 baud
- No parity
- 8 bits
- 1 stop bit

The following table lists the RS-232 DIP switch settings:

RS-232 DIP Switch (S2) Settings								
Position	1	2	3	4	5	6	7	8
Function	Stop Bits	Data Bits	Parity			Baud Rate		
	Off 2 bits	Off 7 bits	Off	Off	Off	Off	Off	Off
	On 1 bit	On 8 bits	On	Off	Off	On	Off	Off
			Off	On	Off	Off	On	Off
			On	On	Off	On	On	Off
			Off	Off	On	Off	Off	On
			On	Off	On	On	Off	On
			Off	On	On	Off	On	On
			On	On	On	On	On	On

Sony Technical Support

On the Web

You can contact the Technical Assistance Network (TAN) on the Internet:

- <http://bpgprod.sel.sony.com/infosupport.bpg>

Telephone Support

For dedicated phone support (available from 8:30 a.m. to 8:00 p.m. Eastern time, Monday through Friday):

- (201) 833-5333

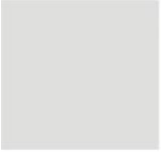
Written Requests for Assistance

Sony's Business Information Center (BIC) serves as a "virtual reception desk" for the Broadcast and Professional Group. Staffed with full-time agents, the center is the focal point of contact for any Broadcast and Professional Group inquiry. The BIC is designed to provide general information, including product specifications, literature and list prices to inquiring callers.

- Tel: 1-800-686-SONY
- Email: <http://bpgprod.sel.sony.com/cic.htm>

attn: Warranty Registration

**AMX Corporation
3000 Research Drive
Richardson TX 75082**



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IT'S YOUR WORLD. TAKE CONTROL.

PRODUCT REGISTRATION FORM

Personal Information

☐ Mr. ☐ Mrs. ☐ Ms. ☐ Miss

First Name:

Last Name:

Address:

Address:

City:

State: Zip: —

Purchase Information

Home Phone: ——

Office Phone: —— ext:

E-mail:

Date of Purchase:
day month year

System Type: — example: PT10-PLV

Where did you buy this System?

Serial Number

Please tape before mailing. DO NOT STAPLE.



AMX reserves the right to alter specifications without notice at any time.

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