

## PosiTrack Pilot Camera System



The AMX PosiTrack Camera System delivers an advanced modular solution for precision camera positioning applications. Featuring the PosiTrack Pilot Video touch panel with on-screen camera preview, the system controls PosiTrack 10 robotic camera heads over a high-speed 4-wire data bus. The system can control up to 6 Sony DXC-390 and DXC-990 video cameras, storing and recalling up to 24 presets for each camera.

Designed with the camera operator in mind, the PosiTrack Pilot Video camera panel includes a 6" color-active touch panel with video preview on the left, a combined pan/tilt/zoom joystick on the right, and focus wheel and speed control on the lower left edge. Resting the right hand on the softly padded wrist rest, the operator can intuitively guide and twist

the joystick to the right position and easily zoom the lens in and out. At the same time, a tap and spin on the left is all it takes to fine-tune focus and response. Using the graphic icons displayed on the color touch panel, the operator can visually track and change camera movement, select cameras, store and recall presets, and adjust each camera's settings.

The compact PosiTrack 10 Pan/Tilt Head supports camera loads of up to 10 lbs. (4.5 kg). The integrated camera head delivers smooth analog pan, tilt and lens control, precision digital position sensing, RS-232 camera control, intelligent onboard processing and system networking. The PosiTrack 10 is easy to install—one cable connects the Sony DXC-390/990 camera to the head and a 4-wire cable links the head to the system.



# PosiTrack Pilot Camera System

## AXB-PT10 PosiTrack 10 Pan/Tilt Head

- Supports camera loads of up to 10 pounds (4.5 kg), allows perfect adjustment of H/V center of gravity
- Integrates onboard control for camera pan/tilt, lens zoom/focus/iris, and camera functions
- Operates DC-drive lens through camera
- Stores and recalls presets from internal non-volatile memory
- Installs upright or upside down (joystick control can be inverted via software)
- Limits pan and tilt range using soft stops, programmable on-the-fly from the PosiTrack Pilot Video panel
- Moves with analog DC motor control, sensed via 1 million-step digital encoding
- Connects to the system via the four-wire AXlink control network over distances up to 3,000 feet using twisted-pair wire

**Control Ports:** AXlink/Power—4-pin screw terminal  
CCU/Lens—9-pin male D-sub  
Lens—15-pin female HD D-sub

**Travel:** Pan  $\pm$  179° (358° programmable)  
Tilt  $\pm$  90° (180° programmable)

**Speed Pan:** 45°/sec  
Tilt 45°/sec  
Torque (max): Pan 4 - 6 ft-lbs.  
Tilt 10 - 16 ft-lbs.

**Capacity:** 10 lbs. (4.5 kg) balanced lens/camera weight

**Repeatability:**  $\pm$  5 arc minutes

**Status LED:** AXlink—Green

**Buttons:** Setup Routine button

**Reversing:** Instantaneous

**Limit stops:** Soft set via Access

**Presets:** 24 in standard PT10 system  
Max 255 presets per head

**Environment:** 32° F to 120° F ambient temperature range

**Enclosure:** Metal with matte black enamel and black anodized finish

**Weight:** 8 lbs. (3.6 kg)

**Dimensions:** 5.85" x 6.8" x 9.1" [HWD]  
(149 mm x 173 mm x 232 mm)

## CC-CAM Camera Cable

- Connects PT10 RS-232 control to DXC-390/DXC-990 camera head

## PSN6.5 Power Supply

- Supplies power to AXB-PT10, one per pan/tilt head

**DC Power:** 12VDC, 6.5 A output

**AC Power:** IEC AC cord input for 110/220, 50/60 Hz AC Power

**Dimensions:** 1.5"x5.5"x6.4" [HWD]  
(38 mm x 140 mm x 164 mm)

**Weight:** 1.1 lbs. (495 g)

## AXP-PLV PosiTrack Pilot Video Panel\*

- Controls up to 6 PosiTrack 10 Pan/Tilt Heads with Sony DXC-390/DXC-990 cameras, up to 24 presets per camera
- 6" color-active LCD displays camera video with superimposed touch control graphics
- On-screen graphics control preset store/recall, camera functions, and system setup
- Side-screen buttons (12) instantly select cameras and access camera menus
- Integrated 3-axis joystick controls pan, tilt, and zoom
- Proportional side-mount focus wheel
- Trim knobs for overall speed and iris

**Display:** 6" diagonal color active-matrix LCD, 320 x 240

**Buttons:** 12 pushbuttons, 6 on each side

**Video In:** BNC female connector (NTSC/PAL/SECAM)

**Dimensions:** 5.5" x 16" x 7.5" [HWD]  
(140 mm x 406 mm x 191 mm)

**Weight:** 4.9 lbs (2.2 kg)

pounds (4.5 kg), allows perfect adjustment of H/V center of gravity

\*Patent Pending

## AXB-EM232 Enhanced Master

- Onboard processor and memory manage system operation and control network

**Processor:** Motorola 68340

**Memory:** Battery-backed non-volatile

**Includes:** Front-panel setup switches and status LEDs

AXlink control network port

**Enclosure:** Metal with black matte finish

**Dimensions:** 1.5" x 5.5" x 6.4" [HWD]  
(38 mm x 140 mm x 164 mm)

**Weight:** 1.1 lbs (495 g)

## PS2.8 Power Supply

- Supplies 12V DC power to AXB-EM232 Master and AXP-PLV panel

**DC Power:** 12VDC, 2.8 A output

**AC Power:** IEC AC cord input for 110/220, 50/60 Hz AC Power

**Dimensions:** 5.5" x 3" x 1.8" [HWD approx]  
(140 mm x 76 mm x 45 mm)

**Weight:** 1.5 lbs (681 g)



PosiTrack Pilot Video Panel with AXB-EM232 and PS2.8



PosiTrack 10 with CC-CAM and PSN6.5

## PosiTrack System

### PT10-PLV - Single Camera Pan/Tilt System

Includes PosiTrack Pilot Video camera control panel (AXP-PLV), system master with onboard memory and AXlink network (AXB-EM232), 2.8A DC power supply (PS2.8), PosiTrack 10 pan/tilt head (AXB-PT10), two (2) camera/lens control cable (CC-CAM), and 6.5A 12 VDC power supply (PSN6.5). Supports up to 6 cameras with CMA-D2 units, up to 2 cameras can use CAM-D3 units.

### PT10-PLV3 Plus - Multi-Camera Pan/Tilt System for CMA-D3

Includes PosiTrack Pilot Video camera control panel (AXP-PLV), Axcen3 Integrated Controller (Axcen3), 2.8A DC power supply (PS2.8), one PosiTrack 10 pan/tilt head (AXB-PT10), six (6) camera/lens control cables (CC-CAM), and one (1) 6.5A 12 VDC power supply (PS6.5). Supports up to 6 cameras with CMA-D3 camera units.

### PT10-ADD - Additional Camera Pan/Tilt

Includes a PosiTrack 10 pan/tilt head (AXB-PT10), two (2) camera/lens control cables, and 6.5A 12 VDC power supply (PS6.5).

### PT10-PRV - 2x1 Preview Switcher

Includes a 2 x 1 video switcher, composite BNC (AV2SM), Relay Controller (AXB-REL8), and cable (CC-REL)

### Accessories

Accessories for the PosiTrack Camera Control System include a variety of pan/tilt head mounts including:

- AC-RK - Accessory Rack Kit (3 AXB-EM232/REL8 units), 1 RU
- WM-CAM - Wall or Ceiling Mount Adapter
- PM-CAM - Pedestal Mount Adapter
- TM-CAM - Tripod Mount Adapter



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3000 RESEARCH DRIVE, RICHARDSON, TEXAS 75082 USA 469.624.8000 / 800.222.0193 / 469.624.7153 FAX www.amx.com