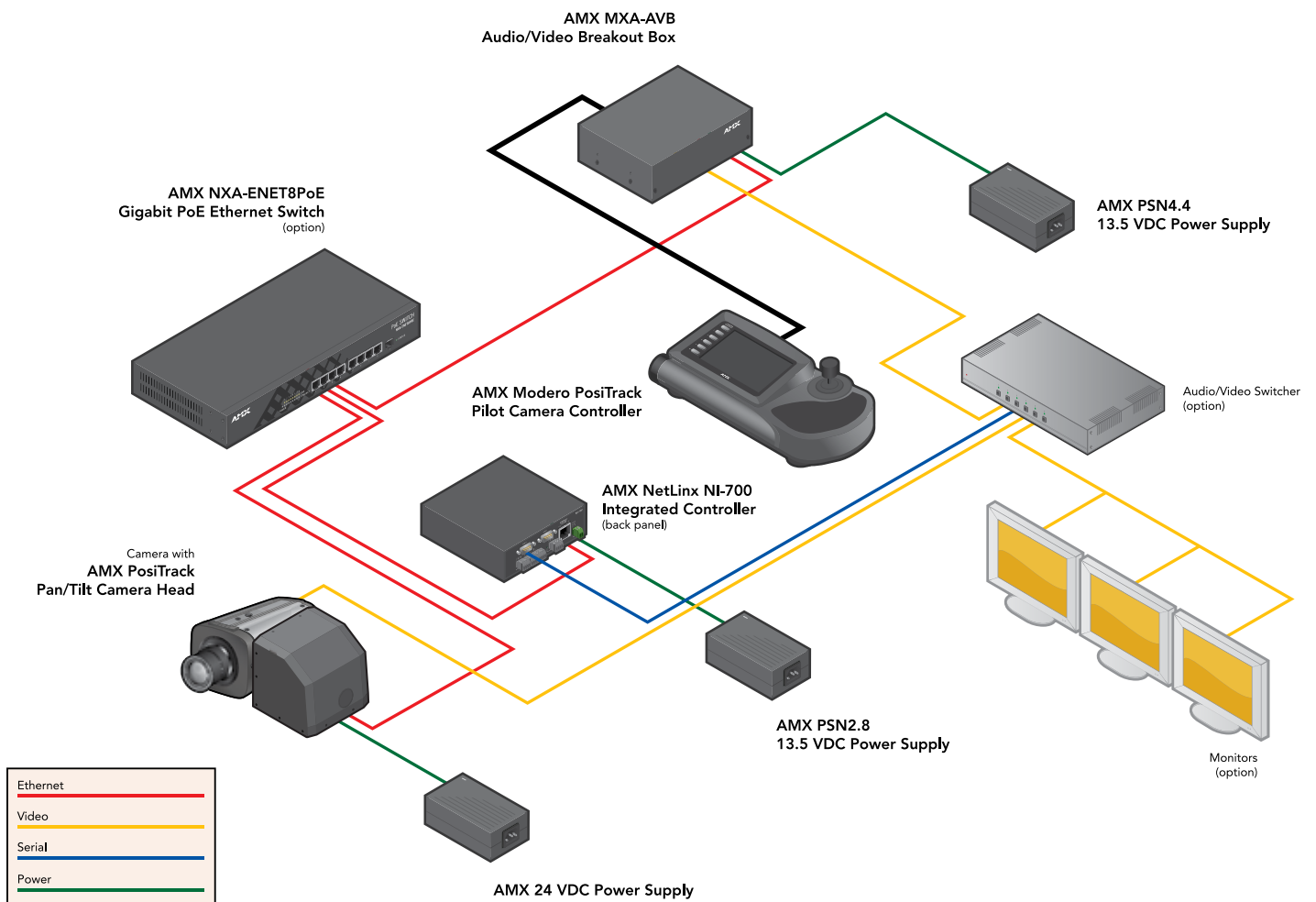# CAMERA CONTROLLERS

SMOOTH OPERATOR
The Ideal Broadcast Camera Controller

The PosiTrack camera controller, pan/tilt head, and mounting accessories provide an extremely flexible and reliable way of remotely controlling cameras in rehearsal studios, sporting events, concerts and other venues requiring stand alone camera operation. With PosiTrack - cameras can be integrated into a larger AMX solution or stand alone to provide camera control over an existing IP network.
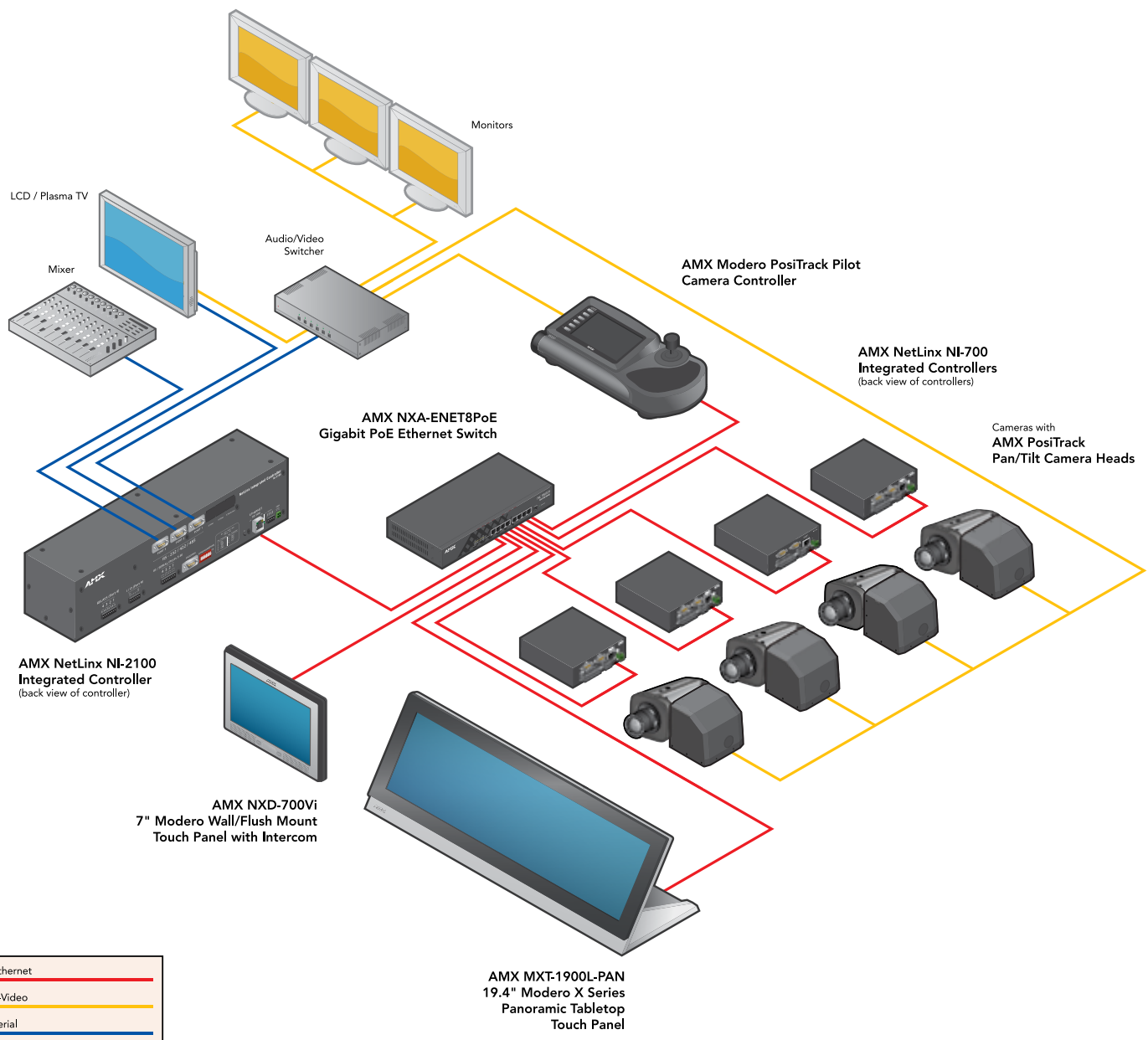
SYSTEM DIAGRAM

Designed with the camera operator in mind, the NXP-PLV includes a Modero G4 7" widescreen color-active touch panel with a 16 x 9 video display, a proportional pan/tilt/zoom joystick and focus, iris, and speed controls. An external switch input provides hands-free selection of system features such as camera presets, router switching and other functions.

AMX MXA-AVB
Audio/Video Breakout Box

AMX NXA-ENET8PoE
Gigabit PoE Ethernet Switch
(option)

AMX PSN4.4
13.5 VDC Power Supply

AMX Modero PosiTrack
Pilot Camera Controller

Audio/Video Switcher
(option)

AMX NetLinx NI-700
Integrated Controller
(back panel)

Camera with
AMX PosiTrack
Pan/Tilt Camera Head

| Ethernet |
| Video |
| Serial |
| Power |

AMX PSN2.8
13.5 VDC Power Supply

Monitors
(option)

AMX 24 VDC Power Supply

SYSTEM DIAGRAM (CONT.)

Monitors

LCD / Plasma TV

Audio/Video Switcher

Mixer

AMX Modero PosiTrack Pilot Camera Controller

AMX NetLinx NI-700 Integrated Controllers (back view of controllers)

AMX NXA-ENET8PoE Gigabit PoE Ethernet Switch

Cameras with **AMX PosiTrack Pan/Tilt Camera Heads**

AMX NetLinx NI-2100 Integrated Controller (back view of controller)

AMX NXD-700Vi 7" Modero Wall/Flush Mount Touch Panel with Intercom

Ethernet
S-Video
Serial

AMX MXT-1900L-PAN 19.4" Modero X Series Panoramic Tabletop Touch Panel

223

NXP-PLV

Modero PosiTrack Pilot Camera Controller

(FG630-100)

OVERVIEW

Designed with the camera operator in mind, the NXP-PLV includes a Modero G4 7" widescreen color-active touch panel with a 16 x 9 video display, a proportional pan/tilt/zoom joystick and focus, iris, and speed controls. An external switch input provides hands-free selection of system features such as camera presets, router switching and other functions. S-Video input provides clearer preview for widescreen applications using the optional NXA-AVB/ ETHERNET Breakout Box. A standards-based Ethernet interface allows faster integration with existing network backbones and compatibility with the PTE-300 and NetLinx controllers.

COMMON APPLICATION

The PosiTrack Pilot Camera Controller is an integrated controller for use in controlling cameras and camera positioning devices in rehearsal studios, sporting events, concerts and other venues requiring standalone camera operation.

FEATURES

- Controls PosiTrack Pan/Tilt Heads and other makes of robotic camera heads
- Displays camera video on 7" 16x9 color active display
- Activates camera preset store/recall, camera functions and system setup from on-screen color graphics
- Accesses commonly-used commands from buttons alongside LCD screen
- Directs pan, tilt and zoom from integrated 3-axis joystick
- Eases operation with comfortable wristpad
- Side-mounted control knobs fine-tune focus, iris and speed
- Supports up to 18 cameras

WATCH THE VIDEO
We invite you to watch the NXP-PLV Camera Control product video profile at: **www.amx.com//assets/videos/NXP-PLV. Camera.Control.mp4**. The Rehearsals.com customer video profile featuring the NXP-PLV can also be viewed at: **www.amx.com/ assets/videos/Rehearsalscom.mp4**.
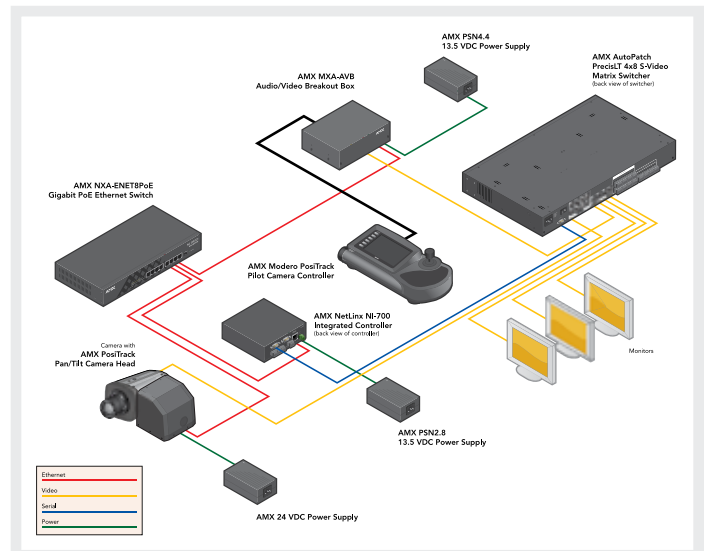
D-TOOLS CERTIFIED PRODUCT
This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

COUNTRY OF ORIGIN: UNITED STATES
To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.

SPECIFICATIONS

DIMENSIONS (HWD)
5" (including joystick) x 17 5/8" x 8 5/8" (12.7 cm x 44.9 cm x 21.7 cm)

WEIGHT
5.35 lb (2.43 kg)

POWER
• Constant current draw: 1.07 A @ 12 VDC
• Startup current draw: 1.27 A

MEMORY
• 64 MB SDRAM
• 256 MB Compact Flash or more

ENCLOSURE
Plastic with matte charcoal grey finish and plastic rests

BUTTONS
6 pushbuttons on the left side of the touchscreen to select cameras

VIDEO MONITOR
7-inch (152.40 mm) color active-matrix LCD screen

VIDEO IN
Via NXA-AVB/ETHERNET Breakout Box (optional)

COMPATIBILITY
NetLinx Central Controllers

ENVIRONMENTAL
• Operating Temperature: 0º C (32º F) to 40º C (104º F)
• Operating Humidity: 20% to 85% RH
• Storage Temperature: -20º C (-4º F) to 60º C (140º F)
• Storage Humidity: 5% to 85% RH

REAR CONNECTORS
• Footswitch Connector: 1/4" (6.35mm) tip sleeve input jack for optional momentary footswitch control
• Mini-USB Connector: 5-pin Mini-USB connector used for programming, firmware update, and touch panel file transfer between the PC and the target panel
• Stereo Audio Output Connector: Stereo output through a 3.5 mm minijack (for use with external speakers or headphones)
• Ethernet 10/100 Port: RJ-45 port for 10/100 Mbps communication
• USB Connector: Type A USB port connects an external keyboard or mouse device for use with Virtual PC applications
• Audio/Video Connector: RJ-45 connection for AV signals (via CAT5) between the NXA-AVB/ETHERNET Breakout Box and the panel. (optional)

POWER
2-pin 3.5 mm captive wire connector

BUTTON ASSIGNMENTS
• Button assignments can only be adjusted in TPD4 and not on the device's touchscreen
• Button channel range: 1 - 4000 button push and feedback (per address port)
• Button variable text range: 1 - 4000 (per address port)
• Button states range: 1 - 256 (General Button; 1 = Off State, 2 = On State)
• Level range: 1 - 600 (default level value 0-255, can be set up to 1-65535)
• Address port range: 1 - 100

NOTE: The NXP-PLV reserves channels 1-7 and levels 1-11 on Port 1 for hardware functions. These channels/levels are considered reserved by the device and cannot be used for button assignments

CERTIFICATIONS
FCC Class B, CE, IEC 60950

PANEL LCD PARAMETERS
• Aspect ratio: 16 x 9
• Brightness (luminance): 350 cd/m2
• Channel transparency: 8-bit Alpha blending
• Contrast ratio: 200:1
• Display colors: 256 thousand colors (18-bit color depth)
• Dot/pixel pitch: 0.19 mm
• Panel type: TFT Color Active-Matrix
• Screen resolution: 800 x 480 pixels (HV) @ 60 Hz frame frequency
• Video format: NTSC, PAL, and SECAM
• Viewing angles (100º total viewing angle):
  Vertical: + 50º (up from center) and - 50º (down from center)

INCLUDED ACCESSORIES
2-pin 3.5 mm captive wire connector (41-5025)

RECOMMENDED ACCESSORIES	DESCRIPTION	PART #	PAGE #
PTE-300	PosiTrack Pan/Tilt Head	(FG630-65)	227
NXA-AVB/ETHERNET	Audio/Video Breakout Box	(FG2254-10)	237
PSN4.4	4.4 A Power Supply	(FG423-45)	358
WM-CAM	PosiTrack Wall Mount Adapter	(FG630-41)	228
PM-CAM	PosiTrack Pedestal Mount Adapter	(FG630-42)	228

EXP-PT1370

AMX EXPerience Kits
(NXP-PLV + PTE-300)

(FG630-110K)

KIT INCLUDES

• NXP-PLV: Modero PosiTrack Pilot Camera Controller

• PTE-300: PosiTrack Ethernet Pan/Tilt Head

• NI-700: NetLinx Integrated Controller

• NXA-AVB/ETHERNET: Audio/Video Breakout Box with
  Composite Video and Ethernet Pass Through

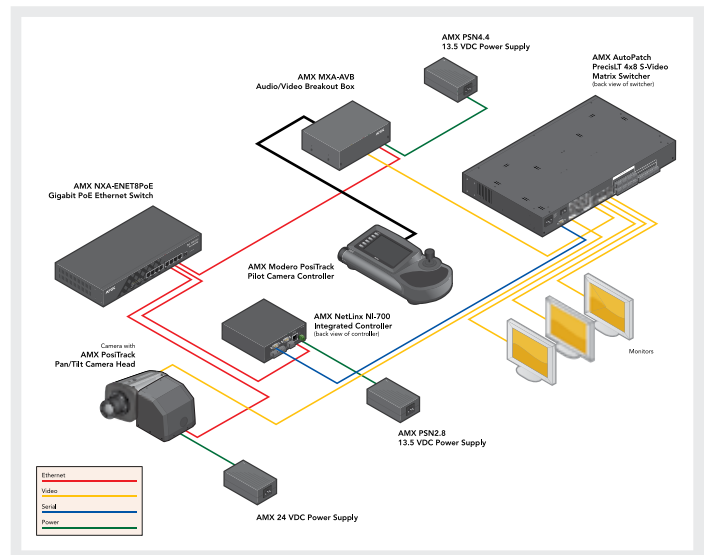• Power Supply, Cabling and Accessories

D-TOOLS CERTIFIED PRODUCT
This product can be found in the D-Tools manufacturer product
database and specified as a third party device when building and
proposing a system using D-Tools System Integrator software.

COUNTRY OF ORIGIN: UNITED STATES
To satisfy the requirements/regulations of existing or future government
programs, this two-letter code is being provided to designate the
country of origin for this product.

AMX PSN4.4
13.5 VDC Power Supply

AMX AutoPatch
PrecisLT 4x8 S-Video
Matrix Switcher
(back view of switcher)

AMX MXA-AVB
Audio/Video Breakout Box

AMX NXA-ENET8PoE
Gigabit PoE Ethernet Switch

AMX Modero PosiTrack
Pilot Camera Controller

AMX NetLinx NI-700
Integrated Controller
(back view of controller)

Camera with
AMX PosiTrack
Pan/Tilt Camera Head

Monitors

AMX PSN2.8
13.5 VDC Power Supply

Ethernet
Video
Serial
Power

AMX 24 VDC Power Supply

PTE-300

PosiTrack Ethernet Pan/Tilt Head

(FG630-65)

OVERVIEW

The PosiTrack Ethernet Pan/Tilt Head PTE-300 is a fully integrated camera positioning controller with the ability to command pan and tilt functionality, lens zoom, focus and iris features. The PTE-300 uses gears and pulleys to pan and tilt the camera with broadcast precison. Also features an Ethernet control interface that offers more installation flexibility, increased distances to the master controller and no proprietary cable runs. The PTE-300 can be used in VisualArchitect (version 1.2 or higher).

COMMON APPLICATION

Ideal for support and control of a wide variety of cameras for use in rehearsal studios, sporting events, concerts and other venues requiring standalone camera operation.

FEATURES

- Supports camera loads up to 30 pounds
- Cradle adjustments allow camera load to be balanced in horizontal and vertical axes
- Stores up to 100 5-axis synchronized presets in on board, non-volatile memory
- Manual local control of pan, tilt, zoom, and focus via four function 3-axis joyswitch
- Installs on a tripod, podium (PM-CAM), or wall (WM-CAM) by using optional mounting adapters
- Controls servo motor lenses in both positional and speed mode

SPECIFICATIONS

DIMENSIONS (HWD)
6 3/8" x 5 3/8" x 6 1/4" (16.3 cm x 13.7 cm x 15.9 cm)

WEIGHT
10.75 lbs (4.88 kg)

POWER
2.5A @ 24 VDC

ENCLOSURE
Metal with black enamel and black anodized matte finish

PRESETS
Up to 100 presets for pan, tilt, zoom, focus and iris axes

SERVO MOTOR LENS CONTROL
Supports positional and speed modes

ANGULAR TRAVEL
- Pan: ± 177° (354° total)
- Tilt: ± 90° (180° total)

SPEED
- Pan: 35°/sec
- Tilt: 35°/sec

REPEATABILITY
± 3 arc minutes

CONNECTORS
- DB-9 for RS-232 camera control
- HD-15 for lens control
- 2-pin captive wire for power and ground
- RJ-45 for Ethernet

INCLUDED ACCESSORIES
24 volt DC power supply (57-0630-SA)

OPTICAL CENTERLINE
- Optical centerline is between 1/2" and 5" above the mounting plane of the camera/lens.
- Optical centerline allows the mounting of the camera/lens such that the tilt axis is capable of going through the optical axis of the camera.

CONTROL PANEL
- RS-232 DB-9 connector (for camera control)
- HD-15 high density connector (for lens control)
- RJ-45 Ethernet port provides 10BaseT communication with the NetLinx Master
- 2-pin 3.5mm captive-screw connector for 24 VDC power

CERTIFICATIONS
FCC Part 15, Class B, CE, IEC 60950

ENVIRONMENTAL
Ambient Temperature: 32° F to 120° F (0° C to 48.8° C)

LENS COMPATIBILITY
The PTE-300 should operate all Canon KTS, KTSA Video Conference lenses and all Fujinon BMD Video conference lenses.
For complete confidence in lens compatibility, it is recommended that drawings of the 12 pin lens connector be sent to AMX Technical Support for verification.

RECOMMENDED ACCESSORIES	DESCRIPTION	PART #	PAGE #
WM-CAM	PosiTrack Wall Mount Adapter	(FG630-41)	228
PM-CAM	PosiTrack Pedestal Mount Adapter	(FG630-42)	228

WM-CAM

Wall Mount for PosiTrack
Camera Heads

(FG630-41)

OVERVIEW

Mount used to secure all PosiTrack Camera Heads to walls,
ceilings or other flat, secure surfaces.

SPECIFICATIONS

BASE DIMENSIONS
9 3/4" x 6" (248 mm x 152 mm)

LENGTH
19 3/4" (502 mm)

WEIGHT
7.6 lbs (3.5 kg)

PM-CAM

Flush/Ceiling PosiTrack
Pedestal Mount

(FG630-42)

OVERVIEW

8-inch pedestal for straight-up installation of PosiTrack camera
heads.

SPECIFICATIONS

DIMENSIONS (HWD)
8" x 5" x 5" (203 mm x 147 mm x 147 mm)

WEIGHT
2.3 lbs (1.0 kg)