

ExSite® Series Explosionproof Positioning System

PAN/TILT SYSTEM WITH IOP CAMERA AND OPTIONAL WIPER

Product Features

- Electropolished 316L Stainless Steel Construction
- Upright or Inverted Operation
- Receiver, Pan/Tilt, and Enclosure with an Integrated Optics Package (IOP)
- Two Auto Focus, High-Resolution Integrated Optic Packages
 - 23X Day/Night, 80X Wide Dynamic Range, and Motion Detection
 - Color 22X EXview HAD™
- Multilanguage On-Screen Menus
- Password Protection
- Programmable Camera Settings
- · On-Screen Compass, Tilt, and Zoom Display
- Variable Speed Pan: 0.1° to 40°/second with Proportional Pan
- 360° Continuous Pan Rotation
- Tilt Range of +90° to -90° from Horizontal
- Preset Positioning, Patterns, Multiple Scan Modes
- Designed for Minimal Maintenance
- Built-in System Memory
- Software Update and Setup via Remote Data Port (IPS-RDPE-2)
- Password Protection to Prevent Unauthorized Changes to the System

The **ExSite® Series** are innovative integrated positioning systems that meet stringent explosionproof requirements. The ExSite Series not only combine a receiver, pan/tilt, and enclosure in a single, easy-toinstall system, but also includes an Integrated Optics Package (IOP). The Integrated Optics Package contains an auto-focus camera and lens module with programmable features.

For a wide range of applications, the **ExSite Series** feature a choice of two different IOP cameras: a high-resolution camera with LowLight™ color technology and 22X zoom lens (22X optical, 12X digital), and a high-resolution day/night camera with a removable infrared cut filter and 23X zoom lens (23X optical, 12X digital).

The electropolished 316L stainless steel construction makes the **ExSite Series** ideal for all kinds of environmental conditions including marine applications. The system has an absolute operating temperature range of -60° to 60°C. Within two hours after power-up, the entire unit can de-ice and be operational from a temperature of -25°C

The **ExSite Series** include an optional window wiper. The wiper is completely integrated into the enclosure and does not interfere with the



(NOT SUPPLIED)

- On-Board Connector for
- Pelco VC-UTP Video Converter
- Pelco TXB Series Translator Boards for Use with Hernis and Other
- Pelco FS85011 and Third-Party Fiber Optic Transmitters

viewing range of the system. The wiper can be programmed to delay between wipes and to automatically shut off after a specified period. A built-in heater, window defroster/defogger, sun shroud, and blower are standard features on the ExSite Series. All units also include three auxiliary output relays that can be programmed for a variety of uses.

The **ExSite Series** variable pan and tilt speeds range from 0.1 to 40 degrees per second in manual pan, tilt, and preset mode. The **ExSite Series** is capable of 360 degrees of continuous pan rotation. The tilt range allows for horizontal viewing of -90 to +90 degrees. There are 80 preset positions with a preset accuracy of ± 0.1 degree.

The systems are available with an input voltage of 24 VAC or with a power source of 100-240 VAC. The ExSite Series also have a powerup recovery mode that allows the user to specify what operation the system will resume whenever the power is cycled.

ExSite Series feature built-in system memory in the power module to store camera and location-specific pan/tilt settings, including labels, presets, patterns, and zones. These settings are automatically downloaded if a new pan and tilt body is installed.





















TECHNICAL SPECIFICATIONS

PRODUCT FEATURES

- Integral Multi-Protocol Receiver/Driver
- 360° Continuous Pan Rotation, Tilt Range ±90°
- · Quick and Easy Installation
- · Designed for Minimal Maintenance, No Gears to Adjust
- Two-Year Continuous-Duty Warranty
- · Upright or Inverted Installation

SOFTWARE/HARDWARE

- Programmable Power-up Mode
- · Programmable Park
- Sun Shroud, Heater/Window Defroster, and Blower All Standard
- 80 Presets with Custom Camera Settings and Labels
- ±0.1° Preset Accuracy
- Multilanguage Menus (English, Spanish, Portuguese, Italian, French, German, Russian, Polish, Turkish, and Czechoslovakian)
- On-Screen Compass, Tilt, and Zoom Display
- Password Protection
- Eight Zones (programmable in size) Can Be Labeled with Up to 20 Characters Each or Set to Output Blank Video
- Programmable Locations of Labels and On-Screen Displays
- Seven Alarm Inputs
- · Three Relay Outputs
- Action on Alarm Alarms can be individually programmed for three priority levels, to initiate a stored pattern, or to go to an associated preset
- Resume After Alarm Allows the pan/tilt to return to a previously programmed state after alarm acknowledgement or to its previous position before alarm
- Patterns Up to four, on-screen, user-defined programmable patterns. Includes pan, tilt zoom, and preset functions
- Proportional Pan/Tilt Continually decreases pan and tilt speeds in proportion to depth of zoom
- Variable Scan Speed Scan speed can be programmable between
- Programmable Limit Stops for Auto/Random/Frame Scan Modes
- Auto-sensing Protocol (Coaxitron®, RS-422 P and D); Accepts Competitive Control Protocol with Optional Translator Card
- Built-in Menu System for Setup of Programmable Functions

ALL CAMERAS

- · Auto Focus with Manual Override
- · Auto Iris with Manual Override
- Programmable Settings
- AC Line Lock
- NTSC/PAL

ELECTRICAL

Heater and Defroster

Input Voltage 24 VAC or 100-240 VAC

Input Voltage Range ±10%

Power Consumption Maximum 60 watts (120 VA) per system

Microprocessor controlled

6-foot pigtail wire harness with connections **Electrical Connections**

for power, video, data control, alarm inputs,

and auxiliary outputs

Auxiliary Outputs Three N/O or N/C relays, 32 VDC, 0.5 A.

Relay 3 is allocated specifically for an external washer (not supplied by Pelco).

MECHANICAL

Alarm Inputs

One 0.75-inch (1.91 cm) NPT threaded Cable Entry

opening; one explosionproof sealable fitting

supplied

360° Continuous pan rotation Pan Movement Vertical Tilt Unobstructed +90° to -90°

Variable Pan/Tilt Speed

Pan Tilt

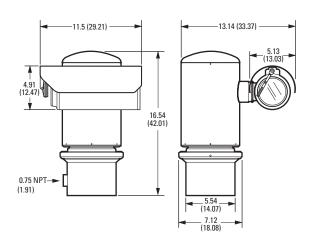
Preset Speeds Pan

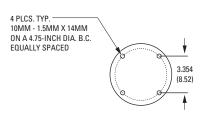
Tilt

0.1° to 40°/sec variable-speed operation

0.1° to 40°/sec variable-speed operation

40°/sec 40°/sec





NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

TECHNICAL SPECIFICATIONS

GENERAL

Construction 316L stainless steel Finish Electropolish

0.50-inch (12.7 mm) thick, soda-lime Viewing Window

tempered glass

Operating Temperature -76° to 140°F (-60° to 60°C)

Unit Weight 55 lb (25 kg) Shipping Weight 73 lb (33 kg) Effective Projected Area (EPA) 40.8 square inches

CERTIFICATIONS/RATINGS

- UL/cUL Listed
- UL/cUL Hazardous Locations Listed per NEC Division and Zone requirement
- UL Marine Listed
- Class I, Groups A, B, C, and D
- Class II, Groups E, F, G, T5 Class I, Zone 1, AEx d IIC, Ex d IIC, T5
- BR-Ex d IIC, T5, IP66
- 04/UL BRAE 0027
- IECEx UL 04.0010, Ex d IIC, T5
- 04 ATEX 0413858
- **C €** 0539 **(x) (D** II 2 **G** Ex d IIC, T5

- (a) (b) II 2 D T105 C, IP66
 (Tamb -60°C to 60°C)
 Meets NEMA Type 4X standards
- Complies with Argentina compliance requirements under Res. 92/98
- NEPSI-China, Ex d IIC, T5, Cert No. GYJ05584
 Lloyd's Register Type Approval: Marine, offshore, and industrial installations for use in environmental categories ENV1, ENV2, and ENV5; Certificate No. 06/60001

At the time of this printing, all other certifications are pending. Please consult the factory, our web site (www.pelco.com), or the most recent B.O.S.S.[®] update for the current status of certifications.

CAMERA/OPTICS

	Day/Night (23X)	Color, LowLight™ (22X)
Signal Format	NTSC, PAL	NTSC, PAL
Scanning System	2:1 Interlace	2:1 Interlace
Image Sensor Effective pixels NTSC	1/4-inch CCD 724 (H) x 494 (V)	1/4-inch EXview HAD™ CCD 768 (H) x 494 (V)
PAL	724 (H) x 582 (V)	752 (H) x 582 (V)
Horizontal Resolution NTSC PAL	>470 TV lines >470 TV lines	>470 TV lines >460 TV lines
Lens	F/1.6 (F = 3.6~82.8 mm optical)	$F/1.6$ (F = $4 \sim 88$ mm optical)
Zoom	23X optical, 12X digital	22X optical, 12X digital
Programmable Zoom Speed (Optical Range)	2.9/4.2/5.8 seconds	2.4/3.9/6.3 seconds
Horizontal Angle of View Focus	54° at 3.6 mm wide zoom; 2.5° at 82.8 mm telephoto zoom Automatic with manual override	47° at 4.0 mm wide zoom; 2.2° at 88 mm telephoto zoom Automatic with manual override
Maximum Sensitivity @35 IRE NTSC	0.08 lux at 1/2 sec shutter (color) 0.3 lux at 1/60 sec shutter (B-W) 0.013 lux at 1/2 sec shutter (F-W)	0.02 lux at 1/2 sec shutter
PAL	0.08 lux at 1/1.5 sec shutter (color) 0.3 lux at 1/50 sec shutter (B-W) 0.013 lux at 1/1.5 sec shutter (B-W)	0.02 lux at 1/1.5 sec shutter
Sync System	Internal/AC line lock, phase adjustable via remote control, V-Sync*	Internal/AC line lock, phase adjustable via remote control, V-Sync*
White Balance	Automatic with manual override*	Automatic with manual override*
Shutter Speed NTSC PAL	Automatic (electronic iris)/Manual 1/2~1/30,000* 1/1.5~1/30,000*	Automatic (electronic iris)/Manual 1/2~1/30,000* 1/1.5~1/30,000*
Iris Control	Automatic Iris Control with manual override*	Automatic Iris Control with manual override*
Gain Control	Automatic/OFF*	Automatic/OFF*
Video Output	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms
Video Signal to Noise	>50 dB	>50 dB

^{*}Manual control of camera setup functions can be done with CM6700, CM6800, CM9760, CM9770, CM9780. KBD200A, KBD300A, and MPT9500 controllers, but not with CM7500, MPT9000, or KBD9000 controllers.

MOUNTING ACCESSORIES

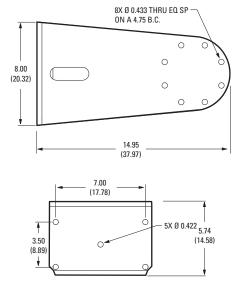
MODELS		GENERAL	
WXM100	Wall mount designed to mount the ExSite Series system directly to a load-bearing vertical surface	Construction Mounts PAXM100 Mounting Straps	Electro-polished 304 stainless steel 316 stainless steel
PXM100	Pedestal mount designed to mount an ExSite Series system directly to a horizontal surface in either an upright or inverted position	Maximum Load WXM100 CMXM100	73 lb (33 kg) 85 lb (38.50 kg)
CMXM100	Corner adapter for use with the WXM100 to mount an ExSite Series system to the corner	PAXM100 PXM100	88 lb (40 kg) 79 lb (35.83 kg)
PAXM100	of a structure Pole adapter for use with the WXM100 to mount a system to a vertical pole or with a PXM100 to mount a system to a horizontal pole. Recommended pole diameter is 4 to	Unit Weight WXM100 CMXM100 PAXM100 PXM100	12.4 lb (5.62 kg) 7.6 lb (3.45 kg) 9.2 lb (4.17 kg) 1.3 lb (0.60 kg)
	9 inches (10.16 to 22.86 cm)	Shipping Weight (approximate) WXM100 CMXM100 PAXM100 PXM100	17 lb (7.71 kg) 13 lb (5.89 kg) 14 lb (6.35 kg) 4 lb (1.81 kg)

MECHANICAL

Mounting Method	Recommended Mounting Surface	Recommended Hardware
WXM100, CMXM100*, and PXM100	Solid concrete with the recommended strength of 3,600 psi or 25 Mpa	Five 3/8-16 x 1-9/16-inch long stainless steel drop-in anchors and five 3/8-16 x 1.0-inch thread length, stainless steel hex head bolts with stainless steel lock washers (not supplied)
	Steel I beam with a minimum of 1/8-inch wall	Five 3/8-16 x 1.0-inch thread length, stainless steel hex head bolts with stainless steel lock washers and 3/8-16 stainless steel nuts (not supplied)
PAXM100*	Steel pole with a diameter between 4 and 9 inches (10.16 to 22.86 cm)	Four 5/8-inch wide x 40-inch (101.6 cm) long stainless steel straps to attach the adapter to a pole (supplied)

^{*}Five 3/8-16 x 1.0-inch thread length, stainless steel hex head bolts with lock washers are supplied with the CMXM100 and PAXM100 to be used with the WXM100 wall mount or PXM100 pedestal mount.



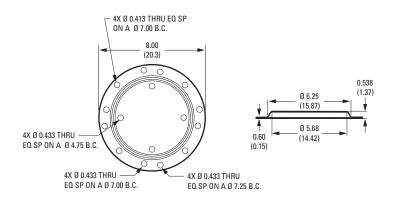


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MOUNTING ACCESSORIES

PXM100 PEDESTAL MOUNT

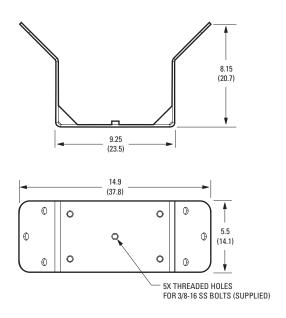




CMXM100 CORNER ADAPTER



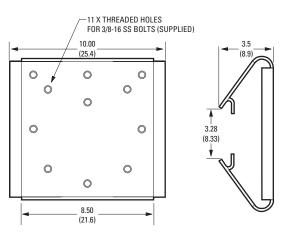
NOTE: Designed to be used with a WXM100 wall mount.



PAXM100 POLE ADAPTER



NOTE: Designed to be used with a WXM100 to mount a system to a vertical pole, or a PXM100 to mount the system to a horizontal pole. Recommended pole diameter is 4 to 9 inches (10.16 to 22.86 cm).



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SYSTEM MODEL NUMBERS

Model		Format	24 VAC	100-240 VAC
22X Color	Standard	NTSC PAL	IPSXM30C22-2 IPSXM30C22-2X	IPSXM30C22-7 IPSXM30C22-7X
	With Wiper	NTSC PAL	IPSXM31C22-2 IPSXM31C22-2X	IPSXM31C22-7 IPSXM31C22-7X
23X Day/ Night	Standard	NTSC PAL	IPSXM30CBW23-2 IPSXM30CBW23-2X	IPSXM30CBW23-7 IPSXM30CBW23-7X
	With Wiper	NTSC PAL	IPSXM31CBW23-2 IPSXM31CBW23-2X	IPSXM31CBW23-7 IPSXM31CBW23-7X

COMPONENT MODEL NUMBERS

Power Module	PTZ	Camera Module	
IPSXM-2 24 VAC IPSXM-7 100-240 VAC	IPSXMPT30 No Wiper	IPSXM30C22 IPSXM30C22X IPSXM30CBW23 IPSXM30CBW23X	Color (NTSC) camera (264X) no wiper Color (PAL) camera (264X) no wiper Day/Night (NTSC) camera (276X) no wiper Day/Night (PAL) camera (276X) no wiper
	IPSXMPT31 With Wiper	IPSXM31C22 IPSXM31C22X IPSXM31CBW23 IPSXM31CBW23X	Color (NTSC) camera (264X) with wiper Color (PAL) camera (264X) with wiper Day/Night (NTSC) camera (276X) with wiper Day/Night (PAL) camera (276X) with wiper

OPTIONAL ACCESSORIES

TXB Series* Translator boards for AD Manchester, Hernis, Bosch (Philips, Burle), Sensormatic, and Vicon

protocols.

IPS-RMK Remote monitor kit. Includes TFT-LCD

monitor, PDA handheld, cables, and carrying case. Allows viewing of camera video, local

PTZ control, and system setup.

IPS-CABLE Remote monitor cable and software kit.

IPS-RDPE-2* Remote data port. 24 VAC, wall/pole mount

video/data breakout box. Allows ground-level control/programming when used with the

IPS-RMK.

VC-UTP Converts video for use with unshielded

twisted pair (UTP); cannot be used

simultaneously with TXB translator boards.

FS85011 Series* Factory-installed fiber transmitter sends one undirectional composite video channel and

one bidirectional data channel over on multimode or single-mode fiber optic cable.

*If TXB or FS85011 boards are installed, remote upload of system software will not be possible.

RECOMMENDED CONTROLS

All Pelco multiplexer and matrix switchers:

CM6700, CM6800, CM9700 Series, MPT9000, and MX4000 Series.

RECOMMENDED KEYBOARD CONTROLS

(For use in Direct Mode operation only)

KBD200A Desktop keyboard, multi-speed PTZ control.
KBD300A Desktop keyboard, vari-speed PTZ control.

Note: System keyboards require a remote keyboard wiring kit (KBDKIT) for direct mode operation; allows two-wire control of up to 16 daisy-chained receivers. Keyboards output Pelco P protocol at 4800 baud.



ExSite system installed to a wall mount (WXM100) and pole adapter (PAXM100).



ExSite system installed in an inverted position using a pedestal mount (PXM100) attached to a pole adapter (PAXM100).



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