ExSite® IP Series Explosionproof Positioning System NETWORK PAN/TILT SYSTEM WITH IOP CAMERA AND OPTIONAL WIPER

Product Features

- · Ability to Control and Monitor Video Over IP Networks
- H.264, MPEG-4, and MJPEG Compression
- Supported Protocols: TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour®), and 802.1x (EAP)
- Electropolished 316L Stainless Steel Construction
- Upright or Inverted Operation
- 2 Autofocus, High Resolution Integrated Optic Options
- Multilingual On-Screen Menus
- Password Protection
- Configurable 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

ExSite® IP Pan/Tilt Series has all of the features and functions of the original ExSite Series, while allowing you to control and monitor video over an IP network from virtually anywhere in the world. **ExSite IP Pan/Tilt Series** is an explosionproof integrated positioning system with a built-in 100Base-TX network interface for live streaming to any network application.

ExSite IP Pan/Tilt Series supports two simultaneous video streams. The two streams can be compressed in MJPEG, MPEG-4, and H.264 formats across several resolution configurations. The streams can be configured in a variety of frame rates, bit rates, and group of pictures (GOP) structures for additional bandwidth administration. The H.264 compression video files are up to 20 times smaller than MJPEG, making network video storage more affordable.

ExSite IP Pan/Tilt Series includes a choice of two different integrated optics package (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).



- Up to 2 Simultaneous Video Streams
- Web Viewing, up to 16 Cameras Simultaneously
- Open IP Standards

Web Interface

ExSite IP Pan/Tilt Series uses a standard Web browser for powerful remote setup and administration. Up to 16 cameras can be viewed on the same network.

Network protocols such as Secure Sockets Layer (SSL) configuration for security certificates, Secure Shell (SSH) for remote logon, and Quality of Service (QoS) for priority or guarantee data flow can be managed using a Web browser.

Systemization

ExSite IP Pan/Tilt Series easily connects to Pelco IP systems such as Endura[®] version 1.5 (or later), MPEG-4; Endura version 2.0 (or later), H.264; Digital Sentry[®] version 4.2 (or later); DX8100 version 2.0 (or later); and DVR5100 version 1.5.4 (or later). The camera also features open architecture connectivity to third-party software. Pelco offers an application programming interface (API) for interfacing to Pelco's network cameras.





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 progressive scan CCD 768 (H) x 494 (V)	1/4-inch EXview HAD [™] CCD 768 (H) x 494 (V)			
PAL	752 (H) x 582 (V)	752 (H) x 582 (V)			
Horizontal Resolution NTSC PAL	540 TV lines 540 TV lines	>470 TV lines >460 TV lines			
Lens	f/1.6 (focal length, 3.6 ~ 82.8 mm optical)	f/1.6 (focal length, 4 ~ 88 mm optical)			
Zoom	23X optical, 12X digital	22X optical, 12X digital			
Configurable Zoom Speed (Optical Range)	2.9/4.2/5.8 seconds	2.4/3.9/6.3 seconds			
Horizontal					
Angle of View	54° at 3.6 mm wide zoom; 2.5° at 82.8 mm telephoto zoom	47° at 4.0 mm wide zoom; 2.2° at 88 mm telephoto zoom			
Focus	Automatic with manual override	Automatic with manual override			
Maximum Sensitivity at 35 IRE NTSC	0.025 lux at 1/2 sec shutter (color) ; 0.1 lux at 1/60 sec shutter (B-W) ; 0.004 lux at 1/2 sec shutter (B-W)	0.02 lux at 1/2 sec shutter			
PAL	0.025 lux at 1/1.5 sec shutter (color); 0.1 lux at 1/50 sec shutter (B-W); 0.004 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 using remote control, V-Sync	Internal/AC line lock, phase adjustable using 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 Ratio	>50 dB	>50 dB			

TECHNICAL SPECIFICATIONS

VIDEO

Video Encoding Video Streams	H.264 base profile, MPEG-4, and MJPEG Up to 2 simultaneous streams; the second stream is variable based on the setup of the primary stream								
Frame Rate	4, 3, 2, 1		ent upon c	2, 10, 8, 7. 5, oding, resolut					
Available Resolutions	F	Resolution MJPEG		H.264 Base Profile		MPEG-4			
	Width	Height	Format	Maximum IPS	Recommended Bit Rate	Maximum IPS	Recommended Bit Rate	Maximum IPS	Recommended Bit Rate
	704	480	NTSC	30 ips	5.4 Mbps	30 ips	1.9 Mbps	30 ips	2.0 Mbps
	352	240	NTSC	30 ips	1.3 Mbps	30 ips	0.5 Mbps	30 ips	0.6 Mbps
	704	576	PAL	25 ips	5.4 Mbps	25 ips	1.9 Mbps	25 ips	2.0 Mbps
Supported Protocols	UPnP, DN QoS, HT	TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour®), and 902 14 (EAP)				<u>.</u>			
Users									
Unicast				s depending on nteed stream					
Multicast	Unlimite	d users H	.264 or M	PEG-4					
Security Access		Password protected							
Software Interface	Web bro 16 came	wser viev ras	v and set	up, up to					
Pelco System Integration	Endura 1.5 or later (MPEG-4) or Endura 2.0 or later (H.264); Digital Sentry 4.2 IP bundle 3 or later; DX8100 Series 2.0 or later; and DVR5100 version 1.5.4 or later								
Open IP Integration	Pelco IP	camera A	PI						
Minimum System Requireme				4.0.01					
Processor Operating System	Microso	Intel® Pentium® 4 microprocessor, 1.6 GHz Microsoft® Windows® XP, Windows Vista®,							
Memory	Windows 7, or Mac® OS X 10.4 (or later) 512 MB RAM								
Network Interface Card	12 MB RAM 100 megabits (or greater)								
Monitor	Minimum of 1024 x 768 resolution, 16- or 32-bit pixel color resolution								
Web Browser*	Internet Explorer® 7.0 (or later) or Mozilla® Firefox® 3.0 (or later)								
Media Player⁺	Pelco Media Player or QuickTime® 7.6.5 for Windows XP, Windows Vista, or QuickTime 7.6.4 for Mac OS X 10.4								

*Internet Explorer is not supported by Mac OS X 10.4.

⁺This product is not compatible with QuickTime version 7.6.4 for Windows XP or Windows Vista. If you have this version installed on your PC, you will need to upgrade to QuickTime version 7.6.5.

PRODUCT FEATURES

- Integral Multiprotocol Receiver/Driver
- 360° Continuous Pan Rotation, Tilt Range $\pm 90^\circ$
- Quick and Easy Installation
- Designed for Minimal Maintenance, No Gears to Adjust
- 2-Year Continuous-Duty Warranty
- Upright or Inverted Installation

SOFTWARE/HARDWARE

- Configurable Power-up Mode
- Configurable Park
- Sun Shroud, Heater/Window Defroster, and Blower All Standard
- 80 Presets with Custom Camera Settings and Labels
- ±0.1° Preset Accuracy
- Multilingual Menus (English, Spanish, Portuguese, Italian, French, German, Russian, Polish, and Turkish)
- On-Screen Compass, Tilt, and Zoom Display
- Password Protection
- 8 Zones (configurable in size) Can Be Labeled with up to 20 Characters Each or Set to Output Blank Video
- Configurable Locations of Labels and On-Screen Displays
- 7 Alarm Inputs
- 3 Relay Outputs
- Action on Alarm: Alarms can be individually configured for 3 priority levels, to initiate a stored pattern, or to go to an associated preset when received
- Resume After Alarm: Allows the pan/tilt to return to a previously configured state after alarm acknowledgement or to its previous position before alarm
- Patterns: Up to 4, on-screen, user-defined configurable 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 configurable between 1° and $40^\circ/\text{sec}$
- Configurable Limit Stops for Auto/Random/Frame Scan Modes
- Built-in Menu System for Setup of Configurable Functions

ALL CAMERAS

- Autofocus with Manual Override
- Auto Iris with Manual Override
- Configurable Settings
- NTSC/PAL

TECHNICAL SPECIFICATIONS

316L stainless steel

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

24 VAC or 100 to 240 VAC, 50/60 Hz

Maximum 60 W (120 VA) per system

6-foot pigtail wire harness with connections for power, network, alarm inputs, and

3 normally open (N.O.) or normally closed

allocated specifically for an external washer

(N.C.) relays, 32 VDC, 0.5 A; relay 3 is

Microprocessor controlled

auxiliary outputs

(not supplied by Pelco)

-76° to 140°F (-60° to 60°C)

Electropolish

tempered glass

55 lb (25 kg)

73 lb (33 kg)

±10%

7

40.8 square inches

GENERAL

Construction Finish Viewing Window

Operating Temperature Unit Weight Shipping Weight Effective Projected Area (EPA)

ELECTRICAL

Input Voltage Input Voltage Range Power Consumption Heater and Defroster Electrical Connections

Auxiliary Outputs

Alarm Inputs

MECHANICAL

Cable Entry

Pan Movement Vertical Tilt Variable Pan/Tilt Speed Pan Tilt Preset Speeds Pan Tilt One 0.75-inch (1.91 cm) NPT threaded opening; one explosionproof sealable fitting supplied 360° Continuous pan rotation Unobstructed +90° to -90° 0.1° to 40°/sec variable-speed operation

0.1° to 40°/sec variable-speed operation

40°/sec 40°/sec

CERTIFICATIONS/RATINGS

- FCC
- UL/cUL Listed
- UL/cUL Hazardous Locations Listed per NEC Division and Zone requirement Class I, Divisions I and II, Groups A, B, C, and D
- Class II, Divisions I and II, Groups E, F, G, T5 Class I, Zone 1, AEx d IIC, Ex d IIC, T5
- AEx tD 21 T105°C
- 04/UL-BRAE-0027 BR-Ex d IIC, T5, IP66
- IECEX UL 11.0007X
- Tamb –60°C to 60°C
- NEPSI-China, Ex d IIC, T5, Cert No. GYJ05584
- C-Tick
- S Mark for Argentina
- Meets NEMA Type 4X standards





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

MOUNTING ACCESSORIES

MODELS

WXM100	Wall mount designed to mount the ExSite Series system directly to a load-bearing vertical surface
PXM100	Pedestal mount designed to mount an ExSite Series system directly to a horizontal surface in either an upright or inverted position
CMXM100	Corner adapter for use with the WXM100 to mount an ExSite Series system to the corner of a structure
PAXM100	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 9 inches (10.16 to 22.86 cm)

GENERAL

Construction	
Mounts	Electropolished 304 stainless steel
PAXM100 Mounting Straps	316 stainless steel
Maximum Load	
WXM100	73 lb (33 kg)
CMXM100	85 lb (38.50 kg)
PAXM100	88 lb (40 kg)
PXM100	79 lb (35.83 kg)
Unit Weight	
WXM100	12.4 lb (5.62 kg)
CMXM100	7.6 lb (3.45 kg)
PAXM100	9.2 lb (4.17 kg)
PXM100	1.3 lb (0.60 kg)
Shipping Weight (approximate))
WXM100	17 lb (7.71 kg)
CMXM100	13 lb (5.89 kg)
PAXM100	14 lb (6.35 kg)
PXM100	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 of 4 to 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.

WXM100 WALL MOUNT







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MOUNTING ACCESSORIES



- 5X THREADED HOLES FOR 3/8-16 SS BOLTS (SUPPLIED)

PAXM100 POLE ADAPTER



Note: Designed for use 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 Line L		IPSXME0C22-2 IPSXME0C22-2X	IPSXME0C22-7 IPSXME0C22-7X	
ZZA GOIOF	With Wiper	NTSC PAL	IPSXME1C22-2 IPSXME1C22-2X	IPSXME1C22-7 IPSXME1C22-7X	
23X Day/Night	Standard	NTSC PAL	IPSXME0CBW23-2 IPSXME0CBW23-2X	IPSXME0CBW23-7 IPSXME0CBW23-7X	
	With Wiper	NTSC PAL	IPSXME1CBW23-2 IPSXME1CBW23-2X	IPSXME1CBW23-7 IPSXME1CBW23-7X	

COMPONENT MODEL NUMBERS

Pow	er Module	PTZ	Camera Module		
IPSXME-2	24 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	
IPSXME-7	100 to 240 VAC	IPSXMPT31 No 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 ACCESSORY

EXAC

Factory-installed increased safety (Ex e) potted cable interface and junction box with screw-down terminal for quick connection and easy installation.

EXAC JUNCTION BOX



EXAC MOUNTING BRACKET



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Pelco by Schneider Electric

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