ExSite® IP Fixed Series Explosionproof Camera System

NETWORK CAMERA 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
- Manual 200° Pan and 180° Tilt Adjustments
- 2 Autofocus, High Resolution Integrated Optic Options
- Multilingual On-Screen Menus
- Password Protection
- · Configurable Camera Settings
- On-Screen Zoom Display
- For Use in a Variety of Harsh and Hazardous Environments, Including Marine Environments

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

ExSite IP Fixed 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 Fixed 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 Fixed 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 Fixed 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	1/4-inch progressive scan CCD	1/4-inch EXview HAD™ CCD
NTSC	768 (H) x 494 (V)	768 (H) x 494 (V)
PAL	752 (H) x 582 (V)	752 (H) x 582 (V)
Horizontal Resolution		
NTSC	540 TV lines	>470 TV lines
PAL	540 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;	47° at 4.0 mm wide zoom;
	2.5° at 82.8 mm telephoto 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);	0.02 lux at 1/2 sec shutter
	0.1 lux at 1/60 sec shutter (B-W);	
	0.004 lux at 1/2 sec shutter (B-W)	
PAL	0.025 lux at 1/1.5 sec shutter (color);	0.02 lux at 1/1.5 sec shutter
	0.1 lux at 1/50 sec shutter (B-W);	
	0.004 lux at 1/1.5 sec shutter (B-W)	
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	Automatic (electronic iris)/Manual	Automatic (electronic iris)/Manual
NTSC	1/2 ~ 1/30,000	1/2 ~ 1/30,000
PAL	1/1.5 ~ 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

VIDEO

Video Encoding H.264 base profile, MPEG-4, and MJPEG
Video Streams Up to 2 simultaneous streams; the second

stream is variable based on the setup of the

primary stream

Frame Rate Up to 30, 25, 24, 15, 12.5, 12, 10, 8, 7. 5, 6, 5,

4, 3, 2, 1 (dependent upon coding, resolution,

and stream configuration)

Available Resolutions

F	Resolutio	n	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 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)

Users

Unicast Up to 20 simultaneous users depending on

resolution settings (2 guaranteed streams)

Multicast Unlimited users H.264 or MPEG-4

Security Access Password protected

Software Interface Web browser view and setup, up to

16 cameras

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 API

Minimum System Requirements

Processor Intel® Pentium® 4 microprocessor, 1.6 GHz
Operating System Microsoft® Windows® XP, Windows Vista®,

Windows 7, or Mac $^{\! \tiny @}$ OS X 10.4 (or later)

Memory 512 MB RAM

Network Interface Card 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 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
- Quick and Easy Installation
- Designed for Minimal Maintenance
- 2-Year Continuous-Duty Warranty
- Upright or Inverted Installation

SOFTWARE/HARDWARE

- Sun Shroud, Heater/Window Defroster, and Blower All Standard
- Multilingual Menus (English, Spanish, Portuguese, Italian, French, German, Russian, Polish, and Turkish)
- On-Screen Zoom Display
- Password Protection
- Configurable Locations of Labels and On-Screen Displays
- 7 Alarm Inputs
- 3 Relay Outputs
- Built-in Menu System for Setup of Configurable Functions

ALL CAMERAS

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

GENERAL

Construction 316L stainless steel Finish Electropolish

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

tempered glass

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

Unit Weight 34.7 lb (11.33 kg)

Shipping Weight 40.0 lb (18.14 kg) approximate

Effective Projected Area

(EPA)

31.1 square inches

ELECTRICAL

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

Input Voltage Range ±10%

Power Consumption $$\operatorname{\mathsf{Maximum}}\xspace$ 60 W (120 VA) per system

Heater and Defroster Microprocessor controlled

Electrical Connections 6-foot pigtail wire harness with connections

for power, network, alarm inputs, and

auxiliary outputs

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

(N.C.) relays, 32 VDC, 0.5 A; relay 3 is allocated specifically for an external washer

(not supplied by Pelco)

Alarm Inputs 7

MECHANICAL

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

opening; one explosionproof sealable fitting

supplied

CERTIFICATIONS/RATINGS

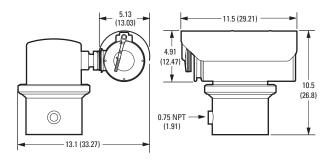
- FCC
- UL/cUL Listed
- UL/cUL Hazardous Locations Listed per NEC Division and Zone requirement

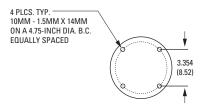
Class I, Divisions I and II, Groups A, B, C, and D Class II, Divisions I and II, Groups E, F, G, T5 Class I, Zone 1, AEx d IIC, Ex d IIC, T5

- AEx tD 21 T105°C
- 04/UL-BRAE-0027 BR-Ex d IIC, T5, IP66
- IECEx UL 11.0007X

II 2 D Ex tD A21 IP66 T105°C
 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

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WXM100 Wall mount designed to mount the ExSite Series system directly to a load-bearing vertical surface Pedestal mount designed to mount an PXM100 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

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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)

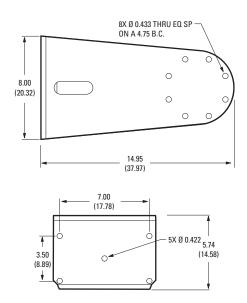
MECHANICAL

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



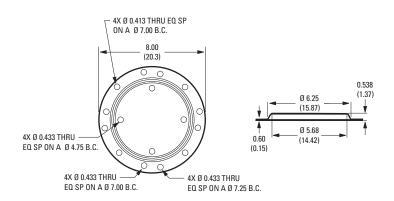


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MOUNTING ACCESSORIES

PXM100 PEDESTAL MOUNT

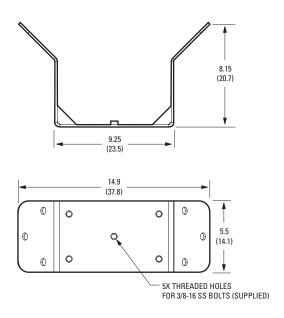




CMXM100 CORNER ADAPTER



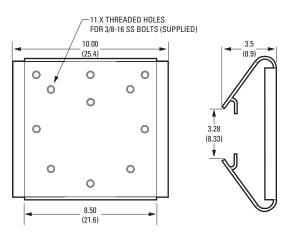
Note: Designed for use with a WXM100 wall mount.



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	NTSC PAL	EHXME0C22-2 EHXME0C22-2X	EHXME0C22-7 EHXME0C22-7X
	With Wiper	NTSC PAL	EHXME1C22-2 EHXME1C22-2X	EHXME1C22-7 EHXME1C22-7X
23X Day/Night	Standard	NTSC PAL	EHXME0CBW23-2 EHXME0CBW23-2X	EHXME0CBW23-7 EHXME0CBW23-7X
	With Wiper	NTSC PAL	EHXME1CBW23-2 EHXME1CBW23-2X	EHXME1CBW23-7 EHXME1CBW23-7X

COMPONENT MODEL NUMBERS

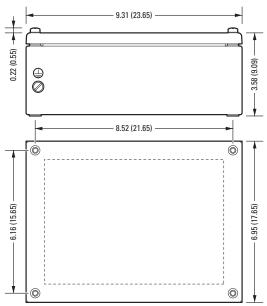
Power Module Enclosure		Camera Module		
IPSXME-2	24 VAC	EHXM30 No Wiper	IPSXM30C22 IPSXM30C22X IPSXM30CBW23 IPSXM30CBW23X	Color (NTSC) camera (264X) no wiper Color (PAL) camera (264X) no wiper Day/Night (NTSC) camera (276X) no wiper Day/Night (PAL) camera (276X) no wiper
IPSXME-7	100 to 240 VAC	EHXM31 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

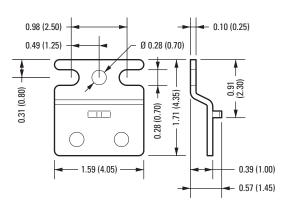
EXAC

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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