

ExSite Enhanced 2 Series Fixed

Reliable camera for hazardous sites

This bullet explosion-proof camera is purpose-built to monitor operations and control processes in hazardous locations with risks of explosion, due to the presence of flammable liquids, gases or dust. Built with corrosion-resistant stainless steel, it provides sites with a reliable video security solution that can withstand harsh conditions. This camera offers operators crisp and clear evidence with long-range zoom, true WDR and low-light capabilities for challenging lighting conditions common to hazardous areas.

2 MP



Features

SMART ANALYTICS

Enhanced detection and classification of people and vehicles allowing operators to review situations needing immediate attention for faster response time.

HAZARDOUS LOCATION CERTIFICATIONS

Heavy-duty housing meets stringent explosion-proof and dust ignition-proof requirements while complying with international standards (UL, CSA, ATEX, IECEx, UKCA, INMETRO, KCs and Ts mark).

HIGH-TEMPERATURE RANGE

Optimized to operate reliably even at increased temperature variances: -50 °C to +60 °C (-58 °F to 140 °F).

STAINLESS STEEL CONSTRUCTION

AISI 316L stainless steel construction for exceptional resistance to corrosion for both onshore and offshore marine environments.

ONVIF is a trademark of Onvif, Inc.

H.264 AND H.265 SMART COMPRESSION TECHNOLOGY

Retains image quality and critical information while reducing and bandwidth requirements to lower cost of ownership.

ONVIF® CONFORMANT

ONVIF Profile S, G, T and M compliance allows easy integration with your existing video management system.

WIDE DYNAMIC RANGE

Captures details in scenes with both very bright and very dark areas.

LOW LIGHT TECHNOLOGY

Offers excellent image detail in low-light settings.

For more information, contact your local Pelco sales representative today at pelco.com/about/contact-us/#form.

PELCO®

Specifications

Image Performance

2.0 MP

Image Sensor		1/2.8" progressive scan CMOS
Maximum Resolution (H x V)		1920 (H) x 1212 (V)
Aspect Ratio		16:9
Min Illumination		0.1 lux (F/1.6) in color mode; 0.03 lux F/1.6) in monochrome
Dynamic Range	WDR Off	83 dB
	WDR On	Up to 120 dB
Image Rate		Up to 60 fps
Aspect Ratio (Resolution Scaling)		Down to (16:9) 384×216 or (5:4) 320×256
3D Noise Reduction Filter		Yes
S/N Ration		More than 50dB

Lens

2.0 MP

Lens		F1.6, 4.3-129 mm (30x zoom) remote focus and zoom
Angle of View	Horizontal	(16:9) 2.34° - 65.1°
	Vertical	(16:9) 1.36° - 38.4°
Zoom		Up to 30x

Image Control

Video Compression		H.264 and H.265 Pelco Smart Compression, Motion JPEG
Streaming		Multi-stream H.264, Multi-stream H.265, Motion JPEG
Motion Detection		Pixel motion: Selectable sensitivity and threshold. Classified object detection
Electronic Shutter Control		Automatic, Manual (1/1 to 1/30,000 sec)
Iris Control		P-Iris, Automatic, Open, Closed
Day/Night Control		Mechanical IR cut filter. Automatic, Manual
Flicker Control		60 Hz, 50 Hz
White Balance		Automatic, Manual
Backlight Compensation		On/Off
Privacy Zones		Up to 64 zones
Digital Defog		Adjustable/Off

Network

Network	100BASE-TX
Ports	RJ45 connector (CAT5E cabling)
ONVIF	ONVIF compliance Profile S, Profile G, Profile T, and Profile M (www.onvif.org)
Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication. Signed and encrypted firmware. FIPS 140-2 L1 (with optional camera license)
Protocols	IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv3, ICMP, DHCP, Zeroconf, HSTS, QoS, DSCP
Streaming Protocols	RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP, SRTP
Device Management Protocols	SNMP v2c, SNMP v3

Mechanical

Dimensions (ØxL)	Ø155.5 mm x 264.0 mm; Ø6.12" x 10.4" (dimensions without sunshield)
Weight	With 4m cable: 8.5 kg (18.7 lbs); with 10m cable: 12.0 kg (26.5 lbs.)
Construction	AISI 316L stainless steel
Finish	Electro-polished surface
Wiper	Yes
Cable Entry	3/4" NPT
Cable Gland	Ex db and tb 3/4" NPT and preinstalled armored cable or with tail cable
Armored Cable Option	External diameter: 20.5 mm (0.81") ± 0.5 mm (0.2") Diameter under armature: 16.0 mm (0.63") Color: black RAL 9005 Composition: 3 × 2.5 mm ² (13 AWG), 7 × 0.34 mm ² (22 AWG), 4 × 2 × 0.20 mm ² (24 AWG) (cat. 5E)
Cable Tail Option	3 × 2.5 mm ² (13 AWG), external diameter 8.7 mm (0.34") 7 × 0.34 mm ² (22 AWG), external diameter 6.4 mm (0.25") 4 × 2 × 0.22 mm ² (24 AWG) (cat. 5E), external diameter 7.9 mm (0.31")

Electrical

Local Storage	MicroSD/microSDHC/microSDXC slot, up to 2 TB supported - video speed class card required. Class V10 or better recommended.
Power Consumption	53 W
Input Voltage (Power)	VDC: 12 V ± 5% (3.5A), VDC: 24 V ± 5% (2.2A), VAC: 24 V ± 10% (2.2A) at 50/60 Hz
Alarm Inputs	1
Relay Outputs	1 (1A, 30 VAC/60 VDC max)
Audio Input and Output	None

Environmental

Operating Temperature	-50 °C to +60 °C (-58 °F to 140 °F)
Storage Temperature	-40 °C to +55 °C (-40 °F to 131 °F)
Humidity	10% - 95% non-condensing
Housing Climate Control	Built-in heater and fan

Environmental

Cold Start	Up to 2 hour startup delay at temperature lower than -10 °C (14 °F)
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Certifications

Certifications/Directives	cULus, CE, UKCA, ROHS, (RCM, KC and BIS not for Tsmark version)
Safety	UL/CSA 62368-1, EN/IEC 62368-1, IS 13252 (PART 1): 2010/IEC 60950-1: 2005
Hazardous	ATEX (EN IEC 60079-0, EN 60079-1, EN 60079-31), IECEX (IEC 60079-0, IEC 60079-1, IEC 60079-31), EAC EX (TR CU 012/2011), INMETRO (ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-1, ABNT NBR IEC 60079-31), UK Ex (EN IEC 60079-0, EN 60079-1, EN 60079-31), KCs (Employment and labor department 2016-54), cable tail versions, ETL listed for USA (UL 60079-0, UL 60079-1, UL 60079-31) cable tail versions, ETL listed for Canada (CAN/CSA-C22.2 NO. 60079-0, CAN/CSA-C22.2 NO. 60079-1, CAN/CSA-C22.2 NO. 60079-31) cable tail versions
Environmental and Performance	EN/IEC 60529: IP66, IP67, IP68, IP69 EN 60068-2-52: salt spray UL50E: 4X, 6P
Electromagnetic Emissions	FCC Part 15 Subpart B Class A, IC ICES-003 Class A, EN 55032 Class A, EN 61000-6-3
Electromagnetic Immunity	EN 50130-4
Vibration Test	EN 50130-5, EN 60068-2-6
Warranty	3-year limited warranty. 5-year extended warranty is available.

Explosion-Proof Certifications

Cameras with Cable Tail for Installation with Conduit

Part Number	Certification	Marking	Ambient Temperature	Cable Entry Temperature
EXF2230-52-C4 EXF2230-52-C0	ATEX ITS15ATEX18330X	 II 2 G Ex db IIC T5 Gb  II 2 D Ex tb IIIC T100°C Db IP66/IP68	-50°C ≤ Ta ≤ +65°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68		
	INMETRO UL BR 16.0004X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91.B.00274/22	1Ex db IIC T5 Gb X Ex tb IIIC T100°C Db X		
	UK Ex - ITS21UKEX0379X	 II 2 G Ex db IIC T5 Gb  II 2 D Ex tb IIIC T100°C Db IP66/IP68		
	KCs 19-KA4BO-0180X, 19-KA4BO-0181X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db		
	cETLus 5002689 Hazardous Location America	Class I Zone 1 AEx db IIC T5 Gb Zone 21 AEx tb IIIC T100°C Db Class I Div 2 Group A,B,C & D T5 Class II Div 2 Group F & G T100°C		
	cETLus 5002689 Hazardous	Ex db IIC T5 Gb		

Part Number	Certification	Marking	Ambient Temperature	Cable Entry Temperature
	Location Canada	Ex tb IIIC T100°C Db Class I Div 2 Group A,B,C & D T5 Class II Div 2 Group F & G T100°C		
EXF2230-62-C4 EXF2230-62-C0	ATEX ITS15ATEX18330X	 II 2 G Ex db IIC T6 Gb  II 2 D Ex tb IIIC T85°C Db IP66/IP68	-50°C ≤ Ta ≤ +55°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	INMETRO UL BR 16.0004X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91.B.00274/22	1Ex db IIC T6 Gb X Ex tb IIIC T85°C Db X		
	UK Ex - ITS21UKEX0379X	 II 2 G Ex db IIC T6 Gb  II 2 D Ex tb IIIC T85°C Db IP66/IP68		
	KCs 19-KA4BO-0180X, 19-KA4BO-0181X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db		
	cETLus 5002689 Hazardous Location America	Class I Zone 1 AEx db IIC T6 Gb Zone 21 AEx tb IIIC T85°C Db Class I Div 2 Group A,B,C & D T6 Class II Div 2 Group F & G T85°C		
	cETLus 5002689 Hazardous Location Canada	Ex db IIC T6 Gb Ex tb IIIC T85°C Db Class I Div 2 Group A,B,C & D T6 Class II Div 2 Group F & G T85°C		

Cameras with Cable Tail for Installation with Conduit and TS mark

Part Number	Certification	Marking	Ambient Temperature	Cable Entry Temperature
EXF22302B-C4 EXF22302B-C0	ITS 15 ATEX 18330X	 II 2 G Ex db IIC T6...T5 Gb  II 2D Ex tb IIIC T85°C...T100°C Db	-50°C ≤ Ta ≤ +55°C or +65°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		
	cETLus 5002689 Hazardous Location America	Class I Zone 1 AEx db IIC T6...T5 Gb Zone 21 AEx tb IIIC T85°C...T100°C Db Class I Div 2 Group A,B,C & D T6...T5 Class II Div 2 Group F & G T85°C...T100°C		
	cETLus 5002689 Hazardous Location Canada	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db Class I Div 2 Group A,B,C & D T6...T5 Class II Div 2 Group F & G T85°C...T100°C		
	Ts mark	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		

Cameras with Armored Cable

Part Number	Certification	Marking	Ambient Temperature	Cable Entry Temperature
EXF2230-52-A4 EXF2230-52-A0	ITS 15 ATEX 18330X	Ex II 2 G Ex db IIC T5 Gb Ex II 2 D Ex tb IIIC T100°C Db IP66/IP68	-60°C ≤ Ta ≤ +65°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68		
	INMETRO UL BR 16.0004X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91.B.00274/22	1Ex db IIC T5 Gb X Ex tb IIIC T100°C Db X		
	UK Ex - ITS21UKEX0379X	Ex II 2 G Ex db IIC T5 Gb Ex II 2 D Ex tb IIIC T100°C Db IP66/IP68		
EXF2230-62-A4 EXF2230-62-A0	ATEX ITS15ATEX18330X	Ex II 2 G Ex db IIC T6 Gb Ex II 2 D Ex tb IIIC T85°C Db IP66/IP68	-60°C ≤ Ta ≤ +55°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	INMETRO UL BR 16.0004X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91.B.00274/22	1Ex db IIC T6 Gb X Ex tb IIIC T85°C Db X		
	UK Ex - ITS21UKEX0379X	Ex II 2 G Ex db IIC T6 Gb Ex II 2 D Ex tb IIIC T85°C Db IP66/IP68		

Cameras with Armored Cable and TS mark

Part Number	Certification	Marking	Ambient Temperature	Cable Entry Temperature
EXF22302A-A4 EXF22302A-A0	ITS 15 ATEX 18330X	 II 2 G Ex db IIC T6...T5 Gb  II 2D Ex tb IIIC T85°C...T100°C Db	-60°C ≤ Ta ≤ +55°C or +65°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		
	cETLus 5002689 Hazardous Location America	Class I Zone 1 AEx db IIC T6...T5 Gb Zone 21 AEx tb IIIC T85°C...T100°C Db Class I Div 2 Group A,B,C & D T6...T5 Class II Div 2 Group F & G T85°C...T100°C		
	cETLus 5002689 Hazardous Location Canada	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db Class I Div 2 Group A,B,C & D T6...T5 Class II Div 2 Group F & G T85°C...T100°C		
	Ts mark	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		

Analytics Specifications

Supported Analytics Events*

Objects in Area	The event is triggered when the selected object type moves into the region of interest. This event can be used to count objects.
Object Loitering	The event is triggered when the selected object type moves into the region of interest, then stays for an extended amount of time.
Objects Crossing Beam	The event is triggered when the specified number of objects have crossed the directional beam that is configured over the camera's field of view. The beam can be unidirectional or bidirectional.
Object Appears or Enters Area	The event is triggered by each object that enters the region of interest.
Object Not Present in Area	The event is triggered when no objects are present in the region of interest.
Objects Enter Area	The event is triggered when the specified number of objects have entered the region of interest.
Objects Leave Area	The event is triggered when the specified number of objects have left the region of interest.
Object Stops in Area	The event is triggered when an object moves into a region of interest and then stops moving for the specified threshold time.
Direction Violated	The event is triggered when an object moves in the prohibited direction of travel.
Sabotage Detection	The event is triggered when the scene unexpectedly changes.

*Pelco Smart Analytics powered by Motorola Solutions.

Pelco Elevate Supported Features

Image Health	Detects incremental changes in the cameras view, such as position shifts or obstructions. Notifies users through ONVIF conformant events and summarized email reports.
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Pelco Elevate Supported Features

Firmware Management	Schedule and deploy automatic firmware updates to multiple cameras, or update individual cameras on-demand.
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System Model Numbers

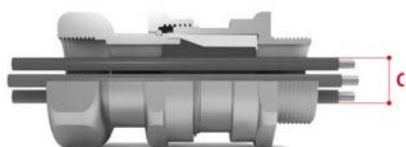
System Resolution	Model #	Description
2 MP 30X	EXF2230-52-A4	ExSite Enhanced Series 2, 2MP 30x Zoom, Stainless Steel Fixed Camera, 4m armored cable with gland, T5
2 MP 30X	EXF2230-62-A4	ExSite Enhanced Series 2, 2MP 30x Zoom, Stainless Steel Fixed Camera, 4m armored cable with gland, T6
2 MP 30X	EXF2230-52-A0	ExSite Enhanced Series 2, 2MP 30x Zoom, Stainless Steel Fixed Camera, 10m armored cable with gland, T5
2 MP 30X	EXF2230-62-A0	ExSite Enhanced Series 2, 2MP 30x Zoom, Stainless Steel Fixed Camera, 10m armored cable with gland, T6
2 MP 30X	EXF2230-52-C4	ExSite Enhanced Series 2, 2MP 30x Zoom, Stainless Steel Fixed Camera, 4m cable tail, T5
2 MP 30X	EXF2230-62-C4	ExSite Enhanced Series 2, 2MP 30x Zoom, Stainless Steel Fixed Camera, 4m cable tail, T6
2 MP 30X	EXF2230-52-C0	ExSite Enhanced Series 2, 2MP 30x Zoom, Stainless Steel Fixed Camera, 10m cable tail, T5
2 MP 30X	EXF2230-62-C0	ExSite Enhanced Series 2, 2MP 30x Zoom, Stainless Steel Fixed Camera, 10m cable tail, T6

Mounting Accessories

Part #	Description
NXWBS1	Wall bracket for use with EXF2230 cameras. AISI 316L stainless steel.
MHXWFWCA	Parapet mounting bracket for use with EXF2230 cameras. AISI 316L stainless steel.
NXFWBT	Vertical riser, 124 mm (4.9"), for use with EXF2230 cameras. AISI 316L stainless steel.
NXWTU	Wall adapter module, for use with NXWBS1. AISI 316L stainless steel.
NXCOL	Pole mount adapter for use with EXF2230 cameras or explosion proof washers. For pole diameters from 110 mm (4.3") to 150 mm (5.9"). Max load 50 kg (110 lb.). AISI 316L stainless steel.
NXCW	Corner mount adapter for use with EXF2230 cameras or explosion proof washers. Max load 50 kg (110 lb.). AISI 316L stainless steel.

Cable Glands and Accessories 3/4" NPT

Type	Certification	Operating Temp.	Cable	Part Number	Maximum diameter of the external sheath (A)	Maximum diameter of the internal sheath (B)	Maximum diameter of the conductors bundle (C)
Conduit Sealing Fitting	IECEX / ATEX / cCSAus / EAC Ex	-60°C (-76°F) / +80°C (+176°F)	-	OCTEXP3/4C	-	-	11.0 mm (0.43 in)



Conduit sealing fitting

Explosion-Proof Communication Box

A communication box includes a 3-port RJ45 and 1 SFP port Ethernet switch and 24 VAC output for powering up to one of the following:

- 2x EXC2602 fixed compact cameras
- 2x EXF2230 fixed cameras with 2x washer pump
- 1x EXP2230 PTZ camera with 1x washer pump

Part #	Description
MBX1MAA	AISI 316L stainless steel housing, 230 VAC input.
MBX2MAA	AISI 316L stainless steel housing, 24 VAC input.
MBX3MAA	AISI 316L stainless steel housing, 120 VAC input.
MBXMP	Adapter plate for communication box to MPXCOL or MPXCW mounts. AISI 316L stainless steel housing.
MBXWRE	Wrench for opening communication boxes, MBX.
MPXCOL	Pole mount adapter for use with ExSite cameras. For pole diameters from 110 mm (4.3") to 150 mm (5.9"). Max load 50 kg (110 lb.). AISI 316L stainless steel.
MPXCW	Corner mount adapter for use with ExSite cameras. Max load 50 kg (110 lb.). AISI 316L stainless steel.

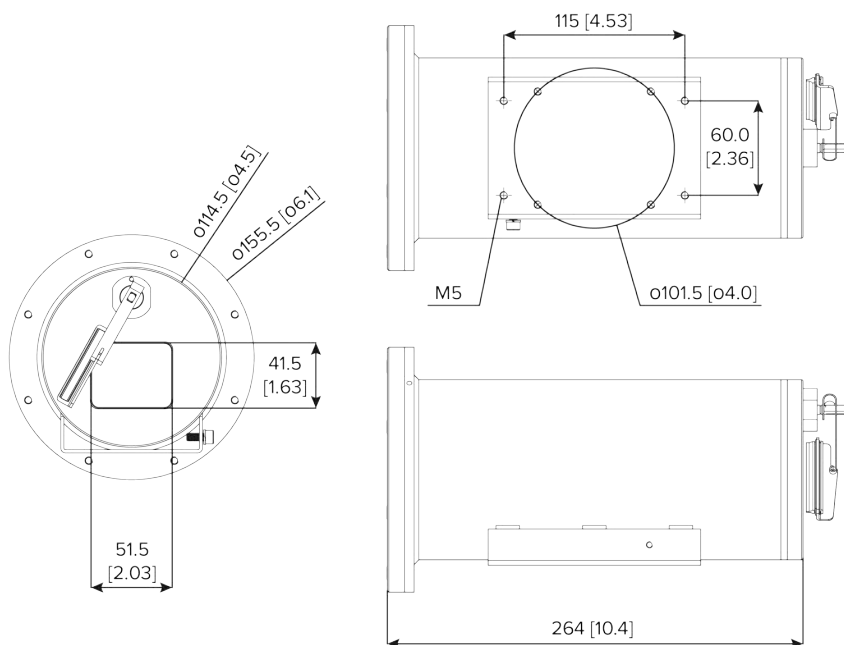
Explosion-Proof Washer

A 10L (2.6 gal) tank with integrated manual pump and delivery up to 20m (66 ft), 24 VAC/VDC input.

Part #	Description
WASEX2T4AT	ATEX certified solenoid valve.
WASEX2T4IC	IECEX certified solenoid valve.

Part #	Description
WASEX2T4IN	INMETRO certified solenoid valve.
WASEX2T4KC	KCS certified solenoid valve (only 24 VDC).
WASEX2T4GOR	EAC Ex certified solenoid valve.
WASEX2T4UL	cULus certified solenoid valve.
NXCOL	Pole mount adapter for use with EXF2230 cameras or explosion proof washers. For pole diameters from 110 mm (4.3") to 150 mm (5.9"). Max load 50 kg (110 lb.). AISI 316L stainless steel.
NXCW	Corner mount adapter for use with EXF2230 cameras or explosion proof washers. Max load 50 kg (110 lb.). AISI 316L stainless steel.

Dimensions



Values in parentheses are inches; all others are millimeters.

Ordering Information

PTZ CAMERAS

	MP	WDR	SureVision TECHNOLOGY	ANALYTICS	LENS	ZOOM	IP66/67/68/69	Pelco SMART Compression
EXF2230	2.0	✓	✓	✓	4.3 – 129 mm	30x	✓	✓

Support

Learn more and find additional documentation at pelco.com or email support@pelco.com for specific product support.