# ExSite® Enhanced Compact 2 Series

6 MP

## See in total darkness or blinding light within hazardous environments

The ExSite® Enhanced 2 explosion-proof camera system 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. This camera system offers form factors in PTZ, IR PTZ, bullet, and compact bullet and is built with corrosion-resistant stainless steel construction.

For sites requiring strict compliance measures, this camera system adheres to international standards (UL, CSA, ATEX, IECEx, UKCA. INMETRO and KCs). It provides operators crisp and clear evidence with up to 1.6X optical zoom with true WDR and low light capabilities for challenging lighting conditions common to hazardous areas.



## Features

### Pelco Smart Analytics Powered By Motorola Solutions

Enhanced detection, tracking 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 and KCs).

### High-Temperature Range

Optimized to operate reliably even at increased temperature variances: from 40°C (-40°F) up to +65°C (+149°F).

### Stainless Steel Construction

AISI 316L stainless steel construction for exceptional resistance to corrosion, which guarantees efficient video surveillance in both onshore and offshore marine environments.

### 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® Compliant

ONVIF Profile G, M, S and T compliance allows easy integration with existing ONVIF infrastructures.

### 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.

ONVIF is a trademark of Onvif, Inc.

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

PELCO

# Specifications

| Image Performance | | 6.0 MP |
|---|---|---|
| Image Sensor | | 1/1.8" progressive scan CMOS |
| Maximum Resolution (H x V) | | 3200 (H) × 1800 (V) |
| Aspect Ratio | | 16:9 |
| Min Illumination | | 0.055 lux (F/1.8) in color mode; 0.028 lux (F/1.8) in monochrome |
| Dynamic Range | WDR Off | 85 dB |
| | WDR On | Up to 120 dB |
| Image Rate | | Up to 30 fps |
| Aspect Ratio (Resolution Scaling) | | Down to (16:9) 384×216 or (5:4) 320×256 |
| 3D Noise Reduction Filter | | Yes |

| Lens | | 6.0 MP |
|---|---|---|
| Lens | | F1.8, 4.9-8 mm remote focus and zoom |
| Angle of View | Horizontal | (16:9) 52° - 92° |
| | Vertical | (16:9) 29° - 51° |
| Minimum focus distance | | 0.5m |

| 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 |
| Electronic Shutter Control | Automatic, Manual (1/7 to 1/8196 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 | Adjustable |
| Privacy Zones | Up to 64 zones |

| Network | |
|---|---|
| ONVIF | ONVIF compliance Profile S, Profile T, Profile G 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. |
| Protocols | IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, SRTP |
| Device Management Protocols | SNMP v2c, SNMP v3 |

## Mechanical

| | |
|---|---|
| Dimensions (LxWxH) | Camera and bracket: 254.4 mm x 177 mm x 177.5 mm; 10.0" x 6.97" x 6.99" |
| Weight | Camera and bracket: 6.5 kg; 14.3 lbs., with 4 m cable: 8.5 kg; 18.7 lbs., with 10 m cable: 11.5 kg; 25.3 lbs. |
| Construction | AISI 316L stainless steel |
| Finish | Electro-polished surface |
| Cable Entry | 1/2" NPT |
| Cable Gland | Ex db and tb 1/2" NPT (with preinstalled cable only) |
| Armored Cable Option | External diameter: 16.8 mm (0.66") ± 0.4 mm (0.016")<br>Diameter under armature: 12.4 mm (0.49") ± 0.3 mm (0.012")<br>Color: black RAL 9005<br>Composition: 3 × 1.5 mm$^2$ (15 AWG), 4 × 2 × 0.22 mm$^2$ (24 AWG) (cat. 5E F/STP) |

## Electrical

| | |
|---|---|
| Local Storage | MicroSD/microSDHC/microSDXC slot, up to 2 TB supported - video speed class card required. Class V10 or better recommended. |
| Ports | 100BASE-TX, RJ45 connector (CAT5E cabling) |
| Power Consumption | 20 W with 24 VDC (0.9 A), 21 W with 24 VAC (1.32A) or with IEEE 802.3 at |
| Input Voltage (Power) | VDC: 24 V ± 10%, VAC: 24 V ± 10%. PoE+: IEEE802.3 at compliant |

## Environmental

| | |
|---|---|
| Operating Temperature | -40 °C to +65 °C (-40 °F to 149 °F) |
| Storage Temperature | -40 °C to +55 °C (-40 °F to 131 °F) |
| Housing Climate Control | Built-in heater and fan |
| Humidity | 10% - 95% non-condensing |
| Cold Start | Up to 1 hour startup delay at temperature lower than -10 °C (14 °F) |

## Certifications

| | |
|---|---|
| Certifications/Directives | cULus, CE, UKCA, ROHS, RCM, BIS, KC |
| 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), without armored cable, UL listed for USA (UL 60079-0, UL 60079-1, UL 60079-31) without cable, UL listed for Canada (CAN/CSA-C22.2 NO. 60079-0, CAN/CSA-C22.2 NO. 60079-1, CAN/ CSA-C22.2 NO. 60079-31) without armored cable. |
| Environmental and Performance | EN/IEC 60529: IP66, IP67, IP68, IP69<br>EN 60068-2-52: salt spray<br>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 |
| Marine Certification | Lloyd's Register Marine Type Approval certification: EN60945 (with MAXIMUS MBX communication box or with FM1010 filter). Test Specification Number 1 (ENV1, ENV2, ENV3, ENV5)<br>Electromagnetic compatibility: EN60945<br>Salty fog resistance: EN60068-2-52 |
| Warranty | 3-year limited warranty. 5-year extended warranty is available. |

# Explosion-Proof Certifications

## Safety and Environmental Certifications

| Part Number | Certification | Marking | Ambient Temperature | Cable Entry Temperature |
|---|---|---|---|---|
| EXC2602-62 | DEMKO 17 ATEX 1823X | ⟨Ex⟩ II 2 G Ex db IIB T6...T5 Gb<br>⟨Ex⟩ II 2 D Ex tb IIIC T85°C...T100°C Db | -40°C ≤ Ta ≤ +65°C or +70°C | +83.2°C with Ta ≤ +65°C<br>+88.2°C with Ta ≤ +70°C |
| | IECEx ULD 17.0002X | Ex db IIB T6...T5 Gb<br>Ex tb IIIC T85°C...T100°C Db | | |
| | EAC Ex RU C-IT.H A91.B.00274/22 | 1Ex db IIB T6...T5 Gb X<br>Ex tb IIIC T85°C...T100°C Db X | | |
| | INMETRO UL-BR 20.0227X | Ex db IIB T6...T5 Gb<br>Ex tb IIIC T85°C...T100°C Db | | |
| | KCs 20-KA4BO-0312X, 20-KA4BO-0313X | Ex db IIB T6...T5 Gb<br>Ex tb IIIC T85°C...T100°C Db | | |
| | UKEx UL21UKEX2215X | ⟨Ex⟩ II 2 G Ex db IIB T6...T5 Gb<br>⟨Ex⟩ II 2 D Ex tb IIIC T85°C...T100°C Db | | |
| | cULUS File E319666 Hazardous Location | Class I, Zone 1, AEx db IIB T6...T5 Gb<br>Zone 21, AEx tb IIIC T85°C...T100°C Db<br>Class I, Div 2 Group C, D T6...T5<br>Class II, Div 2, Group F and G T6...T5 | | |
| | cULUS File E319666 Hazardous Location | Ex db IIB T6...T5 Gb X<br>Ex tb IIIC T85°C...T100°C Db X<br>Class I, Div 2 Group C, D T6...T5<br>Class II, Div 2, Group F and G T6...T5 | | |
| EXC2602-62-A4<br>EXF2602-62-A0 | DEMKO 17 ATEX 1823X | ⟨Ex⟩ II 2 G Ex db IIB T6...T5 Gb<br>⟨Ex⟩ II 2 D Ex tb IIIC T85°C...T100°C Db | -40°C ≤ Ta ≤ +65°C or +70°C | +83.2°C with Ta ≤ +65°C<br>+88.2°C with Ta ≤ +70°C |
| | IECEx ULD 17.0002X | Ex db IIB T6...T5 Gb<br>Ex tb IIIC T85°C...T100°C Db | | |
| | EAC Ex RU C-IT.H A91.B.00274/22 | 1Ex db IIB T6...T5 Gb X<br>Ex tb IIIC T85°C...T100°C Db X | | |
| | INMETRO UL-BR 20.0227X | Ex db IIB T6...T5 Gb<br>Ex tb IIIC T85°C...T100°C Db | | |
| | UKEx UL21UKEX2215X | ⟨Ex⟩ II 2 G Ex db IIB T6...T5 Gb<br>⟨Ex⟩ II 2 D 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. |

# System Model Numbers

| System Resolution | Model # | Description |
|---|---|---|
| 6 MP | EXC2602-62 | ExSite Enhanced 2, 6MP, 4.9-8 mm lens, no cable |
| 6 MP | EXC2602-62-A4 | ExSite Enhanced 2, 6MP, 4.9-8 mm lens, 4m armored cable |
| 6 MP | EXC2602-62-A0 | ExSite Enhanced 2, 6MP, 4.9-8 mm lens, 10m armored cable |

# Mounting Accessories

| Part # | Description |
|---|---|
| MMXCWCOL | Pole mount adapter for use with EXC2602-compact fixed cameras. For pole diameters from 60 mm (2.36") to 200 mm (7.9"). Max load 30 kg (66 lb.). AISI 316L stainless steel. |

# Cabling

| Item | Description |
|---|---|
| MMXCABLARM4 | Cabling, 4m (13.1 ft), armored cable, barrier cable gland |
| MMXCABLARM10 | Cabling, 10m (32.8 ft), armored cable, barrier cable gland |

# Cable Glands

| 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) |
|---|---|---|---|---|---|---|---|
| Barrier Cable Gland | IECEx / ATEX / EAC Ex | -60°C (-76°F) / +135°C (+275°F) | Unarmored | OCTEXB1/2P | 14.0 mm (0.55") | - | 12.5 mm (0.5") |
| | | | Armored | OCTEXBA1/2P | 15.5 - 21.1 mm (0.61"-0.83") | 14.0 mm (0.6") max | 12.5 mm (0.5") |
| Cable Glandwith Gasket | IECEx / ATEX / EAC Ex | -60°C (-76°F) / +100°C (+212°F) | Unarmoured | OCTEX1/2C | 3.2 mm - 8.0 mm (0.12" - 0.31") | - | - |
| | | | Armoured | OCTEAX1/2C | 12.5 mm - 20.5 mm (0.49" - 0.8") | 10 mm - 14.3 mm (0.4" - 0.56") | - |
| Plug EX 1/2" NPT | IECEx / ATEX / EAC Ex | -100°C (-148°F) / +400°C (+752°F) | - | OEXPLUG1/2P | - | - | - |
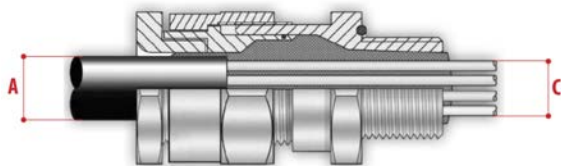


Barrier cable gland with unarmored cable
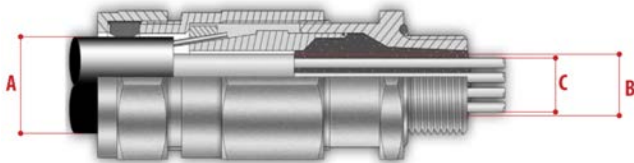


Barrier cable gland with armored cable



Cable gland with gasket with unarmored cable



Cable gland with gasket with armored cable

# 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<br>MBX2MAA<br>MBX3MAA | AISI 316L stainless steel housing, 230 VAC input.<br>AISI 316L stainless steel housing, 24 VAC input.<br>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 MBXMP or EXP2230 PTZ cameras. For pole diameters from 110 mm (4.3") to 150 mm (5.9").<br>Max load 50 kg (110 lb).<br>AISI 316L stainless steel. |
| MPXCW | Corner mount adapter for use with MBXMP or EXP2230 PTZ camera. Max load 50 kg (110 lb.).<br>AISI 316L stainless steel. |

# Dimensions

## Wall Mounting
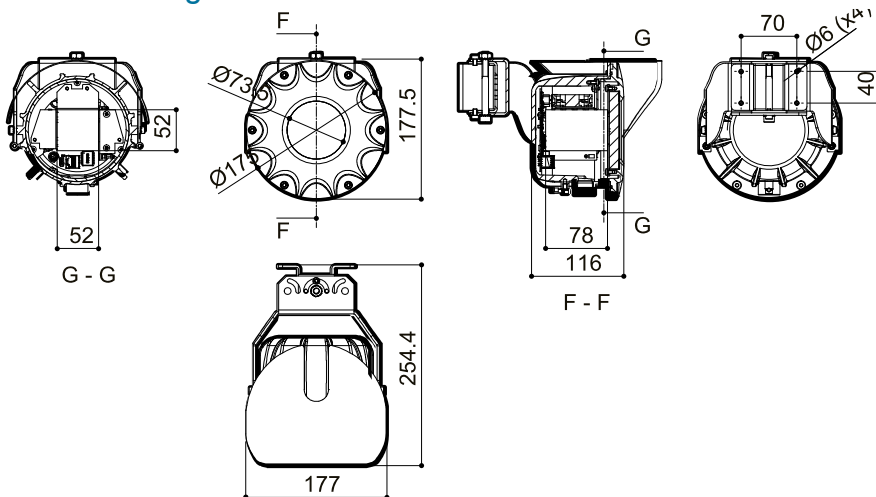
## Parapet or Ceiling Mounting
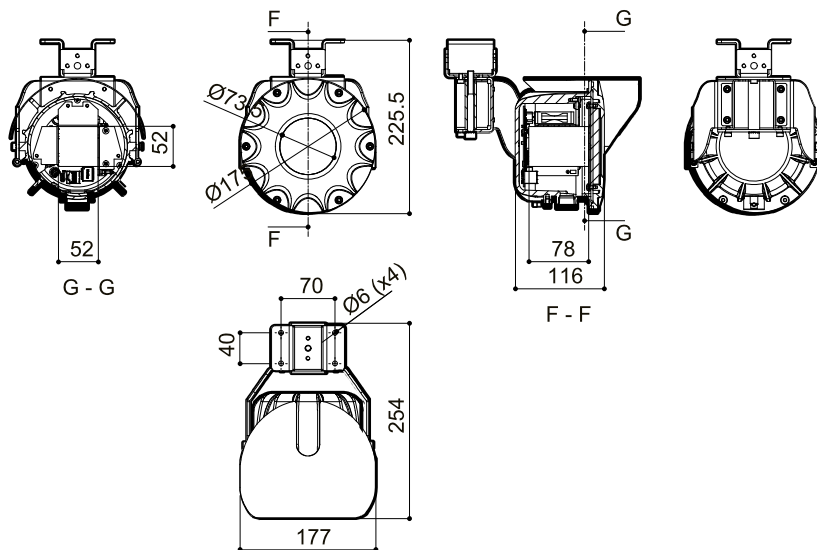


Values in parentheses are inches; all others are millimeters.

# Support

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