ExSite Enhanced Thermal 2 Series Fixed



QVGA

Uncover hidden threats in any conditions

Hazardous facilities need reliable video security solutions that meet their unique constraints, comply with strict requirements, and survive harsh environmental conditions.

The ExSite Enhanced Thermal 2 Series Fixed is encased in heavy-duty stainless steel, offering hazardous sites a durable security camera with global explosion-proof certifications. Ideal for monitoring targeted areas such as access points and fences, this camera offers precise thermal views to accurately detect a target in most environmental conditions, including fog, darkness and foliage.



Features



Thermal Detection

Detect and identify people from a long distance via their heat signature, even in low visibility, such as total darkness, fog, smoke or dense foliage.



Radiometrics

Receive real-time temperature data with radiometric capabilities* and reduce potential hazards by detecting overheating equipment early on.



Explosion-Proof

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



Ready For Harsh Conditions

Safe within a wide temperature range, from -60°C to +65°C (-76°F to 149°F), plus Type 4X/6P and IP66/67/68/69 weather rating for maximum durability in tough environments.



Trusted And Secure

Meet high data security standards with built-in cybersecurity features that safeguard your security system.



Expect More From Your Camera

Unlock your camera's full potential by enabling Elevate, Pelco's built-in direct camera-to-cloud technology that enhances performance and detection accuracy.



Smart Analytics

Stay a step ahead of critical events with built-in analytics providing enhanced object detection and classification.



ONVIF® Conformant

ONVIF Profile S, G, T and M conformance for easy integration with leading video management software to maximize your existing investment.

ONVIF is a trademark of Onvif, Inc.







Specifications

| Image Performance | QVGA | VGA | | | | | |
|---------------------------------|--|--|--|--|--|--|--|
| Image Sensor | 320 x 256 Uncooled VOx Microbolometer | 640 x 512 Uncooled VOx Microbolometer | | | | | |
| Pixel Pitch | 12µm | | | | | | |
| Spectral Range | 8µm to 14µm | | | | | | |
| Aspect Ratio | 5:4 | | | | | | |
| Imaging Rate | Up to 30 fps (-1 models up to 8.6 fps) | | | | | | |
| Dynamic Range | -40°C to 225°C (-40°F to 437°F) [may vary based or | n operating temperature] | | | | | |
| Resolution Scaling | 320 x 256, can be scaled up to 640 x 512 | 640 x 512, can be scaled down to 320 x 256 | | | | | |
| 3D Noise Reduction Filter | Yes | | | | | | |
| Sensitivity | NETD ≤50 mK (NETD ≤40 mK on 30 fps models wh | nen Frame Averager feature is enabled) | | | | | |
| Thermal Palettes | White Hot, Black Hot, Rainbow, RainHC, IronBow, L | ava, Artic, GlowBow, GradedFire, Hottest | | | | | |
| Image Uniformity Optimization | Automatic Flat Field Correction (FFC) - Thermal an | d Temporal | | | | | |
| | | | | | | | |
| Image Control | 11 264 11 265 Mation IDEC Pales Smort Compress | oion. | | | | | |
| Image Compression Method | H.264, H.265, Motion JPEG, Pelco Smart Compres | | | | | | |
| Streaming Rendwidth Management | Multi-stream H.264, Multi-stream H.265, Motion JF | | | | | | |
| Bandwidth Management | Pelco Smart Compression technology; Idle scene r | node | | | | | |
| Motion Detection | Pixel and Classified Objects | | | | | | |
| Tamper Detection | Yes United (4.7 area | | | | | | |
| Privacy Zones | Up to 64 Zones | | | | | | |
| Audio Compression Method | Opus, G.711 PCM 8 kHz | | | | | | |
| Electronic Image Stabilization | Yes | | | | | | |
| Network | | | | | | | |
| Network | 100BASE-TX | | | | | | |
| Cabling Type | CAT5 | | | | | | |
| Connector | RJ-45 | | | | | | |
| ONVIF | ONVIF® compliant with Profile S, Profile T, Profile | G, and Profile M | | | | | |
| Security | Password protection, HTTPS encryption, digest au port based authentication, FIPS 140-2 L1 (with opt Secure Boot, Signed and encrypted firmware | thentication, WS authentication, user access log, 802.1x ional camera license), onboard FIPS 140-2 L3 certified TPM, | | | | | |
| Protocols | IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, I DSCP | RTCP, RTP, TCP, UDP, IGMPv3, ICMP, DHCP, Zeroconf, QoS, | | | | | |
| Streaming Protocols | RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RT | P/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP, SRTP | | | | | |
| Device Management Protocols | SNMP v2c, SNMP v3 | | | | | | |
| Mechanical | | | | | | | |
| Dimensions (ØxL) | Ø155.5 mm x 269.0 mm; Ø6.12" x 10.4" (dimension | ns without sunshield) | | | | | |
| Weight | 6,6 Kg (14,5 lbs) | | | | | | |
| Construction | AISI 316L stainless steel | | | | | | |
| Finish | Electro-polished surface | | | | | | |
| Cable Entry | One 3/4" NPT | | | | | | |
| Flootvice | | | | | | | |
| Electrical | 1014 | | | | | | |
| Power Consumption | 10W | | | | | | |

| Electrical | |
|------------------------|---|
| Power Source | VDC: 12V +/- 10%, 9W min. VAC: 24V +/- 10%, 15VA min. PoE: IEEE802.3af Class 3 compliant |
| Audio | Input/Output Line level I/O |
| External I/O Terminals | Alarm In, Alarm Out |
| Local Storage | SD card support (Class V10 or better recommended) |

| Environmental | |
|-----------------------|-------------------------------------|
| Operating Temperature | -50 °C to +65 °C (-58 °F to 149 °F) |
| Storage Temperature | -40 °C to +55 °C (-40 °F to 131 °F) |
| Humidity | 10% - 95% non-condensing |

| Certifications | |
|---|---|
| Certifications/Directives | cULus, CE, UKCA, ROHS, pending RCM, KC, BIS |
| Safety | UL/CSA 62368-1, EN/IEC 62368-1 |
| Hazardous | ATEX (EN IEC 60079-0, EN 60079-1, EN 60079-31) IECEx (IEC 60079-0, IEC 60079-1, IEC 60079-31) UKEx (EN IEC 60079-0, EN60079-1, EN 60079-31), ETL listed for USA (UL60079-0, UL60079-1, UL60079-31) ETL listed for Canada (CAN/CSA-C22.2 NO. 60079-0, CAN/CSA-C22.2NO.60079-1, CAN/CSA-C22.2NO.60079-31) |
| Environmental and Performance | EN/IEC 60529: IP66, IP67, IP68, IP69 IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-30, IEC 60068-2-52 UL50E: 4X, 6P MIL-STD-167-1A, MIL-STD 810H for N/A |
| 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 |
| Lloyd's Register Marine Type Approval certification | Test Specification Number 1 (ENV1, ENV2, ENV3, ENV5) Electromagnetic compatibility: EN60945 Environmental: IEC 60068-2-78 |
| 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 |
|--|-------------------------|---|--------------------------------|----------------------------|
| EXRE2-VF09-E0A00-1 EXTE2-VF36-E0A00-1 | ATEX | Ex II 2 G Ex db IIC T6T5 Gb Ex II 2D Ex tb IIIC T85°CT100°C Db | -60°C ≤ Ta ≤ +55°C or +65°C | +80°C |
| EXTE2-QF06-E0A00-1 EXTE2-QF18-E0A00-1 EXRE2-VF09-E0A00 | IECEx | Ex db IIC T6T5 Gb Ex tb IIIC T85°CT100°C Db | | |
| EXTE2-VF36-E0A00 EXTE2-QF06-E0A00 EXTE2-QF18-E0A00 | UKEX | Ex II 2 G Ex db IIC T6T5 Gb Ex II 2D Ex tb IIIC T85°CT100°C Db | | |
| | ETLlisted for USA | Class I Zone 1 AEx db IIC T6T5 Gb Zone 21 AEx tb IIIC T85°CT100°C Db Class I Div 2 Group A,B,C,D T6T5 Class II Div 2, Group F,G T6T5 | | |
| | ETLlisted for Canada | Ex db IIC T6T5 Gb Ex tb IIIC T85°CT100°C Db Class I Div 2 Group A,B,C,D T6T5 Class II Div 2, Group F,G T6T5 | | |
| | Ts mark | Ex db IIC T6T5 Gb Ex tb IIIC T85°CT100°C Db | | |

Analytics Specifications

| Supported Video Analytic 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 and 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. |
| Tamper Detection | The event is triggered when the scene unexpectedly changes. |

System Model Numbers

| | Resolution | NETD | Lens | HFOV | FPS | Pelco Smart Compression | Radiometric |
|--------------------|------------|---------|---------|------|-----|----------------------------|-------------|
| EXRE2-VF09-E0A00-1 | 640 x 512 | < 50 mK | 9.2 mm | 50° | 8.6 | ✓ | ✓ |
| EXTE2-VF36-E0A00-1 | 640 x 512 | < 50 mK | 36.0 mm | 12° | 8.6 | ✓ | |
| EXTE2-QF06-E0A00-1 | 320 x 256 | < 50 mK | 6.3 mm | 34° | 8.6 | ✓ | |
| EXTE2-QF18-E0A00-1 | 320 x 256 | < 50 mK | 18.0 mm | 12° | 8.6 | ✓ | |
| EXRE2-VF09-E0A00 | 640 x 512 | < 50 mK | 9.2 mm | 50° | 30 | ✓ | ✓ |
| EXTE2-VF36-E0A00 | 640 x 512 | < 50 mK | 36.0 mm | 12° | 30 | ✓ | |
| EXTE2-QF06-E0A00 | 320 x 256 | < 50 mK | 6.3 mm | 34° | 30 | ✓ | |
| EXTE2-QF18-E0A00 | 320 x 256 | < 50 mK | 18.0 mm | 12° | 30 | ✓ | |

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. |

Cabling

| Item | Description |
|-----------|--|
| 850-1639A | Cabling, 10m (32.8 ft), armored cable, barrier cable gland |
| 850-1638A | Cabling, 4m (13.1 ft), armored cable, barrier cable gland |

Cable Glands and Accessories 3/4" NPT

| Туре | 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 | Unarmored | OCTEXB3/4P | 20.0 mm (0.78 in) | - | 17.8 mm (0.7in) |
| | | (+275°F) | Armored | OCTEXBA3/4P | 16.8 - 23.9 mm (0.66- 0.94 in) | 20 mm (0.79 in) max | 17.8 mm (0.7 in) |
| Cable Gland with Gasket | IECEx / ATEX / EAC Ex | -60°C (-76°F) / +100°C (+212°F) | Unarmoured | OCTEX3/4C | 13.0 - 20.2 mm (0.51-0.79 in) | - | - |
| | | -60°C (-76°F) / +80°C (+176°F) | Armored | OCTEXA3/4C | 16.9 - 26.0 mm (0.66- 1.02 in) | 11.1 - 19.7 mm (0.44 - 0.78 in) | - |
| Plug EX 3/4"NPT | IECEx / ATEX / EAC Ex | -100°C (-148°F) / +400°C (+752°F) | - | OEXPLUG3/4P | - | - | - |
| Conduit Sealing Fitting | IECEx / ATEX / cCSAus / EAC Ex | -60°C (-76°F) / +80°C (+176°F) | - | OCTEXP3/4C | - | - | 11.0 mm (0.43 in) |
| Reduction 3/4" NPT x 1/2" NPT | IECEx / ATEX / EAC Ex | -100°C (-148°F) / +400°C (+752°F) | - | OCTEX1/2-3/4P | - | - | - |

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:

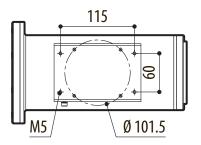
- 2x EXC2602 fixed compact cameras
- 2x EXF2230 fixed cameras with 2x washer pump
- 1x EXP2230 PTZ camera with 1x washer pump

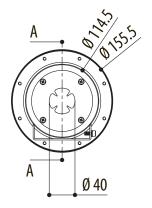
| Part # | Description |
|-------------------------------|--|
| MBX1MAA MBX2MAA MBX3MAA | AISI 316L stainless steel housing, 230 VAC input. AISI 316L stainless steel housing, 24 VAC input. AISI 316L stainless steel housing, 120 VAC input. |
| MBXMP | Adapter plate for communication box to MPXCOL or MPXCW 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. |

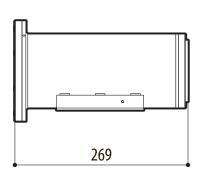
Outline Dimensions

Camera

| [X.X] | INCHES |
|-------|--------|
| Х | MM |







Support

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





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