Larson Electronics LLC
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ATEX-EXPCMR-IP-POE-4MP-IR

Explosion Proof Network IP Camera - 8.0MP Resolution, Built-in Infrared - 15FPS - IP66 Rated - N4X - ATEX / IECEX Rated

Product ID: 277939

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: ATEX-EXPCMR-IP-POE-4MP-IR

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

ATEX-EXPCMR-IP-POE-4MP-IR Network Explosion Proof Camera

Dimensions: 8.18" x 7.65" x 5.20"
Camera Weight: 8 lb, 7 lb w/o Bracket
Total Watts: 5W (Max)
Power Source: PoE (802.3af)
Image Sensor: 1/2.7" Progressive Scan CMOS sensor
Signal System:NTSC
Video Resolution: 8MP (3840*2160)
Frame Rate: 15fps (3840*2160)
Compression Type: H.265, H.264, MJPEG
Bit Rate: 128Kbps - 16Mbps
Focal Length: 2.8mm @F1.6, Fixed-focal
Max Field of View: 83°
Shutter Speed: Auto/Manual, 1 ~ 1/100000s
Min. Illumination: 0.01 lux (Color), F1.6, AGC ON
Infrared Light: Built-in
Day/Night: IR-cut filter with auto switch (ICR)
Digital Noise Reduction: 2D/3D DNR
Ethernet Interface: RJ45
Ethernet Speed: 10/100
Protocols: IPV4, IPV6, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP,

Ratings / Features

Listed for Europe & International
Approved for Zone 1 & Zone 2
Approved for Zone 21 & Zone 22
ATEX EX II 2 G
ATEX EX II 2 D
IECEx Ex db IIC Gb IP66
IECEx Ex tb IIIC Db IP66
NEMA 3R, 4
NRTL Listed to EN 60079
NRTL Listed to IEC 60079
Capable of programming unique settings per stream
ONVIF (Profile S, Profile G, Profile T), API , SDK
True WDR (Wide Dynamic Range) 120dB
Main stream and two sub streams
IP66 Rated
NDAA Compliant

DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP,SSL, TLS, SSH

Remote Configuration: Yes

Ambient Temperature Range: -22°F to +140°F

Housing Materials: Copper-free Aluminum Alloy

Lens Material: 3/8" Thick Tempered Glass

Mounting: Adjustable rear-mounted handle/bracket

Wiring Hub: (2) 3/4" NPT

Shipping Weight: 13 lb

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

The ATEX-EXPCMR-IP-POE-4MP-IR Network Explosion Proof Camera from Larson Electronics is an ATEX / IECEX rated remote inspection camera specifically designed for observation in hazardous locations. This explosion proof, flameproof, dust/ignition proof, weather proof and tamper resistant camera provides the operator with a live feed from inside tanks, reactors, vessels or other hazardous locations. Equipped with built-in infrared, this remote inspection camera saves both time and money as well as contributing to workplace safety.

Camera Features: The ATEX-EXPCMR-IP-POE-4MP-IR Network Flameproof Camera features a built-in 1/2.7" progressive-scan CMOS image sensor that delivers up to 8.0MP resolution. The wide angle fixed lens with 83° field of view is designed to cover large areas and work spaces. This explosion proof camera provides a crisp and clear image. Total distance is dependent on mounting height and angle.

The explosion proof unit comes with built-in infrared lights. For additional infrared illumination, an external infrared light can be used with the explosion proof device (not included). For 12-24V DC applications, we recommend the Larson Electronics 12-watt explosion surface-mount infrared LED light (EXHL-TRN-LE3-IR-1224). As an alternative, we also offer the EXHL-TRN-LE3-IR-1227 for 120-240V AC applications

This ATEX / IECEX remote inspection camera utilizes 120dB true Wide Dynamic Range, 2D/3D Digital Noise Reduction and a true day/night IR-Cut Filter Removal to produce clear images in variable and low light conditions. The camera automatically switches from full color to IR mode when visible light falls below a certain level.

Wiring: Link-up with the camera is achieved via a customer provided RJ45 Ethernet cable which is ran back to the customer provided DVR system mounted outside the hazardous location. Camera power is delivered via the same Ethernet cable using Power over Ethernet (PoE) technology. This not only increases flexibility in deployment, but also provides time and cost savings as well.

Our flameproof cameras with Power over Ethernet (PoE) features enable data transfers and power to be passed through a single Ethernet cable that is usually a Cat 3/Cat 5 cable or better. There are several types of PoE, which come with their own respective standard and maximum power to port capabilities. The IEEE 802.3af PoE standard, with a voltage range of 44.0 - 57.0V, offers 15.4W of DC power for each port. The IEEE 802.3at PoE standard, with a voltage range of 50.0 – 57.0V, provides up to 30W of DC power per port, which is ideal for surveillance cameras, antennas and network access points. The IEEE 802.3bt PoE standard, with a voltage range of 50.0 – 57.0V, provides 60W of DC power for each port. In order to utilize PoE properly, the components, such as the receiving unit and sending device, must be PoE compliant.

Recording: To record the stream from this camera, a NVR (network video recorder) is required. Larson Electronics provides a line of explosion proof, hazardous location, and non-classified NVR`s to work in conjunction with this explosion proof camera. This camera is live-view capable without any NVR system via remote access to the camera. Three streams are available, one main stream for recording and two sub streams for live viewing or additional resources. Each steam can be configured to different resolutions and frame rates.

Mounting: The ATEX-EXPCMR-IP-POE-4MP-IR Network Explosion Proof Camera features an ATEX/IECEx certified copper-free aluminum alloy body and weighs a total of 6 pounds. The camera includes an adjustable rear-mounted polished stainless steel mounting bracket/handle. Additional accessory pole mounts and magnetic mounts are available separately.

Applications: Vessel, tank and reactor monitoring, remote observation of external facilities, monitoring of cleaning, spray patterns, mixing, foaming, reaction, and level.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

There are no Faqs

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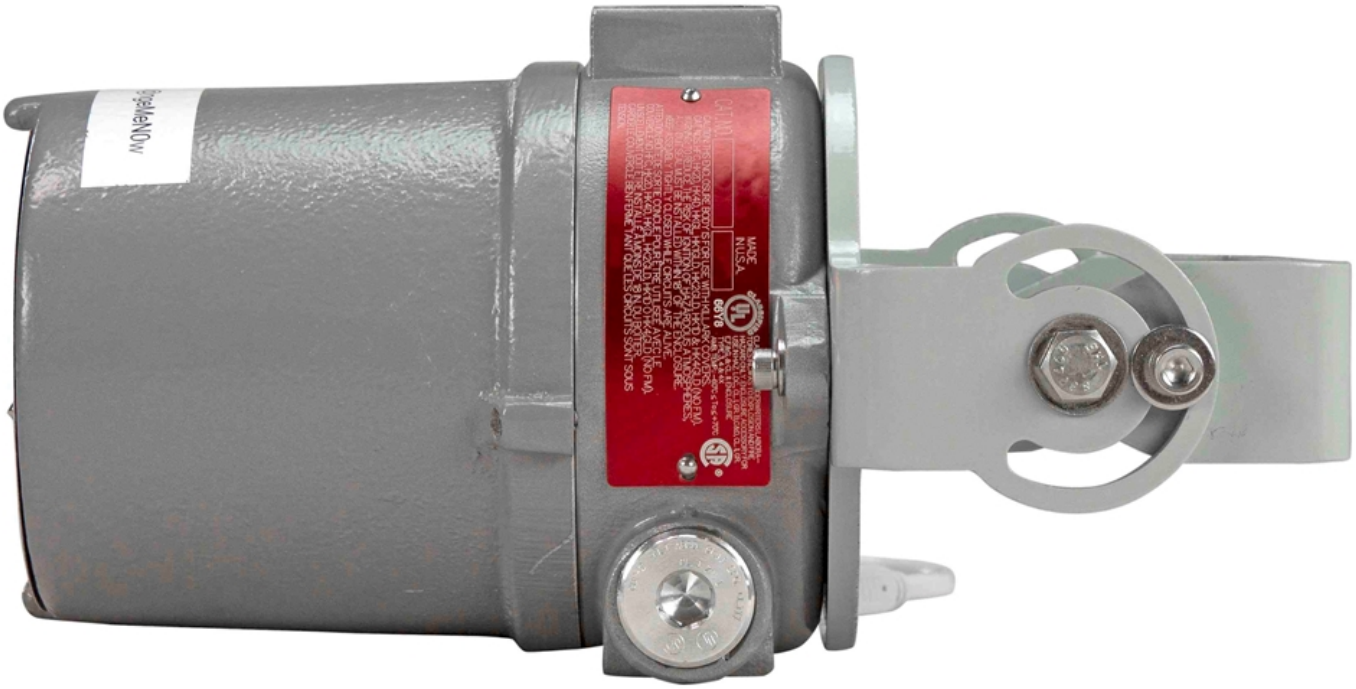


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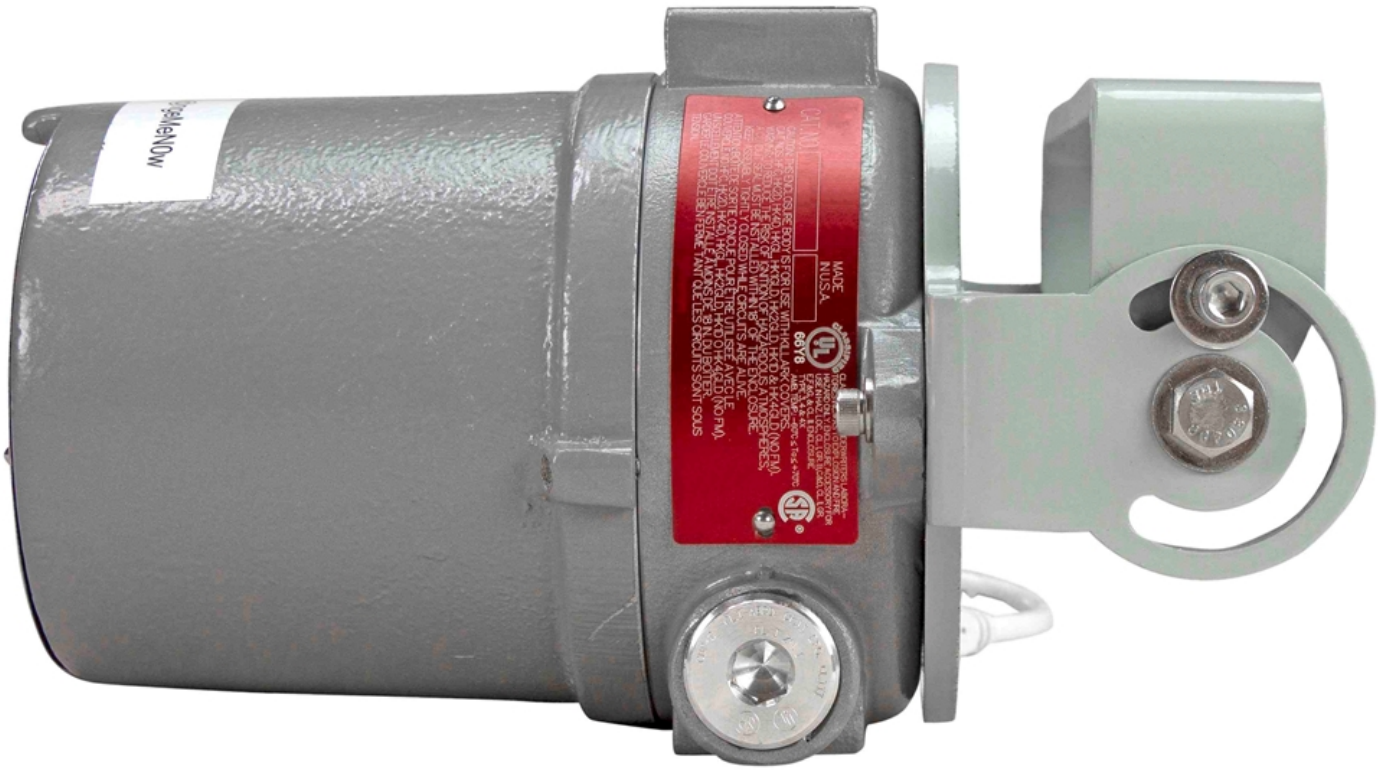


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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **ATEX Certificate (European Explosion Proof)**(https://www.larsonelectronics.com/images/product/ATEXCert/277939.PDF)
- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(https://www.larsonelectronics.com/images/product/CECCert/277939.PDF)
- **CE Certificate**(https://www.larsonelectronics.com/images/product/CECert/277939.PDF)
- **Certificate 1, Misc**(https://www.larsonelectronics.com/images/product/Cert1/277939.PDF)
- **Certificate 2, Misc**(https://www.larsonelectronics.com/images/product/Cert2/277939.PDF)
- **Certificate 3, Misc**(https://www.larsonelectronics.com/images/product/Cert3/277939.PDF)
- **Certificate 4, Misc**(https://www.larsonelectronics.com/images/product/Cert4/277939.PDF)
- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/277939.PDF)
- **Eye Safety Information/Certificate**(https://www.larsonelectronics.com/images/product/EyeSafety/277939.PDF)
- **IEC Ex Certificate (International Explosion Proof)**(https://www.larsonelectronics.com/images/product/IECExCert/277939.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/277939.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/277939.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com/images/product/RoHSCert/277939.PDF)
- **STEP File (3D CAD Model)**(https://www.larsonelectronics.com/images/product/Step/277939.ZIP)
- **Wiring Diagram**(https://www.larsonelectronics.com/images/product/WiringDiagram/277939.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/277939.JPG)
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- **HigResPic6**(https://www.larsonelectronics.com/images/product/HigResPic6/277939.JPG)
- **HigResPic7**(https://www.larsonelectronics.com/images/product/HigResPic7/277939.JPG)
- **HigResPic8**(https://www.larsonelectronics.com/images/product/HigResPic8/277939.JPG)
- **Video1**(https://www.youtube.com/watch?v=2QaSLQMAZZI)
- **Video2**(http://www.youtube.com/watch?v=26muUO8R9kM)
- **Video3**(http://www.youtube.com/watch?v=KGY1K4etVRE)
- **Video4**(http://www.youtube.com/watch?v=nXdA2DRXFGU)
- **Video5**(https://www.youtube.com/watch?v=UjT-1cLKD6o)
- **Video6**(https://www.youtube.com/watch?v=yjtlzJRMUQU)
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