

Explosion Proof Network IP Camera - 4.0MP Resolution - 20FPS - Built-in Infrared - IP66 Rated - N4X - Air Nozzle

EXPCMR-IP-POEP-4MP-IR-1XLE3-APV

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



EXPCMR-IP-POEP-4MP-IR-1XLE3-APV Network Explosion Proof Camera

Listing: United States and Canada

Dimensions: -

Camera Weight: -

Total Watts: 17W (Max)

Power Source: PoE+ (IEEE 802.3at Type 2), 4PPoE (IEEE 802.3bt Type 3) and IEEE 802.3bt Type 4

Image Sensor: 1/3" Progressive Scan CMOS sensor

Signal System: NTSC

Video Resolution: 4.0MP (2688*1520)

Frame Rate: Up to 20fps @ 2688*1520 resolution

Compression Type: H.264, H.264 OVC, MJPEG

Bit Rate: 32Kbps - 16Mbps

Focal Length: 4mm

Max Field of View: 83°

Air Hose Coupler Size: 1/2"

Maximum Air Pressure: 20 PSI

Shutter Speed: 1/3s to 1/10,000s

Min. Illumination: 0.01 lux (Color) / 0 lux (w/ Built-in IR)

Infrared Wavelength Options: 750 nm, 850 nm or 940 nm

Infrared Beam Pattern: Flood or Spot

IR Spot Beam: 120'L x 60'W

IR Flood Beam: 80'L x 80'W

Day/Night: True D/N w/Mechanical Cut Filter

Digital Noise Reduction: 3D DNR

Ethernet Interface: RJ45

Ethernet Speed: 10/100

Protocols: TCP/IP, HTTP, HTTPS, DHCP, UDP, RTP, RTSP and more

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

Quick Summary

NRTL Listed for United States & Canada

Class I, Divisions 1 & 2, Groups B, C, D

Class I, Zones 1 & 2, Groups IIB+H2, IIA

Class II, Divisions 1 & 2, Groups E, F, G

Class III, Divisions 1 & 2

NEMA 3R, 4, 7 (B, C, D), 9 (E, F, G)

NRTL Listed to UL 508A

NRTL Listed to UL 1203

NRTL Listed to CSA C22.2 No 14, 25, 30

Main stream and two sub streams

Capable of programming unique settings per stream

ONVIF Profile S Certified

WDR (Wide Dynamic Range) for Auto Adjusting

High Powered POE Device

WDR (Wide Dynamic Range) for Auto Adjusting

Air Nozzle w/ Female Connector

Special Orders - Requirements

Contact us for special requirements

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Fax: 1-903-498-3364

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The EXPCMR-IP-POEP-4MP-IR-1XLE3-APV Network Explosion Proof Camera w/ Built-in Infrared Light from Larson Electronics is a remote inspection camera specifically designed for observation in hazardous locations. This explosion proof, 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. Operated remotely from a centralized control room, this remote inspection camera saves both time and money as well as contributing to workplace safety. The unit features a pressurized air nozzle with a female stainless steel connector, located at front of the camera lens for proactive clarity.

Camera Features: The EXPCMR-IP-POEP-4MP-IR-1XLE3-APV Network Explosion Proof Camera features a built-in 1/3" progressive-scan CMOS image sensor that delivers up to 4.0MP resolution at 20 fps. 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 for everything within the 83° focal area. Total distance is dependent on mounting height and angle.

The 17-watt unit comes with built-in infrared lights to support image capturing in low-light conditions and after sunset. This component is available in two lighting configurations: spot and flood. Four Edison Edixeon® three watt LEDs producing 180 lumens each are arranged in rows and paired with high purity 10 degree optics to produce a tightly focused spot beam with limited spread or light spillage. The spot configuration features a 10° beam that measures 120`L x 60`W. The flood configuration throws a 35° beam that measures 80`L x 80`W. The infrared light is powered with the camera, over POE.

PoE+: The explosion proof camera is compatible with PoE+ devices (IEEE 802.3at Type 2), 4PPoE devices (IEEE 802.3bt Type 3) and IEEE 802.3bt Type 4 devices. As a high-powered PoE device, the system draws a maximum of 17 watts. This unit is not compatible with IEEE 802.3af Type 1 PoE devices, as it exceeds the power limitations of the standard @ 15.4 watts maximum.

This remote inspection camera utilizes 120dB true Wide Dynamic Range, 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.

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 stream can be configured to different resolutions and frame rates.

Pressurized Air Nozzle: Designed for grain processing facilities and wet environments, this unit is equipped with a pressurized air nozzle at the front of the camera lens. The component features a 1/2" female stainless steel quick disconnect connector for hose attachments. With continuous airflow hitting the lens of the device, accumulation of particles is greatly decreased. This feature is suitable for hazardous locations that handle flying dust and other types of debris that can obstruct cameras, as well as for monitoring operations in wet locations.

Mounting: The EXPCMR-IP-POEP-4MP-IR-1XLE3-APV Network Explosion Proof Camera features an ATEX/IECEX certified copper-free aluminum alloy body for durability. The camera and infrared light 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.



Frequently Asked Questions (FAQ)

Options:

EXPCMR-IP-POEP-4MP-IR-1XLE3-APV-Beam Config-Wavelength

Example: EXPCMR-IP-POEP-4MP-IR-1XLE3-APV-FLD-750NM

Beam Config	
FLOOD	-FLD
SPOT	-SPT

Wavelength	
750 NM	-750NM
850 NM	-850NM
940 NM	-940NM

Links (Click on the below items to view):

- [HigResPic1](#)
- [Video1](#)
- [Video2](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)