

## Explosion Proof Network IP Camera w/ Built-in Infrared - 4.0MP, 20FPS - PoE + 120-240V AC - TCP/IP

**EXPCMR-IP-POE-4MP-IR-ANC-1XLE3-1227**

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



### EXPCMR-IP-POE-4MP-IR-ANC-1XLE3-1227 Network Explosion Proof Camera

**Listing:** United States and Canada

**Dimensions:** -

**Weight:** -

**Camera Watts:** 5W (Max)

**Infrared Light Watts:** 12W

**Camera Power Source:** PoE (802.3af)

**Infrared Light Voltage:** 120-240V AC

**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°

**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

**Infrared Light Control:** Modbus TCP/IP Network Programmable (On/Off, Scheduling and Network Functions)

**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

### Ratings / Features

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

TCP/IP Infrared Light Control

### Special Orders/Requirements

Contact us for special requirements

**Toll Free:** 1-800-369-6671

**Intl:** 1-214-616-6180

**Fax:** 1-903-498-3364

**E-mail:** [sales@larsonelectronics.com](mailto:sales@larsonelectronics.com)

**The EXPCMR-IP-POE-4MP-IR-ANC-1XLE3-1227 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.**

**Camera Features:** The EXPCMR-IP-POE-4MP-IR-ANC-1XLE3-1227 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 monitoring device 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 explosion proof infrared light is powered using a customer-provided 120-240V AC power source, while the explosion proof camera is powered by PoE.

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.

**Modbus TCP/IP (Infrared Light):** On/off, scheduling and network features for the explosion proof infrared light are facilitated via Modbus TCP/IP protocol. This remote setup enables operators to apply custom schedules and configurations for the infrared light, such as operation during after hours, integration with a day/night photocell and more.

**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 explosion proof 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 EXPCMR-IP-POE-4MP-IR-ANC-1XLE3-1227 Network Explosion Proof Camera features an ATEX/IECEX certified copper-free aluminum alloy body and weighs a total of 12 pounds. 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.



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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](mailto: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)

**Options:**

**EXPCMR-IP-POE-4MP-IR-ANC-1XLE3-1227-Beam Config-Wavelength**

**Example: EXPCMR-IP-POE-4MP-IR-ANC-1XLE3-1227-FL-750NM**

Beam Config	
FLOOD	-FL
SPOT	-SP

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

Links (Click on the below items to view):

- [ATEX Certificate \(European Explosion Proof\)](#)
- [Canadian CEC Certificate \(Commonly referred to as CSA Certificate\)](#)
- [CE Certificate](#)
- [Certificate 1, Misc](#)
- [Certificate 2, Misc](#)
- [Certificate 3, Misc](#)
- [Certificate 4, Misc](#)
- [Eye Safety Information/Certificate](#)
- [IEC Ex Certificate \(International Explosion Proof\)](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [HigResPic1](#)
- [Video1](#)
- [Video2](#)
- [Video3](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)