

EXPCMR-IP-POE-4MP-IR-SGM-FB-2DA

Explosion Proof Network IP Camera - 8MP, 15FPS - Low Light IR Array - Single Sided Bracket, 2-150 Sight Glass

Product ID: 273010

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



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.

EXPCMR-IP-POE-4MP-IR-SGM-FB-2DA Network Explosion Proof Camera

Listing: NRTL Listed for United States, Canada, European Union and International

Dimensions: 8.858"-L x 6.472"-H x 5.202"-W

Camera Weight: 6 lbs

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

IR Range: 45 ft

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

Digital Noise Reduction: 3D DNR

Ethernet Interface: RJ45

Ethernet Speed: 10/100

Protocols: IPV4, IPV6, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, 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

Quick Summary

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

Ex db IIC Gb

Ex tb IIC Gb Db IP66

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

Main stream and two sub streams

Capable of programming unique settings per stream

ONVIF (Profile S, Profile G, Profile T), API, SDK

True WDR (wide dynamic range) 120dB for auto adjusting

NDAA Compliant

Housing Materials: Copper-free Aluminum Alloy
Lens Material: 3/8" thick Tempered Glass
Mounting: Adjustable, Single Sided Bracket Sight Glass Mount
Sight Glass Compatibility: 2-150 Sight Glass - 2" Nominal OD Window, 150 PSI Pressure Limit
OD: 6"
Bolt Hole/Circle Diameter: (4) 0.75" Bolt Holes, 4.75" Bolt Diameter
Wiring Hub: (2) 3/4" NPT

Special Orders - Special Requirements

Contact us for special requirements

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The EXPCMR-IP-POE-4MP-IR-SGM-FB-2DA Network Explosion Proof Camera from Larson Electronics is a remote inspection camera specifically designed for observation in hazardous locations. Suitable for sight glass applications, 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. This remote inspection camera saves both time and money, as well as contributes to workplace safety. Operated remotely from a centralized control room, the device features a single sided bracket for installation on 2-150 sight glass.

Camera Features: The EXPCMR-IP-POE-4MP-IR-SGM-FB-2DA Network Explosion Proof Camera features a built-in 1/2.7" progressive-scan CMOS image sensor that delivers up to 8.0MP resolution at 15 fps. The wide angle fixed lens with 83° field of view covers a large area, and an integrated IR LED array provides the operator with low light and nighttime visibility up to 45'. The camera automatically switches from full color to IR mode when visible light falls below a certain level. This remote inspection camera utilizes Advanced Infrared Technology, 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. 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.

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 stream can be configured to different resolutions and frame rates.

Mounting: Equipped with a single-sided bracket, this unit is compatible with 2-150 sight glass (2" nominal OD window, 150 PSI pressure limit). Operators can mount the camera on four 0.75" bolt holes. When mounted properly, the device swivels outwards manually for viewing the sight hole directly without the camera.

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)

Export Control Classification Number (ECCN): EAR99

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](#)
- [Dimensional Drawing 2D](#)
- [IEC Ex Certificate \(International Explosion Proof\)](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [Operations Manual](#)
- [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](#)