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Explosion Proof Network IP Camera - 4MP, 20FPS - Low Light IR Array - Single Sided Bracket, 2-150 Sight Glass

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

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

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: 1/3" 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 (IR)
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: 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, 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

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 steam and two sub streams
Capable of programming unique settings per stream
ONVIF Profile S Certified
WDR (wide dynamic range) for auto adjusting

Special Orders- Requirements
Contact us for special requirements

Toll Free: 1-800-369-6671

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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

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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 1/3" 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 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, 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 steam 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.

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Frequently Asked Questions (FAQ)

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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

- 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