

Explosion Proof 1080p Analog Portable Observation Camera - Day/Night Infrared - Sight Glass Mount

EXPCMR-ALG-1080P-SGM-1227

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



EXPCMR-ALG-1080P-SGM-1227 Explosion Proof Remote Observation Camera

Dimensions: 8"L x 6"W x 9"H

Camera Weight: 8 lbs

Total Watts: 3.5W Max

Voltage: 100-240 V 50/60Hz (primary), 12 V DC (secondary)

Video Framerate: 1080p @ 30fps

Image Sensor: 1/2.7" Progressive Scan CMOS

Signal System: NTSC

Effective Pixels: 1930(H) * 1088(V)

Min. Illumination: 0.1 Lux @ F1.2 AGC On / 0 Lux w/ IR

Shutter Speed: 1/30s to 1/50,000s

Lens: 3.6mm

Angle of View: 90°

Day/Night: ICR

Infrared Range: Up to 50'

D/N Mode: Color / BW/ Auto / EXT

White Balance: Auto / User / Push / 8000K / 6000K / 4200K / 3000K

Privacy Mask: On/Off, maximum 2 zones

Motion Detection: On/Off, maximum 4 zones

Blacklight Compensation: Support

Anti-flicker: On/Off

Display Functions: Digital noise reduction, Mirror

Video Output: (1) Analog HD Output

Protocol: Coaxitron

Signal to Ratio: >52 dB

Language: English

Ambient Temperature Range: -10°C to +50°C

Housing Materials: Aluminum

Lens Material: Tempered Glass

Mounting: Adjustable Sight Glass Mount

Power Connection: Terminal Strips, Customer Provided Cord

Signal Connection: BNC Connector, Customer Provided Cord

Wiring Hub: (2) 3/4" NPT

Wiring: Customer Provided 2-Conductor Cable & Coax Cable

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)

Special Orders- Requirements

Contact us for special requirements

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The EXPCMR-ALG-1080P-SGM-1227 explosion proof high definition analog camera from Larson Electronics is an inspection camera that can be used for remote observation in hazardous locations. Designed for sight glass applications, the unit is available in a fixed lens configuration, a 3.6mm

90° lens to capture large wide areas, and can produce an image up to 1080p resolution. The EXPCMR-ALG-1080P-SGM-1227 allows operators to see visual process data from a centralized control room up.

Camera Features: The EXPCMR-ALG-1080P-SGM-1227 portable explosion proof camera is designed to allow operators to have a live feed from inside a tank, reactor, vessel or other workplace observation in hazardous locations. The explosion proof camera is incredibly durable and ready to be deployed in many different workplace conditions. The camera is operated remotely from a centralized control room which saves both time and money as well as contributing to workplace safety.

This explosion proof camera features an infrared LED array to allow for low light and nighttime visibility. The camera will automatically switch over to IR mode when lux levels drop below a preset level. This allows operators to have up to 50' of visibility in the dark. True day/night infrared cutoff filter removal creates a crisp, sharp image that transmits with zero latency to HD resolution via metal clad coax cable to customer provided remote mount DVR systems.

This remote inspection camera features a pressure-resistant 316 stainless steel body and weighs just under 4.5 pounds. The camera itself features 1 lux sensitivity, a 2-wire transmitter and a polished stainless steel mounting bracket as well as a built-in color CCD camera and a 1/3" CCD sensor. The lens of the EXPCMR-ALG-1080P-SGM-1227 features a viewing angle between 28° and 60° and the minimum lens to object distance is 3.15 inches.

Wiring: Link-up with the camera is achieved via customer provided coax cable with BNC connector through a 3/4" NPT. The cable is ran back to the customer provided DVR system, mounted outside the hazardous location. Terminal strips within the camera allow customers to terminate the power supply for the camera through a separate 3/4" NPT. This unit operates on universal voltage 120/240V AC 50/60 Hz.

Mounting: Equipped with adjustable legs at both sides of the unit, the EXPCMR-ALG-1080P-SGM-1227 Network Explosion Proof Camera is compatible with several mounting requirements and configurations. For sight glass/surface mounting, the device can be attached directly using a nut, flanged adapter collar or hinged bracket. Bracket components allow robust, angled positioning of the light head. The ATEX rated fixture supports compatibility with circular sight glass fittings (DIN 28120, DIN 28121), weld-neck type MV sight glass fittings, ANSI flange types and visual flow indicators.

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)









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](#)
- [Eye Safety Information/Certificate](#)
- [IEC Ex Certificate \(International Explosion Proof\)](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [Operations Manual](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [SpecSheetSpanish](#)
- [STEP File \(3D CAD Model\)](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [Wiring Diagram \(Online\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)