

Explosion Proof 1080p Analog Portable Observation Camera - Day/Night IR - 120/240V - 600' Cord

EXPCMR-ALG-1080P-IC-12.7-600-1227

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



EXPCMR-ALG-1080P-IC-12.7-600-1227 Explosion Proof Remote Observation Camera w/ Cord

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

Camera Weight: 4.5 lbs

Total Weight: 39lbs

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 Bracket w/ set screws

Power & Signal Connection: L22-20P

Compatible Recorder: Larson Electronics MDVR-ALG Series DVRs

Wiring: 600' 12/7 SOOW Cord w/ Flying Leads

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-IC-12.7-600-1227 explosion proof high definition analog camera from Larson Electronics is an inspection camera that can be used for remote observation in hazardous locations. It 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-IC-12.7-600-1227 allows operators to see visual process data from a centralized control room up. This temporary camera allows operators to use a single cable for signal and power. Equipped with a 600` 12/7 SOOW cord, this portable explosion proof camera is ideal for temporary installation for inspection, tank cleaning, and any application requiring a portable camera within hazardous locations.

Camera Features: The EXPCMR-ALG-1080P-IC-12.7-600-1227 temporary installation 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 temporary control location, designed specifically for portability and temporary installations within hazardous locations. This system is designed to operate with Larson Electronics` portable DVR systems.

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 aluminum body and weighs just under 5 pounds. The camera itself features 1 lux sensitivity, a 2-wire transmitter and a powder coated aluminum mounting bracket as well as a built-in color CCD camera and a 1/3" CCD sensor. The lens of the EXPCMR-ALG-1080P-IC-12.7-600-1227 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 600` 12/7 SOOW cord terminated with flying leads. The cable is ran back to the Larson Electronics DVR system (MDVR-ALG series, one mounted internally in the camera enclosure, one included for connecting on output end of cable), located outside the hazardous location. The portable DVR system allows operators to temporarily mount the explosion proof camera without the need for running conduit or cable. The DVR system handles signal and provides power to the camera. The twistlock connector ensures the camera does not come unplugged during operation.

Mounting: The EXPCMR-ALG-1080P-IC-12.7-600-1227 explosion proof remote observation camera is typically mounted to flat surfaces for observation. The included adjustable flat surface bracket has two set screws on the bracket, allowing operators to loosen the mounting bracket, adjust the camera`s tilt orientation, and retighten to hold the camera in position. A single thru-hole mounting bolt allows operators to adjust the rotation of the camera by loosening one bolt. Accessory pole mounts and magnetic mounts are available.

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)









Warranty: 36 Months

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](#)
- [IEC Ex Certificate \(International Explosion Proof\)](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [SpecSheetSpanish](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [HigResPic8](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)