

## Explosion Proof 1080p Analog Portable Observation Camera - Day/Night IR - 120/240V - 1,200' Cord

**EXPCMR-ALG-1080P-IC-10.5-1200-1227-NP**

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



### EXPCMR-ALG-1080P-IC-10.5-1200-1227-NP Explosion Proof Remote Observation Camera w/ Cord

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

**Camera Weight:** 4.5 lbs

**Total Weight:** -

**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:** 1,200' 10/5 SOOW Cord w/ EXP Junction Box

**Connector:** 3/4" NPT Connector for BNC/Power Connections

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

**The EXPCMR-ALG-1080P-IC-10.5-1200-1227-NP explosion proof high definition analog camera from Larson Electronics is an inspection camera**

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**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-10.5-1200-1227-NP 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 1,200` 10/5 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-10.5-1200-1227-NP 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-10.5-1200-1227-NP 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 1,200` 10/5 SOOW cord. At the end, an explosion proof junction box with a 3/4" NPT connector is available for completing BNC/power connections. 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-10.5-1200-1227-NP 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.

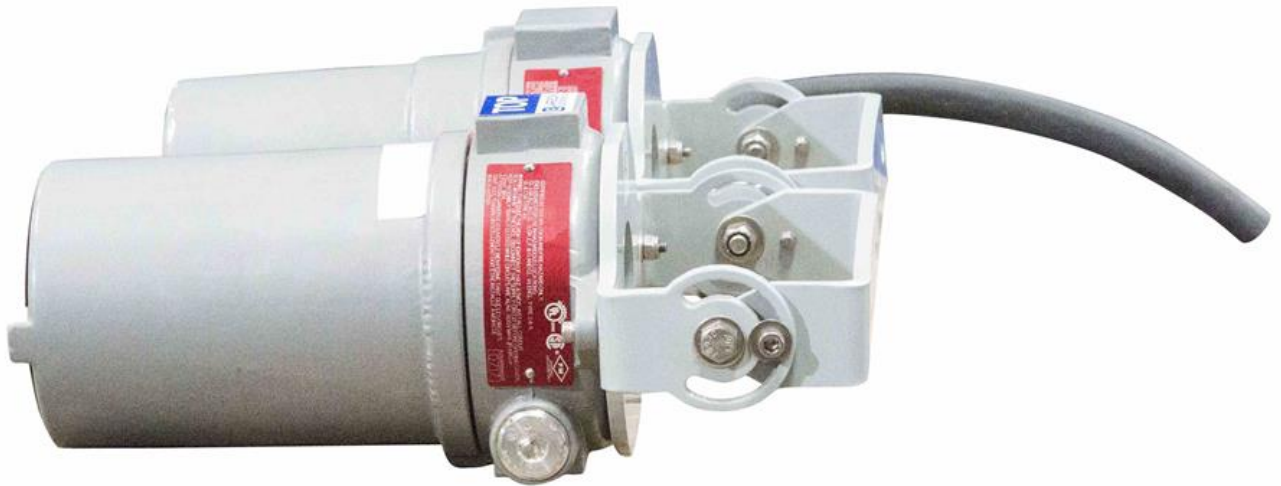
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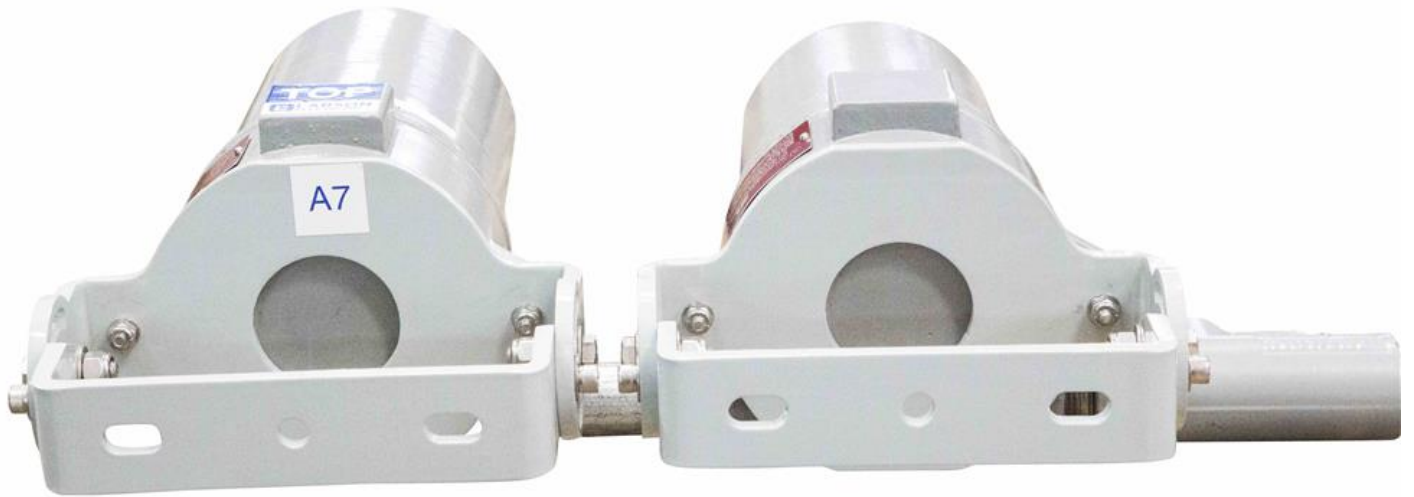
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## Frequently Asked Questions (FAQ)









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