

## Magnetic Mount Explosion Proof 1080p Analog Portable Observation Camera - 120/240V - 25'

### Cord & Plug

**EXPCMR-ALG-1080P-IC-M-16.7-25-L21.20-1227**

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



#### **EXPCMR-ALG-1080P-IC-M-16.7-25-L21.20-1227 Magnetic Mount Explosion Proof Remote Observation Camera w/ Cord**

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

**Camera Weight:** 5 lbs

**Total Weight:** 12.76 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 Magnetic Mount Bracket w/ (2) 100lb Magnets

**Power & Signal Connection:** L22-20P

**Compatible Recorder:** Larson Electronics MDVR-ALG Series DVRs

**Wiring:** 25' 16/5 SOOW Cord

#### **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-M-16.7-25-L21.20-1227 magnetic mount explosion proof high definition analog camera from Larson Electronics is an inspection camera that can be used for remote observation in**

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**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-M-16.7-25-L21.20-1227 allows operators to see visual process data from a centralized control room up. This portable camera allows operators to use a single cable for signal and power. Equipped with two 100lb magnets and 25` SOOW cord, this portable explosion proof camera is ideal for temporary inspection, tank cleaning, and any application requiring a portable camera within hazardous locations.**

**Camera Features:** The EXPCMR-ALG-1080P-IC-M-16.7-25-L21.20-1227 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 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-M-16.7-25-L21.20-1227 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 25` 16/5 SOOW cord terminated in a L21-20P twistlock cord cap. The cable is ran back to the Larson Electronics DVR system (MDVR-ALG series, sold separately), 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-M-16.7-25-L21.20-1227 explosion proof remote observation camera is typically mounted to flat ferrous surfaces for observation. The included adjustable magnetic bracket features two 100lb grip magnets for temporarily attaching to ferrous surfaces. This adjustable 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 after mounting. This magnetic mount solution is ideal for temporary mounting within tanks, and for applications where drilling cannot be done. Alternative surface mounts and pole 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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## 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 \(Material Safety Data Sheet\)](#)
- [Operations Manual](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [SpecSheetSpanish](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)