

## Hazardous Location Network IP Camera - C1D2 - 4.0MP Resolution - 20FPS - Low Light IR Array HAL-CMR-CRNM-IP-POE-4MP-IR

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



### HAL-CMR-CRNM-IP-POE-4MP-IR Network Hazardous Location Camera

**Dimensions:** 8"L x 6"W x 13"H

**Camera Weight:** 6 lb

**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/Lens Materials:** Polycarbonate

**Mounting:** Adjustable Bracket w/ Set Screws

**Wiring Hub:** (2) 3/4" NPT

### Quick Summary

Class I, Division 2, Groups A, B, C, D

UL 595: Marine Outside Type

UL 844

UL Listed to CSA 22.2-137

NEMA 4X

USCG Accepted

CSA Approved New York City Department of Buildings

Approved Materials Meet UL 94-V-0 for Flame

Retardancy

ETL Listing

UL 1598A

WDR (Wide Dynamic Range) for Auto Adjusting

### Special Orders- Requirements

Contact us for special requirements

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**The HAL-CMR-CRNM-IP-POE-4MP-IR Hazardous Location Network Camera from Larson Electronics is a remote inspection camera specifically designed for observation in hazardous locations. This dust/ignition proof, weather proof and tamper resistant camera provides the operator with a live feed from inside tanks, reactors, vessels or other hazardous locations. Equipped with a polycarbonate housing, this remote inspection camera saves both time and money as well as contributing to workplace safety.**

**Camera Features:** The HAL-CMR-CRNM-IP-POE-4MP-IR 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 hazardous location camera provides a crisp and clear image for everything within the 83° focal area. Total distance is dependent on mounting height and angle. The HAL-CMR-CRNM-IP-POE-4MP-IR features a housing that is waterproof and constructed of corrosion and chemical resistant polycarbonate with a polycarbonate cover.

**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.

**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 hazardous location 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:** This unit 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:** Hazardous locations, 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](mailto: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)









Links (Click on the below items to view):

- [Dimensional Drawing 2D](#)
- [Operations Manual](#)
- [STEP File \(3D CAD Model\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [HigResPic8](#)
- [HigResPic9](#)
- [HigResPic10](#)
- [Video1](#)
- [Video2](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)