

## Key Features

- UL and CSA certified for explosion protected performance
- Class I, Division 1 & 2, Groups B, C, D
- Class II, Division 1 & 2, Groups E, F, G
- Class III
- Optional 23x module with mechanical IR cut filter for vivid daytime color and exceptional response to infrared
- Safe for use even in environments where explosive gases are present under normal operating conditions
- High-strength design, featuring construction of sand-cast, copper-free aluminum that can withstand an internal explosion
- Threaded flame paths ensure maximum safety
- Compact design for covert explosion-protected surveillance
- Voltage regulated for 12VDC / 24VAC operation
- T6 temperature code, the safest rating
- NEMA 4X rated for indoor and outdoor performance

## Product Description

The EX72 series are tough, compact, explosion cameras with performance optics for effective surveillance in hazardous environments such as oil and gas and chemical facilities.

The EX72 series are certified for Class I, Division 1 environments, the most stringent safety standards for explosion-protected performance. In practical terms, the Class I, Division 1 certifications signify that the EX72 are safe for use even in environments where explosive gases are present under normal operating conditions.

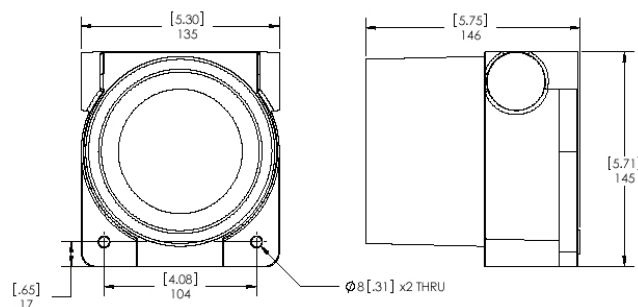
The EX72 series incorporates high-strength design, featuring construction of sand-cast, copper-free aluminum strong enough to withstand an internal explosion. Threaded flame paths extinguish burning explosive gases and allow them to exit the housing harmlessly, without risking ignition in the external environment.

By meeting the rigorous requirements for Class I, Division 1 environments, the EX72 series assures safe, effective performance at less hazardous Class II and Division 2 locations.

In addition to providing certified explosion-protected surveillance, the EX72 series delivers outstanding optical performance. The extended design of the EX72 fits perfectly with the optional FMZ300 zoom module. Featuring 23x optical zoom, the FMZ300 incorporates a mechanical IR-cut filter to deliver vivid color by day and exceptional spectral response to IR in low-light conditions.

Rated NEMA 4X for both indoor and outdoor use, the EX72 series carry a T6 temperature code, the lowest and safest rating. When combined with the optional EX72LED infrared illuminator, EX72 provides exceptional 24/7 surveillance. The EX72 series is easy to install into any 12VDC or 24VAC system and is a safe and effective surveillance solution for hazardous locations.

## Product Image



## Applications

- Petroleum processing facilities
- Chemical factories
- Agricultural processing plants
- Refineries
- Munitions storage
- Oil and gas plants
- Fuel storage sites
- Industrial plants
- Nuclear facilities
- Pharmaceutical plants
- Aircraft hangers

## Certifications / Compliance

	<b>EX72 Explosion Protected Surveillance Enclosure</b>
<b>CSA/NRTL</b>	LR 113310
<b>Class</b>	2258 / 82 - Process Control Equipment - For Hazardous Locations - Certified to US Standard
	2258 / 02 - Process Control Equipment - For Hazardous Locations
<b>Safety</b>	OSHA / ANSI / UL / CSA
	UL 508, 16 <sup>th</sup> Edition - Industrial Control Equipment
	UL 698, 11 <sup>th</sup> Edition - Industrial Control Equipment for Use in Hazardous (Classified) Locations
	UL 1203, 2nd Edition - Explosion-Proof and Dust-Ignition-Proof Elec. Eqmt for Use in Hazardous (Classified) Locations
	CSA C22.2 No.0-M1991 - General Requirements - Canadian Electrical Code Part II
	CSA C22.2 No.0.4-M1982 - Bonding and Grounding of Electrical Equipment (Protective Grounding)
	CSA C22.2 No.25-M1966 - Enclosures for Use in Class II Groups E, F and G Hazardous Locations
	CSA C22.2 No.30-M1986 - Explosion-proof Enclosures for Use in Class I Hazardous Locations
	CSA C22.2 No.94-M1991 - Special Purpose Enclosures
	CSA C22.2 No.142-M1987 - Process Control Equipment
	Class I, Division 1 and 2, Groups B, C, and D
	Class II, Division 1 and 2, Groups E, F, G
	Class III
<b>Operational</b>	Temperature Code T6 (At ambient operational temperature of 40°C, the maximum unit surface temperature will not exceed 85°C.)
<b>Environmental</b>	CSA / NEMA TYPE 4X

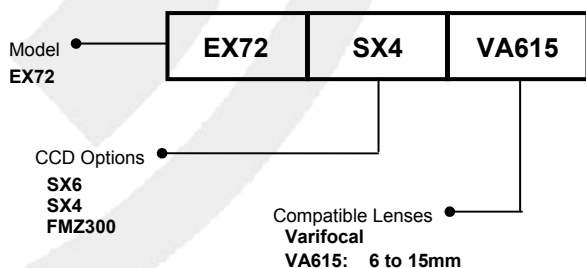
## Specifications: Monochrome Cameras, Color/Monochrome Zoom Camera

CCD	<b>SX4 Monochrome</b>	<b>SX6 Series Monochrome</b>
Image Sensor	<b>1/3" LXR CCD</b>	<b>1/3" LXR CCD</b>
Resolution	420 TVL	600 TVL
Effective Pixels (NTSC)	542 (H) x 492 (V)	811 (H) x 508 (V) •
Effective Pixels (PAL)	542 (H) x 582 (V)	795 (H) x 596 (V)
Sensitivity	0.01 Lux @ F1.2	0.01 Lux @ F1.2
S/N Ratio	Greater than 48dB	Greater than 48dB
Signal Processing	Digital Signal Processing (DSP)	
Output Signal	1Vp-p, 75Ω	
BLC	On / Off selectable	
Gain Control	AGC automatic	
Electronics Iris	1/60 ~ 1/100,000 (EIA)	
Voltage	12 VDC or 24 VAC	
Operational Range	-50°C to +40°C   -58°F to 104°F	
Weight	3.1lbs   1.4kg	
Dimension	117 mm x 117 mm x 99 mm   4.6" x 4.6" x 3.9"	

**Specifications: Color/Monochrome Zoom Camera Module**

CCD	FMZ300 Color/Monochrome Zoom Camera Module
Image Sensor	1/4" LXR CCD Image Sensor
Resolution	480 TVL
Effective Pixels (NTSC)	795(H) x 596 (V)
Effective Pixels (PAL)	811(H) x 508 (V)
Sensitivity	0.02 @ Lux adjustable
S/N Ratio	Greater than 50dB
IR-Cut Filter	Auto switching / Manual
Day-Night Change Level Adjust	0.02 ~ 15 lux adjustable
Day-Night Change Delay Time	5 ~ 8 sec.
White Balance	ATW 2500°K ~ 9600 °K Preset / Manual
White Balance Range	2500 ~ 9600 °K
BLC Function	Auto on/off
Lens	23x optical zoom lens (F1.6~3.8, f =3.6~82.8 mm)
Signal Processing	Digital Signal Processing (DSP)
Output Signal	1Vp-p, 75Ω
BLC	On / Off selectable
Gain Control	AGC automatic
Electronics Iris	1/60 ~ 1/100,000 (EIA)
Voltage	12 VDC or 24 VAC
Operational Range	-50°C to +40°C   -58°F to 104°F
Weight	3.1lbs   1.4kg
Dimension	117 mm x 117 mm x 99 mm   4.6" x 4.6" x 3.9"

**Part Numbers** (Special Order Models available on request)



**Optional Accessories** (Order separately)

- [EXPS.001](#) Power Supply Unit
- [EXMB.002](#) Ceiling and pedestal bracket
- [EXMB.003](#) Heavy-duty wall bracket
- [EXMB.006](#) Wall bracket
- [EXMB.007](#) Heavy-duty wall bracket
- [EXMB.015](#) Pole mount adaptor
- [EXMB.028](#) Wall mount adaptor plate
- [EXMB.072](#) Adaptor bracket for EX72

Important Note:  
Explosion-protected housings may be subject to local or regional regulatory approval. Please check with your local authorities having jurisdiction.