



The EX72N series are tough, compact, explosion protected Integrated Day-Night™ cameras for effective 24/7 surveillance in hazardous environments.

The EX72N series is certified for Class I, Division 1 environments, the most stringent safety standards for explosion-protected performance. The EX72N series incorporates day-night mechanical filter CCDs and varifocal, auto-iris lens for outstanding daytime color and 40ft (12m) active infrared night vision under low light conditions.

The EX72N series delivers safety and performance while minimizing operational risks for applications including oil and gas, chemical and pharmaceutical facilities.

Performance Benefits

- Explosion protected design for ATEX and UL/CSA-certified safe Class I, Class II, Div. 1 and Div. 2 performance at even the most hazardous locations
- Award-winning electro-optics for effective monitoring of people and processes, with 550 TVL mechanical filter CCD technology and 4-8mm varifocal, auto-iris lens for vivid daytime color and outstanding performance under infrared
- Integrated Day-Night™ design for up to 40ft (12m) active-infrared night vision in 0 lux
- Compact housing, certified to CSA Type 4X for indoor and outdoor performance
- Fast installation with varifocal lens, 12VDC / 24VAC input voltage and optional pan-tilt brackets

Key Attributes



Certified Explosion Protected Design

- ATEX and 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
- T6 temperature code

Performance Optics

- Performance CCDs with mechanical filter technology
- High efficiency LED infrared array
- 40ft (12m) active-infrared night vision
- Enables effective surveillance in low light environments
- Optional LXR CCD provides higher IR sensitivity, low smear, low streak and excellent anti-blooming characteristics

Compact Ruggedized Construction

- Small, unobtrusive and discreet housing
- Certified CSA Type 4X design for indoor and outdoor performance
- High-strength reinforced aluminum construction strong enough to withstand an internal explosion.
- Threaded flame paths extinguish burning explosive gases, allowing them to exit the housing harmlessly, without risking ignition in the external environment

Installer-Friendly Features

- Varifocal lens 4-8mm
- 12VDC / 24VAC operation
- Optional EXMB.072 adaptor bracket for installation versatility
- Optional pan-tilt brackets
- Optional wall and pole adaptor plates

Active-Infrared Night Vision Sample Images



An illustration of active-infrared illumination. In the "IR off" image at left, very little information is available. However, the "IR on" image at right demonstrates the effect of adding infrared on scene. Details are clearly visible and the image may be used as evidence in a court of law.

EX72N Installation Tip



Pole Mount Brackets

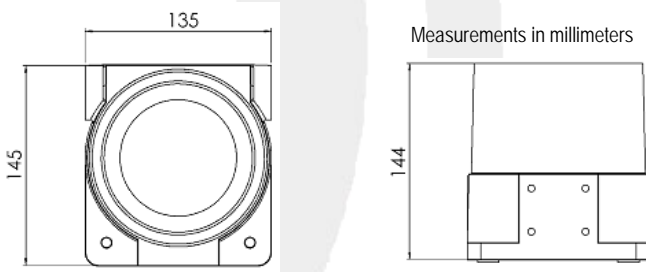
The EX72N series cameras may be combined with the EXMB.072 Adaptor Bracket, EXMB.028 Wall Mount Bracket and EXMB.015 Pole Mount Adaptor for a quick and easy installation to a pole. (All brackets sold separately)

EXMB.072 Adaptor Bracket

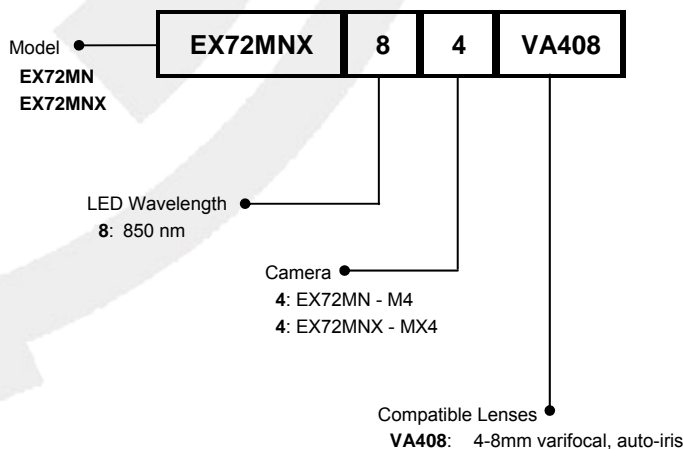
EXMB.028B Wall Mount Bracket

EXMB.015 Pole Mount Adaptor

Technical Drawings



Part Numbers



Optional Accessories

- [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](#) Cable managed wall mount bracket
- EXMB.072 Adaptor bracket for EX72

Certifications

EX72N Explosion Protected Surveillance Camera	
CSA/NRTL	LR 113310
Class	2258 / 82 - Process Control Equipment - For Hazardous Locations - Certified to US Standard
	2258 / 02 - Process Control Equipment - For Hazardous Locations
Safety	OSHA / ANSI / UL / CSA
	UL 508, 16 th Edition - Industrial Control Equipment
	UL 698, 11 th Edition - Industrial Control Equipment for Use in Hazardous (Classified) Locations
	UL 1203, 3 rd 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.0.4-04 - Bonding of Electrical Equipment
	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
	ATEX Ex II 2G certified – Equipment or Protective System intended for use in Potentially Explosive Atmospheres; Directive 94/9/EC
ATEX Ex d IIC T6 certified– Equipment or Protective System intended for use in Potentially Explosive Atmospheres; Directive 94/9/EC	
Operational	Temp Code T6 (Max. operation ambient 40°C.)
Environmental	CSA / NEMA TYPE 4X

Specifications

	EX72MN Day-Night	EX72MNX Day-Night
CCD	1/3" M4 Mechanical Filter	1/3" MX4 LXR Mechanical Filter
Resolution	550 TVL color / 570 TVL mono	550 TVL color / 570 TVL mono
IR Spectral Response	Standard IR Sensitivity	Enhanced IR Sensitivity
Day Sensitivity	0.06 Lux with F1.4 lens	0.02 Lux with F1.4 lens
Night Sensitivity	0 Lux - works in total darkness	0 Lux - works in total darkness
S/N Ratio	Greater than 48dB (AGC off)	Greater than 48dB (AGC off)
Night Vision Distance	30ft (9m)	40ft (12m)
Lens	4-8mm varifocal lens, auto-iris	
Output Signal	1Vp-p, 75ΩR	
Electronics Iris	1/60 ~ 1/100,000 (EIA)	
LED	18-LED high efficiency array, 850nm	
Voltage	12 VDC or 24 VAC	
Cabling holes	3/4" NPT	
Construction	Sand-cast, copper-free aluminum	
Flame Path	Threaded joint flame paths	
Temp Range	-50°C to +40°C (-58°F to 104°F)	
Weight	5.95lbs (2.7kg)	
Dimension	145mm (H) x 135mm (W) x 144mm (D) 5.7" (H) x 5.3" (W) x 5.7" (D)	

Important Note:

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

Dealer / Distributor