

EX72N Explosion-protected Integrated Day/Night Camera



- UL/CSA or ATEX certified for explosion-protected performance
- Integrated Day/Night design for 12 m (40 ft) night vision
- ► Performance optics with mechanical filter technology
- High-strength design can withstand an internal explosion
- Safe for use where explosive gases are normally present
- ► Vari-focal auto-iris lens options

The EX72N is a tough, compact, explosion-protected camera with performance optics for effective surveillance in hazardous locations such as oil and gas, and chemical facilities. The EX72N incorporates a Day/ Night CCD with a mechanical filter for outstanding daytime color and 12 m (40 ft) active-IR night vision under low light and no light conditions.

The EX72N is certified for ATEX Zone 1 or NEC 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 EX72N is safe for use even in environments where explosive gases are present under normal operating conditions.

The EX72N 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 EX72N assures safe, effective performance at less hazardous Division 2 and Class II locations.

Rated NEMA 4X for both indoor and outdoor use, the EX72N carries a T6 temperature code, the lowest and safest rating. When combined with the optional EX72LED infra-red illuminator, the EX72N provides exceptional 24/7 surveillance.

The EX72N is easy to install into any 12 VDC or 24 VAC system, and is a safe and effective surveillance solution for hazardous locations.

Functions

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

Performance Optics

- Performance CCD with mechanical filter technology
- High efficiency LED infrared array
- 12 m (40 ft) active-IR night vision
- Enables effective surveillance in low-light environments

Distribuidor Autorizado: www.tucanobrasil.com.br

 Sensor provides higher IR sensitivity, low smear, low streaking 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 to 9 mm or 9 to 22 mm
- 12 VDC / 24 VAC operation
- Optional pan-tilt brackets
- Optional wall and pole adapter plates

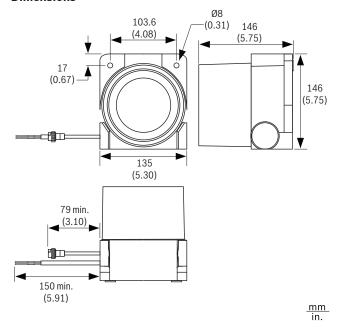
Certifications and Approvals

Region	Certification	Certification	
Europe	CE	ATEX	
Canada	CSA		
CSA/NRTL	LR 113310)	
Class	2258 / 82 - Process Control Equipment - For Hazard- ous Locations - Certified to US Standard		
	2258 / 02 ous Location	- Process Control Equipment - For Hazard- ons	
Safety	UL/CSA/	ATEX	
	UL 508, 16	6th Edition - Industrial Control Equipment	
		Lth Edition - Industrial Control Equipment for ardous (Classified) Locations	
		Brd Edition - Explosion-Proof and Dust-Igni- Elec. Eqmt for Use in Hazardous (Classified)	
		No.0-M1991 - General Requirements - lectrical Code Part II	
	CSA C22.2 ment	No.0.4-04 - Bonding of Electrical Equip-	
		No.25-M1966 - Enclosures for Use in Sups E, F and G Hazardous Locations	
		No.30-M1986 - Explosion-proof Enclose in Class I Hazardous Locations	
	CSA C22.2 sures	No.94-M1991 - Special Purpose Enclo-	
	CSA C22.2 ment	No.142-M1987 - Process Control Equip-	
	Class I, Div	ision 1 and 2, Groups B, C, and D	
	Class II, Div	vision 1 and 2, Groups E, F, G	
	Class III		
	tem intende	2G certified – Equipment or Protective Sysed for use in Potentially Explosive Atmosective 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

Installation/Configuration Notes

Dimensions



Flexible Mounting Options

- Wall mounting
 - use a combination of EXMB.072B (EX72 adapter plate), EXMB.028B (pan/tilt bracket) and EXMB. 017B (wall mount adapter).
- Pole mounting
 - use a combination of EXMB.072B (EX72 adapter plate), EXMB.028B (pan/tilt bracket) and EXMB. 015B (pole mount adapter).
- Ceiling mounting
 - use a combination of EXMB.072B (EX72 adapter plate) and EXMB.004B (ceiling bracket).

All brackets are available as optional accessories.

Technical Specifications

	EX72MNX Day/Night
CCD	MX4 extended day/night CCD
Resolution	540 TVL color / 540 TVL mono
IR Spectral Response	Enhanced IR Sensitivity
Day Sensitivity	0.02 lux with F1.4 lens
Night Sensitivity	0 lux (works in total darkness)
S/N Ratio	Greater than 48 dB (AGC off)

Night Vision Distance	12 m (40 ft)
Lens	Varifocal 4 to 9 mm or 9 to 22 mm, auto-iris lens
Output Signal	1 Vpp, 75 ohm
Electronics Iris	1/60 to 1/100,000 (EIA)
LED	18 LED high efficiency array, 850 nm
Voltage	12 VDC or 24 VAC
Power Consumption	8 W (max.)
Cabling holes	3/4-inch NPT
Construction	Sand-cast, copper-free aluminum
Flame Path	Threaded joint flame paths
Operation Temperature Range	-50 °C to +40 °C (-58 °F to 104 °F)
Weight	1.4 kg (3.1 lb)
Dimensions	145 x 135 x 144 mm (HxWxD) (5.7 x 5.3 x 5.7 in (HxWxD))

Note

To order a CSA/ UL certified product use product codes without the AT suffix. To order an ATEX certified product use product codes with the AT suffix.

Ordering Information

EX72MNX8V0409-N Explosion-protected Integrated Day/Night Camera

Day/Night, 18 LEDs, 850 nm, 1/3 in CCD, 540 TVL color/ 540 TVL mono, VA 4 to 9 mm lens, bracket, NTSC, CSA/UL Certified

EX72MNX8V0409-

EX72MNX8V0922-N Explosion-protected Integrated Day/Night Camera

Day/Night, 18 LEDs, 850 nm, 1/3 in CCD, 540 TVL color/ 540 TVL mono, VA 9 to 22 mm lens, bracket, NTSC, CSA/UL Certified

EX72MNX8V0922-

Ordering Information	
Accessories	
EXMB.028B Cable Managed Wall Bracket Cable-managed arm bracket, black	EXMB.028B
EXMB.072B Adapter Bracket EXMB72 Adapter Bracket, Black	EXMB.072B
EXMB.015B Pole Mount Adapter Bracket Pole Mount Adapter, black	EXMB.015B
EXMB.017B Wall Mount Adapter Bracket Wall Mount Adapter, Black	EXMB.017B
EXMB.004B Ceiling and Pedestal Bracket Mounting Bracket, HD, Pan/Tilt Adjust - Ceiling Mount for EX52, EX62, black	EXMB.004B
UPA-2430-60 Power Supply 120 VAC, 60 Hz, 24 VAC, 30 VA Out	UPA-2430-60
UPA-2420-50 Power Supply	UPA-2420-50

220 VAC, 50 Hz, 24 VAC, 20 VA Out