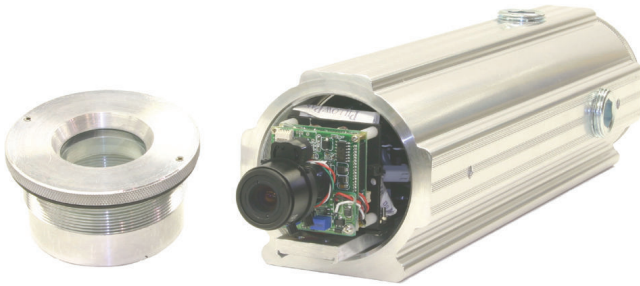


EX52 Explosion Protected Compact Camera



- ▶ **Designed and certified for effective explosion protected performance at hazardous locations**
- ▶ **Class I, II, III, Div. 1, 2, Groups A, B, C, D, E, F, G, T6**
- ▶ **Small, compact design**
- ▶ **Heavy duty extruded aluminum construction**
- ▶ **Easy access optical slide tray**
- ▶ **3/8 in. chemically resistant window**

The EX52 is a 30 cm (12 in) explosion protected camera for effective surveillance at high risk environments. Designed for hazardous industrial locations, including the entire range of OSHA (UL). Its stringent Class I, Division I certifications allow safe functioning at locations where ignitable concentrations of flammable gases or liquid vapors are present during normal operation. Groups covered include acetylene, hydrogen, ethylene and methane, all highly explosive gases. The EX52 is also certified for operation in areas where ignitable concentrations of combustible dusts (such as carbon-based or agricultural dusts) are present during normal operation. The EX52 is also designed to CCTV industry standards for mounting hardware and motorized pan/tilt devices.

Functions

Applications

- Chemical factories
- Petroleum refineries, oil and gas processing
- Utility gas plants
- Grain elevators, flour mills
- Dry cleaning plants
- Pharmaceutical plants
- Coal and carbon processing
- Aircraft hangars
- Spray finishing areas

- Munitions and fuel storage facilities

Note

The use of explosion protected housings may be subject to local or regional regulatory approval. The authorities having jurisdiction for each installation and application may vary and their respective requirements may differ. The integration of your equipment with the EX52 may also be subject to local authority approval.

Certifications and Approvals

| Region | Certification |
|----------|--|
| Canada | CSA |
| CSA-NRTL | LR 113310 |
| Class | 9098 01 / 81 Miscellaneous - for Hazardous Locations |
| Safety | OSHA / ANSI / UL / CSA |
| | UL 508, Sixteenth Edition - Industrial Control Equipment |
| | UL 698, Eleventh Edition - Industrial Control Equipment for Use in Hazardous (Classified) Locations |
| | UL 1203 Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations |
| | CSA C22.2 No.0-M1991 General Electrical Requirements |

| | |
|---------------|---|
| | 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, Div 1, 2, Groups A, B, C, D |
| | Class II, Div 1, 2, Groups E, F, G |
| | Class III |
| Operational | Temperature Code T6 at maximum ambient temperature 50°C (122°F) |
| Environmental | CSA / NEMA TYPE 4 |

Technical Specifications

Photocell-Controlled Mechanical Filter Cameras, Day / Night Switching

| | |
|-----------------------------|---|
| Image Sensor | MX4 Extended Day/Night CCD |
| Resolution | 540TVL color / 540TVL monochrome |
| Effective Pixels NTSC (HxV) | 768 x 494 |
| Effective Pixels PAL (HxV) | 752 x 582 |
| Sensitivity | 0.02 Lux with F1.4 lens / 0 lux with infrared (B/W) |
| S/N Ratio | Greater than 48 dB (AGC off) |
| Output Signal | 1 Vpp, 75 Ohm |
| Gamma | 0.45 |
| Gain Control | AGC |
| Electronics Iris | 1/60 to 1/100,000 (NTSC) • 1/50 to 1/100,000 (PAL) |
| Filter | Dual-window mechanical type |

Color Cameras

| | |
|-----------------------------|--|
| Image Sensor | C7 High Resolution Color CCD |
| Resolution | 500 TVL |
| Effective Pixels NTSC (HxV) | 768 x 494 |
| Effective Pixels PAL (HxV) | 752 x 582 |
| Sensitivity | 2.7 Lux at F1.4 |
| S/N Ratio | Greater than 48 dB |
| Output Signal | 1 Vpp, 75 Ohm |
| Gamma | 0.45 |
| Gain Control | AGC |
| Electronics Iris | 1/60 to 1/100,000 (NTSC) / 1/50 to 1/100,000 (PAL) |

| | |
|-------------------|---|
| Consumption | 5 W maximum |
| Voltage | 12 to 24 AC/DC |
| Construction | Extruded copper-free anodized aluminum with four 3/4-in NPT conduit entries |
| Brackets | U-Bracket with stainless steel straps included |
| View Window | 3/8-inch tempered glass |
| Weight | 4.5 kg (10 lbs) without camera |
| Operational Range | -50°C to +50°C (-58°F to +122°F) |
| Overall Dimension | Approximately 86 mm (3 3/8 in) diameter x 305 mm (12 in) length |

Ordering Information

| | |
|--|-----------------------|
| EX52C7V0409-N Explosion Protected Compact Camera Explosion protected cam, 1/3 in. hi-res color, 500TVL, 4-9 mm lens, NTSC | EX52C7V0409-N |
| EX52C7V0409-P Explosion Protected Compact Camera Explosion protected cam, 1/3 in. hi-res color, 500TVL, 4-9 mm lens, PAL | EX52C7V0409-P |
| EX52MX4V0409-N Explosion Protected Compact Camera Explosion protected cam, 1/3 in. extended day/night, 540/540 TVL, 4-9 mm lens, NTSC | EX52MX4V0409-N |
| EX52MX4V0409-P Explosion Protected Compact Camera Explosion protected cam, 1/3 in. extended day/night, 540/540 TVL, 4-9 mm lens, PAL | EX52MX4V0409-P |
| EX52C7V0922-N Explosion Protected Compact Camera Explosion protected cam, 1/3 in. hi-res color, 500 TVL, 9-22 mm lens, NTSC | EX52C7V0922-N |
| EX52C7V0922-P Explosion Protected Compact Camera Explosion protected cam, 1/3 in. hi-res color, 500 TVL, 9-22 mm lens, PAL | EX52C7V0922-P |
| EX52MX4V0922-N Explosion Protected Compact Camera Explosion protected cam, 1/3 in. extended day/night, 540/540 TVL, 9-22 mm lens, NTSC | EX52MX4V0922-N |
| EX52MX4V0922-P Explosion Protected Compact Camera Explosion protected cam, 1/3 in. extended day/night, 540/540 TVL, 9-22 mm lens, PAL | EX52MX4V0922-P |

Ordering Information**Accessories**

| | |
|---|--------------------|
| EXMB.004B Ceiling and Pedestal Bracket Mounting Bracket, HD, Pan/Tilt Adjust - Ceiling Mount for EX52, EX62, black | EXMB.004B |
| EXMB.005B Heavy Duty Wall Bracket Mounting Bracket, HD, Pan/Tilt Adjust - Wall Mount, black | EXMB.005B |
| EXMB.002B Ceiling and Pedestal Bracket Ceiling and Pedestal Bracket, Black | EXMB.002B |
| UPA-2430-60 Power Supply 120VAC, 60Hz, 24VAC, 30VA Out | UPA-2430-60 |
| UPA-2420-50 Power Supply 220VAC, 50Hz, 24VAC, 20VA Out | UPA-2420-50 |

