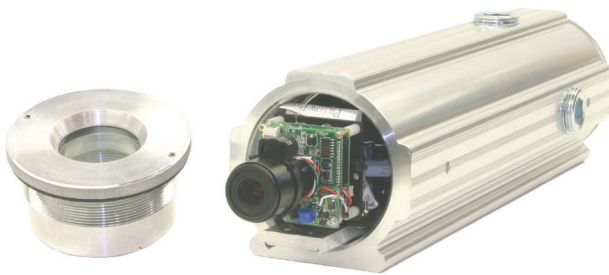


# EX52 Explosion Protected Compact Camera

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ 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

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



### Notice

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

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

Region	Certification
Canada	CSA

## Technical specifications

### Photocell-Controlled Mechanical Filter Cameras, Day / Night Switching

Image Sensor	MX4 Extended Day/Night CCD
Resolution	540 TVL color / 540 TVL 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  
Order number **EX52C7V0409-N**

**EX52C7V0409-P Explosion Protected Compact Camera**  
Explosion protected cam, 1/3 in. hi-res color, 500TVL, 4-9 mm lens, PAL  
Order number **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  
Order number **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  
Order number **EX52MX4V0409-P**

**EX52C7V0922-N Explosion Protected Compact Camera**  
Explosion protected cam, 1/3 in. hi-res color, 500 TVL,  
9-22 mm lens, NTSC  
Order number **EX52C7V0922-N**

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**EX52C7V0922-P Explosion Protected Compact Camera**  
Explosion protected cam, 1/3 in. hi-res color, 500 TVL,  
9-22 mm lens, PAL  
Order number **EX52C7V0922-P**

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**EX52MX4V0922-N Explosion Protected Compact Camera**  
Explosion protected cam, 1/3 in. extended day/night,  
540/540 TVL, 9-22 mm lens, NTSC  
Order number **EX52MX4V0922-N**

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**EX52MX4V0922-P Explosion Protected Compact Camera**  
Explosion protected cam, 1/3 in. extended day/night,  
540/540 TVL, 9-22 mm lens, PAL  
Order number **EX52MX4V0922-P**

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**Accessories**

**EXPS.008 VAC Power Supply**  
Power supply 120 VAC/ 24 VAC 1500 mA  
Order number **EXPS.008**

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**EXMB.004B Ceiling and Pedestal Bracket**  
Mounting Bracket, HD, Pan/Tilt Adjust - Ceiling Mount  
for EX52, EX62, black  
Order number **EXMB.004B**

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**EXMB.005B Heavy Duty Wall Bracket**  
Mounting Bracket, HD, Pan/Tilt Adjust - Wall Mount,  
black  
Order number **EXMB.005B**

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**EXMB.002B Ceiling and Pedestal Bracket**  
Ceiling and Pedestal Bracket, Black  
Order number **EXMB.002B**

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**PSU-230-24 Power Supply**  
Power Supply, 230 VAC / 24 VAC, 50 W  
Order number **PSU-230-24**

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