MV-CT*M/CG0016/G

1.6 MP GigE Area Scan Camera



Introduction

Designed for industrial applications, MV-CT*M/CG0016/G camera offers industry-leading performance and reliability, with various versions to meet diverse application needs. It supports IP67 protection, expanded interfaces, and integration of liquid/electric lenses, light sources, and lens cap, creating a more flexible and efficient system.

Key Feature

- The devices with PRO version and MAX version support waterproof connector.
- The devices with PRO version and MAX version adopt precision temperature control design for fast heat balance.
- The color devices with PRO version and MAX version support auto color correction based on multi-spectral fusion technology.
- The device with MAX version integrates lens and light source, enabling lens focusing and light source control.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

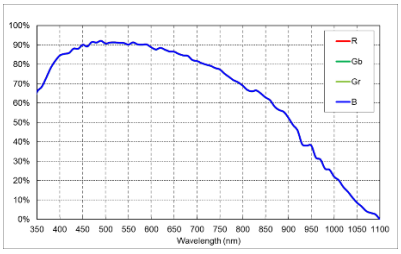
Applicable Industry

Electronic semiconductor, factory automation, food and beverage, medicine packaging, etc.

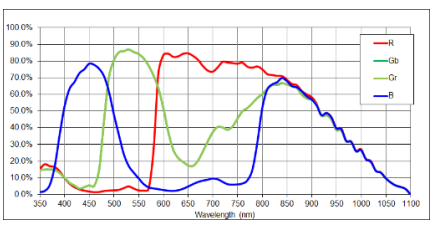
Available Model

- Mono camera (BASE): MV-CT0MG0016/G/NN/NN
- Color camera (BASE): MV-CT0CG0016/G/NN/NN
- Mono camera (PRO): MV-CT1MG0016/G/NN/NN
- Color camera (PRO): MV-CT1CG0016/G/NN/NN
- Mono camera (MAX): MV-CT2MG0016/G/NN/NN
- Color camera (MAX): MV-CT2CG0016/G/NN/NN

Sensor Quantum Efficiency



MV-CT*MG0016/G



MV-CT*CG0016/G

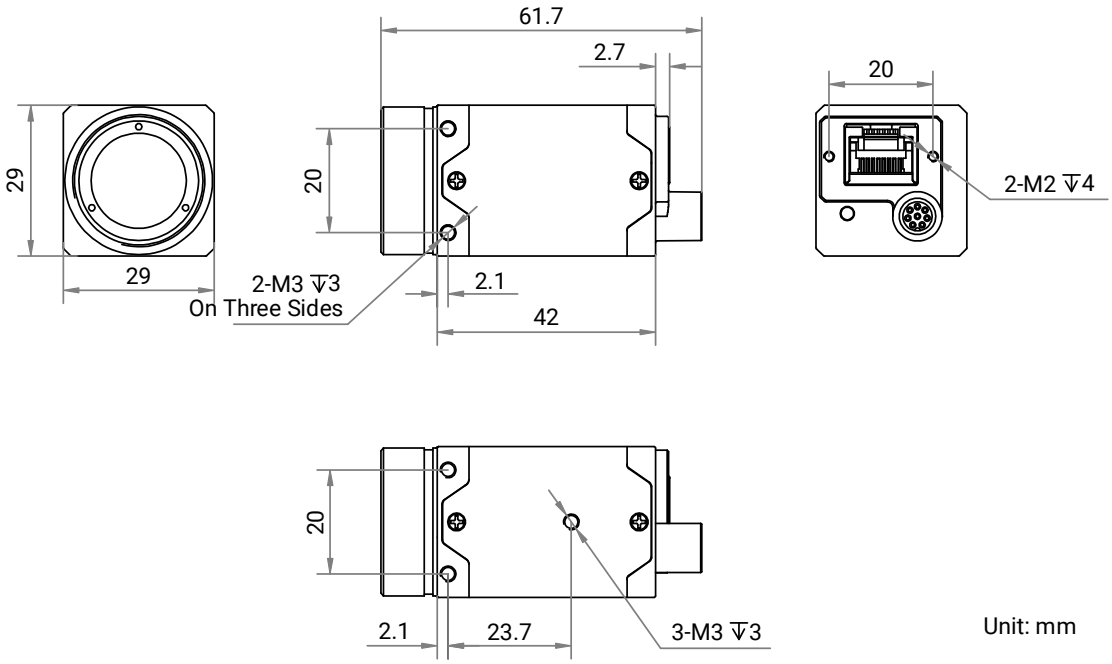
Specification

Model	MV-CT*MG0016/G	MV-CT*CG0016/G
Performance		
Sensor type	CMOS, global shutter	
Sensor model	Stacked BSI	
Pixel size	3.45 μm × 3.45 μm	
Sensor size	1/2.9"	
Resolution	1440 × 1080	
Max. frame rate	78.2 fps @ 1440 × 1080 Mono 8 180 fps @ 1440 × 1080 Mono 8 (PRO + MAX: lossless compression mode enabled)	78.2 fps @ 1440 × 1080 Bayer GB 8 180 fps @ 1440 × 1080 Bayer GB 8 (PRO + MAX: lossless compression mode enabled)
Dynamic range	68.5 dB	68.3 dB
SNR	44 dB	
Gain	0 dB to 24 dB	
Exposure time	23 μs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode, supports Trigger Width and Trigger Controlled	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10Packed/12/12Packed	Mono 8, Bayer GB 8/10/10Packed/12/12Packed, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
Binning	Supports 1 × 1, 2 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2, 4 × 4	
Reverse image	Supports horizontal and vertical reverse image output	
Electrical features		
Data interface	Gigabit Ethernet (1000 Mbit/s), compatible with Fast Ethernet (100 Mbit/s)	
Data interface type	BASE: RJ45 connector PRO + MAX: 8-pin M12 X-Code waterproof aviation connector	
Control interface	BASE + PRO: Not supported MAX: 8-pin M12 A-Code waterproof aviation connector	
Digital I/O	8-pin M8 A-Code aviation connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2).	
Power supply	9 VDC to 24 VDC, supports PoE	
Power consumption	BASE: Typ. 1.4 W @ 12 VDC PRO: Typ. 1.6 W @ 12 VDC (fast heat balance not enabled) MAX: Typ. 1.6 W @ 24 VDC (fast heat balance not enabled and external device not be controlled)	BASE: Typ. 1.4 W @ 12 VDC PRO: Typ. 1.6 W @ 12 VDC (fast heat balance not enabled) MAX: Typ. 1.7 W @ 24 VDC (fast heat balance not enabled and external device not be controlled)

Mechanical	
Lens mount	C-mount
Dimension	BASE + PRO: 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7") MAX: 42 mm × 42 mm × 43 mm (1.7" × 1.7" × 1.7")
Weight	BASE: Approx. 116 g (0.3 lb.) PRO: Approx. 124 g (0.3 lb.) MAX: Approx. 120 g (0.3 lb.)
Ingress protection	BASE: IP40 (under proper lens installation and wiring) PRO + MAX: IP67 (under proper lens and lens cap installation and wiring)
Temperature	Working temperature: –30 °C to 60 °C (–22 °F to 140 °F) Storage temperature: –30 °C to 80 °C (–22 °F to 176 °F)
Humidity	20% RH to 95% RH (no condensation)
General	
Client software	MVS or third-party software meeting with GigE Vision Protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux
Compatibility	GigE Vision V2.0, GenICam
Certification	CE, RoHS, KC

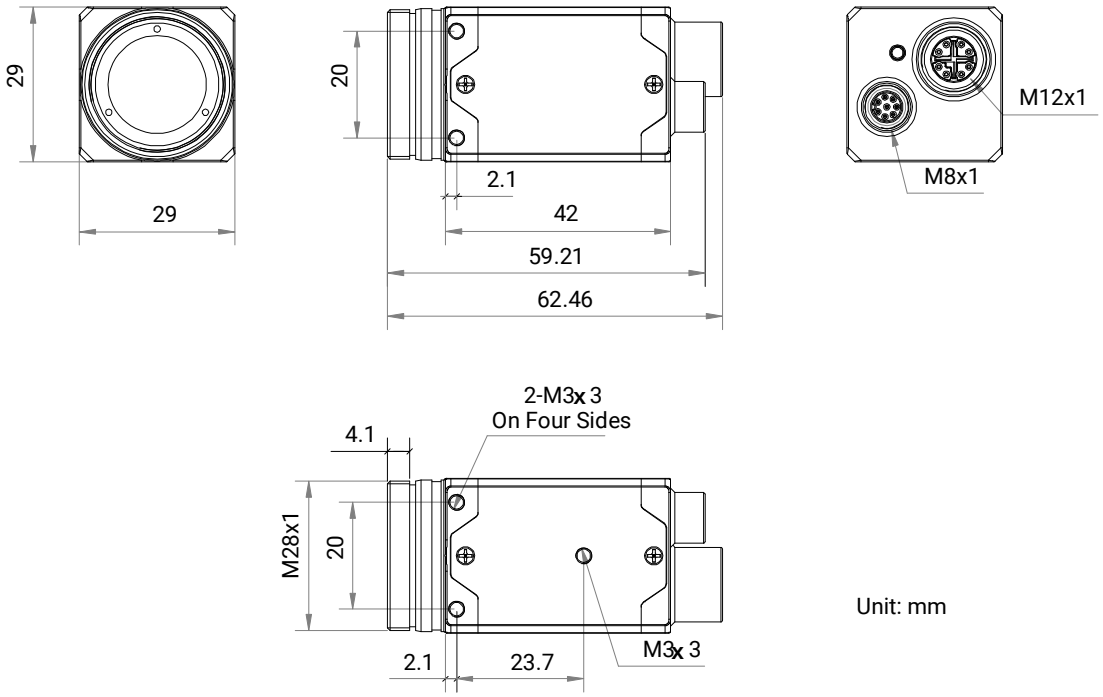
Dimension

BASE



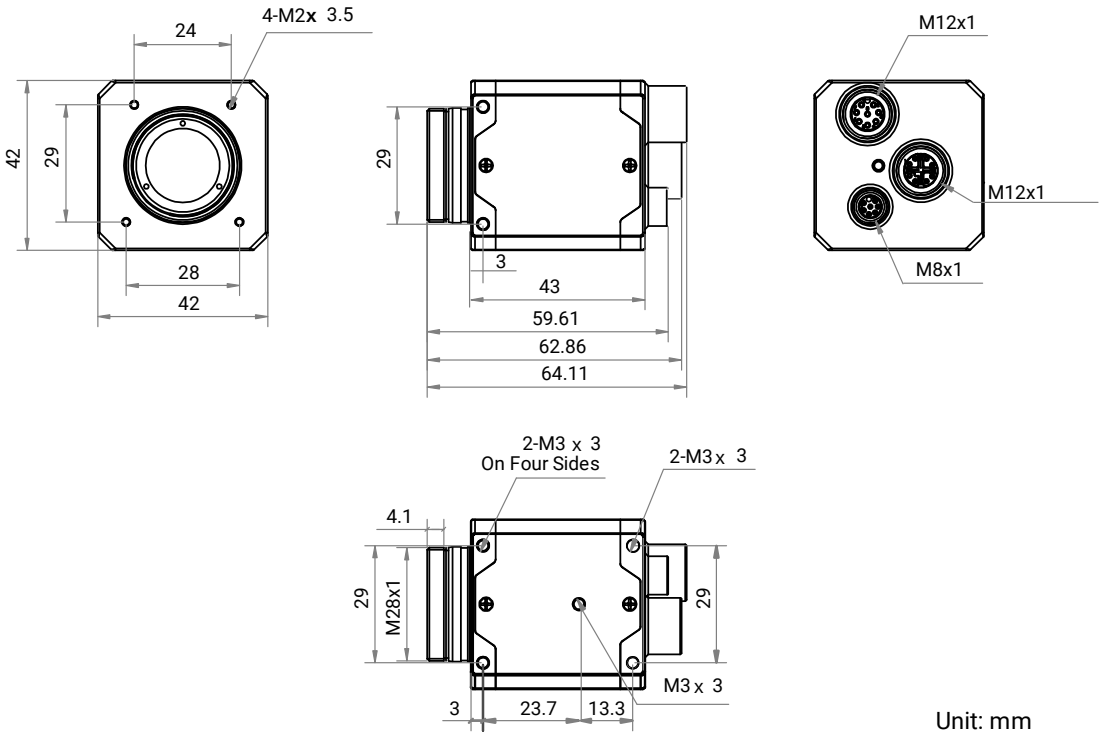
Unit: mm

PRO



Unit: mm

MAX



Unit: mm

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