MV-CS050-60GM/GC/GN

5 MP 2/3" CMOS GigE Area Scan Camera



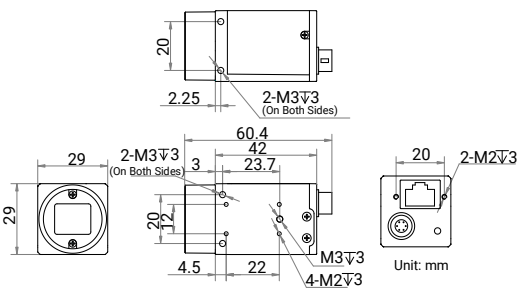
Introduction

With GigE interface, MV-CS050-60GM/GC/GN camera adopts CMOS global sensor to provide high-quality images and transmit images in real time, and its max. frame rate can reach 23 fps in full resolution.

Key Feature

- Adopts brand new design to reduce power consumption.
- Supports auto or manual adjustment of gain, exposure time, white balance, LUT, Gamma correction, etc., and supports Sequencer function.
- Supports ISP functions like CCM, Super Palette, and Super Bayer to provide high-quality images.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- 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.

Dimension



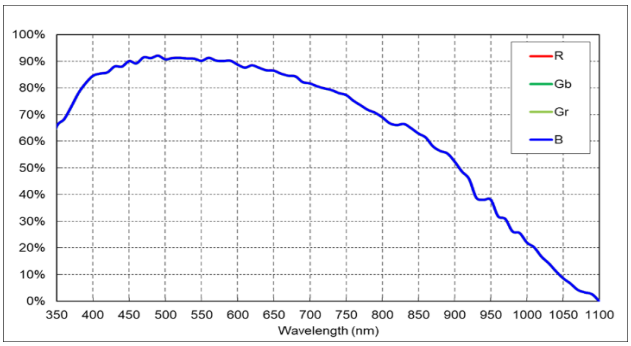
Available Model

- Mono camera: MV-CS050-60GM
- Color camera: MV-CS050-60GC
- NIR camera: MV-CS050-60GN

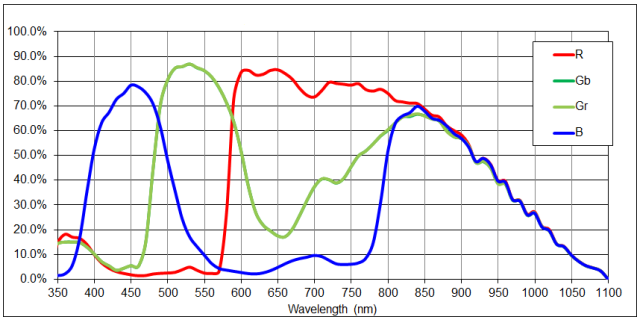
Applicable Industry

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

Sensor Quantum Efficiency



MV-CS050-60GM/GN



MV-CS050-60GC

Specification

Model	MV-CS050-60GM	MV-CS050-60GC	MV-CS050-60GN
Performance			
Sensor type	CMOS, global shutter		
Sensor model	Stacked BSI		
Pixel size	3.45 μm × 3.45 μm		
Sensor size	2/3"		
Resolution	2448 × 2048		
Max. frame rate	23 fps @ 2448 × 2048 Mono 8	23 fps @ 2448 × 2048 Bayer GR 8	23 fps @ 2448 × 2048 Mono 8
Dynamic range	73.9 dB		
SNR	42.4 dB		
Gain	0 dB to 24 dB		
Exposure time	High full well capacity: 30 μs to 10 sec High sensitivity: 5 μs to 10 sec		
Exposure mode	Off/Once/Continuous exposure mode		
Mono/color	Mono	Color	Near IR
Pixel format	Mono 8/10/10Packed /12/12Packed	Mono 8/10/12, Bayer GR 8/10/10Packed/12/12Packed, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8	Mono 8/10/10Packed /12/12Packed
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)		
Digital I/O	6-pin P7 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	Typ. 2.3 W @ 12 VDC	Typ. 2.5 W @ 12 VDC	Typ. 2.3 W @ 12 VDC
Mechanical			
Lens mount	C-mount		
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")		
Weight	Approx. 100 g (0.2 lb.)		
Ingress protection	IP40 (under proper lens 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 7/10/11, 32/64-bit Linux		
Compatibility	GigE Vision V2.0, GenICam		
Certification	CE, RoHS, KC		

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