

MV-CS020-61GM/GC

2 MP 1/1.7" CMOS GigE Area Scan Camera



GEN*i*CAM

GigE
VISION

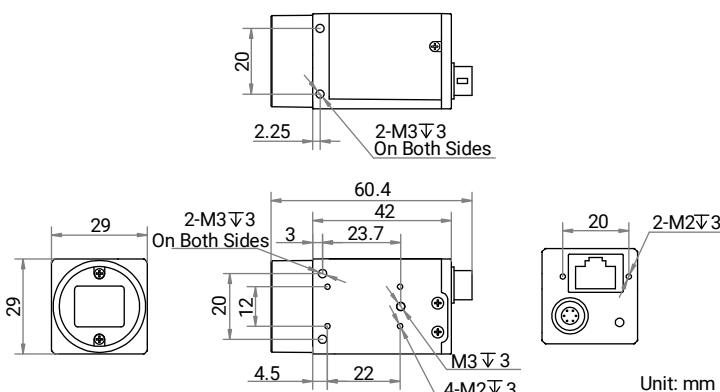
Introduction

MV-CS020-61GM/GC camera adopts CMOS global sensor to provide high-quality images and transmit images in real time, and its max. frame rate can reach 60.7 fps in full resolution.

Key Feature

- Adopts brand new design to reduce power consumption.
- Supports Sequencer, contrast, and super palette functions.
- Supports hardware trigger mode, software trigger mode, and free run.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

Dimension



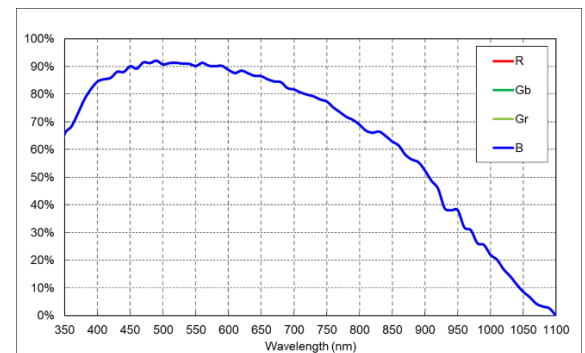
Available Model

- Mono camera: MV-CS020-61GM
- Color camera: MV-CS020-61GC

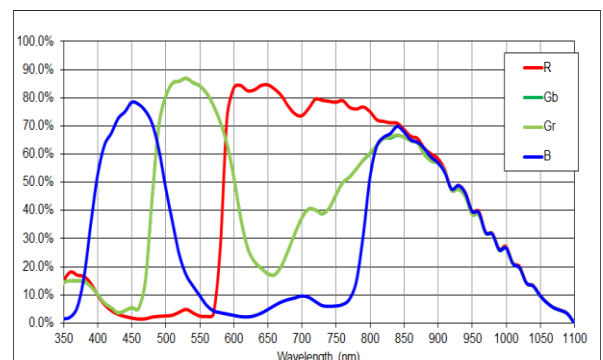
Applicable Industry

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

Sensor Quantum Efficiency



MV-CS020-61GM



MV-CS020-61GC

Specification

Model	MV-CS020-61GM	MV-CS020-61GC
Camera		
Sensor type	CMOS, global shutter	
Sensor model	Stacked BSI	
Pixel size	4.5 μm × 4.5 μm	
Sensor size	1/1.7"	
Resolution	1624 × 1240	
Max. frame rate	60.7 fps @ 1624 × 1240 Mono 8	60.7 fps @ 1624 × 1240 Bayer GR 8
Dynamic range	76.1 dB	75.4 dB
SNR	44.8 dB	44.6 dB
Gain	High full well capacity: 0 dB to 12.8 dB High sensitivity: 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
Pixel format	Mono 8/10/10Packed/12/12Packed	Mono 8 Bayer GR 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)	
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. 1.6 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, 64-bit Windows 11 and 32/64-bit Linux	
Compatibility	GigE Vision V2.0, GenICam	
Certification	CE, RoHS, KC	