

MV-CS120-60GM/GC V5

12 MP 1/1.56" CMOS GigE Area Scan Camera



GEN*i*CAM

GigE
VISION

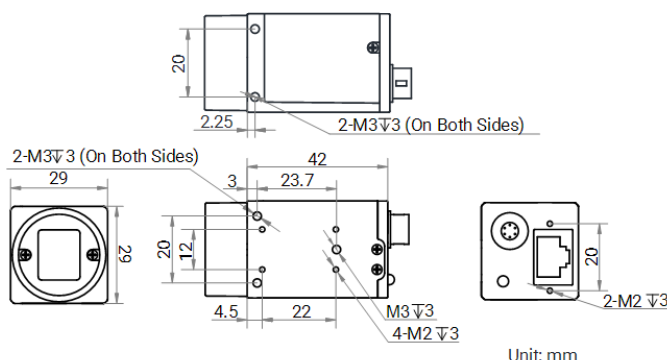
Introduction

With GigE interface, MV-CS120-60GM/GC V5 camera adopts Stacked BSI rolling shutter sensor to transmit non-compressed images in real time, and its max. frame rate can reach 9.9 fps.

Key Features

- Provides optimized hardware design, stable performance, and low power consumption.
- Supports auto or manual adjustment of gain, exposure time, etc.
- Supports hardware triggers, software triggers, and anyway mode.
- 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



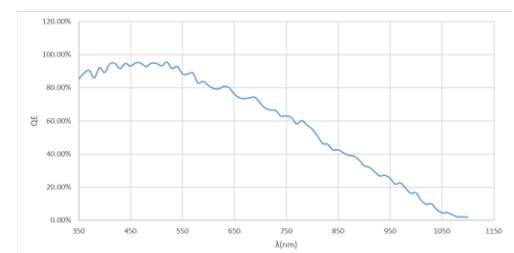
Available Model

- Mono camera: MV-CS120-60GM V5
- Color camera: MV-CS120-60GC V5

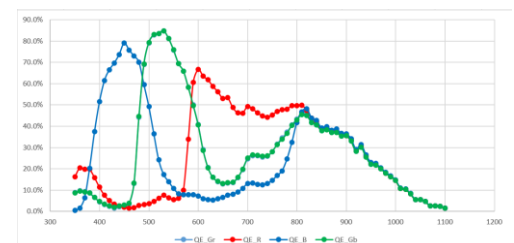
Applicable Industry

Electric semiconductor, factory automation, logistic code reading, pharmaceutical packaging, etc.

Sensor Quantum Efficiency



MV-CS120-60GM V5



MV-CS120-60GC V5

Specification

Model	MV-CS120-60GM V5	MV-CS120-60GC V5
Camera		
Sensor type	CMOS, rolling shutter	
Sensor model	Stacked BSI	
Pixel size	2.0 μm × 2.0 μm	
Sensor size	1/1.56"	
Resolution	4096 × 3024	
Max. frame rate	9.9 fps @ 4096 × 3024 Mono 8	9.9 fps @ 4096 × 3024 Bayer BG 8
Dynamic range	68.5 dB	
SNR	38.9 dB	
Gain	0 dB to 24 dB	
Exposure time	53 μs to 1.9 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10Packed/12/12Packed	Mono 8 Bayer BG 8/10/10Packed/12/12Packed, YUV422_8/YUV422_8_YUYV, 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. 1.4 W @ 12 VDC	Typ. 1.5 W @ 12 VDC
Mechanical		
Lens mount	C-mount	
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")	
Weight	Approx. 99.2 g (0.2 lb.)	
Ingress protection	IP40 (under proper lens installation and wiring)	
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °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	