

MV-CS050-60GM/GC/GN V5

5 MP GigE Area Scan Camera



GEN*i*CAM

GigE
VISION

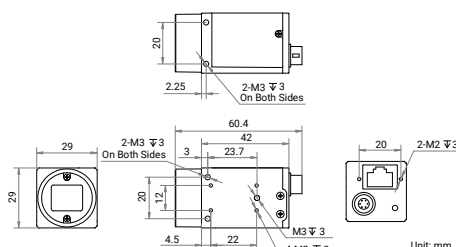
Introduction

MV-CS050-60GM/GC/GN V5 camera adopts stacked BSI sensor to provide high-quality images. It uses GigE interface to transmit images in real time, and its max. frame rate can reach 24.4 fps in full resolution.

Key Features

- 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.
- Color camera supports ISP functions like CCM, Super Palette, and Super Bayer to provide high-quality images.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- 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



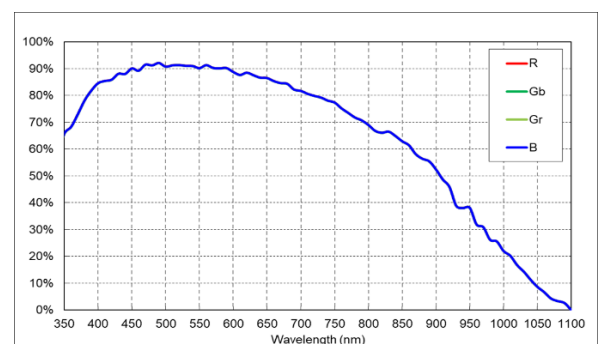
Available Model

- Mono camera: MV-CS050-60GM V5
- Color camera: MV-CS050-60GC V5
- Near-infrared camera: MV-CS050-60GN V5

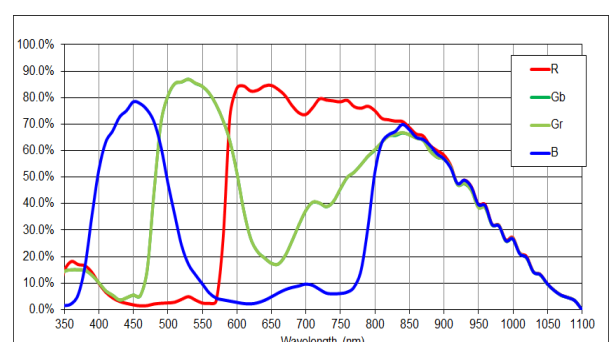
Applicable Industry

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

Sensor Quantum Efficiency



MV-CS050-60GM/GN V5



MV-CS050-60GC V5

Model	MV-CS050-60GM V5		MV-CS050-60GC V5	MV-CS050-60GN V5
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	24.4 fps @ 2448 × 2048 Mono 8	24.4 fps @ 2448 × 2048 Bayer GR 8		24.4 fps @2448 × 2048 Mono 8
Dynamic range	73.9 dB			
SNR	42.4 dB			
Gain	High full well capacity: 0 dB to 12.8 dB High sensitivity: 0 dB to 24 dB			High full well capacity: 0 dB to 7.9 dB High sensitivity: 0 dB to 24 dB
Exposure time	High full well capacity: 45 μs to 10 sec High sensitivity: 5 μs to 10 sec			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-infrared
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		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. 1.4 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			