

MV-CH090-60GM V5

9 MP 2/3" CMOS GigE Area Scan Camera



GEN< i >CAM

GIG E
VISION

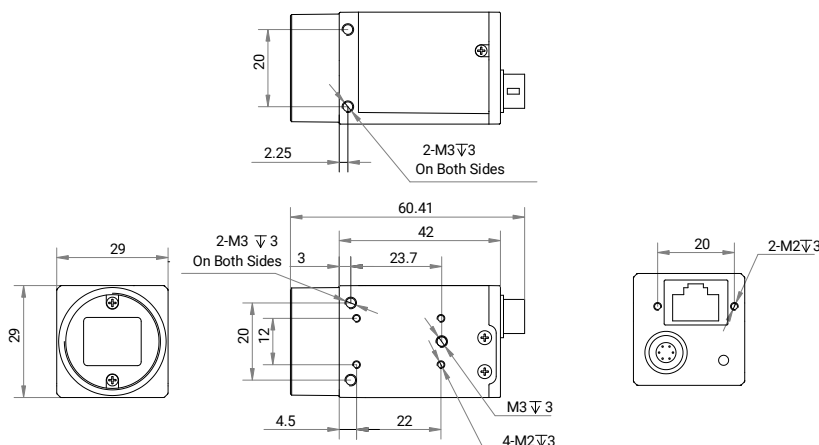
Introduction

MV-CH090-60GM V5 camera adopts CMOS sensor to provide high-quality images. It uses GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 13.5 fps in full resolution.

Key Feature

- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Supports auto or manual adjustment of gain and exposure time, and LUT and Gamma correction function.
- Supports LSC, Sequencer, passive transmission, etc.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

Dimension



Unit: mm

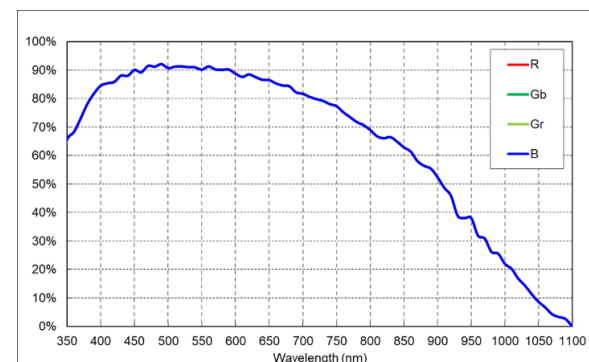
Available Model

- Mono camera: MV-CH090-60GM V5

Applicable Industry

Electronic semiconductor, factory automation, logistics code reading, medicine packing, etc.

Sensor Quantum Efficiency



MV-CH090-60GM V5

Model	MV-CH090-60GM V5
Performance	
Sensor type	CMOS, global shutter
Sensor model	Stacked BSI
Pixel size	2.5 μm $\times$ 2.5 μm
Sensor size	2/3"
Resolution	4200 $\times$ 2160
Max. frame rate	13.5 fps @ 4200 $\times$ 2160 Mono 8
Dynamic range	67.2 dB
SNR	44.1 dB
Gain	0 dB to 12 dB
Exposure time	Standard exposure mode: 20 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode, supports TriggerWidth
Mono/color	Mono
Pixel format	Mono 8/10/10Packed/12/12Packed
Binning	Supports 1 $\times$ 1, 2 $\times$ 2
Decimation	Supports 1 $\times$ 1, 2 $\times$ 2
Reverse image	Supports horizontal and vertical reverse image output
Electrical feature	
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 $\times$ 1 (Line 0), opto-isolated output $\times$ 1 (Line 1), bi-directional non-isolated I/O $\times$ 1 (Line 2).
Power supply	9 VDC to 24 VDC, supports PoE
Power consumption	Typ. 1.8 W @ 12 VDC
Mechanical	
Lens mount	C-mount
Dimension (without lens)	29 mm $\times$ 29 mm $\times$ 42 mm (1.1" $\times$ 1.1" $\times$ 1.7")
Weight	Approx. 100 g (0.2 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: -10 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (14 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)
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