

MV-CH160-60GM

16MP1.1"CMOSGigEAreaScanCamera



GEN< i >CAM

GigE
VISION

Introduction

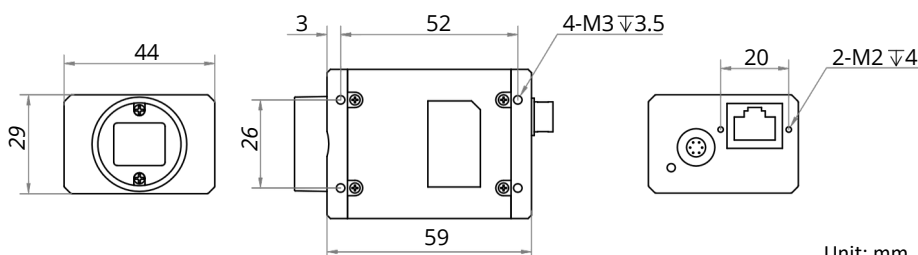
MV-CH160-60GM camera adopts CMOS sensor to provide high-quality images. It uses GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 7.25 fps in full resolution.

Key Feature

- Resolution of 4000 × 4000, pixel size of 3.2 μm × 3.2 μm.
- Adopts GigE interface and max. transmission distance of 100 meters without relay. Easy and flexible installation, with mounting holes on both its top and bottom panels. Compatible with GigE Vision V2.0 Protocol, GenICam
- Standard, and third-party software based on the protocol

and standard.

Dimension



Unit: mm

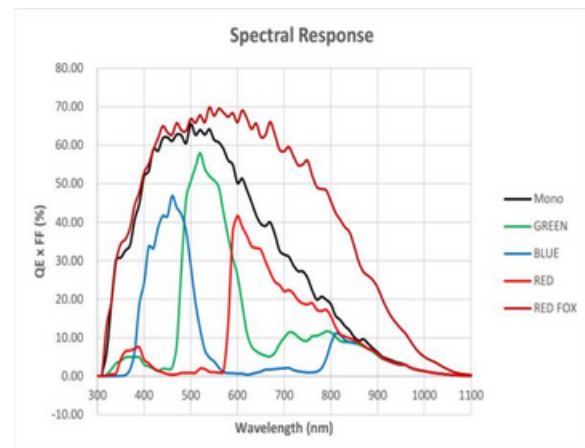
Available Model

MV-CH160-60GM

Applicable Industry

Lithium battery, SMT/PCB AOI, FPD, railway related applications, etc.

Sensor Quantum Efficiency



Specification

Model	Camera	MV-CH160-60GM
Sensor	type	
Sensor	model	CMOS, global shutter
Pixel size	Sensor	HK
size	Resolution	3.2 μm $\times$ 3.2 μm
Max. frame rate		1.1"
Dynamic range		4000 $\times$ 4000
SNR	Gain	7.25 fps @ 4000 $\times$ 4000
Exposure time		65 dB
Exposure mode		38 dB
Mono/color	Pixel	6 dB to 14 dB
format	Binning	12 μs to 10 sec
Decimation		Off/Once/Continuous exposure mode
Reverse image		Mono
Electrical feature		Mono 8/10/12
Data interface		Supports 1 $\times$ 1, 2 $\times$ 2, 4 $\times$ 4
Digital I/O		Supports 1 $\times$ 1, 2 $\times$ 2, 4 $\times$ 4
		Supports horizontal and vertical reverse image output
		Gigabit Ethernet (1000 Mbit/s), compatible with Fast Ethernet (100 Mbit/s)
		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 26 VDC, supports PoE
Power consumption		Typ. 3.72 W @ 12 VDC
Mechanical		
Lens mount		C-mount
Dimension		29 mm $\times$ 44 mm $\times$ 59 mm (1.1" $\times$ 1.7" $\times$ 2.3")
Weight		Approx. 100 g (0.2 lb.)
Ingress protection		IP30 (under proper lens installation and wiring)
Temperature		Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)
Humidity		20% RH to 80% 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