MV-CH250-90GM/C/N V4

25 MP 1.1"CMOS GigE Area Scan Camera

Introduction

MV-CH250-90GM/GC/GN V4 camera adopts Gpixel GMAX0505 to provide high-quality images. It uses GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 4.5 fps in full resolution.

Available Model

Mono camera: MV-CH250-90GM V4
Color camera: MV-CH250-90GC V4
NIR camera: MV-CH250-90GN V4

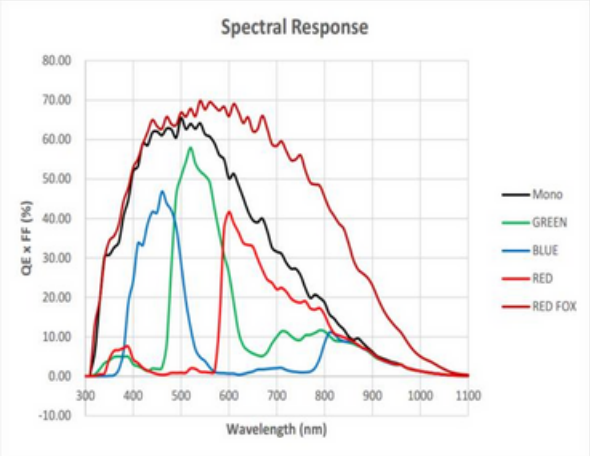
Key Feature

- Resolution of 5120 × 5120, pixel size of 2.5 μm × 2.5 μm.
- Supports binning, reverse image output and LSC. Compatible with C-mount lenses. Easy and flexible installation, with mounting holes on both panels of the camera. Adopts GigE interface and max. transmission distance of 100 meters without relay. Supports hardware trigger, software trigger, free run, etc. Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol standard.

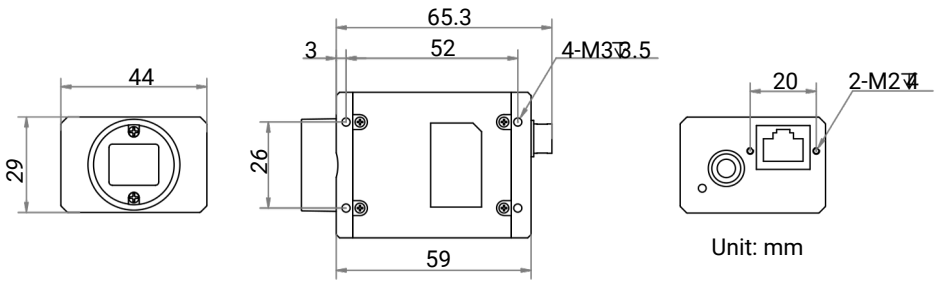
Applicable Industry

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

Sensor Quantum Efficiency



Dimension



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Specification

Model	MV-CH250-90GM V4	MV-CH250-90GN V4	MV-CH250-90GC V4
Performance			
Sensor type	CMOS, global shutter Gpixel		
Sensor model	GMAX0505 2.5 μm × 2.5 μm 1.1" 5120		
Pixel size	× 5120 4.5 fps @ 5120 × 5120 Mono 8		
Sensor size	63 dB 36 dB 0 dB to 24 dB 12 μs to 10		
Resolution Max.	sec Off/Once/Continuous exposure		
frame rate	mode		4.5 fps @ 5120 × 5120 Bayer BG 8
Dynamic range			
SNR Gain			
Exposure time			
Exposure mode			
Mono/color			
Pixel format	Mono	NIR	Color
	Mono 8/10/10Packed/12/12Packed		Mono 8/10/12, Bayer BG 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 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 × 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. 3.1 W @ 12 VDC		Typ. 3.2 W @ 12 VDC
Mechanical			
Lens mount	C-mount		
Dimension	29 mm × 44 mm × 59 mm (1.1" × 1.7" × 2.3")		
Weight	Approx. 100 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		

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