

# MV-CH250-90GM/GC/GN

25 MP 1.1" CMOS GigE Area Scan Camera



GEN*i*CAM

GigE  
VISION

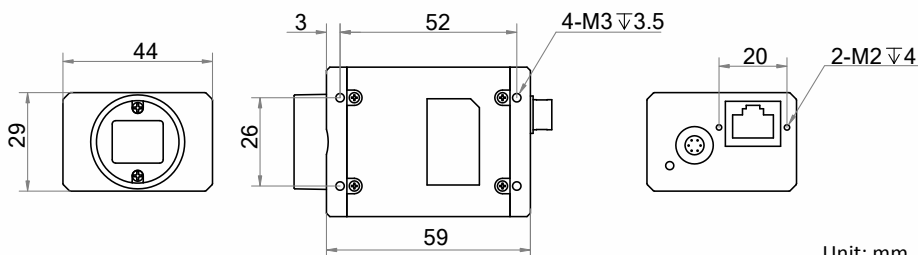
## Introduction

MV-CH250-90GM/GC/GN camera adopts Gpixel GMAX0505 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 4.5 fps in full resolution.

## Key Feature

- Resolution of  $5120 \times 5120$ , pixel size of  $2.5 \mu\text{m} \times 2.5 \mu\text{m}$ .
- Adopts GigE interface and max. transmission distance of 100 meters.
- Supports hardware trigger, software trigger, and free run.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

## Dimension



Unit: mm

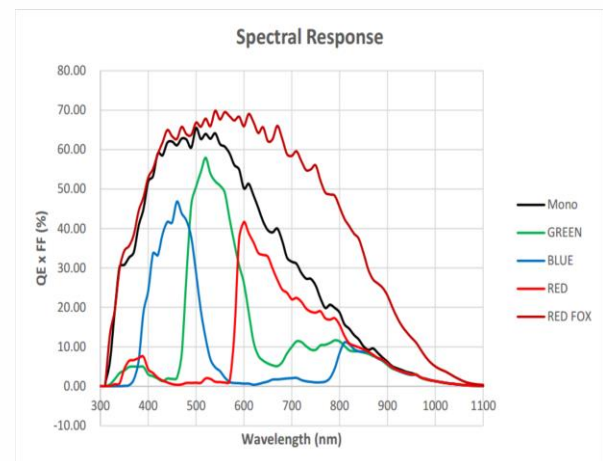
## Available Model

- Mono camera: MV-CH250-90GM
- Color camera: MV-CH250-90GC
- Near-infrared camera: MV-CH250-90GN

## Applicable Industry

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

## Sensor Quantum Efficiency



## Specification

Model	MV-CH250-90GM	MV-CH250-90GC	MV-CH250-90GN
Camera			
Sensor type	CMOS, global shutter		
Sensor model	Gpixel GMAX0505		
Pixel size	2.5 μm × 2.5 μm		
Sensor size	1.1"		
Resolution	5120 × 5120		
Max. frame rate	4.5 fps @5120 × 5120		
Dynamic range	65 dB		
SNR	36 dB		
Gain	Supports 2.0 ×, 2.5 ×, 3.0 ×, 3.5 ×, 4.0 ×, 4.5 ×, 5.0 ×		
Exposure time	12 μs to 10 sec		
Exposure mode	Off/Once/Continuous exposure mode		
Mono/color	Mono	Color	Near-infrared
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer BG 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8	Mono 8/10/10p/12/12p
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, compatible with Fast Ethernet		
Digital I/O	6-pin Hirose 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	12 VDC, supports PoE		
Power consumption	Typ. 3.6 W@12 VDC	Typ. 4.2 W@12 VDC	Typ. 3.6 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	IP30 (under proper lens installation and wiring)		
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)		
Humidity	20% to 80% RH, non-condensing		
General			
Client software	MVS or third-party software meeting with GigE Vision Protocol		
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS		
Compatibility	GigE Vision V2.0, GenICam		
Certification	CE, FCC, RoHS, KC		

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