

# MV-CH250-90VM/VC

25 MP 1.1" CMOS Dual USB 3.0 Area Scan Camera



GEN<I>CAM

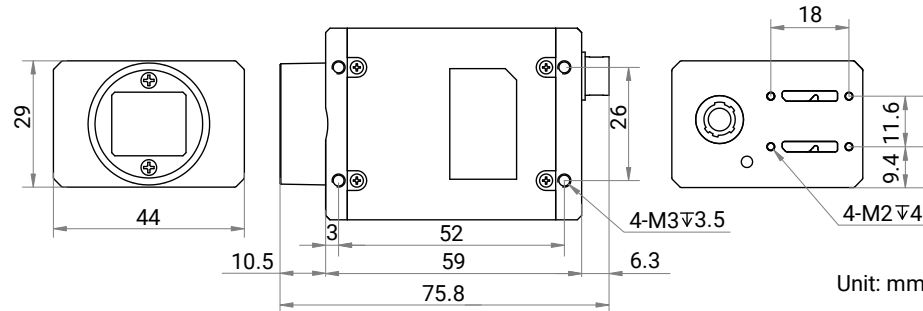
## Introduction

MV-CH250-90VM/VC camera adopts Gpixel GMAX0505 CMOS sensor to provide high-quality images. It uses dual USB 3.0 interfaces to transmit images in real time, and its max. frame rate can reach 30 fps in full resolution.

## Key Feature

- Supports manual adjustment of gain, LUT, Gamma correction, etc.
- Adopts dual USB 3.0 interfaces to transmit data.
- Supports hardware trigger, software trigger, and free run.
- Supports flexible installation via the installation holes.
- Adopts compact design for small spatial installation.
- Compatible GenICam Standard.

## Dimension



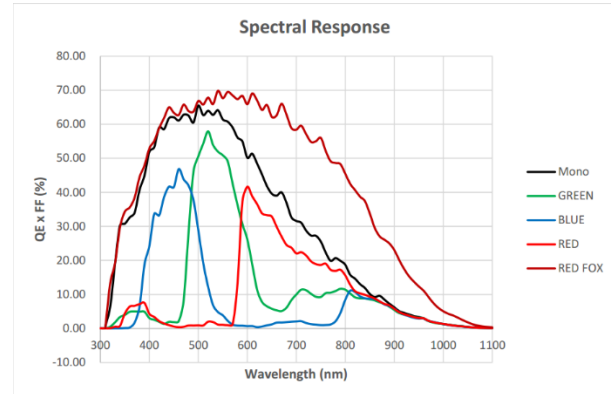
## Available Model

- Mono camera: MV-CH250-90VM
- Color camera: MV-CH250-90VC

## Applicable Industry

SMT/PCB AOI, FPD detection, photovoltaics, etc.

## Sensor Quantum Efficiency



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## Specification

Model	MV-CH250-90VM	MV-CH250-90VC
Performance		
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	30 fps @5120 × 5120 Mono 8	30 fps @5120 × 5120 Bayer BG 8
Dynamic range	65 dB	
SNR	40 dB	
Gain	2.0 x to 5.0 x	
Exposure time	UltraShort exposure mode: 1 μs to 8 μs Standard exposure mode: 9 μs to 10 sec	UltraShort exposure mode: 2 μs to 8 μs Standard exposure mode: 9 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	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 features		
Data interface	USB 3.0, compatible with USB 2.0	
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 USB 3.0 power supply	
Power consumption	Typ. 4.8 W @ 5 VDC (dual USB 3.0 interfaces provide power supply)	Typ. 5.5 W @ 5 VDC (dual USB 3.0 interfaces provide power supply)
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: −10 °C to 40 °C (14 °F to 104 °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	
Operating system	32/64-bit Windows XP/7/10/11	
Compatibility	GenICam	
Certification	CE, RoHS, KC	

