

MV-CH250-90TM/TC V2

25 MP 10 GigE Area Scan Camera



GEN< i >CAM

10GiGE
VISION

Introduction

MV-CH250-90TM/TC V2 camera adopts Gpixel GMAX0505 CMOS sensor to provide high-quality image. It uses 10 GigE interface to transmit non-compressed image in real time, and its max. frame rate can reach 41.6 fps in full resolution.

Key Features

- Resolution of 5120 × 5120, pixel size of 2.5 μm × 2.5 μm.
- Compatible with C-mount lenses to reduce costs.
- Adopts 10 GigE interface, compatible with GigE.
- Mounting holes on panels for flexible installation.

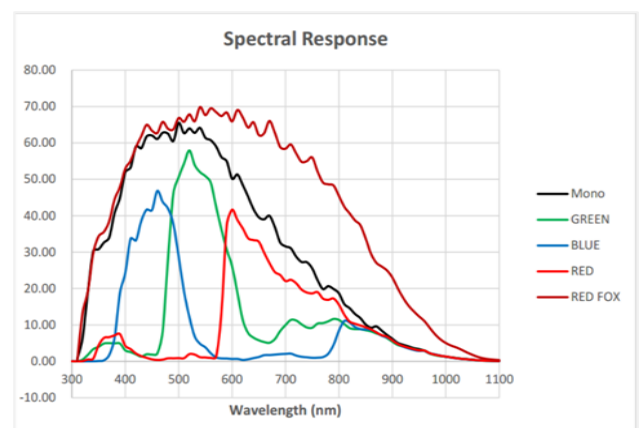
Applicable Industry

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

Available Model

- C-mount with fan, mono: MV-CH250-90TM-C-NF V2
- M58-mount with fan, mono: MV-CH250-90TM-M58S-NF V2
- C-mount with fan, color: MV-CH250-90TC-C-NF V2
- M58-mount with fan, color: MV-CH250-90TC-M58S-NF V2

Sensor Quantum Efficiency

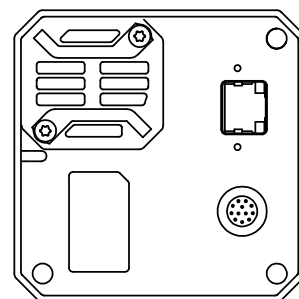
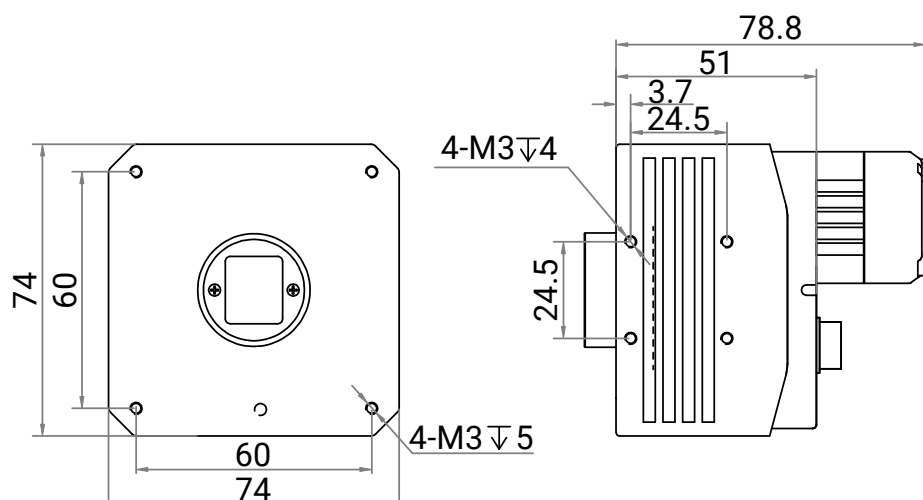


Specification

Model	MV-CH250-90TM V2		MV-CH250-90TC V2
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	41.6 fps @ 5120 × 5120 Mono 8	41.6 fps @ 5120 × 5120 Bayer BG 8	
Dynamic range	63 dB		
SNR	36 dB		
Gain	1.0x to 5.0x		
Exposure time	UltraShort exposure mode: 3 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, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4		
Decimation	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4		
Reverse image	Supports horizontal and vertical reverse image output		
Electrical feature			
Data interface	10 Gigabit Ethernet (10000 Mbit/s), compatible with Gigabit Ethernet (1000 Mbit/s)		
Digital I/O	12-pin P10 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), and RS-232 × 1		
Power supply	9 VDC to 24 VDC		
Power consumption	Typ. 9.9 W @ 12 VDC	Typ. 10.5 W @ 12 VDC	
Mechanical			
Lens mount	C-mount M58*0.75, flange back length 11.48 mm		
Dimension	74 mm × 74 mm × 78.8 mm (2.9" × 2.9" × 3.1")		
Weight	C-mount: Approx. 590 g (1.3 lb.) M58-mount: Approx. 550 g (1.2 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, 32/64-bit Linux		
Compatibility	GigE Vision V2.0, GenICam		
Certification	CE, RoHS, KC		

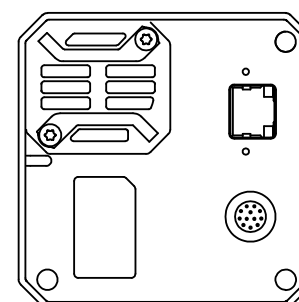
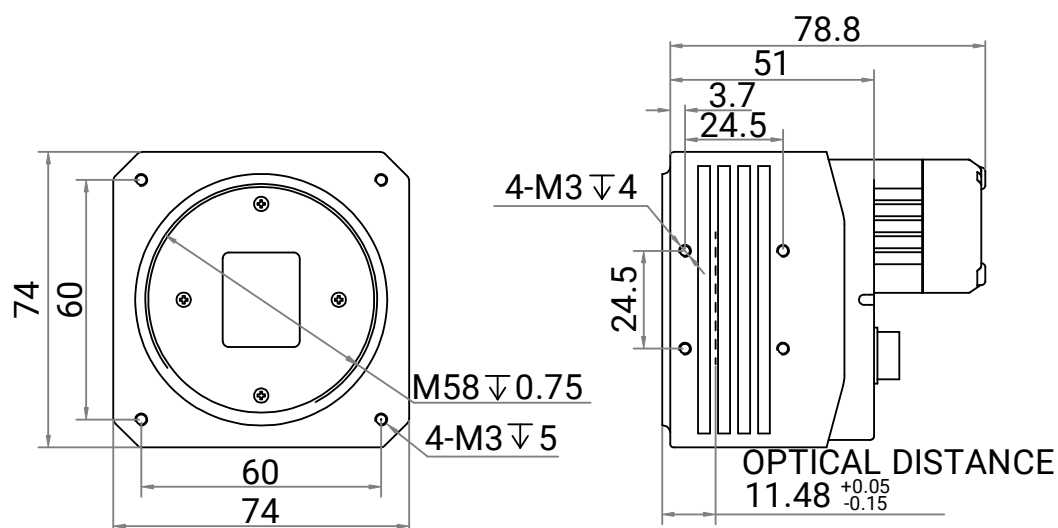
Dimension

C-mount camera:



Unit: mm

M58-mount camera:



Unit: mm