MV-CH250-92TM/TC V2

25 MP 1.1" 10 GigE Area Scan Camera

Introduction

MV-CH250-92TM/TC V2 camera adopts Gpixel GMAX0505 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 41.5 fps in full resolution.

Key Features

- Resolution of 5120 × 5120, pixel size of 2.5 μm × 2.5 μm.
- Compatible with C-mount lens.
- Adopts 10 GigE interface providing maximum transmission distance of 100 meters.
- Mounting holes on panels for flexible installation.
- Compatible with GigE Vision Protocol V2.0, GenICam Standard, and third-party software based on protocols.

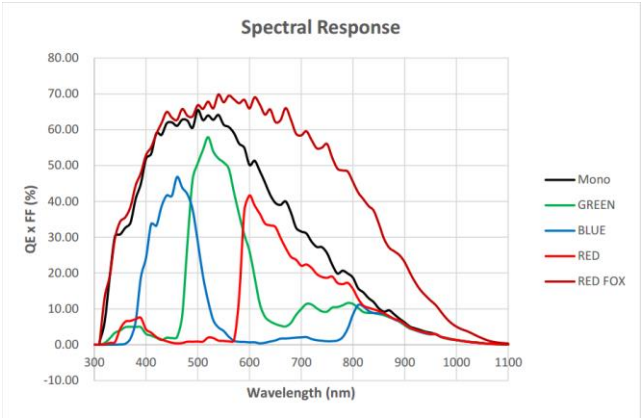
Available Model

- Mono camera: MV-CH250-92TM-C-NF V2
- Color camera: MV-CH250-92TC-C-NF V2

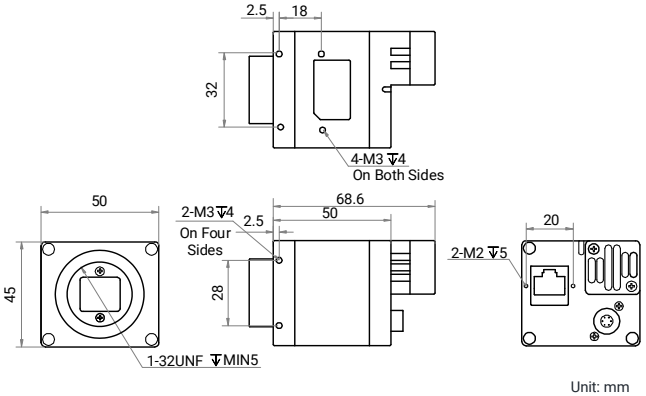
Applicable Industry

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

Sensor Quantum Efficiency



Dimension



Unit: mm

Specification

Model	MV-CH250-92TM V2	MV-CH250-92TC 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	41.5 fps @ 5120 × 5120 Mono 8	41.5 fps @ 5120 × 5120 Bayer BG 8
Dynamic range	63 dB	
SNR	36 dB	
Gain	2.0 x to 5.0 x	
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	Bayer BG 8/10/10Packed/12/12Packed
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	6-pin P7 connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), and bi-directional non-isolated I/O × 1 (Line 2).	
Power supply	9 VDC to 24 VDC	
Power consumption	Typ. 9.1 W @ 12 VDC	Typ. 9.4 W @ 12 VDC
Mechanical		
Lens mount	C-mount	
Dimension	50 mm × 45 mm × 68.6 mm (2.0" × 1.8" × 2.7")	
Weight	Approx. 212 g (0.5 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	

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