HIKROBOT

MV-CH250-90TM/TC

25 MP 1.1" CMOS 10 GigE Area Scan Camera





GEN**(i)**CAM



Introduction

MV-CH250-90TM/TC 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 Feature

- Resolution of 5120 × 5120, pixel size of 2.5 μm × 2.5 μm.
- Adopts 10 GigE interface providing maximum transmission distance of 100 meters.
- Supports adjustment for exposure time, gain, Look-Up Table (LUT), Gamma correction, etc.
- Mounting holes on panels for flexible installation.
- Compatible with GigE Vision Protocol V2.0, GenlCam Standard, and third-party software based on protocols.

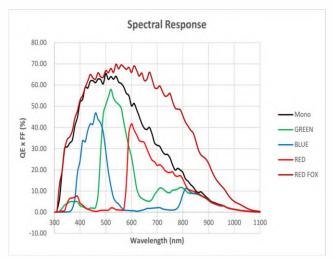
Available Model

- Mono M58-mount with fan: MV-CH250-90TM-M58S-NF
- Color M58-mount with fan: MV-CH250-90TC-M58S-NF
- Color C-mount with fan: MV-CH250-90TC-C-NF

Applicable Industry

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

Sensor Quantum Efficiency



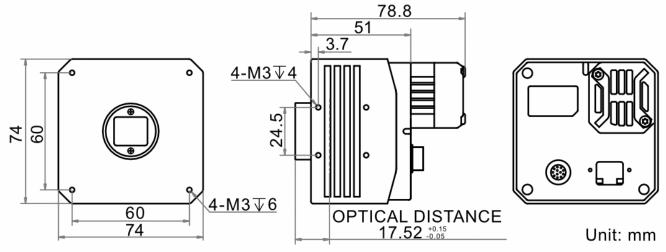
Specification

Model	MV-CH250-90TM	MV-CH250-90TC
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	41.5 fps @5120 × 5120	
Dynamic range	63 dB	
SNR	36 dB	
Gain	2.0x to 5.0x	
Exposure time	13 µs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
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
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, compatible with Gigabit Ethernet	
Digital I/O	12-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), and RS-232 ×	
	1	
Power supply	9 VDC to 24 VDC	
Power	Typ. 9.7 W@12 VDC	Typ. 10.0 W@12 VDC
consumption	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,
Mechanical		
Lens mount	C-mount, optical back focal length 17.52 mm (0.7")	
	M58-mount, optical back focal length 11.48 mm (0.5")	
Dimension	74 mm × 74 mm × 78.8 mm (2.9" × 2.9" × 3.1")	
Weight	C-mount camera: approx. 590 g (1.3 lb.)	
	M58-mount camera: 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 70 °C (-22 °F to 158 °F)	
Humidity	20% to 95% RH, non-condensing	
Client software	MVS or third-party software meeting with GigE Vision Protocol	
Operating system	32/64-bit Windows XP/7/10	
Compatibility	GigE Vision V2.0, GenlCam	
Certification	CE, RoHS, KC	

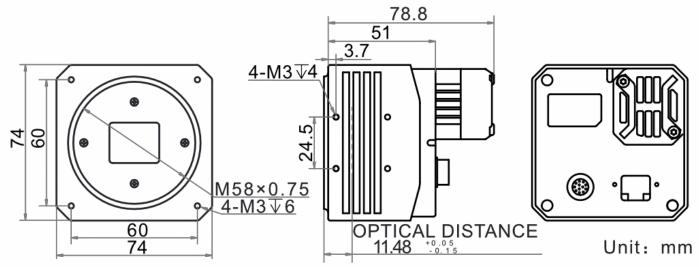
-HIKROBOT

Dimension

C-mount camera:



M58-mount camera:





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