

MV-CH250-90YM

25 MP 1.1" CMOS CoaXPress Area Scan Camera







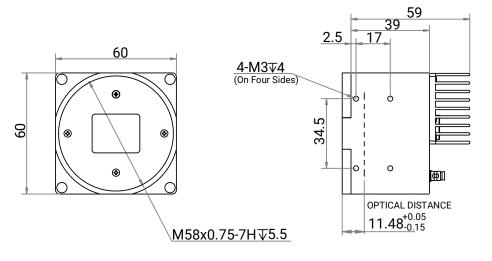
Introduction

MV-CH250-90YM camera adopts Gpixel GMAX0505 sensor to provide high quality image. It uses CXP-12 interface to transmit non-compressed images in real time, and its max. frame rate can reach 150 fps in full resolution.

Key Feature

- Resolution of 5120 × 5120, pixel size of 2.5 μm × 2.5 μm.
- Adopts global shutter CMOS sensor to provide high dynamic range and high-quality image.
- Adopts CXP-12 interface to transmit data.
- Supports Off, Once, and Continuous exposure modes.
- Compatible with CoaXPress Protocol, GenlCam Standard, and third-party software based on the protocol and standard.

Dimension



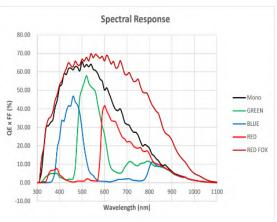
Available Model

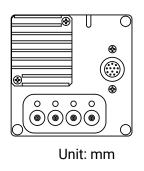
MV-CH250-90YM-M58S-NN (V2.0)

Applicable Industry

Electron semiconductor, PCB AOI, 3D application, motion capture, etc.

Sensor Quantum Efficiency







Specification

Model	MV-CH250-90YM
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	150 fps @5120 × 5120 Mono 8
Dynamic range	63 dB
SNR	36 dB
Gain	2.5 ×
Exposure time	UltraShort exposure mode: 3 µs to 8 µs
	Standard exposure mode: 10 µs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/12
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 features	
Data interface	CoaXPress with micro-BNC interface
Digital I/O	12-pin P10 connector provides power and I/O, including opto-isolated input × 1 (Line 0),
	opto-isolated output \times 1(Line 1), bi-directional non-isolated I/O \times 1 (Line 2), and RS-232 \times 1.
Power supply	12 VDC to 24 VDC, CXP-1 and CXP-2 support PoCXP
Power consumption	Typ. 9.9 W@12 VDC
Mechanical	
Lens mount	M58*0.75, flange focal length 11.48 mm (0.5")
Dimension	60 mm × 60 mm × 59 mm (2.4" × 2.4" × 2.3") (cooling fins are optional)
Weight	Approx. 285 g (0.6 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
General	
Client software	MVS or third-party software meeting with CoaXPress Protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux, 64-bit MacOS
Compatibility	CoaXPress, GenlCam
Certifications	CE, RoHS, KC, UL

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