MV-CH250-90YM/YC

25 MP 1.1" CMOS CoaXPress Area Scan Camera
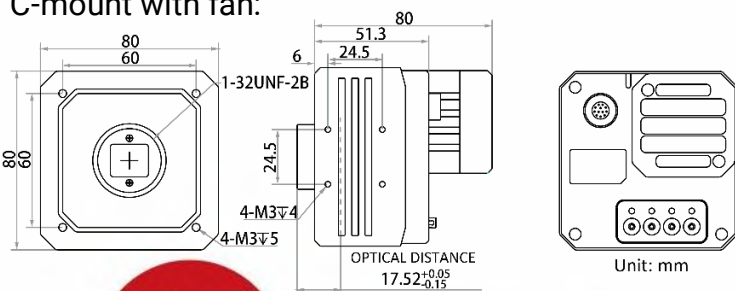

GEN<i>CAM

Introduction

MV-CH250-90YM/YC 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.
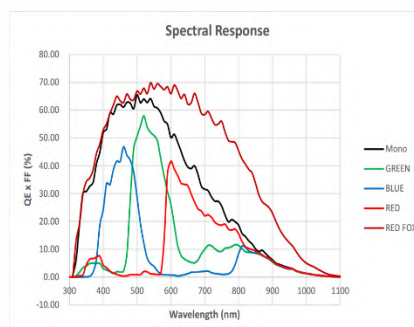
Available Model

- C-mount with fan, mono: MV-CH250-90YM-C-NF
- M58-mount with fan, mono: MV-CH250-90YM-M58S-NF
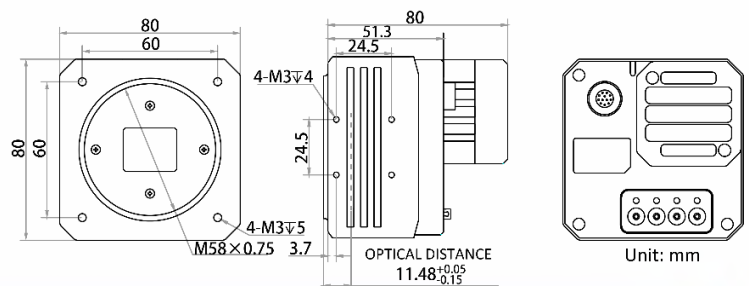- M58-mount with fan, color: MV-CH250-90YC-M58S-NF

Applicable Industry

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

Sensor Quantum Efficiency

Dimension

C-mount with fan:

M58-mount with fan:

Specification

Model	MV-CH250-90YM	MV-CH250-90YC
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	150 fps @5120 × 5120	
Dynamic range	63 dB	
SNR	36 dB	
Gain	2x to 5x	
Exposure time	13 µs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/12	Bayer 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 × 1(Line 1), bi-directional non-isolated I/O × 1 (Line 2), and RS-232 × 1.	
Power supply	12 VDC to 24 VDC, CXP-1 and CXP-2 support PoCXP	
Power consumption	Typ. 13.7 W@12 VDC	
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	C-mount with fan: 80 mm × 80 mm × 80 mm (3.1" × 3.1" × 3.1") M58-mount with fan: 80 mm × 80 mm × 80 mm (3.1" × 3.1" × 3.1")	
Weight	C-mount with fan: approx. 530 g (1.2 lb.) M58-mount with fan: approx. 540 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	
General		
Client software	Frame grabber software meeting with CoaXPress Protocol	
Operating system	32/64-bit Windows 7/10 with 16 GB memory or above	
Compatibility	CoaXPress, GenICam	
Certifications	CE, RoHS, KC	

HIKROBOT