

MV-CH250-90YM/YC

25 MP 1.1" CMOS CoaXPress Area Scan Camera



GEN<i>i</i>CAM

Introduction

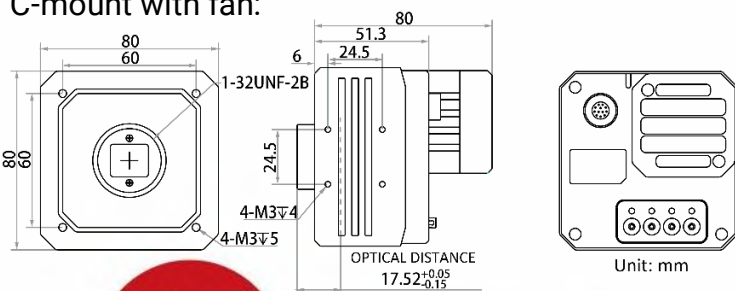
MV-CH250-90YM/YC camera adopts Gpixel GMAX0505 sensor to provide high quality image. It uses CXP-12 interface to transmit non-compressed images in real time, and its max. frame rate can reach 150 fps in full resolution.

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, GenCam Standard, and third-party software based on the protocol and standard.

Dimension

C-mount with fan:



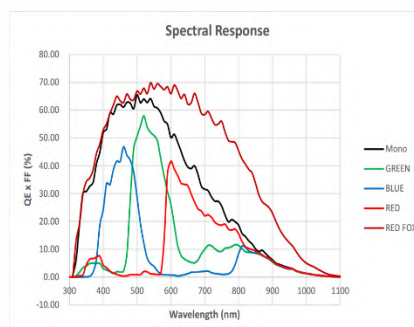
Available Model

- 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

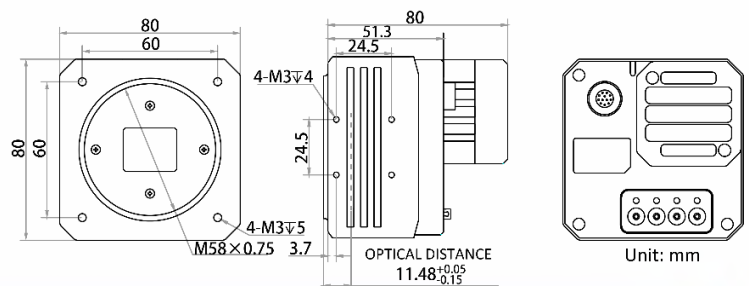
Applicable Industry

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

Sensor Quantum Efficiency



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 \times 2.5 μm	
Sensor size	1.1"	
Resolution	5120 \times 5120	
Max. frame rate	150 fps @5120 \times 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 \times 1, 1 \times 2, 1 \times 4, 2 \times 1, 2 \times 2, 2 \times 4, 4 \times 1, 4 \times 2, 4 \times 4	
Decimation	Supports 1 \times 1, 1 \times 2, 1 \times 4, 2 \times 1, 2 \times 2, 2 \times 4, 4 \times 1, 4 \times 2, 4 \times 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 \times 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. 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 \times 80 mm \times 80 mm (3.1" \times 3.1" \times 3.1") M58-mount with fan: 80 mm \times 80 mm \times 80 mm (3.1" \times 3.1" \times 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 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)	
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

Hangzhou Hikrobot Co., Ltd.
en.hikrobotics.com

© Hangzhou Hikrobot Co., Ltd. All Rights Reserved.

Hangzhou Hikrobot does not tolerate any infringement. Any organization or individual may not imitate or reproduce in whole or in part of the content. The data herein is based on Hikrobot's internal evaluation. Actual data may vary depending on specific configuration and operating condition. The information herein is subject to change without notice. All the content has been checked conscientiously. Nevertheless, Hikrobot shall not be liable to damages resulting from errors, inconsistencies or omissions.