

MV-CH650-90XM/XC

65 MP CMOS CoaXPress Area Scan Camera



GEN*i*CAM

CoaXPress®

Introduction

MV-CH650-90XM/XC camera adopts Gpixel GMAX3265 sensor and CXP-6 interface to provide high-quality and non-compressed images in real time. Its max. frame rate reaches up to 31.5 fps in full resolution.

Key Feature

- Resolution of 9344 × 7000, and pixel size of 3.2 μm × 3.2 μm.
- Adopts global shutter CMOS to provide high dynamic range, SNR, and high-quality image.
- Adopts CXP-6 interface to transmit data.
- Supports Off, Once, and Continuous exposure mode.
- Compatible with CoaXPress Protocol, GeniCam Standard, and third-party software based on the protocol and standard.

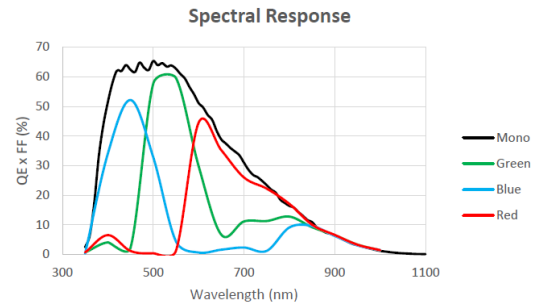
Available Model

- M58-mount with fan, mono: MV-CH650-90XM-M58S-NF
- F-mount with fan, mono: MV-CH650-90XM-F-NF
- M58-mount with fan, color: MV-CH650-90XC-M58S-NF
- F-mount with fan, color: MV-CH650-90XC-F-NF

Applicable Industry

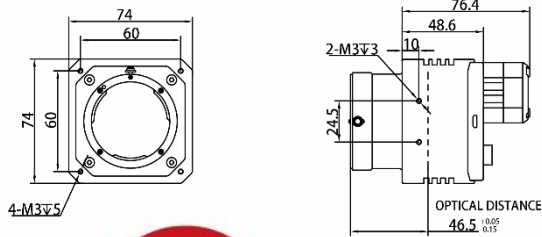
PCB AOI, FPD, high-accuracy measurement, etc.

Sensor Quantum Efficiency

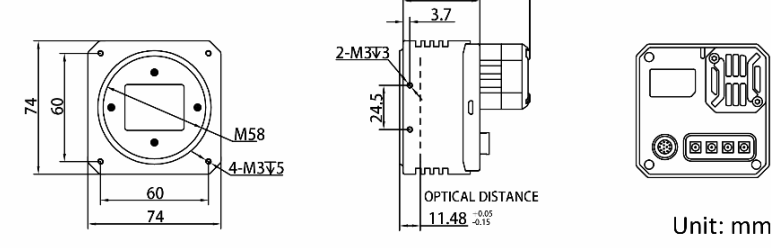


Dimension

F-mount with fan:



M58-mount with fan:



Unit: mm

Unit: mm



Specification

Model	MV-CH650-90XM	MV-CH650-90XC
Camera		
Sensor type	CMOS, global shutter	
Sensor model	Gpixel GMAX3265	
Pixel size	3.2 μm \times 3.2 μm	
Sensor size	29.9 mm \times 22.4 mm	
Resolution	9344 \times 7000	
Max. frame rate	31.5 fps @9344 \times 7000	
Dynamic range	66 dB	
SNR	40 dB	
Gain	1.25x to 6x	
Exposure time	14 μs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/12	Bayer BG 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 DIN interface	
Digital I/O	12-pin Hirose connector provides I/O: 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	9 VDC to 24 VDC	
Power consumption	Typ. 13.4 W@12 VDC	Typ. 14.2 W@12 VDC
Mechanical		
Lens mount	M58-mount: optical back focal length: 11.48 mm (0.5") F-mount: optical back focal length: 46.5 mm (1.8")	
Dimension	M58-mount with fan: 74 mm \times 74 mm \times 70.4 mm (2.9" \times 2.9" \times 2.8") F-mount with fan: 74 mm \times 74 mm \times 76.4 mm (2.9" \times 2.9" \times 3.0")	
Weight	M58-mount with fan: approx. 470 g (1.0 lb.) F-mount with fan: approx. 500 g (1.1 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 8 GB memory or above	
Compatibility	CoaXPress, GenICam	
Certifications	CE, FCC, RoHS, KC	

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