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, GenlCam Standard, and third-party software based on the protocol and standard.
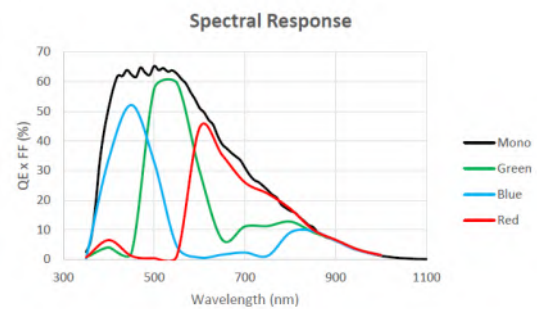
Available Model

- 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
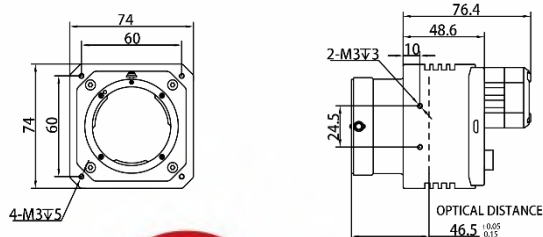- F-mount with fan, color: MV-CH650-90XC-F-NF

Applicable Industry

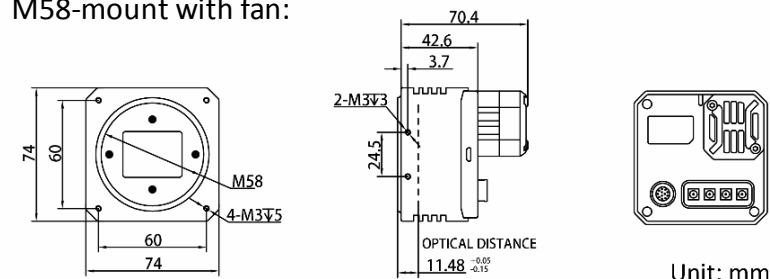PCB AOI, FPD, high-accuracy measurement, etc.

Sensor Quantum Efficiency

Dimension

F-mount with fan:

M58-mount with fan:

Unit: mm

Specification

Model	MV-CH650-90XM	MV-CH650-90XC
Camera		
Sensor type	CMOS, global shutter	
Sensor model	Gpixel GMAX3265	
Pixel size	3.2 μm × 3.2 μm	
Sensor size	29.9 mm × 22.4 mm	
Resolution	9344 × 7000	
Max. frame rate	31.5 fps @9344 × 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 ×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 DIN interface	
Digital I/O	12-pin Hirose connector provides I/O: 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 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 × 74 mm × 70.4 mm (2.9" × 2.9" × 2.8") F-mount with fan: 74 mm × 74 mm × 76.4 mm (2.9" × 2.9" × 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 °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 8 GB memory or above	
Compatibility	CoaXPress, GenICam	
Certifications	CE, FCC, RoHS, KC	