

MV-CH650-90XM

65 MP CMOS CoaXPress Area Scan Camera



GEN*i*CAM

CoaXPress®

Introduction

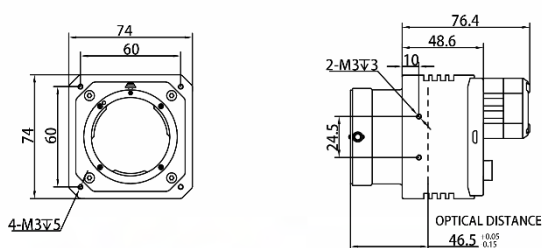
MV-CH650-90XM camera adopts Gpixel GMAX3265 sensor and CoaXPress interface to provide high-quality and non-compressed images in real time. Its max. frame rate reaches up to 31.5 fps in full resolution.

Key Feature

- Resolution of 9216 × 7000, pixel size of 3.2 μm × 3.2 μm
- Adopts global shutter CMOS to provide high dynamic range, SNR, and high-quality image.
- Adopts CoaXPress 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.

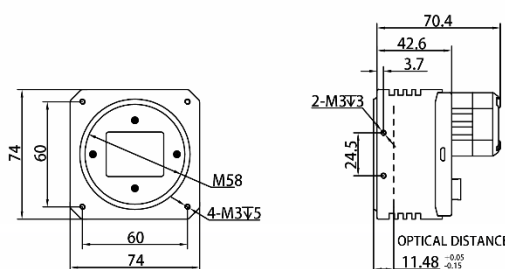
Dimension

F-mount with fan:



Unit: mm

M58-mount with fan:



Unit: mm

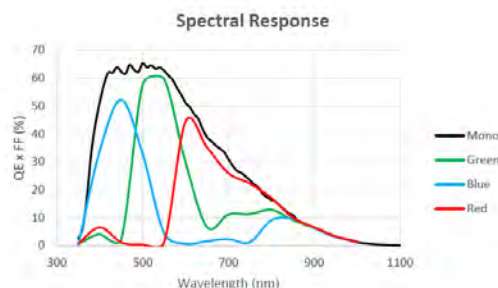
Available Model

- Mono: M58-mount with fan: MV-CH650-90XM-M58S-NF
- Mono: F-mount with fan: MV-CH650-90XM-F-NF

Applicable Industry

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

Sensor Quantum Efficiency



Specification

Model	MV-CH650-90XM
Camera	
Sensor type	Global shutter CMOS
Sensor model	Gpixel GMAX3265
Pixel size	3.2 μm \times 3.2 μm
Sensor size	29.9 mm \times 22.4 mm
Resolution	9216 \times 7000
Max. frame rate	31.5 fps @9216 \times 7000
Dynamic range	66 dB
SNR	40 dB
Gain	1.25x to 6x
Exposure time	14 μs to 10 s
Shutter mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8 /10/12
Binning	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	Not support
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, including opto-isolated input x 1 (Line 0), opto-isolated output x 1 (Line 1), bi-directional non-isolated I/O x 1 (Line 2), and RS232 x 1.
Power supply	9 VDC to 24 VDC
Power consumption	Approx. 12 W@12 VDC
Structure	
Lens mount	F-Mount: optical back focal length 46.5 mm (1.8") M58-Mount: optical back focal length 11.48 mm (0.5")
Dimension	F-Mount: 74 mm \times 74 mm \times 76.4 mm (2.9" \times 2.9" \times 3.0") M58-Mount: 74 mm \times 74 mm \times 70.4 mm (2.9" \times 2.9" \times 2.8")
Weight	F-Mount: Approx. 500 g (1.1 lb.) M58-Mount: Approx. 470 g (1.0 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, without condensation
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

HIKROBOT

Hangzhou Hikrobot Technology Co., Ltd.
No.399 Danfeng Road, Binjiang District, Hangzhou 310051, China.
en.hikrobotics.com

MaxxVision®

Sigmaringer Str. 121
70567 Stuttgart
Tel.: 0711 997 996 3
www.maxxvision.com

Copyright Hikrobot

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