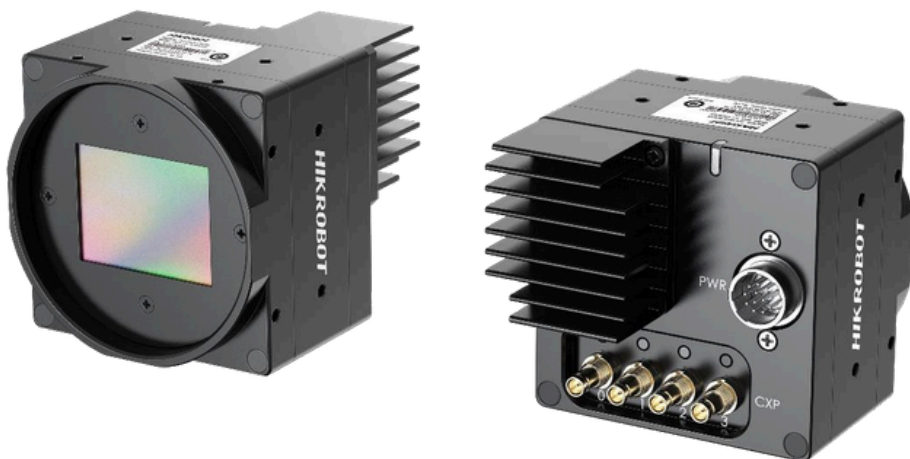


MV-CH650-90YM V2

65MPCMoSCoaXPressAreaScanCamera



GEN*i*CAM

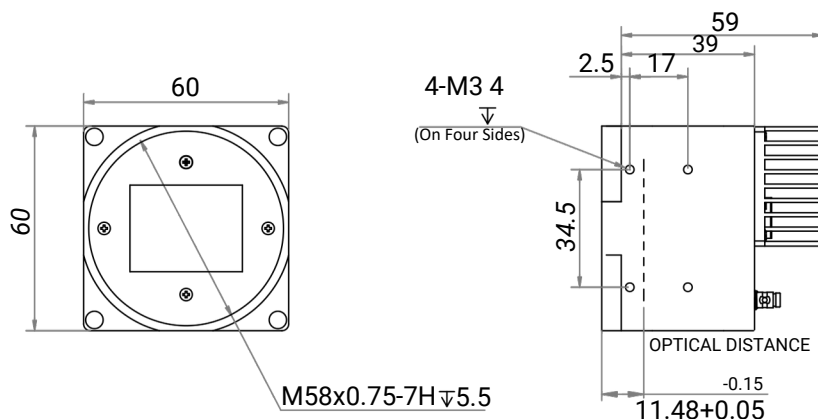
Introduction

MV-CH650-90YM camera adopts Gpixel GMAX3265 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 71 fps in full resolution.

Key Feature

- ☐ Adopts global shutter CMOS to provide high dynamic range, SNR, and high-quality images.
- ☐ Adopts CXP-12 interface to transmit data.
- ☐ Compact design, low power consumption without cooling fan.
- ☐ Compatible with CoaXPress Protocol, GenICam Standard.

Dimension

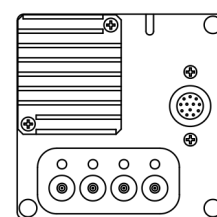
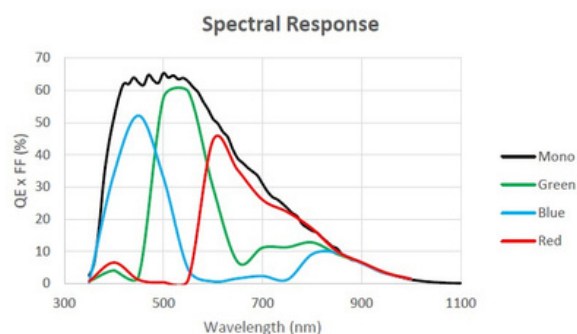


Available Model

Applicable Industry

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

Sensor Quantum Efficiency



Unit: mm

Model	MV-CH650-90YM
Performance	
Sensor type	CMOS, global shutter
Sensor model	Gpixel GMAX3265
Pixel size	3.2 μm $\times$ 3.2 μm
Resolution	29.9 mm $\times$ 22.4 mm
Max. frame rate	9344 $\times$ 7000
Dynamic range	71 fps @ 9344 $\times$ 7000 Mono 8
SNR	66 dB
Exposure time	40 dB
Exposure mode	1.25 $\times$
Mono/color	12 μs to 10 sec
Pixel format	Off/Once/Continuous exposure mode
Binning	
Decimation	Mono
Reverse image	Mono 8/10/12
Electrical features	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
Data interface	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
Digital I/O	Supports horizontal and vertical reverse image output
	CoaXPress with Micro-BNC interface
	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-0 and CXP-1 connectors support PoCXP
Power consumption	Typ. 14.4 W @ 12 VDC
Mechanical	
Lens mount	M58*0.75, flange back length 11.48 mm
Dimension	60 mm $\times$ 60 mm $\times$ 59 mm (2.4" $\times$ 2.4" $\times$ 2.3") (cooling fins are optional)
Weight	Approx. 285 g (0.6 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 104 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)
Humidity	20% RH to 95% RH (no condensation)
General	
Client software	MVS or third-party software meeting with CoaXPress Protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, and 32/64-bit Linux
Compatibility	CoaXPress, GenICam
Certification	CE, RoHS, KC, UL