

MV-CH210-90Q2M

21MP XoFLink Area Scan Camera



GEN*i*CAM

XoFLink

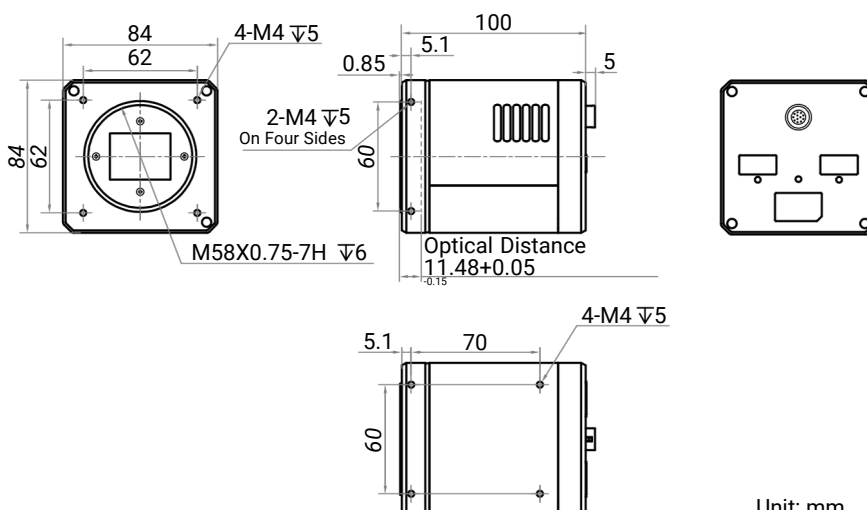
Introduction

MV-CH210-90Q2M camera adopts Gpixel Gsprint4521 CMOS sensor to provide high-quality images. It is equipped with two QSFP+ ports to transmit non-compressed data in real time, and its max. frame rate can reach 541fps in full resolution.

Key Feature

- Resolution of 5120 × 4096, pixel size of 4.5 μm. Adopts global shutter CMOS sensor to provide high dynamic range, SNR, and high-quality image. Supports ISP functions such as Binning and multi-group polling for LSC. Supports data transmission through two 50 Gbps fiber ports. Features an M58 mount; can be adapted to F-mount lenses
- via an adapter ring.

Dimension



Available Model

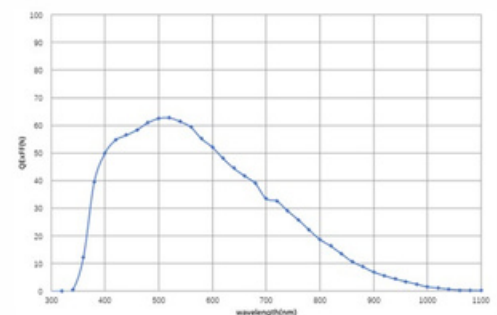
MV-CH210-90Q2M-M58S-NF

Applicable Industry

PCBA OI, 3D applications, electronic semiconductor, motion capture, etc.

Sensor Quantum

Efficiency



Accessories

- 50Gbps FiberPort Frame Grabber: MV-GQ1001 (without optical module)
- Optical Module of Fiber Port Frame Grabber: MV-AC100G-QSFP28
- Optical Fiber Patch Cord: MV-AC100G-MPO-MPO-ST

Specification

Model	MV-CH210-90Q2M
Performance	
Sensor type	CMOS, global shutter
Sensor model	Gpixel Gsprint4521
Pixel size	4.5 μm $\times$ 4.5 μm
Resolution	23.04 mm $\times$ 18.43 mm
Max. frame rate	5120 $\times$ 4096
Dynamic range	541 fps @ 5120 $\times$ 4096 Mono 8
SNR	65 dB
Exposure time	43 dB
Exposure mode	1.0 x, 2.0 x, 4.0 x
Mono/color	1 μs to 10 sec
Pixel format	Off/Once/Continuous exposure mode
Binning	
Decimation	Mono
Reverse Image	Mono 8
Electrical feature	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
	QSFP+ $\times$ 2
	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), RS-232 $\times$ 1.
Power supply	24 VDC
Power consumption	Typ. 33 W @ 24 VDC
Mechanical	
Lens mount	M58*0.75
Dimension (without lens)	84 mm $\times$ 84 mm $\times$ 100 mm (3.3" $\times$ 3.3" $\times$ 3.9")
Weight	Approx. 1153 g (2.5 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 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)
Humidity	20% RH to 95% RH (no condensation)
General	
Client software	MVS
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11
Compatibility	XoFLink protocol, GenICam
Certification	RoHS, CE, KC