

MV-CH120-90X2M/C

12 MP CoaXPress Area Scan Camera



GEN< i >CAM

Introduction

MV-CH120-90X2M/C camera adopts Gpixel GMAX3412 sensor to provide high quality image. It uses 2-Link CXP-6 interface to transmit non-compressed images in real time, and its max. frame rate can reach 95 fps in full resolution.

Key Features

- Resolution of 4096 × 3072, pixel size of 3.4 μm × 3.4 μm.
- Adopts global shutter CMOS sensor to provide high dynamic range, SNR, and high-quality image.
- Adopts CXP-6 interface to transmit data.
- Compatible with CoaXPress Protocol and GenICam Standard.

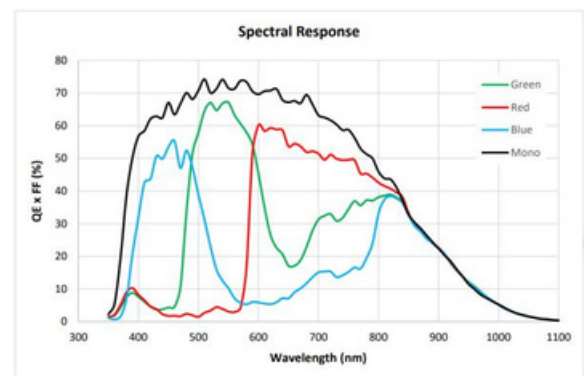
Available Model

- Mono camera: MV-CH120-90X2M-C-NN
- Color camera: MV-CH120-90X2C-C-NN

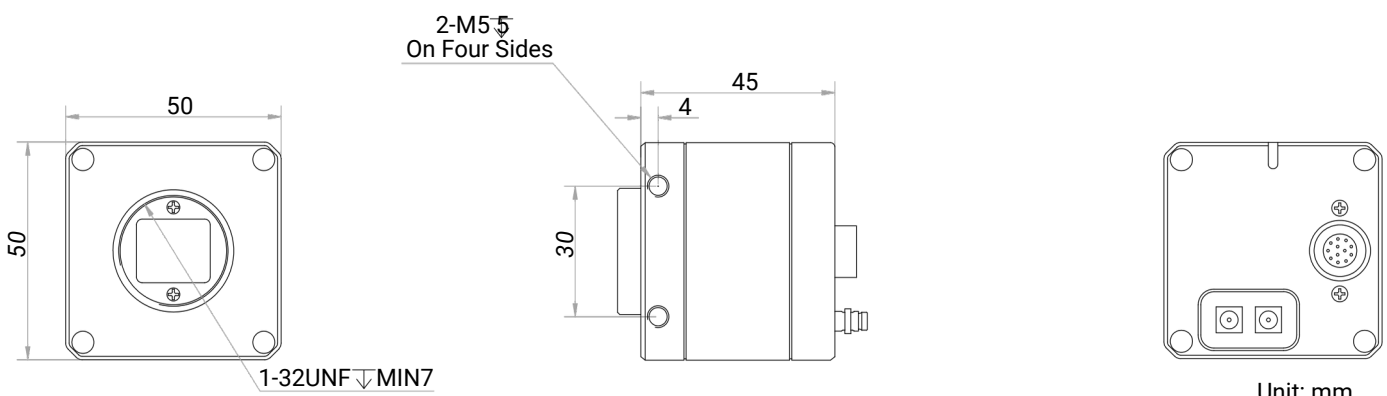
Applicable Industry

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

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CH120-90X2M	MV-CH120-90X2C
Performance		
Sensor type	CMOS, global shutter Gpixel	
Sensor model	GMAX3412 3.4 μm × 3.4 μm 1.1" 4096	
Pixel size	× 3072 95 fps @ 4096 × 3072 Mono 8	
Sensor size	59.6 dB 38.9 dB 0 dB to 6.1 dB 6 μs to	
Resolution	10 sec Off/Once/Continuous exposure	
Max. frame rate	mode Mono Mono 8/10/12	95 fps @ 4096 × 3072 Bayer GB 8
Dynamic range		
SNR		
Gain		
Exposure time		
Exposure mode		
Mono/color		Color
Pixel format		Bayer GB 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		
Power supply	12-pin P10 connector provides power and I/O, including opto-isolated input × 1 (Line 0),	
Power consumption	Typ. 5.8 W @ 24 VDC opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2), and RS-232 × 1.	
Mechanical	9 VDC to 24 VDC, CXP-0 supports PoCXP	
Lens mount		Typ. 5.4 W @ 24 VDC
Dimension		
Weight	C-mount	
Ingress protection	50 mm × 50 mm × 45 mm (2.0" × 2.0" × 1.8")	
Temperature	Approx. 207 g (0.5 lb.)	
Humidity	IP40 (under proper lens installation and wiring)	
General	Working temperature: 0 °C to 50 °C (32 °F to 122 °F)	
Client software	Storage temperature: −30 °C to 80 °C (−22 °F to 176 °F)	
Operating system	20% RH to 95% RH (no condensation)	
Compatibility		
Certifications	MVS or frame grabber software meeting with CoaXPress Protocol	
	32/64-bit Windows 7/10, 64-bit Windows 11, and 32/64-bit Linux	
	CoaXPress, GenICam	
	CE, RoHS, KC	