

MV-CH120-40XM

12 MP CMOS CoaXPress Area Scan Camera







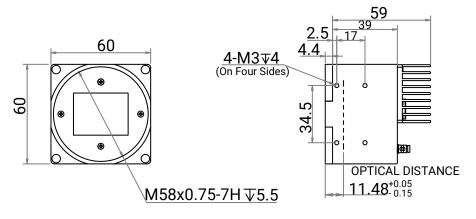
Introduction

MV-CH120-40XM camera adopts CMOS sensor to provide highquality images. It uses CXP-6 interface to transmit non-compressed images in real time, and its max. frame rate can reach 188 fps in full resolution.

Key Feature

- Resolution of 4096 \times 3072, pixel size of 5.5 μ m \times 5.5 μ m.
- Adopts global shutter CMOS sensor to provide high dynamic range, SNR, and high-quality images.
- Supports LSC sequencer polling function.
- Adopts CXP-6 interface to transmit data.
- Compatible with CoaXPress Protocol and GenlCam Standard.

Dimension



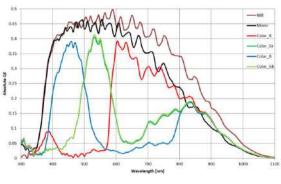
Available Model

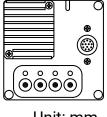
MV-CH120-40XM-M58S-NN

Applicable Industry

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

Sensor Quantum Efficiency





Unit: mm



Specification

Model	MV-CH120-40XM
Performance	
Sensor type	CMOS, global shutter
Sensor model	AMS CMV12000
Pixel size	5.5 μm × 5.5 μm
Sensor size	22.5 mm × 16.9 mm
Resolution	4096 × 3072
Max. frame rate	188 fps @4096 × 3072 Mono 8
Dynamic range	55.2 dB
SNR	39.5 dB
Gain	Supports 1.0 ×, 2.0 ×, 3.0 ×, 4.0 ×
Exposure time	20 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10
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 P10 connector provides power and I/O, including 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	12 VDC to 24 VDC, CXP-1 and CXP-2 support PoCXP
Power consumption	Typ. 11.6 W@12 VDC
Mechanical	
Lens mount	M58*0.75, flange focal length 11.48 mm (0.5")
Dimension	60 mm × 60 mm × 59 mm (2.4" × 2.4" × 2.3")
Weight	TBD
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: 0 °C to 32 °C (32 °F to 89.6 °F)
	Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)
Humidity	20% to 95% RH, non-condensing
General	
Client software	MVS or frame grabber software meeting with CoaXPress Protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux, 64-bit MacOS
Compatibility	CoaXPress, GenlCam
Certification	CE, RoHS, KC

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