

MV-CH250-20XM/XC

25MPCMoSCoaXPressAreaScanCamera



GEN*i*CAM

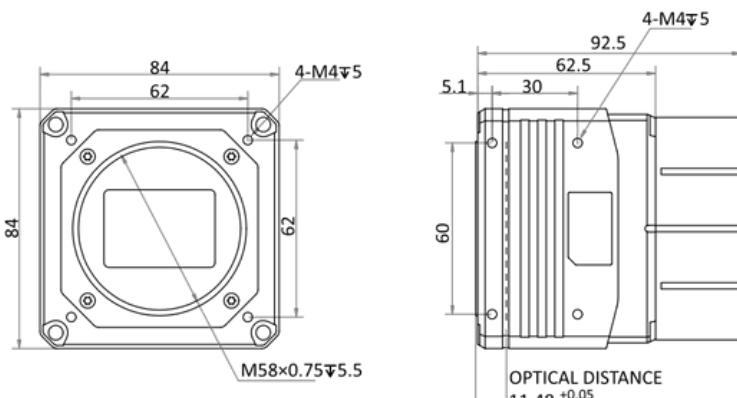
Introduction

MV-CH250-20XM/XC camera adopts OnSemi PYTHON25K sensor to provide high-quality image. It uses CXP-6 interface to transmit non-compressed images in real time, and its max. frame rate can reach 80 fps in full resolution.

Key Feature

- Resolution of 5120×5120 , pixel size of $4.5 \mu\text{m} \times 4.5 \mu\text{m}$.
- Supports binning, reversing image, etc.
- Adopts global shutter CMOS to provide high dynamic range, SNR, and high-quality images.
- Adopts CXP-6 interface to transmit data.
- Compatible with CoaXPress Protocol and GenICam Standard.

Dimension



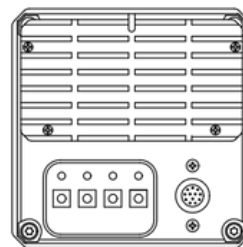
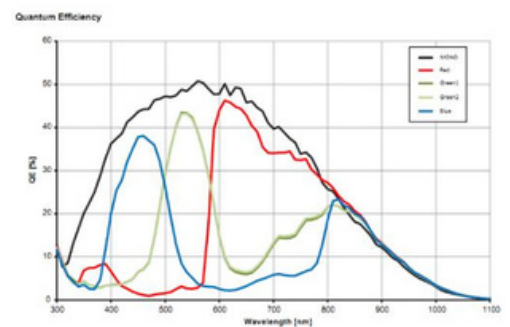
Available Model

- Mono camera:
MV-CH250-20XM-M58S-NN
- Color camera:
MV-CH250-20XC-M58S-NN

Applicable Industry

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

Sensor Quantum Efficiency



Unit: mm



Specification

Model	Camera	MV-CH250-20XM		MV-CH250-20XC
Sensor type				
Sensor model		CMOS, global shutter		
Pixel size		OnSemi PYTHON25K		
Sensor Resolution		4.5 μm × 4.5 μm		
Max. frame rate		23 mm × 23 mm		
Dynamic range		5120 × 5120		
SNR		80 fps @ 5120 × 5120		
Exposure time		58 dB		
Exposure mode		41 dB		
Mono/color		0 dB to 15 dB		
Pixel Binning		33 μs to 10 sec		
Decimation		Off/Once/Continuous exposure mode		
Reverse image		Mono	Color	
Electrical features		Mono 8/10/12	Bayer RG 8/10/12	
Data interface		Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4		
Digital I/O		Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4		
		Supports horizontal and vertical reverse image output		
		CoaXPress with DIN interface		
		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		9 VDC to 24 VDC, CXP-0 and CXP-1 connectors support PoCXP		
Power consumption		Typ. 10.8 W @ 24 VDC		Typ. 10.5 W @ 24 VDC
Mechanical				
Lens mount		M58*0.75, flange back length 11.48 mm		
Dimension		84 mm × 84 mm × 92.5 mm (3.3" × 3.3" × 3.6")		
Weight		Approx. 730 g (1.6 lb.)		
Ingress protection		IP40 (under proper lens installation and wiring)		
Temperature		Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: −30 °C to 70 °C (−22 °F to 158 °F)		
Humidity		20% RH to 95% RH (no condensation)		
General				
Client software		MVS or frame grabber software meeting with CoaXPress Protocol		
Operating system		32/64-bit Windows 7/10, 64-bit Windows 11		
Compatibility		CoaXPress, GenICam		
Certification		CE, RoHS, KC		