

MV-CH120-60NM/C

12 MP 1.1" CMOS 2.5 GigE Area Scan Camera



GEN*<i>i>*CAM

GigE
VISION

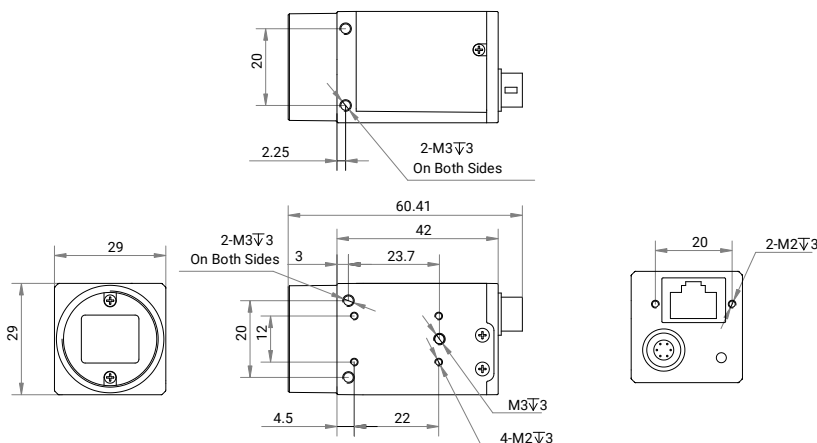
Introduction

MV-CH120-60NM/NC camera adopts CMOS sensor to provide high-quality images. It uses 2.5 GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 24 fps in full resolution.

Key Features

- Resolution of 4096×3072 , pixel size of $3.45 \mu\text{m} \times 3.45 \mu\text{m}$.
- Supports Binning, reverse image, and ROI settings.
- Adopt 2.5 GigE interface, and max. transmission distance of 100 meters.
- Compatible with C-mount lenses to reduce costs.
- Compatible with GigE Vision Protocol V2.0, GenICam Standard, and the third-party software based on the protocol and standard.

Dimension



Unit: mm

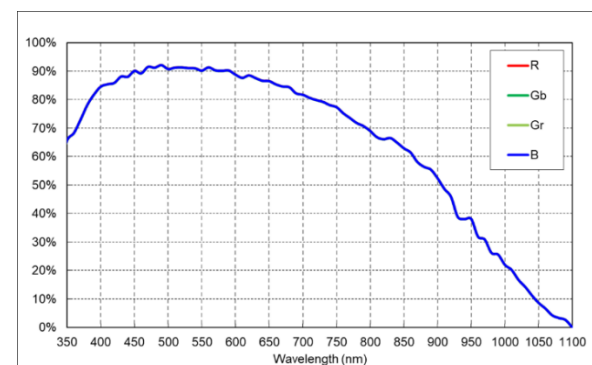
Available Model

- Mono camera: MV-CH120-60NM
- Color camera: MV-CH120-60NC

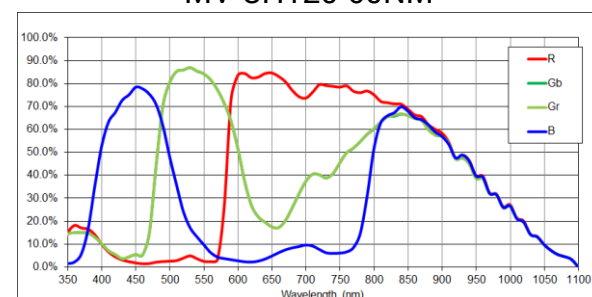
Applicable Industry

Electronic semiconductor, factory automation, food and beverage, medicine packing, etc.

Sensor Quantum Efficiency



MV-CH120-60NM



MV-CH120-60NC

Model	MV-CH120-60NM	MV-CH120-60NC
Performance		
Sensor type	CMOS, global shutter	
Sensor model	Stacked BSI	
Pixel size	3.45 μm × 3.45 μm	
Sensor size	1.1"	
Resolution	4096 × 3072	
Max. frame rate	24 fps @ 4096 × 3072 Mono 8	24 fps @ 4096 × 3072 Bayer GB 8
Dynamic range	65.9 dB	
SNR	44.2 dB	
Gain	0 dB to 23.8 dB	
Exposure time	26 μs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10Packed/12/12Packed	Mono 8/10/12 Bayer GB 8/10/10Packed/12/12Packed, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
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 feature		
Data interface	2.5 Gigabit Ethernet (2500 Mbit/s), compatible with Gigabit Ethernet (1000 Mbit/s)	
Digital I/O	6-pin P7 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).	
Power supply	9 VDC to 24 VDC, supports PoE	
Power consumption	Typ. 4 W @ 12 VDC	Typ. 4.1 W @ 12 VDC
Mechanical		
Lens mount	C-mount	
Dimension (without lens)	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")	
Weight	Approx. 100 g (0.2 lb.)	
Ingress protection	IP40 (under proper lens installation and wiring)	
Temperature	Working temperature: −10 °C to 45 °C (−14 °F to 113 °F) Storage temperature: −30 °C to 80 °C (−22 °F to 176 °F)	
Humidity	20% RH to 95% RH (no condensation)	
General		
Client software	MVS or third-party software meeting with GigE Vision Protocol	
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, and 32/64-bit Linux	
Compatibility	GigE Vision V2.0, GenICam	
Certification	CE, RoHS, KC	