

MV-CH120-60Y1M/C V2

12 MP 1.1" CoaXPress Area Scan Camera



GEN*i*CAM

Introduction

MV-CH120-60Y1M/C V2 camera adopts CMOS sensor to provide high quality image. It uses 1-link CXP-12 interface to transmit non-compressed images in real time, and its max. frame rate can reach 80 fps in full resolution.

Key Features

- Resolution of 4096 × 3072, pixel size of 3.45 μm × 3.45 μm.
- Adopts global shutter CMOS sensor to provide high dynamic range, SNR, and high-quality image.
- Adopts CXP-12 interface to transmit data.
- Compatible with CoaXPress Protocol, GenICam Standard, and third-party software based on the protocol and standard.

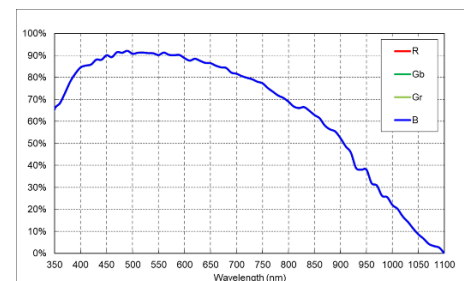
Available Model

- Mono camera: MV-CH120-60Y1M-NN V2
- Color camera: MV-CH120-60Y1C-NN V2

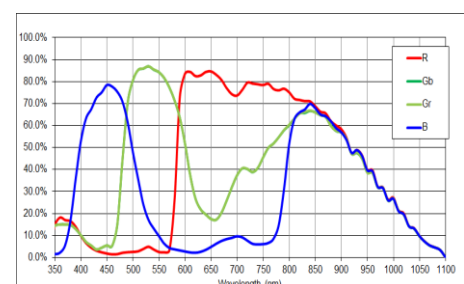
Applicable Industry

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

Sensor Quantum Efficiency



MV-CH120-60Y1M V2



MV-CH120-60Y1C V2

Specification

Model	MV-CH120-60Y1M V2	MV-CH120-60Y1C V2
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	80 fps @ 4096 × 3072 Mono 8	80 fps @ 4096 × 3072 Bayer GB 8
Dynamic range	54.4 dB	
SNR	43.9 dB	
Gain	0 dB to 24 dB	
Exposure time	20 μs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode, and supports Trigger Width	
Mono/color	Mono	Color
Pixel format	Mono 8/10/12	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 feature		
Data interface	CoaXPress with Micro-BNC interface	
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	12 VDC to 24 VDC, supports PoCXP	
Power consumption	Typ. 3 W @ 12 VDC	
Mechanical		
Lens mount	C-mount	
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")	
Weight	Approx. 90 g (0.2 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 80 °C (−22 °F to 176 °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 Window 11, and 32/64-bit Linux	
Compatibility	CoaXPress, GenICam	
Certifications	CE, RoHS, KC	

Dimension

Device without heat sink

