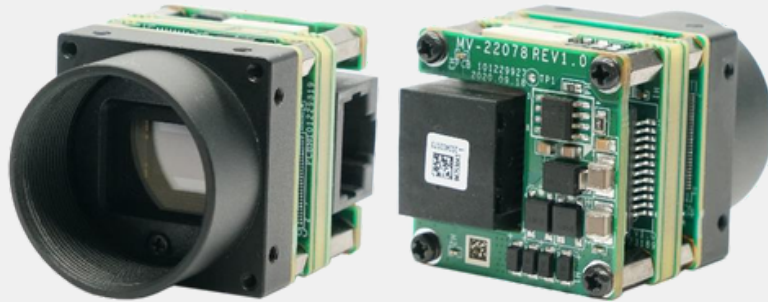


MV-CB120-10GM

12MP1/1.7"CMOSGigEBoardLevel Camera



GEN<i>i>CAM

GiGE
VISION

Introduction

MV-CB120-10GM camera adopts Sony® IMX226 sensor to provide high-quality images. It uses GigE interface to transmit images in real time, and its max. frame rate can reach 9.7 fps in full resolution. The camera is small in size, which can meet different spatial requirements.

Key Feature

- ☐ Supports auto or manual adjustment of gain, exposure time, white balance, manual adjustment of Gamma correction, LUT, Binning, etc.
- ☐ Adopts GigE interface and max. transmission distance of 100 meters without relay.
- ☐ Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

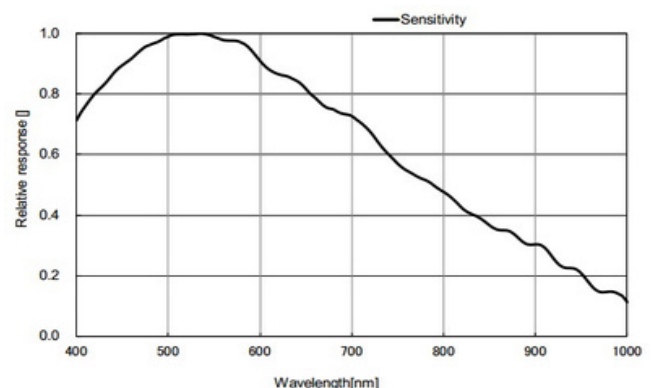
Available Model

- ☐ Mono camera with C-mount lens:
MV-CB120-10GM-C
- ☐ Mono camera with M12-mount lens:
MV-CB120-10GM-S

Applicable Industry

Electronic semiconductor, factory automation, logistics, bottle detection, medicine packing, etc.

Sensor Quantum Efficiency

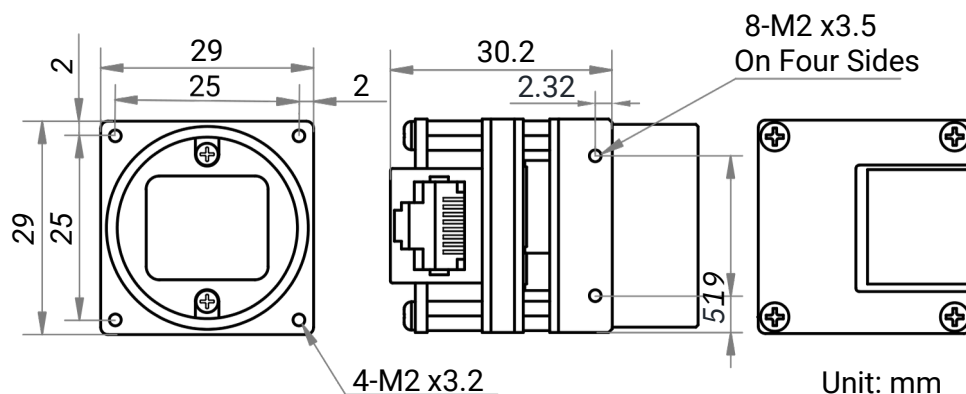


Specification

Model	MV-CB120-10GM
Performance	
Sensor type	CMOS, rolling shutter
Sensor model	Sony® IMX226
Pixel size	1.85 μm $\times$ 1.85 μm
size Resolution	1/1.7"
Max. frame rate	4024 $\times$ 3036
Dynamic range	9.7 fps @ 4024 $\times$ 3036 Mono 8
SNR Gain	70.5 dB
Exposure time	40.5 dB
Exposure mode	0 dB to 20 dB
Mono/color Pixel format	34 μs to 2 sec
Binning	Off/Once/Continuous exposure mode
Decimation	Mono
Reverse image	Mono 8/10/10Packed/12/12Packed
Electrical feature	Supports 1 $\times$ 1, 2 $\times$ 2, 4 $\times$ 4
Data interface	Supports 1 $\times$ 1, 2 $\times$ 2, 4 $\times$ 4
Digital I/O	Supports horizontal and vertical reverse image output
	Gigabit Ethernet (1000 Mbit/s), compatible with Fast Ethernet (100 Mbit/s)
	6-pin connector provides power and I/O, including non-isolated input $\times$ 1 (Line 0), non-isolated output $\times$ 1 (Line 1), bi-directional non-isolated I/O $\times$ 1 (Line 2).
Power supply	9 VDC to 24 VDC, supports PoE
Power consumption	Typ. 1.9 W @ 12 VDC
Mechanical	
Lens mount	C-mount or M12-mount
Dimension	29 mm $\times$ 29 mm $\times$ 30.2 mm (1.1" $\times$ 1.1" $\times$ 1.2")
Weight	Approx. 45 g (0.1 lb.)
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)
Humidity	20% RH to 80% 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	RoHS

Dimension

CamerawithC-mount:



Camera with M12-mount:

