MV-CE120-10GM/GC
12 MP 1/1.7" CMOS GigE Area Scan Camera

Introduction

MV-CE120-10GM/GC camera adopts Sony IMX226 sensor to provide high-quality image. It uses GigE interface to transmit non-compressed images in real time with max. frame rate reaching 9.6 fps.

Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay
- Supports auto exposure control, LUT, Gamma correction, etc.
- Up to 128 MB local memory for burst transmission and retransmission
- Supports hardware triggering and software triggering
- Supports auto white balance and better color correction with excellent image interpolation algorithm
- Compatible with GigE Vision Protocol V2.0, GenICam Standard, and third-party software based on these protocol and standard
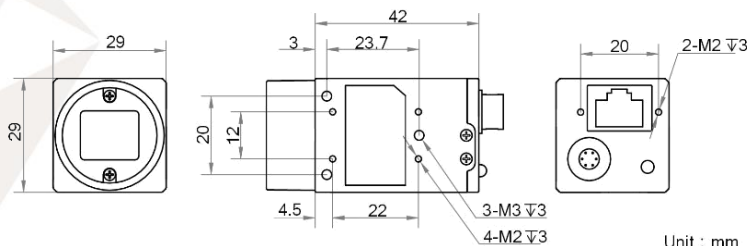
GEN<i>CAM   GigE VISION

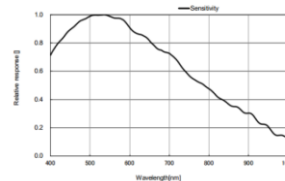## Available Model

- Mono Camera: MV-CE120-10GM
- Color Camera: MV-CE120-10GC

Applicable Industry

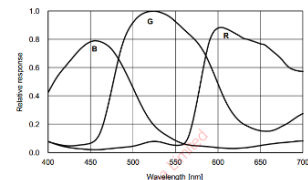Electronic semiconductor, factory automation, logistic code reading, medical packaging, etc.

Sensor Quantum Efficiency

MV-CE120-10GM

MV-CE120-10GC

Dimension

Unit : mm

Specification

Model	MV-CE120-10GM	MV-CE120-10GC
Camera		
Sensor type	CMOS, rolling shutter	
Sensor model	Sony IMX226	
Pixel size	1.85 µm × 1.85 µm	
Sensor size	1/1,7"	
Resolution	4024 × 3036	
Frame rate	9.6 fps	
Dynamic range	70.5 dB	
SNR	40.5 dB	
Gain	0 dB to 20 dB	
Exposure time	34 µs to 2 s	
Shutter mode	Off/Once/Continuous exposure mode, supports Global Reset	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer GB 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
Acquisition mode	Continuous mode and SingleFrame mode	
Binning	Supports 2 x 2, 4 x 4	
Decimation	Not support	
Reverse image	Supports horizontal and vertical reverse image output	
Image buffer	128 MB	
Electrical features		
Data interface	Gigabit Ethernet	
Digital I/O	6-pin Hirose connector provides power and I/O, including opto-isolated input x 1 (Line0), opto-isolated output x 1(Line1), bi-directional non-isolated I/O x 1 (Line2)	
Power supply	5 VDC to 15 VDC, supports PoE power supply	
Power consumption	< 3.24 W@12 VDC	
Structure		
Lens mount	C-Mount	
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")	
Weight	Approx. 68 g (0.15 lb.)	
Ingress protection	IP30 (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% to 80% RH, without condensation	
General		
Client software	MVS or third-party software meeting with GigE Vision Protocol	
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	
Compatibility	GigE Vision V2.0, GenlCam	
Certification	CE, FCC, RoHS, KC	