

MV-CH120-10GM/GC

12MP1.1"CMOSGigEAreaScanCamera



GEN*<i>i</i>*CAM

GigE
VISION

Introduction

MV-CH120-10GM/GC camera adopts Sony® IMX304 sensor. Mono camera: MV-CH120-10GM to provide high-quality image. It uses GigE interface to transmit. Color camera: MV-CH120-10GC non-compressed images in real time with max. frame rate reaching 9.4 fps.

Key Feature

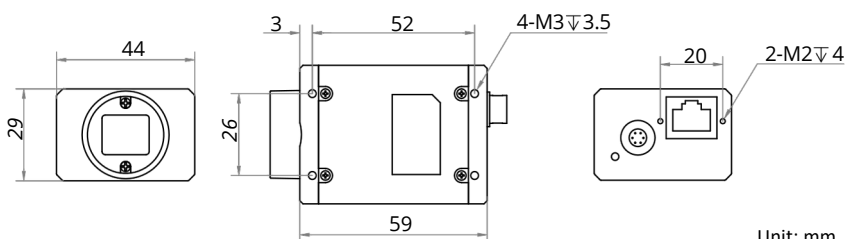
- ☐ Adopts GigE interface and max. transmission distance of etc. 100 meters without relay. Support auto exposure control,
- ☐ LUT, Gamma correction, etc.
- ☐ Supports hardware trigger, software trigger, etc.
- ☐ Compatible with GigE Vision Protocol V2.0, GenICam Standard, and third-party software based on these protocol and standard.

Available Model

Applicable Industry

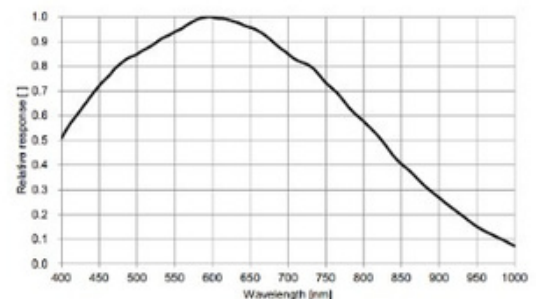
Electronic semiconductor, factory automation, logistics code reading, medicine packaging,

Dimension

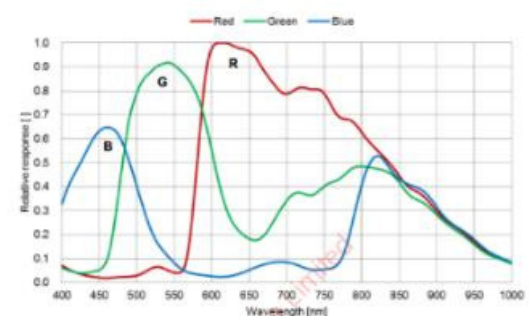


Unit: mm

Sensor Quantum Efficiency



MV-CH120-10GM



MV-CH120-10GC



Specification

Model	Camera	MV-CH120-10GM	MV-CH120-10GC
Sensor	type		
Sensor	model	CMOS, global shutter	
Pixel	size	Sony® IMX304	
Sensor	size	3.45 μm × 3.45 μm	
Resolution	Max.	1.1"	
frame	rate	4096 × 3000	
Dynamic	range	9.4 fps @ 4096 × 3000	
SNR	Gain	72.2 dB	
Exposure time		40.2 dB	
		0 dB to 20 dB	
		UltraShort exposure mode: 2 μs to 14 μs	
		Standard exposure mode: 15 μs to 10 sec	
Exposure mode		Off/Once/Continuous exposure mode	
Mono/color		Mono	Color
Pixel format		Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer GR 8/10/10p/12/12p, 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, 2 × 1, 2 × 2	
Reverse image		Supports horizontal and vertical reverse image output	
Electrical feature			
Data interface		Gigabit Ethernet (1000 Mbit/s), compatible with Fast Ethernet (100 Mbit/s)	
Digital I/O		6-pin Hirose 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, supports PoE	
Power consumption		Typ. 4.3 W @ 12 VDC	Typ. 4.6 W @ 12 VDC
Mechanical			
Lens mount		C-mount	
Dimension		44 mm × 29 mm × 59 mm (1.7" × 1.1" × 2.3")	
Weight		Approx. 140 g (0.3 lb.)	
Ingress protection		IP 30 (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 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		CE, RoHS, KC	