

MV-CS120-10GM/GC V5

12 MP 1/1.7" CMOS GigE Area Scan Camera



GEN*i*CAM

GigE
VISION

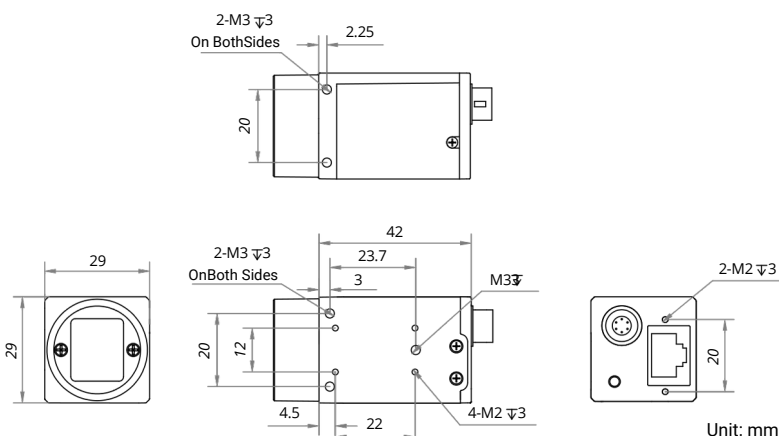
Introduction

With GigE interface, MV-CS120-10GM/GC camera adopts Sony® IMX226 rolling shutter sensor to provide various image processing functions and transmit data without compression in real time, and its max. frame rate can reach 10 fps.

Key Feature

- Provides optimized hardware design, stable performance, and low power consumption.
- Supports auto or manual adjustment of gain, exposure time, etc.
- Supports hardware triggers, software triggers, and free run mode.
- 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.

Dimension



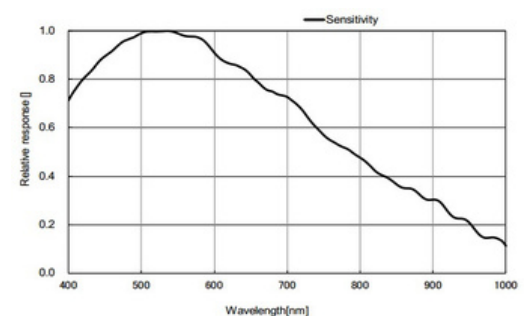
Available Model

- Mono camera: MV-CS120-10GM V5
- Color camera: MV-CS120-10GC V5

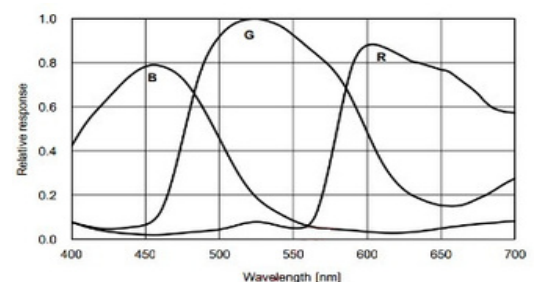
Applicable Industry

Electrical semiconductor, factory automation, logistic code reading, pharmaceutical packaging, etc.

Sensor Quantum Efficiency



MV-CS120-10GM V5



MV-CS120-10GC V5

Specification

HIKROBOT

Model	Camera	MV-CS120-10GM V5	MV-CS120-10GC V5
Sensor	type		
Sensor	model	CMOS, rolling shutter Sony® IMX226 1.85 μm × 1.85 μm 1/1.7" 4024 × 3036 10 fps	
Pixel	size	@ 4024 × 3036 Mono 8 69.4 dB 42.3 dB 0 dB to 20 dB 33 μs to 2 sec	
Sensor	size	Off/Once/Continuous exposure mode, and supports Rolling and Global Reset mode	
Resolution	Max.		
frame	rate		
Dynamic	range		10 fps @ 4024 × 3036 Bayer RG 8
SNR	Gain		
Exposure	time		
Exposure	mode		
Mono/color			
		Mono	Color
Pixel format		Mono 8/10/10Packed/12/12Packed	Mono 8 Bayer RG 8/10/10Packed/12/12Packed, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
Binning		Supports 1 × 1, 2 × 2, 4 × 4	
Decimation		Supports 1 × 1, 2 × 2, 4 × 4	
Reverse image		Supports horizontal and vertical reverse image output	
Electrical features			
Data interface		Gigabit Ethernet (1000 Mbit/s), compatible with Fast Ethernet (100 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. 1.5 W @ 12 VDC	
Mechanical			
Lens mount		C-mount	
Dimension		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: −30 °C to 60 °C (−22 °F to 140 °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	