MV-CH120-11GM

12 MP 1.1" CMOS GigE Area Scan Camera

Introduction

MV-CH120-11GM camera adopts Sony® IMX304 sensor to provide high-quality image. It uses GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 9.8 fps in full resolution.

Key Feature

- Supports auto and manual adjustment for gain, exposure time, LUT, Gamma correction, etc.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and the third-party software based on the protocol and standard.

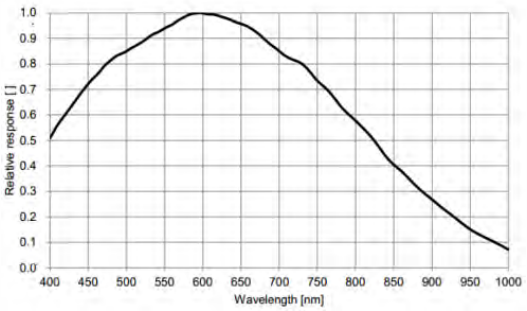
Available Model

MV-CH120-11GM

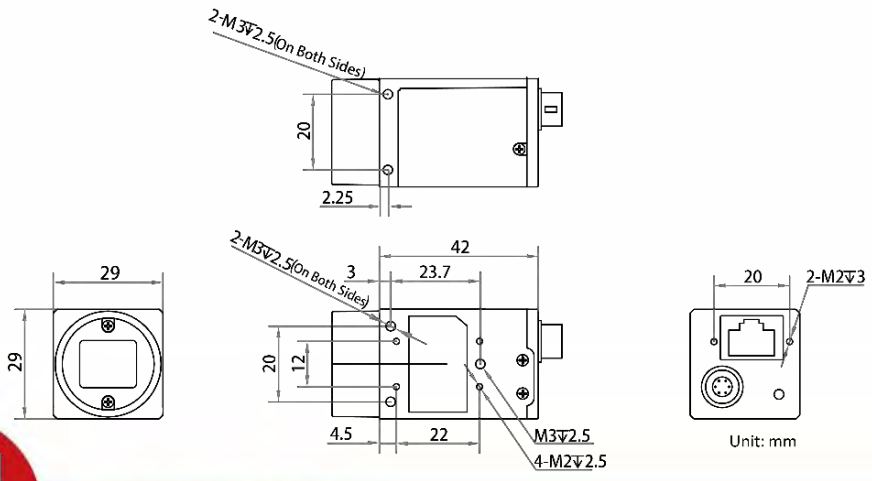
Applicable Industry

Electronic semiconductor, factory automation, logistics, etc.

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CH120-11GM
Camera	
Sensor type	CMOS, global shutter
Sensor model	Sony® IMX304
Pixel size	3.45 μm × 3.45 μm
Sensor size	1.1"
Resolution	4096 × 3000
Max. frame rate	9.8 fps @4096 × 3000
Dynamic range	72.2 dB
SNR	40.2 dB
Gain	0 dB to 20 dB
Exposure time	UltraShort exposure mode: 1 μs to 14 μs
	Standard exposure mode: 15 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/10p/12/12p
Binning	Supports 1 × 1, 2 × 1, 1 × 2, 2 × 2, 1 × 4, 4 × 1, 2 × 4, 4 × 2, 4 × 4
Decimation	Supports 1 × 1, 2 × 1, 1 × 2, 2 × 2
Reverse image	Supports horizontal and vertical reverse image output
Electrical feature	
Data interface	Gigabit Ethernet, compatible with Fast Ethernet
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	9 VDC to 24 VDC, supports PoE
Power consumption	Typ. 4.2 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	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, non-condensing
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 2.0, GenICam
Certification	CE, FCC, RoHS, KC

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