

MV-CS020-21GM

2 MP 2/3" CMOS GigE Area Scan Camera



GEN<i>i>CAM

GigE VISION

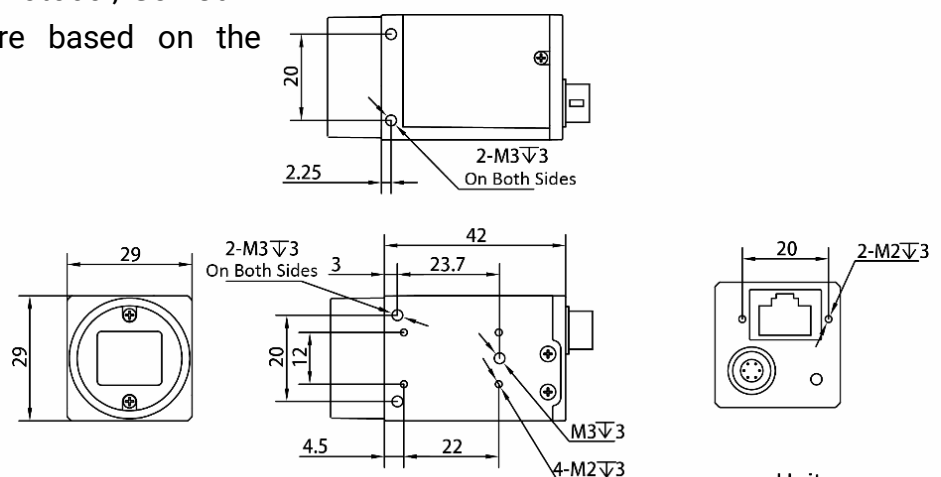
Introduction

With GigE interface, MV-CS020-21GM camera adopts OnSemi sensor to provide high-quality images and transmit images in real time, and its max. frame rate can reach 51.3 fps in full resolution.

Key Feature

- Adopts brand new design to reduce power consumption.
- Supports auto or manual adjustment for gain, exposure control, contrast ratio, Gamma correction, etc.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Compatible with GigE Vision V2.0 Protocol, GenlCam Standard, and third-party software based on the protocol and standard.

Dimension



Available Model

MV-CS020-21GM

Applicable Industry

SMT/ PCB AOI, consumer electronics, electrical semiconductor, etc.

Sensor Quantum Efficiency

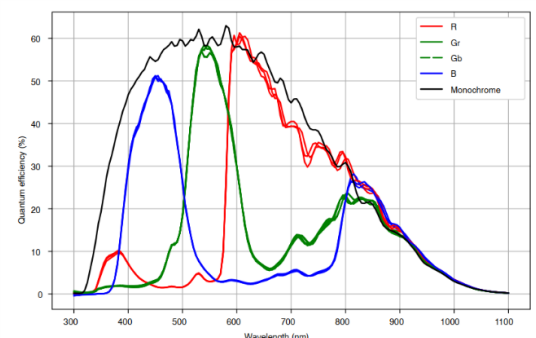


Figure 57. Quantum Efficiency (Mono)

Unit: mm



Specification

Model	MV-CS020-21GM
Camera	
Sensor type	CMOS, global shutter
Sensor model	OnSemi
Pixel size	4.5 μm \times 4.5 μm
Sensor size	2/3"
Resolution	1920 \times 1200
Max. frame rate	51.3 fps @1920 \times 1200 Mono 8
Dynamic range	66 dB
SNR	39.6 dB
Gain	0 dB to 12 dB
Exposure time	UltraShort exposure mode: 9 μs to 59 μs Standard exposure mode: 60 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/10Packed/12/12Packed
Binning	Supports 1 \times 1, 2 \times 2, 4 \times 4
Decimation	Supports 1 \times 1, 2 \times 2
Reverse image	Supports horizontal and vertical reverse image output
Electrical features	
Data interface	Gigabit Ethernet, compatible with Fast Ethernet
Digital I/O	6-pin P7 connector provides power and I/O, including opto-isolated input \times 1 (Line 0), opto-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. 2.8 W@12 VDC
Mechanical	
Lens mount	C-Mount
Dimension	29 mm \times 29 mm \times 42 mm (1.1" \times 1.1" \times 1.2")
Weight	Approx. 100 g (0.22 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: -30 $^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)
Humidity	20% to 95% 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 V2.0, GenICam
Certification	CE, FCC, RoHS, KC

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