

MV-CS020-21GM

2 MP 2/3" CMOS GigE Area Scan Camera



GEN<i>i>CAM

GigE VISION

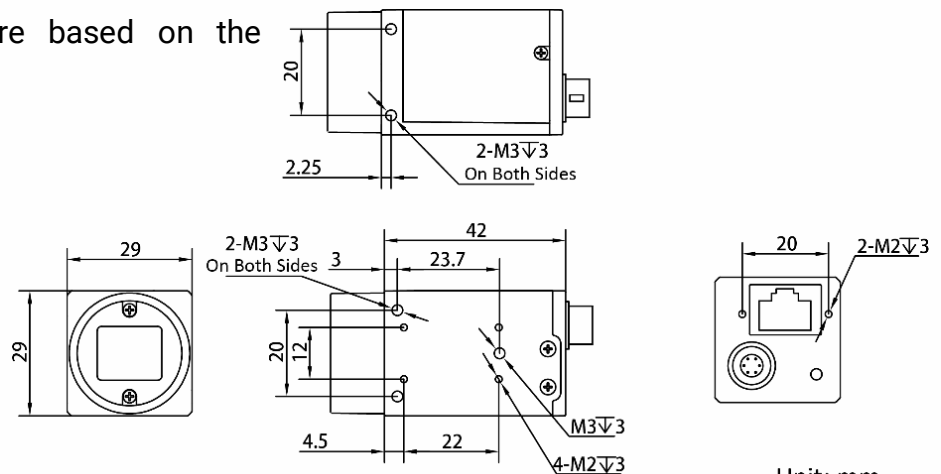
Introduction

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

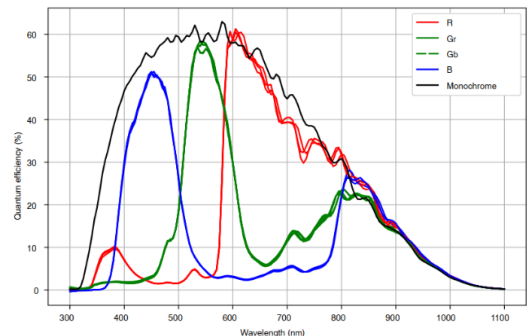


Figure 57. Quantum Efficiency (Mono)

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

HIKROBOT

Hangzhou Hikrobot Co., Ltd.
en.hikrobotics.com

© Hangzhou Hikrobot Co., Ltd. All Rights Reserved.

Hangzhou Hikrobot does not tolerate any infringement. Any organization or individual may not imitate or reproduce in whole or in part of the content. The data herein is based on Hikrobot's internal evaluation. Actual data may vary depending on specific configuration and operating condition. The information herein is subject to change without notice. All the content has been checked conscientiously. Nevertheless, Hikrobot shall not be liable to damages resulting from errors, inconsistencies or omissions.