MV-CU200-20GM/GC V2

20 MP 1/1.8" CMOS GigE Area Scan Camera

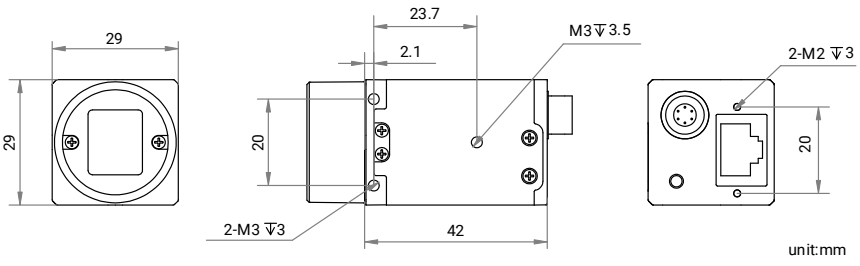
Introduction

MV-CU200-20GM/GC V2 camera adopts AR2020 sensor to provide high-quality images. It uses GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 5.9 fps in full resolution.

Key Features

- Adopts low power consumption design with stable performance.
- Supports auto and manual adjustment of gain, exposure time, etc.
- Supports hardware trigger, software trigger, free run, etc.
- 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



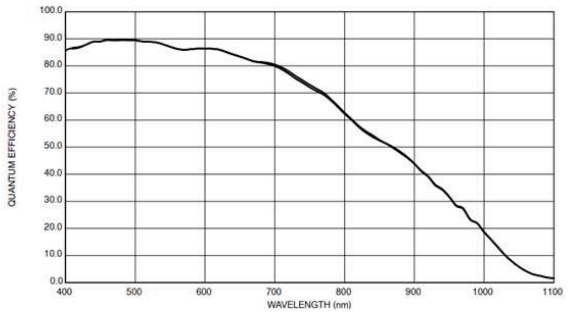
Available Model

- Mono camera: MV-CU200-20GM V2
- Color camera: MV-CU200-20GC V2

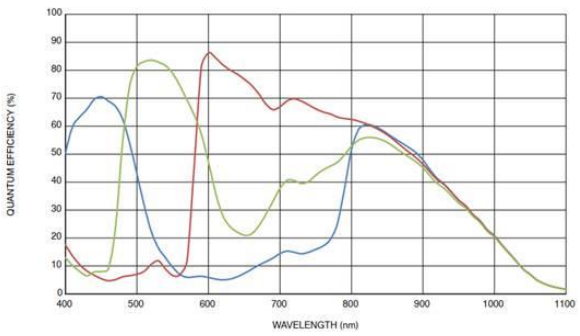
Applicable Industry

Electronics and semiconductor, factory automation, logistics and code reading, medicine package, etc.

Sensor Quantum Efficiency



MV-CU200-20GM V2



MV-CU200-20GC V2

Specification

Model	MV-CU200-20GM V2	MV-CU200-20GC V2
Performance		
Sensor type	CMOS, rolling shutter	
Sensor model	AR2020	
Pixel size	1.4 μm × 1.4 μm	
Sensor size	1/1.8"	
Resolution	5120 × 3840	
Max. frame rate	5.9 fps @ 5120 × 3840 Mono 8	5.9 fps @ 5120 × 3840 Bayer GR 8
Dynamic range	61 dB	60 dB
SNR	39 dB	
Gain	0 dB to 48 dB	
Exposure time	53 μs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10 Packed/12/12 Packed	Bayer GR 8/10/10 Packed/12/12 Packed
Binning	Supports 1 × 1, 2 × 2, 4 × 4	Supports 1 × 1, 2 × 2
Decimation	Not supported	
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; PoE is optional	
Power consumption	Typ. 2.0 W @ 12 VDC	
Mechanical		
Lens mount	C-mount	
Dimension (without lens)	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 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, 32/64-bit Linux	
Compatibility	GigE Vision V2.0, GenICam	
Certification	CE, RoHS, KC	

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