MV-CA020-10GM/GC

2 MP 1/1.7" CMOS GigE Area Scan Camera

Introduction

MV-CA020-10GM/GC camera adopts Sony® IMX430 sensor to provide high-quality image. It uses GigE interface to transmit non-compressed images in real time with max. frame rate reaching 60 fps in full resolution.

Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay
- Supports auto and manual adjustment for exposure control, LUT, Gamma correction, etc.
- Up to 128 MB local memory for burst transmission and retransmission
- Supports hardware trigger, software trigger, etc.
- Compatible with GigE Vision Protocol V2.0, GenICam Standard, and third-party software based on these protocol and standard

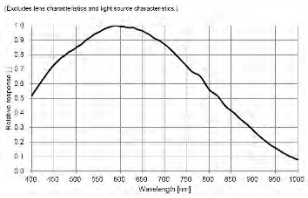
Available Model

Mono camera: MV-CA020-10GM
Color camera: MV-CA020-10GC

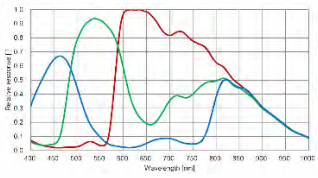
Applicable Industry

Electronic semiconductor, factory automation, logistics code reading, medical packing, quality inspection, etc.

Sensor Quantum Efficiency

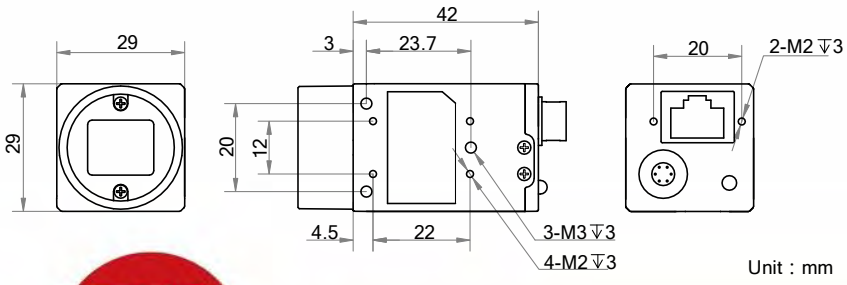


MV-CA020-10GM



MV-CA020-10GC

Dimension



Unit：mm

Specification

Model	MV-CA020-10GM	MV-CA020-10GC
Camera		
Sensor type	CMOS, global shutter	
Sensor model	Sony® IMX430	
Pixel size	4.5 μm × 4.5 μm	
Sensor size	1/1.7"	
Resolution	1624 × 1240	
Max. frame rate	60 fps @1624 × 1240	
Dynamic range	72.08 dB	
SNR	43.8 dB	
Gain	0 dB to 24 dB	
Exposure time	1 μs to 10 s	
Shutter mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, RGB 8, BGR 8, Bayer GB 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed
Binning	Supports 2 × 2	
Decimation	Supports 2 × 2	
Reverse image	Supports horizontal and vertical reverse image output	
Image buffer	128 MB	
Electrical features		
Data interface	Gigabit Ethernet	
Digital I/O	6-pin Hirose connector provides power and I/O, including Opto-isolated input x 1 (Line 0), opto-isolated output x 1 (Line 1), and bi-directional non-isolated I/O x 1 (Line 2).	
Power supply	9 VDC to 24 VDC, supports PoE	
Power consumption	< 3.27 W@12 VDC	< 3.6 W@12 VDC
Structure		
Lens mount	C-Mount	
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")	
Weight	Approx. 68 g (0.15 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, without condensation	
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, GenlCam	
Certification	CE, FCC, RoHS, KC	

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