MV-CE013-80GM/GC

1.3 MP 1/2.7" CMOS GigE Area Scan Camera

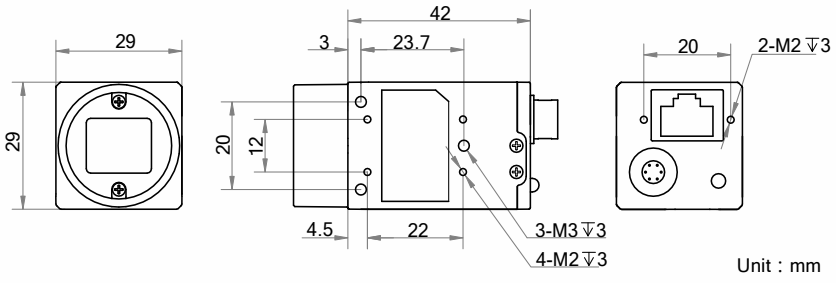
Introduction

MV-CE013-80GM/GC camera adopts CMOS 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 89.9 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.
- Supports hardware trigger, software trigger, free run, etc.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on protocol and standard.

Dimension



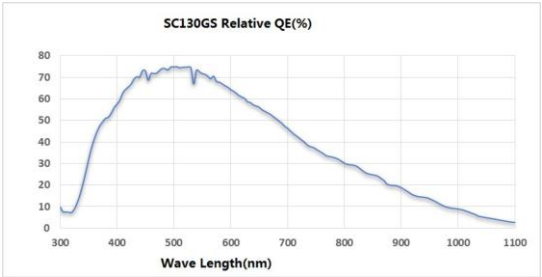
Available Model

- Mono camera: MV-CE013-80GM
- Color camera: MV-CE013-80GC

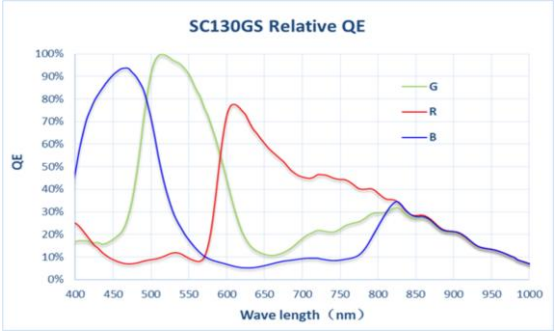
Applicable Industry

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

Sensor Quantum Efficiency



MV-CE013-80GM



MV-CE013-80GC

Specification

Model	MV-CE013-80GM	MV-CE013-80GC
Camera		
Sensor type	CMOS, global shutter	
Sensor model	SS	
Pixel size	4.0 μm × 4.0 μm	
Sensor size	1/2.7"	
Resolution	1280 × 1024	
Max. frame rate	89.9 fps @1280 × 1024	
Dynamic range	60 dB	
SNR	40 dB	
Gain	0 dB to 20 dB	
Exposure time	31 μs to 1 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer BG 8/10/10p/12/12p, YUV422_YUYV_Packed, YUV422 Packed, RGB 8, BGR 8
Binning	Supports 1 × 1, 2 × 2	
Decimation	Supports 1 × 1, 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. 2.4 W@12 VDC	Typ. 2.6 W@12 VDC
Mechanical		
Lens mount	C-Mount	
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")	
Weight	Approx. 96 g (0.21 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 V2.0, GenICam	
Certification	CE, FCC, RoHS, KC	

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