MV-CA016-10GM/GC

1.6 MP 1/2.9" CMOS GigE Area Scan Camera

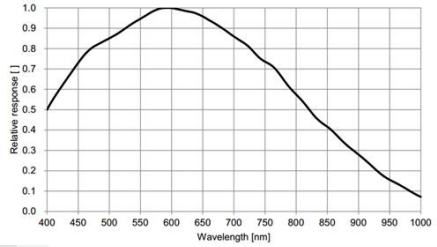
Introduction

MV-CA016-10GM/GC camera adopts Sony IMX 273 sensor and provides high quality image. The GigE interface provides high-speed and real-time transmission of uncompressed data with the maximum frame rate reaching 78.2 fps at full resolution.

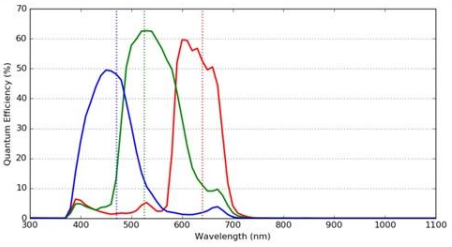
Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay
- Supports auto and manual adjustment for gain, exposure control, white balance, LUT, Gamma correction, and etc.
- Supports hardware trigger, software trigger, and etc.
- Up to 128 MB local memory for burst transmission and retransmission
- Compatible with GigE Vision 2.0 Protocol, GenICam standard, and the third-party software based on these protocol and standard

Sensor Quantum Efficiency



MV-CA016-10GM



MV-CA016-10GC

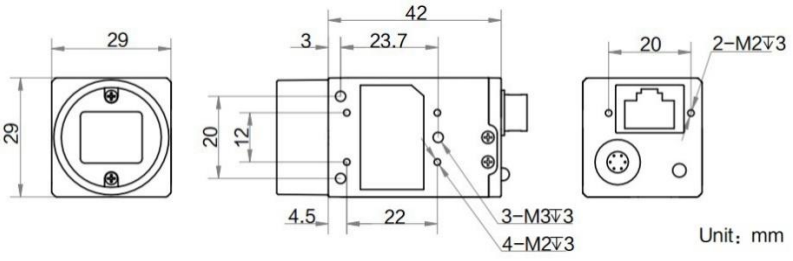
Applicable Industry

Electronic semiconductor, factory automation, quality inspection and etc.

Available Model

- Mono Camera: MV-CA016-10GM
- Color Camera: MV-CA016-10GC

Dimension



Specification

Model / Parameters	MV-CA016-10GM	MV-CA016-10GC
	1.6 MP 1/2.9" CMOS GigE Area Scan Camera	
Camera		
Sensor type	CMOS, global shutter	
Sensor model	Sony IMX273	
Pixel size	3.45 μm × 3.45 μm	
Sensor size	1/2.9"	
Resolution	1440 × 1080	
Frame rate	Mono8 78.2 fps	Bayer8 78.2 fps
Dynamic range	71.4 dB	
SNR	41 dB	
Gain	0 dB to 20 dB	
Exposure time	1 μs to 10 s	
Shutter mode	Off/ Once /Continuous exposure mode	
Pixel format	Mono 8/10/10p/12/12p	Mono8/10/12, Bayer RG 8/10/10p/12/12p YUV 422 Packed, YUV422_YUYV_Packed, RGB8
Acquisition mode	Continuous mode, single frame mode	
Binning	Supports 1 × 1, 2 × 2	
Decimation	Supports 1 × 1, 2 × 2	
Reverse image	Supports horizontal and vertical reverse image output	
Image buffer	128 MB	
Electrical features		
Data interface	Gigabit Ethernet (1000 Mbit/s), Fast Ethernet (100 Mbit/s)	
Digital I/O	6-pin Hirose connector provides power supply and I/O, including opto-isolated input x 1, opto-isolated output x 1, and bi-directional non-isolated I/O x 1	
Power supply	9 VDC to 26 VDC, supports PoE power supply	
Power consumption	3 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	IP 30 (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	Windows XP/7/10 32/64bits, Linux 32/64bits or MacOS 64bits	
Compatibility	GigE Vision V2.0, GenICam	
Certification	CE, FCC, RoHS	

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