MV-CE003-20GM/GC

0.3 MP 1/3.6" CMOS GigE Area Scan Camera

Introduction

MV-CE003-20GM/GC camera is a high quality device that can be used in a variety of applications, including electronic semiconductor fabrication, factory automation, quality inspection.

Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay
- Up to 128 MB local memory for burst transmission and retransmission
- Supports auto exposure control, LUT, Gamma correction, etc.
- Supports hardware trigger, software trigger, etc.
- Compatible with GigE Vision V1.2 Protocol and the third-party software based on the protocol

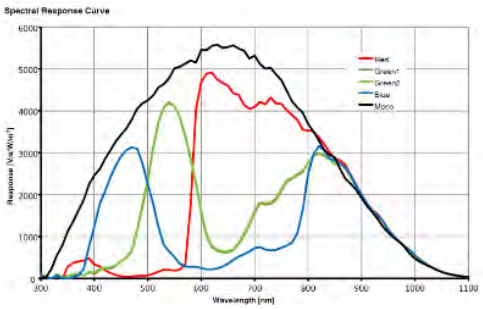
Available Model

Mono Camera: MV-CE003-20GM
Color Camera: MV-CE003-20GC

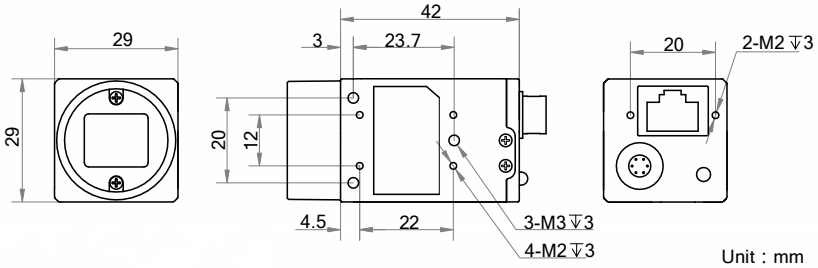
Applicable Industry

Electronic semiconductor, factory automation, quality inspection, etc.

Sensor Quantum Efficiency



Dimension



Unit：mm

Specification

Model	MV-CE003-20GM	MV-CE003-20GC
Camera		
Sensor type	CMOS, global shutter	
Sensor model	PYTHON480	
Pixel size	4.8 μm × 4.8 μm	
Sensor size	1/3.6"	
Resolution	640 × 480	
Max. frame rate	173 fps @640 × 480	
Dynamic range	59 dB	
SNR	39 dB	
Gain	0 dB to 9.5 dB	
Exposure time	42 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, Bayer GB 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUYV_Packed, RGB8
Reverse image	Supports horizontal reverse image output	
Image buffer	128 MB	
Electrical features		
Data interface	Gigabit Ethernet	
Digital I/O	Opto-isolated input x 1, opto-isolated output x 1, and bi-directional non-isolated I/O x 1	
Power supply	5 VDC to 15 VDC, supports PoE power supply	
Power consumption	< 3.0 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	
Certification	CE, FCC, RoHS, KC	

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