

MV-CS016-10GM/GC

1.6MP1/2.9"CMOSGigEAreaScanCamera



GEN*i*CAM

GigE
VISION

Introduction

MV-CS016-10GM/GC camera adopts Sony® IMX296 sensor to provide high-quality image. It uses GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 65.2fps in full resolution.

Key Feature

- ☐ Adopts brand new design to reduce power consumption.
- ☐ Compact design with mounting holes on panels for flexible mounting from 4 sides.
- ☐ Supports noise reduction and color correction matrix function.
- ☐ Supports auto or manual adjustment for gain, exposure time, LUT, Gamma correction, white balance, 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.

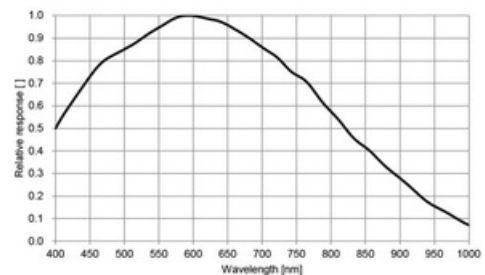
Available Model

- ☐ Mono camera: MV-CS016-10GM
- ☐ Color camera: MV-CS016-10GC

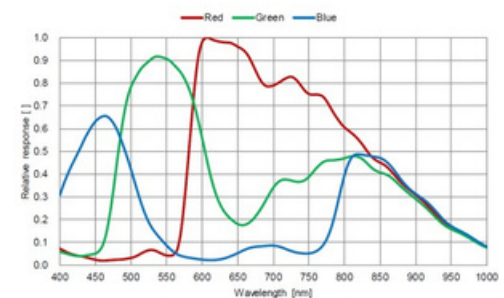
Applicable Industry

SMT/PCB AOI, consumer electronics, electrical semiconductor, image measuring, etc.

Sensor Quantum Efficiency

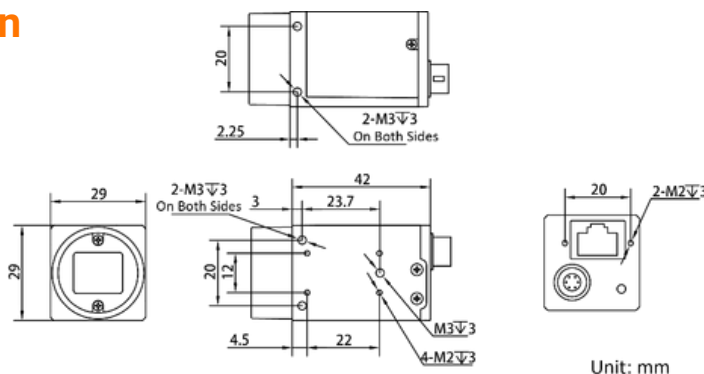


MV-CS016-10GM



MV-CS016-10GC

Dimension



Specification

Model	Camera	MV-CS016-10GM	MV-CS016-10GC
Sensor	type		
Sensor	model	CMOS, global shutter	
Pixel	size	Sony® IMX296	
Sensor	size	3.45 μm × 3.45 μm	
Resolution	Max.	1/2.9"	
frame	rate	1440 × 1080	
Dynamic	range	65.2 fps @ 1440 × 1080	
SNR	Gain	74 dB	
Exposure time		41 dB	
		0 dB to 24 dB	
		UltraShort exposure mode: 1 μs to 14 μs	
		Standard exposure mode: 15 μs to 10 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 RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
Binning		Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4	
Decimation		Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4	
Reverse image		Supports horizontal and vertical reverse image output	
Electrical features			
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. 2.5 W @ 12 VDC
Mechanical			
Lens mount		C-mount	
Dimension		29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2")	
Weight		Approx. 100 g (0.22 lb.)	
Ingress protection		IP40 (under proper lens installation and wiring)	
Temperature		Working temperature: −30 °C to 60 °C (−22 °F to 140 °F) Storage temperature: −30 °C to 70 °C (−22 °F to 158 °F)	
Humidity		20% RH to 80% RH (no condensation)	
General			
Client software		MVS or third-party software meeting with GigE Vision Protocol	
Operating system		32/64-bit Windows 7/10, 32/64-bit Linux	
Compatibility		GigE Vision V2.0, GenICam	
Certification		CE, RoHS, KC	