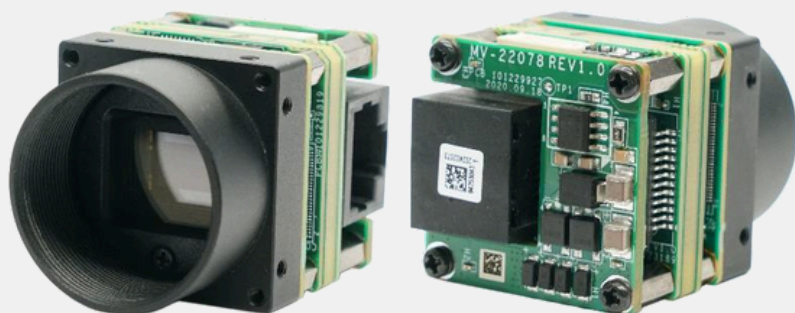


MV-CB016-10GM/C

1.6MP1/2.9"CMOSGigEBoardLevel Camera



GEN*i*CAM

GigE
VISION

Introduction

MV-CB016-10GM/C camera adopts Sony® IMX296 sensor to provide high-quality images. It uses GigE interface to transmit images in real time, and its max. frame rate can reach 65.2 fps in full resolution. The camera is small in size, which can meet different spatial requirements.

Key Feature

- Supports auto or manual adjustment of gain, exposure time, white balance, manual adjustment of Gamma correction, LUT, Binning, etc.
- Adopts noise reduction function to provide high-quality images.
- 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.

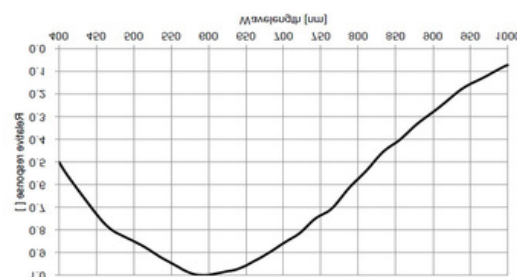
Applicable Industry

Electronic semiconductor, factory automation, logistics, bottle detection, medicine packing, etc.

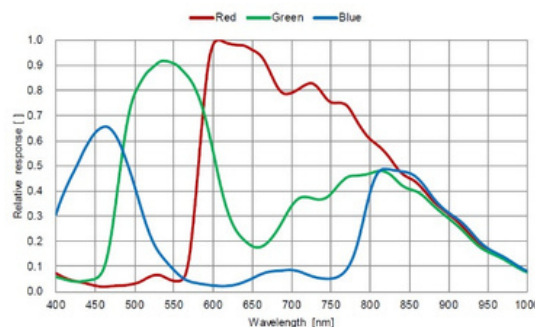
Available Model

- Mono camera with M12-mount: MV-CB016-10GM-S
- Color camera with M12-mount: MV-CB016-10GC-S
- Mono camera with C-mount: MV-CB016-10GM-C
- Color camera with C-mount: MV-CB016-10GC-C

Sensor Quantum Efficiency



MV-CB016-10GM



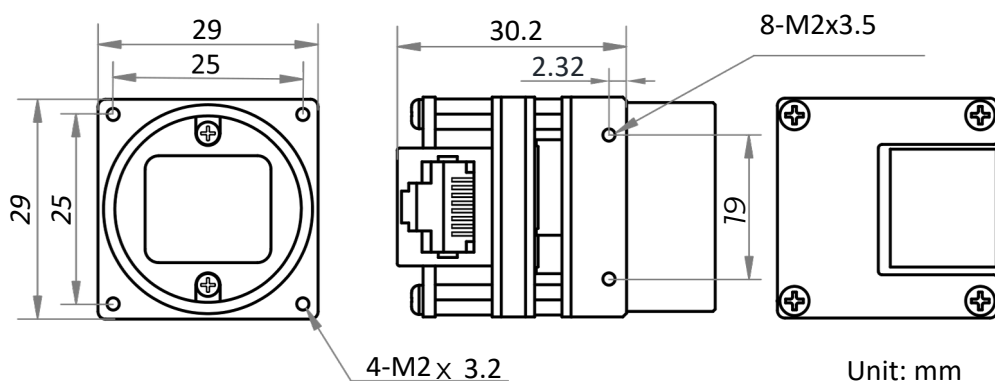
MV-CB016-10GC

Specification

Model	Camera	MV-CB016-10GM	MV-CB016-10GC
Sensor	type		
Sensor	model	CMOS, global shutter	
Pixel	size	Sony® IMX296	
Sensor	size	3.45 μm × 3.45 μm	
Resolution		1/2.9"	
Max. frame rate		1440 × 1080	
Dynamic range		65.2 fps @ 1440 × 1080 Mono 8	65.2 fps @ 1440 × 1080 Bayer RG 8
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 8/10/10Packed/12/12 Packed	Mono 8/10/12, Bayer RG 8/10/10Packed/12/12Packed , 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 (1000 Mbit/s), compatible with Fast Ethernet (100 Mbit/s),	
Digital I/O		6-pin connector provides power and I/O, including non-isolated input × 1 (Line 0), non-isolated output × 1 (Line 1), and bi-directional non-isolated I/O × 1 (Line 2).	
Power supply		9 VDC to 24 VDC, supports PoE	
Power consumption		Typ. 2.6 W @ 12 VDC	Typ. 2.7 W @ 12 VDC
Mechanical			
Lens mount		C-mount or M12-mount	
Dimension		29 mm × 29 mm × 30.2 mm (1.1" × 1.1" × 1.2")	
Weight		Approx. 45 g (0.1 lb.)	
Temperature		Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: −30 °C to 80 °C (−22 °F to 176 °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, 64-bit Windows 11, 32/64-bit Linux	
Compatibility		GigE Vision V2.0, GenICam	
Certification		CE, RoHS, KC	

Dimension

Camera with C-mount:



Camera with M12-mount:

