AGT Absolute Gauge Technologies™

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HIKROBOT

MV-CS016-11GM

1.6MP 1/2.9" CMOS GigE Area Scan Camera

GEN<i>CAM

GigE VISION

Introduction

MV-CS016-11GM camera adopts Sony® IMX 273 CMOS 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 78.2 fps in full resolution.

Key Feature

- Adopts brand new design to reduce power consumption.
- 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 delay.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Compatible with GigE Vision V2.0 Protocol, GenlCam Standard, and third-party software based on the protocol and standard.
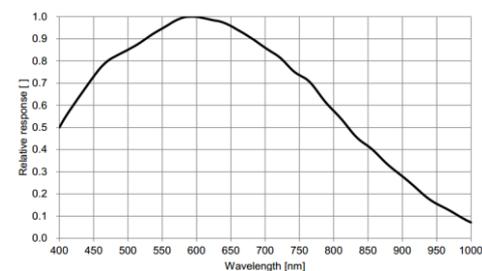
Dimension

Available Model

MV-CS016-11GM

Applicable Industry

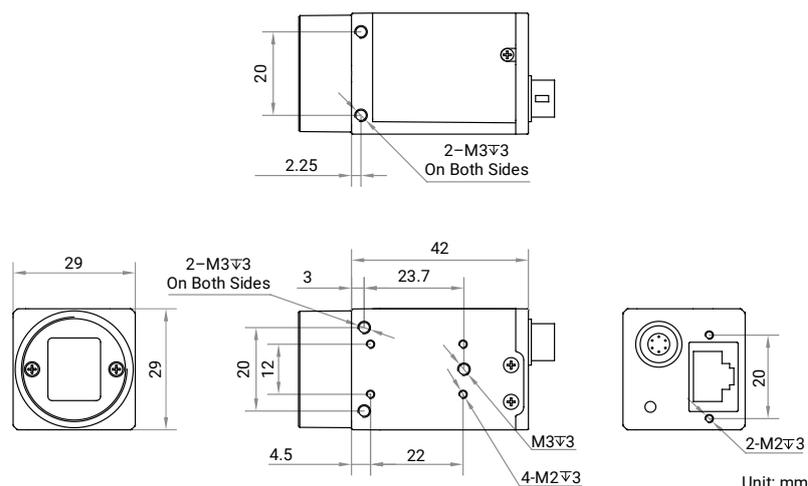Electrical semiconductor, factory automation, food and beverage, pharmaceutical packaging, etc.

Sensor Quantum

Efficiency

MV-CS016-11GM

Unit: mm

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Specification

Model	MV-CS016-11GM
Performance	
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
Max. frame rate	78.2 fps @1440 × 1080 Mono 8
Dynamic range	74 dB
SNR	41 dB
Gain	0 dB to 24 dB
Exposure time	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
Pixel format	Mono 8/10/10Packed/12/12Packed
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 (1000 Mbit/s), compatible with Fast Ethernet (100 Mbit/s)
Digital I/O	6-pin P7 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. 2.3 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 80 °C (−22 °F to 176 °F)
Humidity	20% RH to 95% RH (no condensation)
General	
Client software	MVS or third-party software meeting with GigE Vision Protocol
Operating system	32/64-bit Windows XP/7/10/11, 32/64-bit Linux, and 64-bit MacOS
Compatibility	GigE Vision V2.0, GenlCam
Certification	CE, RoHS, KC