MV-CE100-31GM

10 MP, 1/2.3" CMOS, GigE Area Scan Camera

Introduction

MV-CE100-31GM 10 MP 1/2.3" CMOS GigE 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, and etc.
- Supports hardware trigger, software trigger, and etc.
- Compatible with GigE Vision V1.2 Protocol and the third-party software based on the protocol
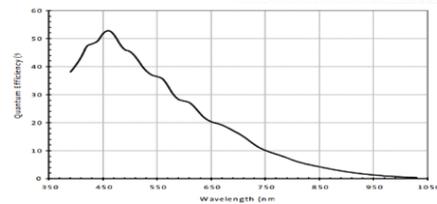
Accessories

- Power: 12 VDC @1A power adapter
- NIC: Intel Pro1000 and above version recommended
- Network Cable: CAT5e or CAT6 network cable recommended

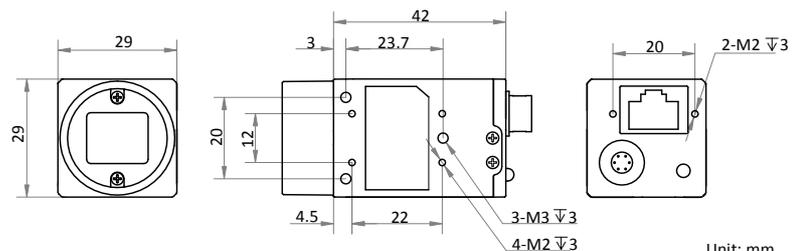## Sensor Quantum Efficiency

MV-CE100-31GM

Applicable Industry

Electronic semiconductor, factory automation, quality inspection and etc.

Available Model

Mono Camera: MV-CE100-31GM

Dimension

Unit: mm

Specification

Model	MV-CE100-31GM
Parameters	10 MP, 1/2.3" CMOS, GigE Area Scan Camera
Camera	
Sensor type	CMOS, rolling shutter
Sensor model	MT9J003
Pixel size	1.67 µm × 1.67 µm
Sensor size	1/2.3"
Resolution	3840 × 2748
Frame rate	11 fps
Dynamic range	65 dB
SNR	34 dB
Gain	0 dB to 15.3 dB
Exposure time	26 µs to 1 s
Shutter mode	Off/Once/Continuous exposure mode
Pixel format	Mono 8/10/10p/12/12p
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	Approx. 2.6 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