

MV-CE013-80UM

1.3 MP, 1/2.7" CMOS, USB3.0 Camera



GEN<i>i>CAM

US3™
VISION

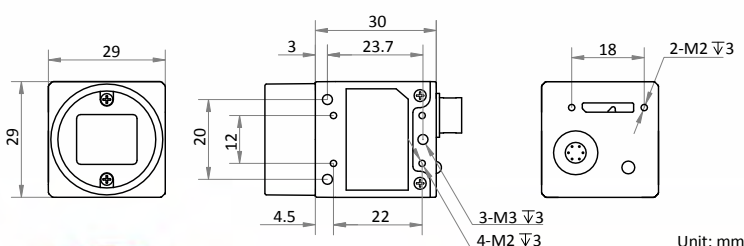
Introduction

MV-CE013-80UM 1.3 MP 1/2.7" CMOS USB 3.0 Camera is a high quality device that can be used in a variety of applications, including electronic semiconductor fabrication, factory automation, logistics code reading, bottle inspection and medical packaging.

Key Feature

- Supports auto exposure control, LUT, Gamma correction, and etc.
- Supports hardware trigger, software trigger, and etc.
- Embedded excellent interpolation algorithm for a better color reduction
- Adopts compact structure, and suitable for tight mounting requirement
- The USB3.0 interface is tightly locked to prevent accidental unplugging and dropping
- Compatible with USB3 Vision V1.0 Protocol

Dimension



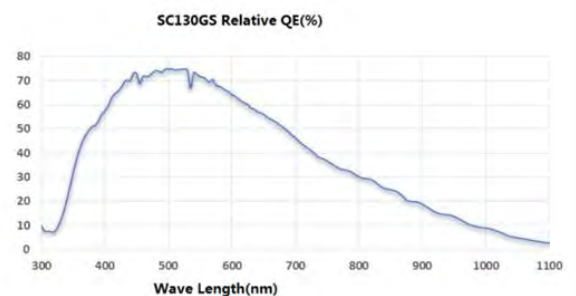
Available Model

Mono Camera: MV-CE013-80UM

Applicable Industry

Electronic semiconductor, factory automation, logistics code reading, bottle inspection, medical packaging, and etc.

Sensor Quantum Efficiency



Specification

Model	MV-CE013-80UM
Camera	
Sensor type	CMOS, global shutter
Sensor model	SS
Pixel size	4.0 μm \times 4.0 μm
Sensor size	1/2.7"
Resolution	1280 \times 1024
Max. frame rate	148 fps @1280 \times 1024
Dynamic range	60 dB
SNR	40 dB
Gain	0 dB to 20 dB
Exposure time	30 μs to 10 s
Shutter mode	Off/Once/Continuous exposure mode
Pixel format	Mono 8/10/10p/12/12p
Reverse image	Supports horizontal and vertical reverse image output
Image buffer	128 MB
Electrical features	
Data interface	USB3.0
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 USB3.0 power supply
Power consumption	< 1.93 W@5 VDC
Structure	
Lens mount	C-Mount
Dimension	29 mm \times 29 mm \times 30 mm (1.1" \times 1.1" \times 1.2")
Weight	< 56 g (0.12 lb.)
Ingress protection	IP30 (under proper lens installation and wiring)
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)
Humidity	20% to 80% RH, without condensation
General	
Client software	MVS or third-party software meeting with USB3.0 Vision Protocol
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS
Compatibility	USB3 Vision V1.0
Certification	CE, FCC, RoHS, KC

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