

MV-CE013-80UM

1.3 MP 1/2.7" CMOS USB3.0 Area Scan Camera



GEN*i*CAM

US3TM
VISION

Introduction

MV-CE013-80UM provides high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 148 fps in full resolution.

Key Feature

- Supports auto and manual adjustment for gain, exposure control, LUT, Gamma correction, etc.
- Supports hardware triggering, software triggering and free run mode.
- Adopts M2 screw holes for securing cable that connects USB3.0 interface.
- Compatible with USB3 Vision Protocol, GeniCam Standard, and the third-party software based on these protocol and standard.

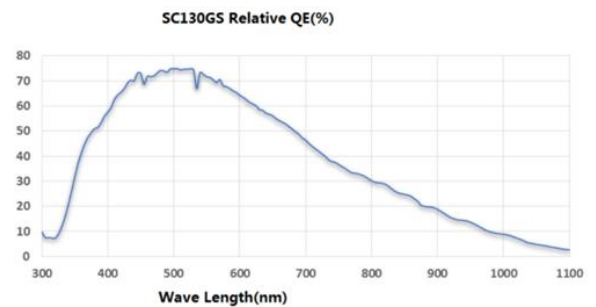
Available Model

Mono camera: MV-CE013-80UM

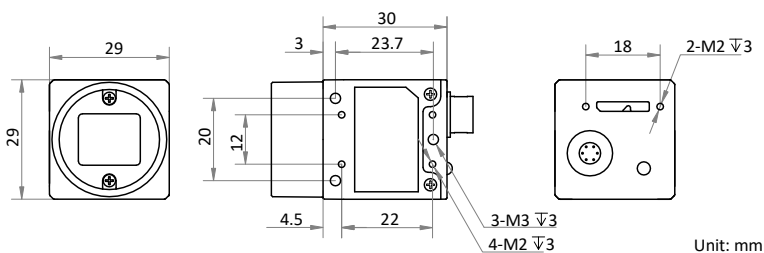
Applicable Industry

Electronic semiconductor, factory automation, liquor and beverage, medicine packing, etc.

Sensor Quantum Efficiency



Dimension



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 1 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/10p/12/12p
Binning	Not support
Decimation	Not support
Reverse image	Supports horizontal and vertical reverse image output
Electrical feature	
Data interface	USB3.0, compatible with USB2.0
Digital I/O	6-pin P7 connector provides power and I/O, including opto-isolated input $\times$ 1 (Line 0), opto-isolated output $\times$ 1 (Line 1), and bi-directional non-isolated I/O $\times$ 1 (Line 2)
Power supply	12 VDC, supports USB3.0 power supply
Power consumption	Typ. 2.4 W @ 5 VDC (USB3.0 provides power supply)
Mechanical	
Lens mount	C-mount
Dimension	29 mm $\times$ 29 mm $\times$ 30 mm (1.1" $\times$ 1.1" $\times$ 1.2")
Weight	Approx. 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% RH to 80% RH (no condensation)
General	
Client software	MVS or third-party software meeting with USB3.0 Vision Protocol
Operating system	32/64-bit Windows 7/10, 32/64-bit Linux
Compatibility	USB3 Vision, GenICam
Certification	CE, RoHS, KC