

# MV-CE013-80UM

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



GEN<i>i>CAM

US3™  
VISION

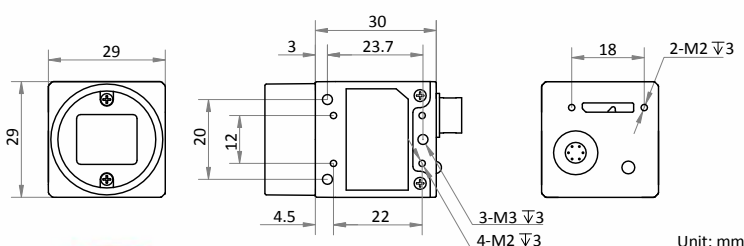
## Introduction

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



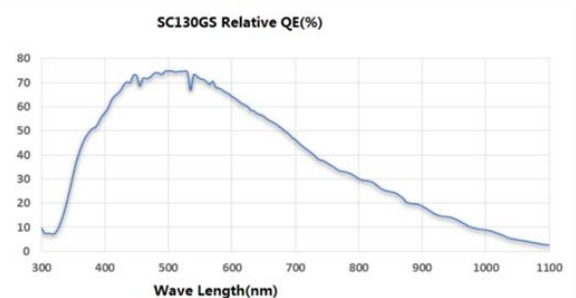
## Available Model

Mono Camera: MV-CE013-80UM

## Applicable Industry

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

## Sensor Quantum Efficiency



## Specification

<b>Model</b>	<b>MV-CE013-80UM</b>
<b>Camera</b>	
<b>Sensor type</b>	CMOS, global shutter
<b>Sensor model</b>	SS
<b>Pixel size</b>	4.0 $\mu\text{m}$ $\times$ 4.0 $\mu\text{m}$
<b>Sensor size</b>	1/2.7"
<b>Resolution</b>	1280 $\times$ 1024
<b>Max. frame rate</b>	148 fps @1280 $\times$ 1024
<b>Dynamic range</b>	60 dB
<b>SNR</b>	40 dB
<b>Gain</b>	0 dB to 20 dB
<b>Exposure time</b>	30 $\mu\text{s}$ to 10 s
<b>Shutter mode</b>	Off/Once/Continuous exposure mode
<b>Pixel format</b>	Mono 8/10/10p/12/12p
<b>Reverse image</b>	Supports horizontal and vertical reverse image output
<b>Image buffer</b>	128 MB
<b>Electrical features</b>	
<b>Data interface</b>	USB3.0
<b>Digital I/O</b>	Opto-isolated input x 1, opto-isolated output x 1, and bi-directional non-isolated I/O x 1
<b>Power supply</b>	5 VDC to 15 VDC, supports USB3.0 power supply
<b>Power consumption</b>	< 1.93 W@5 VDC
<b>Structure</b>	
<b>Lens mount</b>	C-Mount
<b>Dimension</b>	29 mm $\times$ 29 mm $\times$ 30 mm (1.1" $\times$ 1.1" $\times$ 1.2")
<b>Weight</b>	< 56 g (0.12 lb.)
<b>Ingress protection</b>	IP30 (under proper lens installation and wiring)
<b>Temperature</b>	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 $^{\circ}\text{F}$ )
<b>Humidity</b>	20% to 80% RH, without condensation
<b>General</b>	
<b>Client software</b>	MVS or third-party software meeting with USB3.0 Vision Protocol
<b>Operating system</b>	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS
<b>Compatibility</b>	USB3 Vision V1.0
<b>Certification</b>	CE, FCC, RoHS, KC



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