

# MV-CE013-80UM

1.3MP1/2.7"CMOSUSB3.0AreaScan Camera



GEN*i*CAM

US3<sup>TM</sup>  
VISION

## Introduction

MV-CE013-80UM provides high-quality image. It uses Monocamera: MV-CE013-80UM 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.

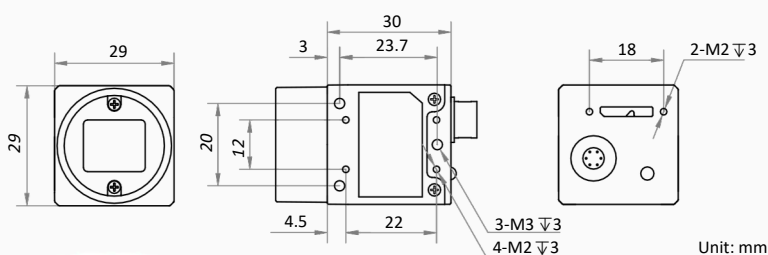


Adopts M2 screw holes for securing cable that connects USB3.0 interface.



Compatible with USB3 Vision Protocol, GenICam Standard, and the third-party software based on these protocol and standard.

## Dimension

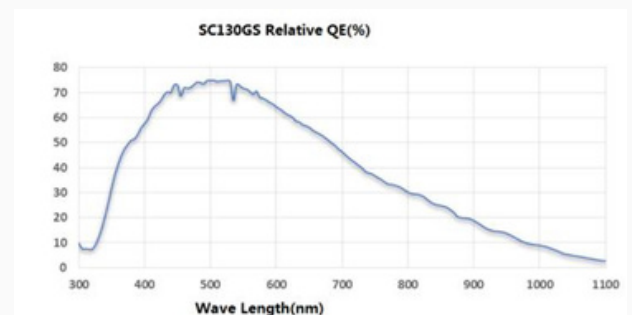


## Available Model

## Applicable Industry

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

## Sensor Quantum Efficiency



viscontechonology.com

## Specification

|                           |                   |                                                                                                                                                                                                                                                   |
|---------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model</b>              | <b>Camera</b>     | <b>MV-CE013-80UM</b>                                                                                                                                                                                                                              |
| <b>Sensor</b>             | <b>type</b>       |                                                                                                                                                                                                                                                   |
| <b>Sensor</b>             | <b>model</b>      | CMOS, global shutter                                                                                                                                                                                                                              |
| <b>Pixel size</b>         | <b>Sensor</b>     | SS                                                                                                                                                                                                                                                |
| <b>size</b>               | <b>Resolution</b> | 4.0 $\mu\text{m}$ $\times$ 4.0 $\mu\text{m}$                                                                                                                                                                                                      |
| <b>Max. frame rate</b>    |                   | 1/2.7"                                                                                                                                                                                                                                            |
| <b>Dynamic range</b>      |                   | 1280 $\times$ 1024                                                                                                                                                                                                                                |
| <b>SNR</b>                | <b>Gain</b>       | 148 fps @1280 $\times$ 1024                                                                                                                                                                                                                       |
| <b>Exposure time</b>      |                   | 60 dB                                                                                                                                                                                                                                             |
| <b>Exposure mode</b>      |                   | 40 dB                                                                                                                                                                                                                                             |
| <b>Mono/color</b>         | <b>Pixel</b>      | 0 dB to 20 dB                                                                                                                                                                                                                                     |
| <b>format</b>             | <b>Binning</b>    | 30 $\mu\text{s}$ to 1 sec                                                                                                                                                                                                                         |
| <b>Decimation</b>         |                   | Off/Once/Continuous exposure mode                                                                                                                                                                                                                 |
| <b>Reverse image</b>      |                   | Mono                                                                                                                                                                                                                                              |
| <b>Electrical feature</b> |                   | Mono 8/10/10p/12/12p                                                                                                                                                                                                                              |
| <b>Data interface</b>     |                   | Not support                                                                                                                                                                                                                                       |
| <b>Digital I/O</b>        |                   | Not support                                                                                                                                                                                                                                       |
|                           |                   | Supports horizontal and vertical reverse image output                                                                                                                                                                                             |
|                           |                   |                                                                                                                                                                                                                                                   |
|                           |                   | USB3.0, compatible with USB2.0                                                                                                                                                                                                                    |
|                           |                   | 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)                                                   |
| <b>Power supply</b>       |                   | 12 VDC, supports USB3.0 power supply                                                                                                                                                                                                              |
| <b>Power consumption</b>  |                   | Typ. 2.4 W@5 VDC (USB3.0 provides power supply)                                                                                                                                                                                                   |
| <b>Mechanical</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>             |                   | Approx. 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 $^{\circ}\text{F}$ )<br>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, non-condensing                                                                                                                                                                                                                     |
| <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, GenICam                                                                                                                                                                                                                              |
| <b>Certification</b>      |                   | CE, FCC, RoHS, KC                                                                                                                                                                                                                                 |

**HIKROBOT**

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