

MV-CU013-80UM/UC

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



GEN*i*CAM

USBTM VISION

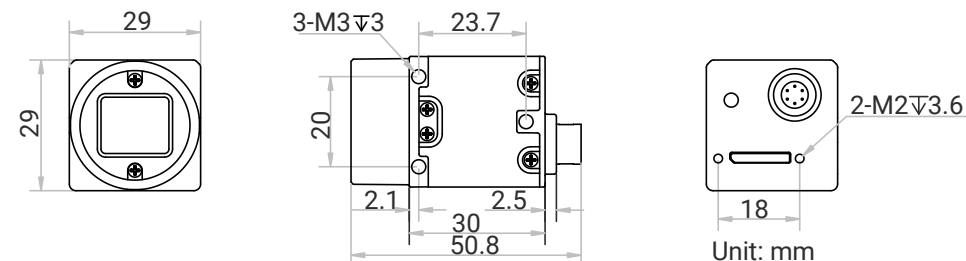
Introduction

MV-CU013-80UM/UC camera provides high-quality images. It uses USB3.0 interface to transmit images in real time, and its max. frame rate can reach 240.4 fps in full resolution.

Key Feature

- Supports auto or manual adjustment of gain, exposure time, manual adjustment of LUT, Gamma correction, etc.
- Supports hardware trigger, software trigger, free run, etc.
- Adopts compact design for flexible installation.
- Compatible with USB3 Vision Protocol, GeniCam Standard, and third-party software based on the protocol and standard.

Dimension



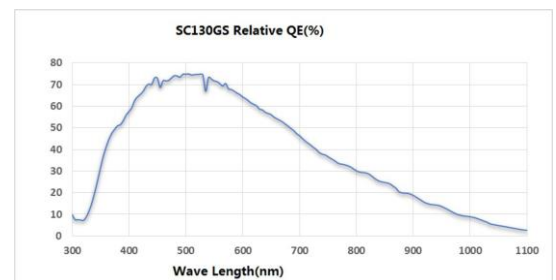
Available Model

- Mono camera: MV-CU013-80UM
- Color camera: MV-CU013-80UC

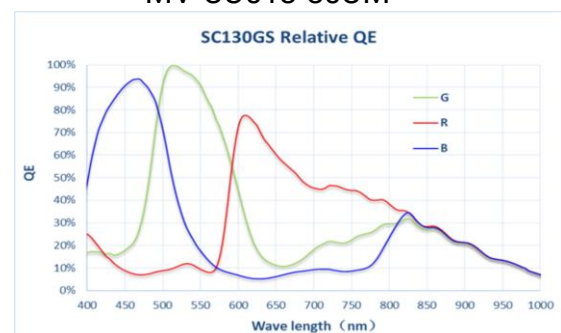
Applicable Industry

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

Sensor Quantum Efficiency



MV-CU013-80UM



MV-CU013-80UC

Specification

Model	MV-CU013-80UM	MV-CU013-80UC
Performance		
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	240.4 fps @1280 \times 1024 Mono 8	240.4 fps @1280 \times 1024 Bayer BG 8
Dynamic range	50.6 dB	
SNR	38.7 dB	
Gain	0 dB to 20 dB	
Exposure time	30 μs to 1 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10Packed/12/12Packed	Bayer BG 8/10/10Packed/12/12Packed
Binning	Supports 1 \times 1, 2 \times 2, 4 \times 4	
Decimation	Supports 1 \times 1, 2 \times 2, 4 \times 4	
Reverse image	Supports horizontal and vertical reverse image output	
Electrical features		
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	9 VDC to 24 VDC, supports USB3.0 power supply	
Power consumption	Typ. 1.7 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. 77 g (0.2 lb.)	
Ingress protection	IP40 (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, non-condensing	
General		
Client software	MVS or third-party software meeting with USB3 Vision Protocol	
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	
Compatibility	USB3 Vision, GenICam	
Certification	CE, RoHS, KC	