

MV-CS013-80UM/UC

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



GEN*i*CAM

US3TM
VISION

Introduction

MV-CS013-80UM/UC camera adopts CMOS sensor to provide high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 240.4 fps in full resolution.

Key Features

- Adopts brand new design to reduce power consumption.
- Supports auto and manual adjustment of gain, exposure time, and manual adjustment of LUT, Gamma correction, etc.
- Supports customized ROI, horizontal and vertical reverse image output.
- Adopts compact design for flexible installation.
- Compatible with USB3 Vision Protocol, GenICam Standard, and third-party software based on the protocol and standard.

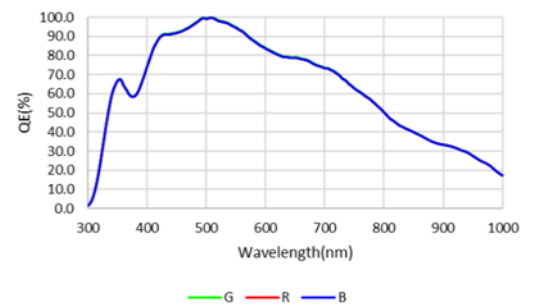
Available Model

- Mono camera: MV-CS013-80UM
- Color camera: MV-CS013-80UC

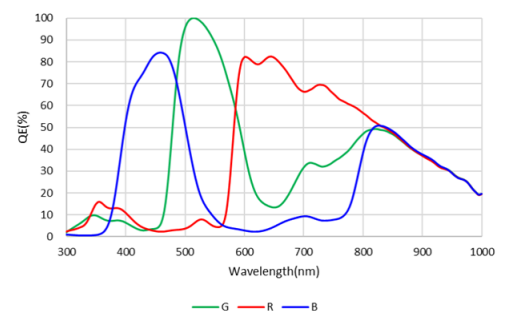
Applicable Industry

Electronic semiconductor, factory automation, logistics, medicine packing, etc.

Sensor Quantum Efficiency

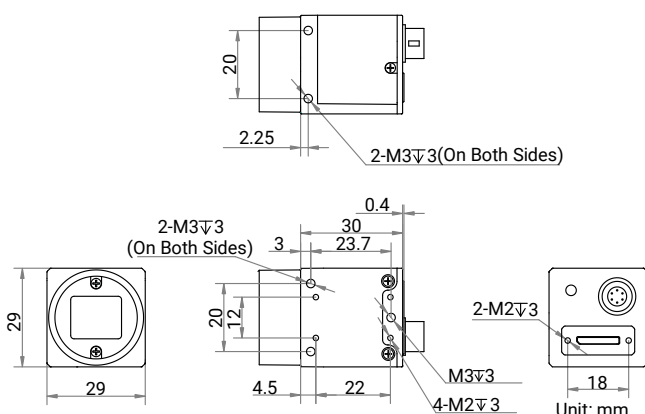


MV-CS013-80UM



MV-CS013-80UC

Dimension



Specification

Model	MV-CS013-80UM	MV-CS013-80UC
Performance		
Sensor type	CMOS, global shutter	
Sensor model	SS	
Pixel size	4.0 μm × 4.0 μm	
Sensor size	1/2.7"	
Resolution	1280 × 1024	
Max. frame rate	240.4 fps @ 1280 × 1024 Mono 8	240.4 fps @ 1280 × 1024 Bayer BG 8
Dynamic range	57 dB	
SNR	38 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	Mono 8 Bayer BG 8/10/10Packed/12/12Packed YUV422_YUYV_Packed, YUV422Packed RGB 8, BGR 8
Binning	Supports 1 × 1, 2 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2, 4 × 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 × 1 (Line 0), opto-isolated output × 1 (Line 1), and bi-directional non-isolated I/O × 1 (Line 2).	
Power supply	9 VDC to 24 VDC, supports USB power supply	
Power consumption	Typ. 1.3 W @ 5 VDC (USB3.0 provides power supply)	
Mechanical		
Lens mount	C-mount	
Dimension	29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")	
Weight	Approx. 80 g (0.2 lb.)	
Ingress protection	IP40 (under proper lens installation and wiring)	
Temperature	Working temperature: −30 °C to 60 °C (−22 °F to 140 °F) Storage temperature: −30 °C to 80 °C (−22 °F to 176 °F)	
Humidity	20% RH to 95% RH (no condensation)	
General		
Client software	MVS or third-party software meeting with USB3 Vision Protocol	
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, and 32/64-bit Linux	
Compatibility	USB3 Vision, GenICam	
Certification	CE, RoHS, KC	