MV-CE013-50UM/UC

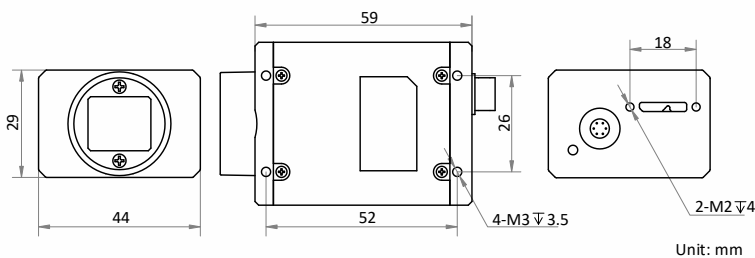## 1.3 MP 1/3" CCD USB3.0 Area Scan Camera

GEN<i>CAM

US3 VISION

Introduction

MV-CE013-50UM/UC adopts Sharp RJ33 sensor and provides high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 30 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, GenlCam Standard, and the third-party software based on these protocol and standard.
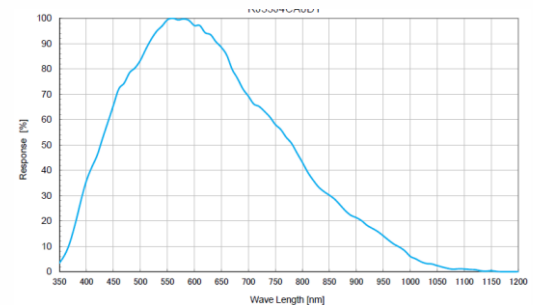
Dimension

Unit: mm

Available Model

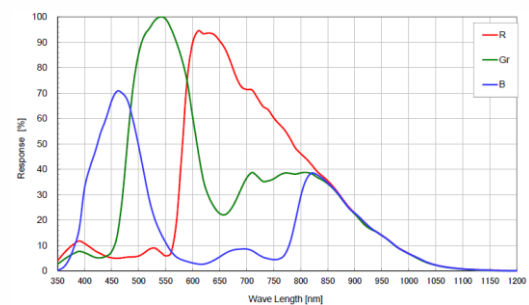- Mono camera: MV-CE013-50UM
- Color camera: MV-CE013-50UC

Applicable Industry

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

Sensor Quantum Efficiency

MV-CE013-50UM

MV-CE013-50UC

Specification

Model	MV-CE013-50UM	MV-CE013-50UC
Camera		
Sensor type	CCD, global shutter	
Sensor model	Sharp RJ33	
Pixel size	3.75 µm × 3.75 µm	
Sensor size	1/3"	
Resolution	1280 × 960	
Max. frame rate	30 fps @1280 × 960	
Dynamic range	60 dB	
SNR	37 dB	
Gain	0 dB to 20 dB	
Exposure time	10 µs to 1 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, RGB8
Binning	Supports 1 × 1, 1 × 2, 2 × 1, 2 × 2	
Decimation	Supports 1 × 1, 1 × 2, 2 × 1, 2 × 2	
Reverse image	Supports horizontal reverse image output	
Electrical feature		
Data interface	USB3.0, compatible with USB2.0	
Digital I/O	6-pin Hirose 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	12 VDC, supports USB3.0 power supply	
Power consumption	Typ. 2.7 W@5 VDC (USB3.0 provides power supply)	
Mechanical		
Lens mount	C-Mount	
Dimension	29 mm × 44 mm × 59 mm (1.1" × 1.7" × 2.3")	
Weight	Approx. 100 g (0.2 lb.)	
Ingress protection	IP30 (under correct lens installation and wiring)	
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)	
Humidity	20% to 80% RH, non-condensing	
General		
Client software	MVS or third-party software 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, FCC, RoHS, KC	