MV-CE200-10UM/UC

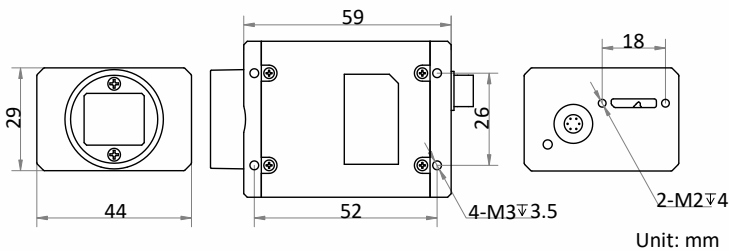## 20 MP 1" CMOS USB3.0 Area Scan Camera

GEN<i>CAM

USB VISION

Introduction

MV-CE200-10UM/UC camera adopts Sony® IMX183 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 19.2 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.
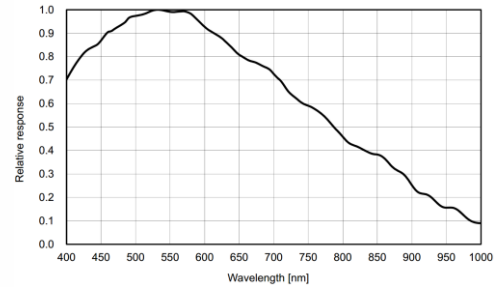
Dimension

Unit: mm

Available Model

- Mono camera: MV-CE200-10UM
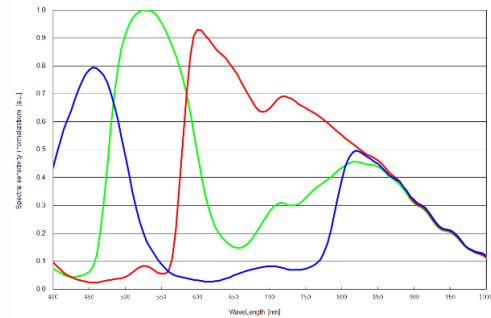- Color camera: MV-CE200-10UC

Applicable Industry

Electronic semiconductor, factory automation, medical packaging, etc.

Sensor Quantum Efficiency

MV-CE200-10UM

MV-CE200-10UC

Aremak Bilişim Teknolojileri
Endüstriyel Görüntü İşleme Çözümleri

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Specification

Model	MV-CE200-10UM	MV-CE200-10UC
Camera		
Sensor type	CMOS, rolling shutter	
Sensor model	Sony® IMX183	
Pixel size	2.4 µm × 2.4 µm	
Sensor size	1"	
Resolution	5472 × 3648	
Max. frame rate	19.2 fps @5472 × 3648	
Dynamic range	65.5 dB	
SNR	41.5 dB	
Gain	0 dB to 20 dB	
Exposure time	28 µs to 0.7 sec	44 µs to 0.7 sec
Exposure mode	Off/Once/Continuous exposure mode, supports Global Reset and Rolling	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer GB 8/10/10p/12/12p, YUV422_YUYV_Packed, YUV 422 Packed, RGB8, BGR8
Binning	Supports 1 × 1, 2 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2, 4 × 4	
Reverse image	Supports horizontal reverse image output	
Image buffer	128 MB	
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), bi-directional non-isolated I/O × 1 (Line 2)	
Power supply	12 VDC, supports USB3.0 power supply	
Power consumption	Typ. 2.83 W@5 VDC (USB3.0 provides power supply)	
Mechanical		
Lens mount	C-Mount	
Dimension	44 mm × 29 mm × 59 mm (1.7" × 1.1" × 2.3")	
Weight	Approx. 100 g (0.2 lb.)	
Ingress protection	IP30 (under proper 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 meeting with USB3.0 Vision Protocol	
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	
Compatibility	USB3 Vision, GenlCam	
Certification	CE, FCC, RoHS, KC	