

MV-CE200-11UM

20 MP 1" CMOS USB3.0 Area Scan Camera



GEN*i*CAM

US3™
VISION

Introduction

MV-CE200-11UM camera adopts Sony IMX183 sensor to provide high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time with max. frame rate reaching 14 fps.

Key Feature

- Supports auto and manual adjustment for gain, exposure control, white balance, 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

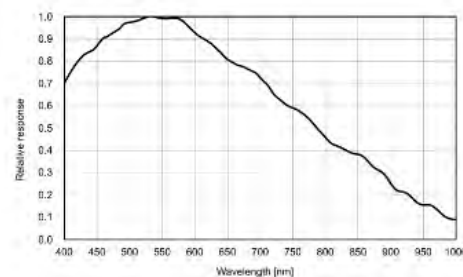
Available Model

Mono camera: MV-CE200-11UM

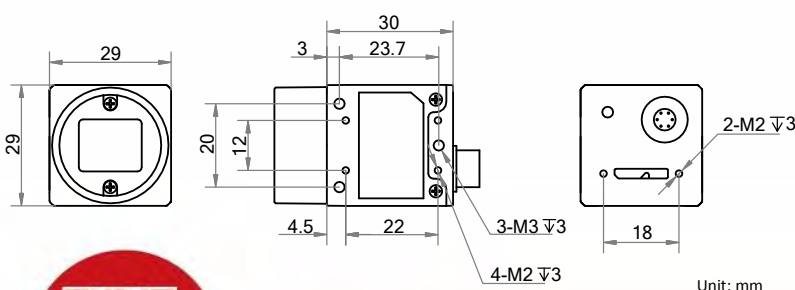
Applicable Industry

SMT/ PCB AOI, FPD, etc.

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CE200-11UM
Camera	
Sensor type	CMOS, rolling shutter
Sensor model	Sony IMX183
Pixel size	2.4 μm \times 2.4 μm
Sensor size	1"
Resolution	5472 \times 3648
Max. frame rate	14 fps @5472 \times 3648
Dynamic range	65.5 dB
SNR	41.5 dB
Gain	0 dB to 20 dB
Exposure time	19 μs to 1 s
Shutter mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/10p/12/12p
Binning	Supports 1 \times 2, 1 \times 4, 2 \times 1, 2 \times 2, 2 \times 4, 4 \times 1, 4 \times 2, 4 \times 4
Decimation	Supports 1 \times 2, 1 \times 4, 2 \times 1, 2 \times 2, 2 \times 4, 4 \times 1, 4 \times 2, 4 \times 4
Reverse image	Supports horizontal reverse image output
Image buffer	128 MB
Electrical features	
Data interface	USB3.0
Digital I/O	6-pin Hirose connector provides power and I/O, including Opto-isolated input x 1 (Line 0), Opto-isolated output x 1 (Line 1), bi-directional non-isolated I/O x 1 (Line 2)
Power supply	5 VDC to 15 VDC, supports USB3.0 power supply
Power consumption	< 2.83 W@12 VDC
Structure	
Lens mount	C-Mount
Dimension	29 mm \times 29 mm \times 30 mm (1.1" \times 1.1" \times 1.2")
Weight	Approx. 80 g (0.2 lb.)
Ingress protection	IP30 (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, without condensation
General	
Client software	MVS or third-party software meeting with USB3 Vision Protocol
Operating system	32/64-bit Windows XP/7/10 and 32/64-bit Linux
Compatibility	USB3 Vision, GenICam
Certification	CE, FCC, RoHS, KC

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