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, 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, GenlCam Standard, and the third-party software based on these protocol and standard.
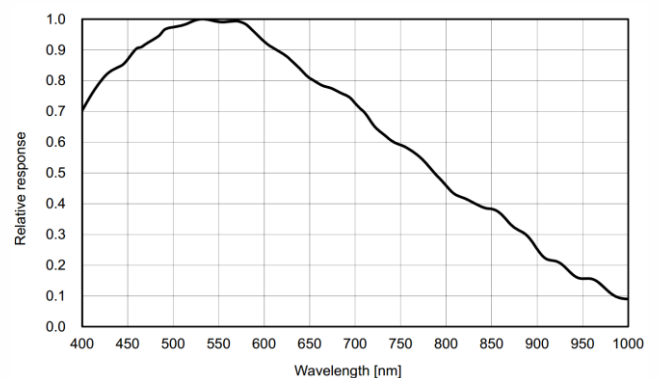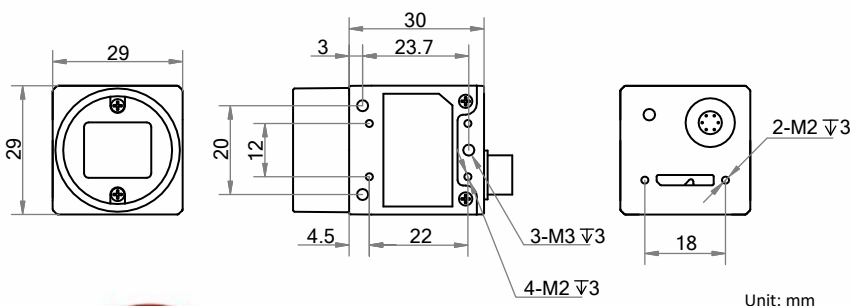
Available Model

Mono camera: MV-CE200-11UM

Applicable Industry

SMT/ PCB AOI, FPD, etc.

Sensor Quantum Efficiency

Dimension

Unit: mm

Specification

Model	MV-CE200-11UM
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
Exposure mode	Off/Once/Continuous exposure mode, supports Global Reset and Rolling
Mono/color	Mono
Pixel format	Mono 8/10/10p/12/12p
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	9 VDC to 24 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	29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")
Weight	Approx. 80 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 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