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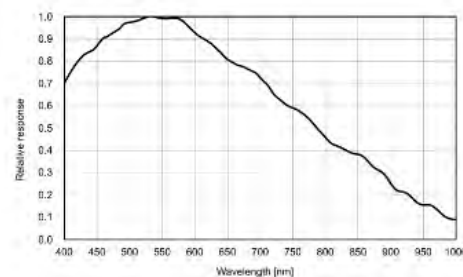
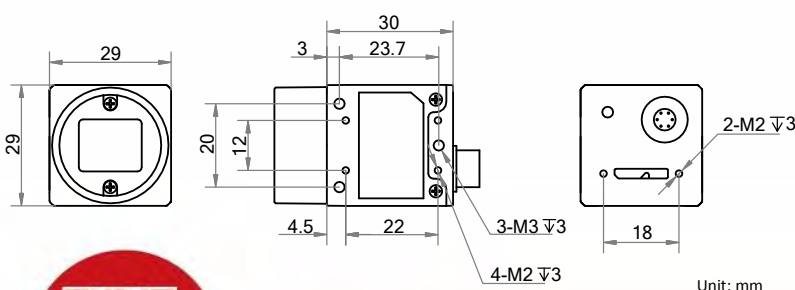## Available Model

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 | 14 fps @5472 × 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 x 2, 1 x 4, 2 x 1, 2 x 2, 2 x 4, 4 x 1, 4 x 2, 4 x 4 |
| Decimation | Supports 1 x 2, 1 x 4, 2 x 1, 2 x 2, 2 x 4, 4 x 1, 4 x 2, 4 x 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 × 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, 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 |