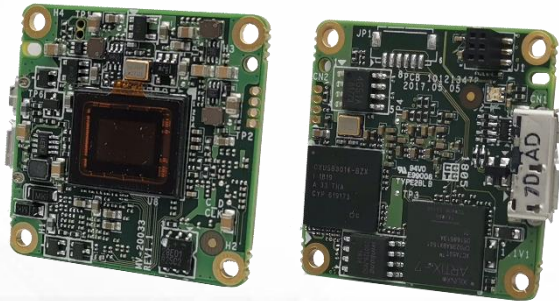


MV-CB060-10UM/UC-B

6 MP 1/1.8" CMOS USB3.0 Board Level Camera



GEN*i*CAM

USB™
VISION

Introduction

MV-CB060-10UM/UC-B camera adopts Sony IMX178 sensor to provide high-quality image. With single board design, it is small in size, which can meet different spatial requirements.

Key Feature

- Single board design for flexible installation
- Supports auto and manual adjustment for gain, exposure control, white balance, LUT, etc.
- Adopts image interpolation algorithm for color camera to have better color correction
- Power supply and data transmission via USB3.0 interface
- Compatible with USB3 Vision Protocol, GenICam standard, and the third-party software based on these protocol and standard

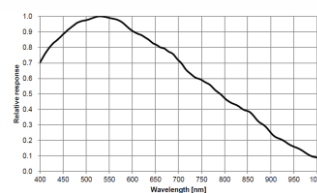
Available Model

Mono camera: MV-CB060-10UM-B
Color camera: MV-CB060-10UC-B

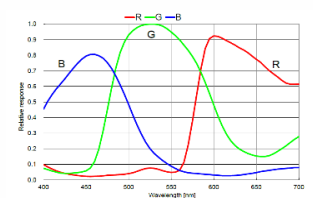
Applicable Industry

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

Sensor Quantum Efficiency

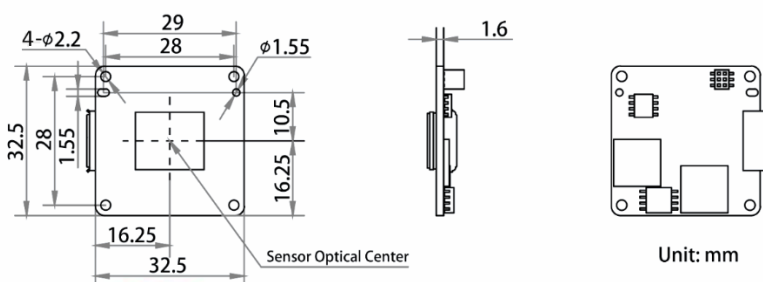


MV-CB060-10UM-B



MV-CB060-10UC-B

Dimension



Specification

| Model | MV-CB060-10UM-B | MV-CB060-10UC-B |
|----------------------------|---|---|
| Camera | | |
| Sensor type | CMOS, rolling shutter | |
| Sensor model | Sony IMX178 | |
| Pixel size | 2.4 μm \times 2.4 μm | |
| Sensor size | 1/1.8" | |
| Resolution | 3072 \times 2048 | |
| Max. frame rate | 17 fps @3072 \times 2048 | 29 fps @3072 \times 2048 |
| Dynamic range | 71.3 dB | |
| SNR | 41.3 dB | |
| Gain | 0 dB to 20 dB | |
| Exposure time | 27 μs to 2.5 s | 24 μs to 2.5 s |
| Shutter mode | Supports Off/ Once/ Continuous exposure mode | |
| Mono/color | Mono | Color |
| Pixel format | Mono 8/10/10p/12/12p | Mono8/10/12, Bayer RG 8/10/10p/12/12p YUV422Packed, YUV422_YUYV_Packed, RGB8 |
| Acquisition mode | Continuous mode and SingleFrame mode | |
| Binning | Supports 2 \times 2 | |
| Decimation | Not support | |
| Reverse image | Supports horizontal reverse image output | |
| Electrical features | | |
| Data interface | USB3.0 | |
| Digital I/O | Bi-directional non-isolated I/O \times 2 (Line 1, Line 2) | |
| Power supply | USB3.0 power supply | |
| Power consumption | < 2.0 W@5 VDC | |
| Structure | | |
| Dimension | 32.5 mm \times 32.5 mm \times 1.6 mm (1.3" \times 1.3" \times 0.1") | |
| Weight | Approx. 10 g (0.02 lb.) | |
| 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, 32/64-bit Linux | |
| Compatibility | USB3 Vision, GenICam | |
| Certification | CE, FCC, RoHS, KC | |

HIKROBOT

Hangzhou Hikrobot Technology Co., Ltd.
No.399 Danfeng Road, Binjiang District, Hangzhou 310051, China.
en.hikrobotics.com

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