

MV-CU120-10UM/UC

12 MP 1/1.7" CMOS USB3.0 Area Scan Camera



GEN*i*CAM

USBTM
VISION

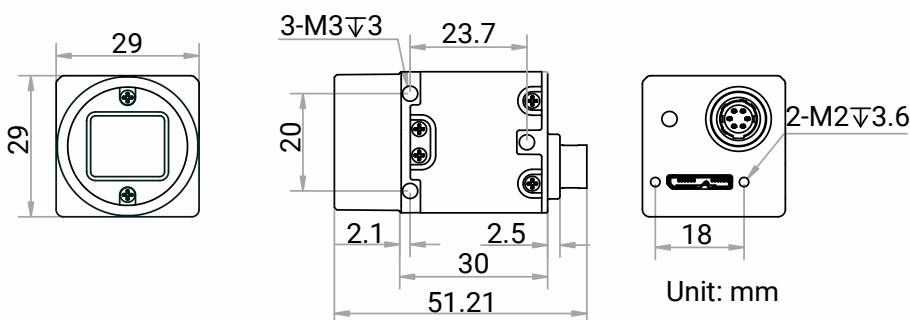
Introduction

MV-CU120-10UM/UC camera adopts Sony® IMX226 sensor to provide high-quality images. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 29.2 fps in full resolution.

Key Feature

- Adopts brand new design to reduce power consumption.
- Supports auto or manual adjustment of gain, exposure time, manual adjustment of LUT, Gamma correction, etc.
- Supports customized ROI, horizontal and vertical reverse image output.
- Adopts compact design for small spatial installation.
- Compatible with USB3 Vision Protocol, GenICam Standard, and the third-party software based on the protocol and standard.

Dimension



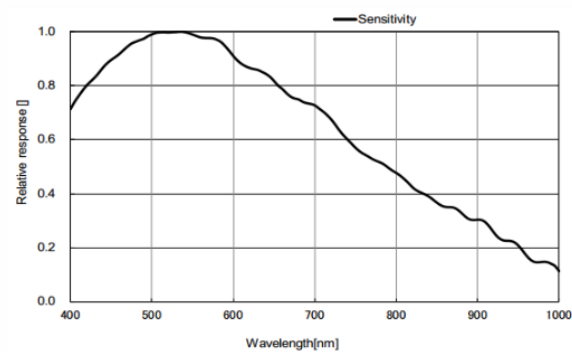
Available Model

- Mono camera: MV-CU120-10UM
- Color camera: MV-CU120-10UC

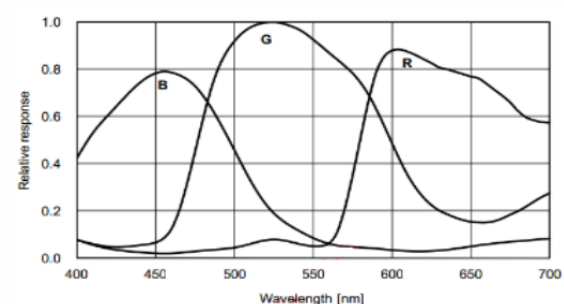
Applicable Industry

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

Sensor Quantum Efficiency



MV-CU120-10UM



MV-CU120-10UC



Specification

| Model | MV-CU120-10UM | MV-CU120-10UC |
|----------------------------|---|--|
| Performance | | |
| Sensor type | CMOS, rolling shutter | |
| Sensor model | Sony® IMX226 | |
| Pixel size | 1.85 μm × 1.85 μm | |
| Sensor size | 1/1.7" | |
| Resolution | 4024 × 3036 | |
| Max. frame rate | 29.2 fps @4024 × 3036 Mono 8 | 29.2 fps @4024 × 3036 Bayer RG 8 |
| Dynamic range | 69.4 dB | |
| SNR | 40.3 dB | |
| Gain | 0 dB to 24 dB | |
| Exposure time | 20 μs to 0.5 sec | |
| Exposure mode | Off/Once/Continuous exposure mode, supports Global Reset and Rolling | |
| Mono/color | Mono | Color |
| Pixel format | Mono 8/10/10Packed/12/12Packed | Bayer RG 8/10/10Packed/12/12Packed |
| Binning | Supports 1 × 1, 2 × 2, 4 × 4 | |
| Decimation | Supports 1 × 1, 2 × 2, 4 × 4 | |
| Reverse image | Supports horizontal and vertical reverse image output | |
| Electrical features | | |
| Data interface | USB3.0, compatible with USB2.0 | |
| Digital I/O | 6-pin P7 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. 1.9 W@5 VDC (USB3.0 provides power supply) | Typ. 2.0 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. 76 g (0.2 lb.) | |
| Ingress protection | IP40 (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, RoHS, KC | |

HIKROBOT

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