

MV-CU020-80GM/GC

2 MP 1/2.6" CMOS GigE Area Scan Camera



GEN<i>i</i>CAM

GIG<i>E</i>
VISION

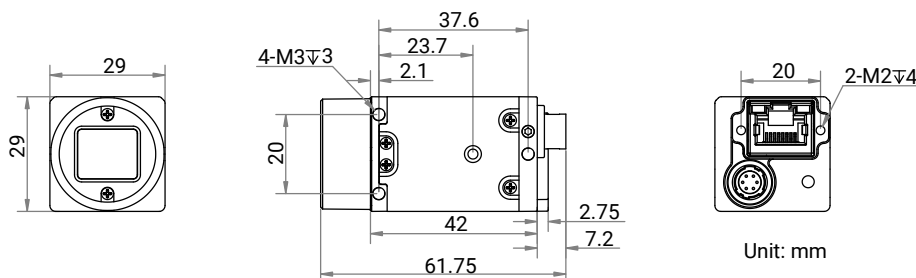
Introduction

MV-CU020-80GM/GC camera adopts CMOS sensor to provide high-quality images. It uses GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 53.5 fps in full resolution.

Key Features

- Adopts low consumption design with stable performance.
- Supports auto or manual adjustment of gain, exposure time, and manual adjustment of LUT, Gamma correction, etc.
- Supports customized ROI and supports horizontal and vertical reverse image output.
- Adopts compact design to meet small spatial requirements.
- Compatible with GigE Vision V2.0 Protocol, GenlCam Standard, and third-party software based on the protocol and standard.

Dimension



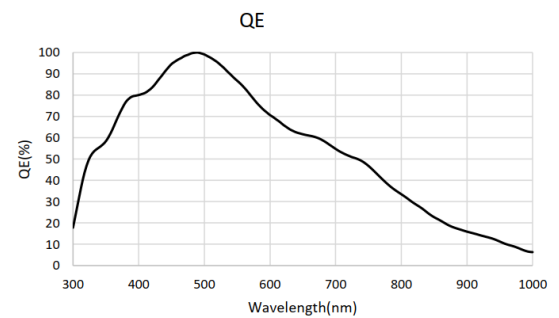
Available Model

- Mono camera: MV-CU020-80GM
- Color camera: MV-CU020-80GC

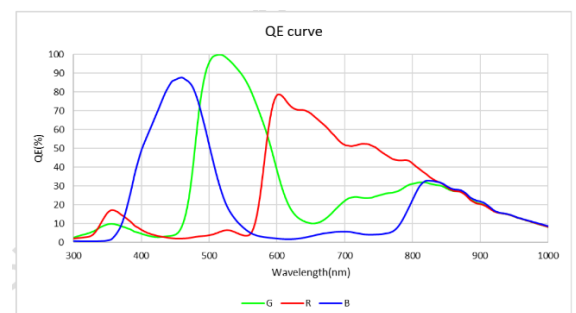
Applicable Industry

Electronics and semiconductor, factory automation, logistics and code reading, bottle detection, medicine package, etc.

Sensor Quantum Efficiency



MV-CU020-80GM



MV-CU020-80GC

Specification

| Model | MV-CU020-80GM | MV-CU020-80GC |
|----------------------------|---|--|
| Performance | | |
| Sensor type | CMOS, global shutter | |
| Sensor model | SC235 | |
| Pixel size | 3.45 μm \times 3.45 μm | |
| Sensor size | 1/2.6" | |
| Resolution | 1600 \times 1200 | |
| Max. frame rate | 53.5 fps @ 1600 \times 1200 Mono 8 | 53.5 fps @ 1600 \times 1200 Bayer BG 8 |
| Dynamic range | 60.4 dB | |
| SNR | 40.1 dB | |
| Gain | 0 dB to 24 dB | |
| Exposure time | 45 μs to 1 sec | |
| Exposure mode | Off/Once/Continuous exposure mode | |
| Mono/color | Mono | Color |
| Pixel format | Mono 8/10/10Packed/12/12Packed | Bayer BG 8/10/10Packed/12/12Packed |
| Binning | Supports 1 \times 1, 2 \times 2, 4 \times 4 | |
| Decimation | Supports 1 \times 1, 2 \times 2, 4 \times 4 | |
| Reverse image | Supports horizontal and vertical reverse image output | |
| Electrical features | | |
| Data interface | Gigabit Ethernet (1000 Mbit/s), compatible with Fast Ethernet (100 Mbit/s) | |
| Digital I/O | 6-pin P7 connector provides power and I/O, including opto-isolated input \times 1 (Line 0), opto-isolated output \times 1 (Line 1), bi-directional non-isolated I/O \times 1 (Line 2). | |
| Power supply | 9 VDC to 24 VDC, PoE is optional | |
| Power consumption | Typ. 1.8 W @ 12 VDC | Typ. 1.9 W @ 12 VDC |
| Mechanical | | |
| Lens mount | C-mount | |
| Dimension | 29 mm \times 29 mm \times 42 mm (1.1" \times 1.1" \times 1.7") | |
| Weight | Approx. 97 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 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$) | |
| Humidity | 20% RH to 95% RH (no condensation) | |
| General | | |
| Client software | MVS or third-party software meeting with GigE Vision Protocol | |
| Operating system | 32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux | |
| Compatibility | GigE Vision V2.0, GenICam | |
| Certification | CE, RoHS, KC | |