

MV-CH160-60GM

16 MP 1.1" CMOS GigE Area Scan Camera



GEN<i>i</i>CAM

GIG<i>E</i>
VISION

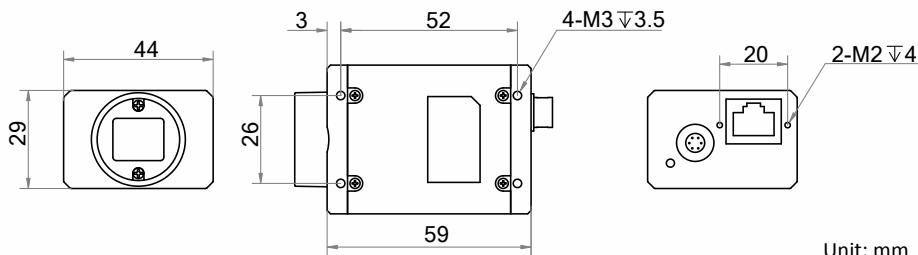
Introduction

MV-CH160-60GM 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 7.25 fps in full resolution.

Key Feature

- Resolution of 4000 × 4000, pixel size of 3.2 μm × 3.2 μm.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Supports hardware trigger, software trigger, and free run.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

Dimension



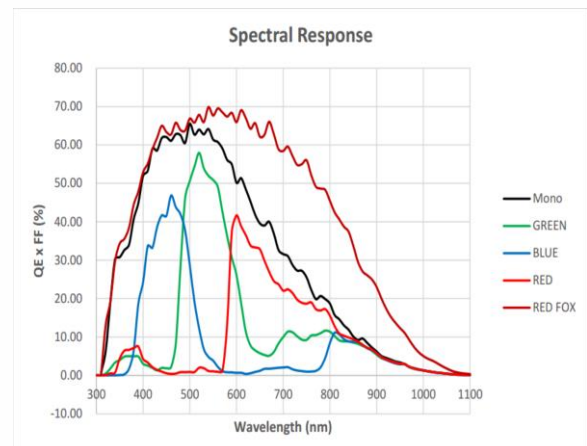
Available Model

MV-CH160-60GM

Applicable Industry

Lithium battery, SMT/ PCB AOI, FPD, railway related applications, etc.

Sensor Quantum Efficiency



Specification

| | |
|---------------------------|---|
| Model | MV-CH160-60GM |
| Camera | |
| Sensor type | CMOS, global shutter |
| Sensor model | HK |
| Pixel size | 3.2 μm \times 3.2 μm |
| Sensor size | 1.1" |
| Resolution | 4000 \times 4000 |
| Max. frame rate | 7.25 fps @4000 \times 4000 Mono 8 |
| Dynamic range | 65 dB |
| SNR | 38 dB |
| Gain | 6 dB to 14 dB |
| Exposure time | 12 μs to 10 sec |
| Exposure mode | Off/Once/Continuous exposure mode |
| Mono/color | Mono |
| Pixel format | Mono 8/10/12 |
| 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 feature | |
| Data interface | Gigabit Ethernet, compatible with Fast Ethernet |
| 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 26 VDC, supports PoE |
| Power consumption | Typ. 3.72 W@12 VDC |
| Mechanical | |
| Lens mount | C-mount |
| Dimension | 29 mm \times 44 mm \times 59 mm (1.1" \times 1.7" \times 2.3") |
| Weight | Approx. 100 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 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$) |
| Humidity | 20% to 80% RH, non-condensing |
| General | |
| Client software | MVS or third-party software meeting with GigE Vision Protocol |
| Operating system | 32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS |
| Compatibility | GigE Vision V2.0, GenICam |
| Certification | CE, RoHS, KC |

HIKROBOT

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