

MV-CH250-90GM

25 MP 1.1" CMOS GigE Area Scan Camera

Introduction

MV-CH250-90GM camera adopts Gpixel GMAX0505 sensor to provide high-quality image. It uses GigE interface to transmit non-compressed images in real time with max. frame rate reaching 4.5 fps.



Key Feature

- Supports manual adjustment for gain, exposure control, LUT, Gamma correction, etc.
- Resolution of 5120 × 5120 and pixel size of 2.5 μm × 2.5 μm
- Adopts GigE interface providing max. transmission distance of 100 meters without relay
- Supports hardware triggering, software triggering and free run mode
- Up to 128 MB local memory for burst transmission and retransmission

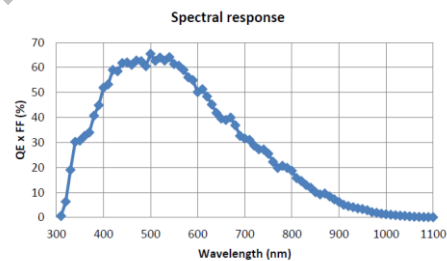
GEN*i*CAM

GigE
VISION

Applicable Industry

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

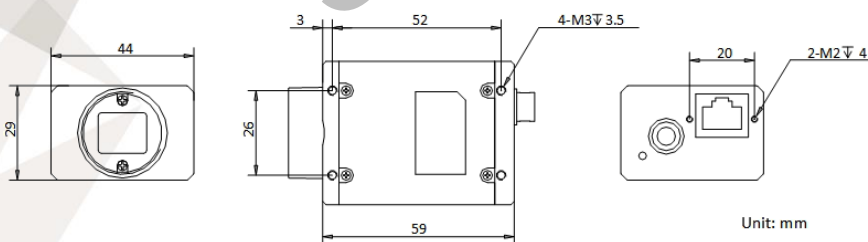
Sensor Quantum Efficiency



Available Model

Mono camera: MV-CH250-90GM

Dimension



Specification

| | |
|----------------------------|---|
| Model | MV-CH250-90GM |
| Camera | |
| Sensor type | CMOS, global shutter |
| Sensor model | Gpixel GMAX0505 |
| Pixel size | 2.5 μm \times 2.5 μm |
| Sensor size | 1.1" |
| Resolution | 5120 \times 5120 |
| Frame rate | 4.5 fps |
| Dynamic range | 63 dB |
| SNR | 36 dB |
| Gain | 7.9 dB to 13.9 dB |
| Exposure time | 12 μs to 10 s |
| Shutter mode | Off/Once/Continuous exposure mode |
| Pixel format | Mono 8/10/10p/12/12p |
| Binning | Supports 2 \times 2, 4 \times 4 |
| Decimation | Supports 2 \times 2, 4 \times 4 |
| Reverse image | Supports horizontal and vertical reverse image output |
| Image buffer | 128 MB |
| Electrical features | |
| Data interface | Gigabit Ethernet |
| Digital I/O | 6-pin Hirose connector provides power and I/O, including opto-isolated input x 1 (Line0), opto-isolated output x 1 (Line1), and bi-directional non-isolated I/O x 1 (Line2) |
| Power supply | 9 VDC to 26 VDC, supports PoE power supply |
| Power consumption | < 3.6 W@12 VDC |
| Structure | |
| Lens mount | C-mount |
| Dimension | 29 mm \times 44 mm \times 59 mm (1.1" \times 1.7" \times 2.3") |
| Weight | < 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, without condensation |
| 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, FCC, RoHS, KC |



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