HIKROBOT

MV-CH250-90UM/UC

25 MP 1.1" CMOS USB3.0 Area Scan Camera



GEN**<i>**CAM

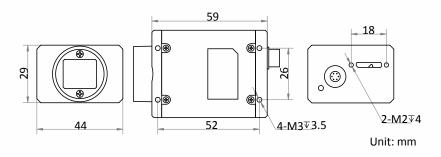
Introduction

MV-CH250-90UM/UC camera adopts Gpixel GMAX0505 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 14.3 fps in full resolution.

Key Feature

- Resolution of 5120 × 5120, pixel size of 2.5 μm × 2.5 μm.
- Supports LSC correction, binning, image reverse, etc.
- Supports hardware trigger, software trigger, and free run.
- Compatible with USB3 Vision Protocol, GenlCam Standard, and the third-party software based on the protocol and standard.

Dimension



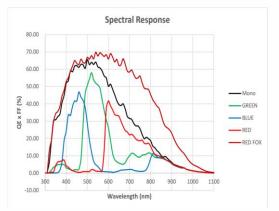
Available Model

- Mono camera: MV-CH250-90UM
- Color camera: MV-CH250-90UC

Applicable Industry

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

Sensor Quantum Efficiency



Specification

| Model | MV-CH250-90UM | MV-CH250-90UC |
|--------------------|---|---|
| Camera | | |
| Sensor type | CMOS, global shutter | |
| Sensor model | Gpixel GMAX0505 | |
| Pixel size | 2.5 μm × 2.5 μm | |
| Sensor size | 1.1" | |
| Resolution | 5120 × 5120 | |
| Max. frame rate | 14.3 fps @5120 × 5120 | |
| Dynamic range | 65 dB | |
| SNR | 36 dB | |
| Gain | Supports 2.0 ×, 2.5 ×, 3.0 ×, 3.5 ×, 4.0 ×, 4.5 ×, 5.0 × | |
| Exposure time | 12 µs to 10 sec | |
| Exposure mode | Off/Once/Continuous exposure mode | |
| Mono/color | Mono | Color |
| Pixel format | | Mono 8/10/12, Bayer BG 8/10/10p/12/12p, |
| | Mono 8/10/10p/12/12p | YUV422Packed, YUV422_YUYV_Packed, |
| | | RGB 8, BGR 8 |
| 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 feature | | |
| Data interface | USB3.0, compatible with USB2.0 | |
| Digital I/O | 6-pin Hirose 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, supports USB3.0 power supply | |
| Power consumption | Typ. 3.4 W@5 VDC | Typ. 4.0 W@5 VDC |
| | (USB3.0 provides power supply) | (USB3.0 provides power supply) |
| Mechanical | 1 | |
| Lens mount | C-mount | |
| Dimension | 29 mm × 44 mm × 59 mm (1.1" × 1.7" × 2.3") | |
| Weight | Approx. 100 g (0.2 lb.) | |
| Ingress protection | IP30 (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 95% 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, FCC, RoHS, KC | |



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