

MV-CH250-90YM/YC

25 MP CMOS CoaXPress Area Scan Camera



GEN*i*CAM

Introduction

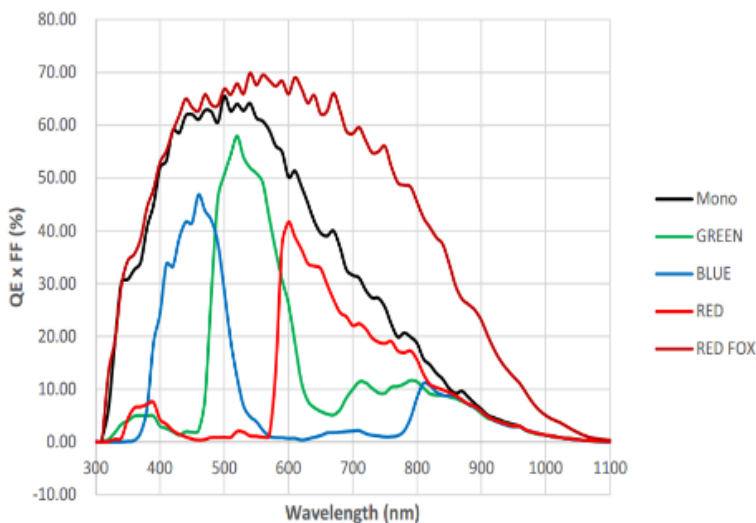
MV-CH250-90YM/YC camera adopts Gpixel GMAX0505 sensor to provide high quality image. It uses CXP-12 interface to transmit data in real time, and its max. frame rate can reach 150 fps in full resolution.

Applicable Industry

Electron semiconductor, PCB AOI, 3D application, motion capture, etc.

Sensor Quantum Efficiency

Spectral Response



Key Feature

- Resolution of 5120 × 5120, pixel size of 2.5 μm × 2.5 μm.
- Adopts global shutter CMOS sensor to provide high dynamic range and high-quality image.
- Adopts CXP-12 interface to transmit data.
- Compatible with CoaXPress Protocol, GenICam Standard, and third-party software based on the protocol and standard.

Available Model

- C-mount without fan, mono camera: MV-CH250-90YM-C-NN (V2.0)
- M58-mount without fan, mono camera: MV-CH250-90YM-M58S-NN (V2.0)
- C-mount without fan, color camera: MV-CH250-90YC-C-NN (V2.0)
- M58-mount without fan, color camera: MV-CH250-90YC-M58S-NN (V2.0)



Aremak Bilişim Teknolojileri
Endüstriyel Görüntü İşleme Çözümleri

Adres: ODTÜ Teknokent Bilişim ve İnovasyon Merkezi,
Mustafa Kemal Mahallesi, Dumlupınar Bulvarı No:280G,
İç Kapı No:1260, Çankaya, Ankara/Türkiye

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Specification

| Model | MV-CH250-90YM | MV-CH250-90YC |
|---------------------|---|----------------------------------|
| Performance | | |
| 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 | 150 fps @ 5120 × 5120 Mono 8 | 150 fps @ 5120 × 5120 Bayer BG 8 |
| Dynamic range | 63 dB | |
| SNR | 36 dB | |
| Gain | 2.5 × | |
| Exposure time | UltraShort exposure mode: 3 μs to 8 μs | |
| | Standard exposure mode: 10 μs to 10 sec | |
| Exposure mode | Off/Once/Continuous exposure mode | |
| Mono/color | Mono | Color |
| Pixel format | Mono 8/10/12 | Bayer BG 8/10/12 |
| Binning | Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4 | |
| Decimation | Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4 | |
| Reverse image | Supports horizontal and vertical reverse image output | |
| Electrical features | | |
| Data interface | CoaXPress with micro-BNC interface | |
| Digital I/O | 12-pin P10 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), and RS-232 × 1. | |
| Power supply | 12 VDC to 24 VDC, CXP-0 and CXP-1 support PoCXP | |
| Power consumption | Typ. 9.9 W @ 12 VDC | Typ. 10 W @ 12 VDC |
| Mechanical | | |
| Lens mount | C-mount, flange focal length 17.52 mm M58*0.75, flange focal length 11.48 mm | |
| Dimension | 60 mm × 60 mm × 59 mm (2.4" × 2.4" × 2.3") (cooling fins are optional) | |
| Weight | C-mount without fan, approx. 280 g (0.6 lb.) M58-mount without fan, approx. 285 g (0.6 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 80 °C (−22 °F to 176 °F) | |
| Humidity | 20% RH to 95% RH, no condensation | |
| General | | |
| Client software | MVS or third-party software meeting with CoaXPress Protocol | |
| Operating system | 32/64-bit Windows XP/7/10/11, 32/64-bit Linux | |
| Compatibility | CoaXPress, GenICam | |
| Certifications | CE, RoHS, KC, UL | |



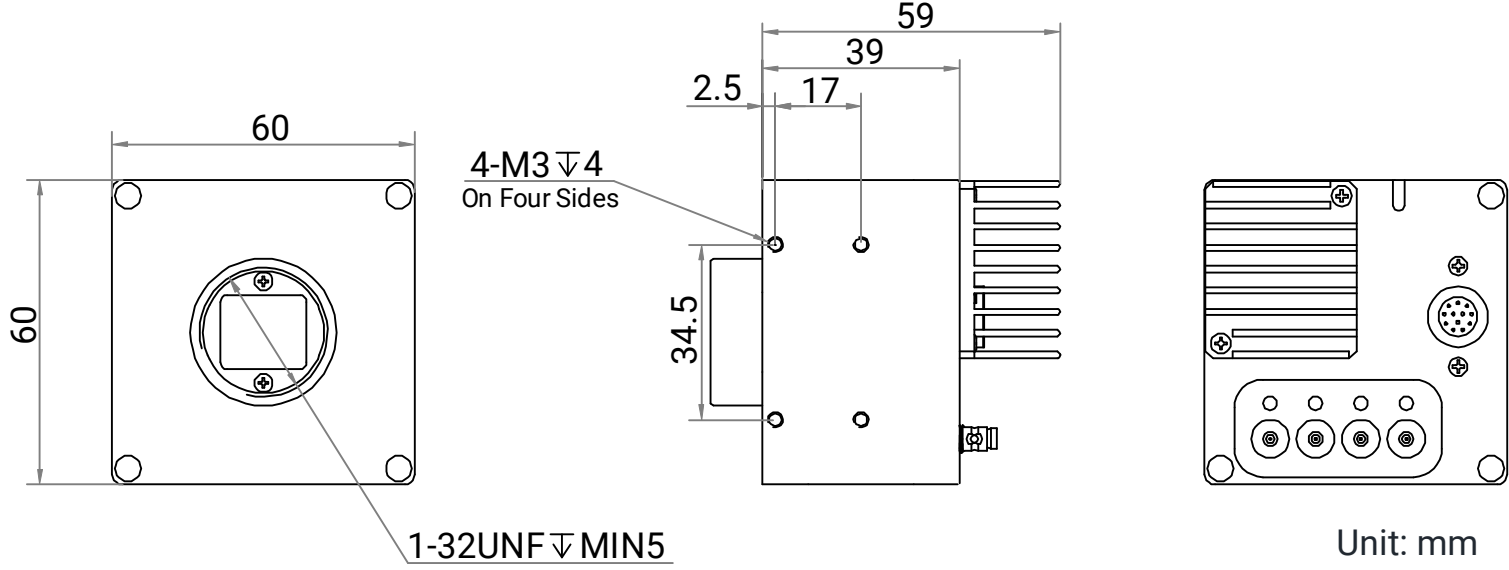
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Dimension

Camera with C-mount without fan:



Camera with M58-mount without fan:

