

MV-CS023-10GM/GC

2.3 MP 1/1.2" CMOS GigE Area Scan Camera



GEN*i*CAM

GigE
VISION

Introduction

MV-CS023-10GM/GC camera adopts Sony® IMX249 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 41 fps in full resolution.

Key Feature

- Adopts brand new design to reduce power consumption.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Supports auto or manual adjustment for gain, exposure control, LUT, Gamma correction, etc.
- Supports hard trigger, software trigger, free run, etc.
- Compatible with GigE Vision V2.0 Protocol, GeniCam Standard, and third-party software based on the protocol and standard.

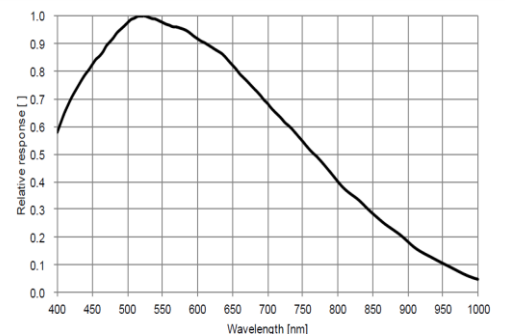
Available Model

- Mono: MV-CS023-10GM
- Color: MV-CS023-10GC

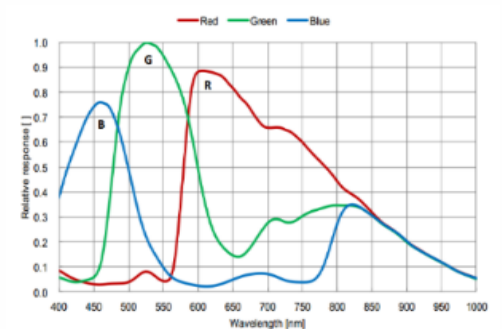
Applicable Industry

Electronic semiconductor, factory automation, food and beverage, medical packaging, etc.

Sensor Quantum Efficiency

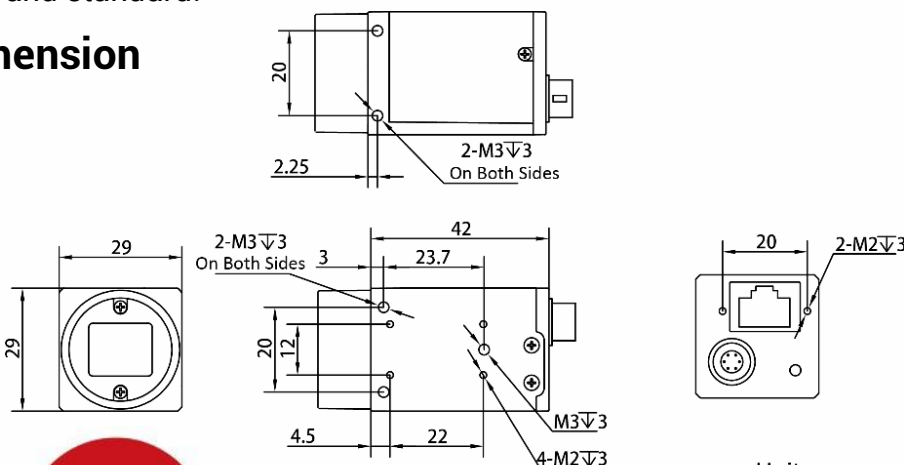


MV-CS023-10GM



MV-CS023-10GC

Dimension



Unit: mm



Specification

| Model | MV-CS023-10GM | MV-CS023-10GC |
|----------------------------|---|--|
| Performance | | |
| Sensor type | CMOS, global shutter | |
| Sensor model | Sony® IMX249 | |
| Pixel size | 5.86 μm × 5.86 μm | |
| Sensor size | 1/1.2" | |
| Resolution | 1920 × 1200 | |
| Max. frame rate | 41 fps @1920 × 1200 Mono 8 | 41 fps @1920 × 1200 Bayer RG 8 |
| Dynamic range | 72.6 dB | |
| SNR | 44.9 dB | |
| Gain | 0 dB to 24 dB | |
| Exposure time | 15 μs to 10 sec | |
| Exposure mode | Off/Once/Continuous exposure mode | |
| Mono/color | Mono | Color |
| Pixel format | Mono 8/10/10Packed/12/12Packed | Mono 8/10/12, Bayer RG 8/10/10Packed/12/12Packed, 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 features | | |
| Data interface | Gigabit Ethernet, compatible with Fast Ethernet | |
| Digital I/O | 6-pin P7 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). | |
| Power supply | 9 VDC to 24 VDC, supports PoE | |
| Power consumption | Typ. 2.2 W@12 VDC | Typ. 2.6 W@12 VDC |
| Mechanical | | |
| Lens mount | C-Mount | |
| Dimension | 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.2") | |
| Weight | Approx. 100 g (0.22 lb.) | |
| Ingress protection | IP40 (under proper lens installation and wiring) | |
| Temperature | Working temperature: -30 °C to 60 °C (-22 °F to 140 °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 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 | |

HIKROBOT

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