

MV-CS016-10GM/GC

1.6 MP 1/2.9" CMOS GigE Area Scan Camera



GEN*i*CAM

GIG*E* VISION

Introduction

MV-CS016-10GM/GC camera adopts Sony® IMX296 sensor to provide high-quality image. It uses GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 65.2 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 noise reduction and color correction matrix function.
- Supports auto or manual adjustment for gain, exposure time, LUT, Gamma correction, white balance, etc.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Compatible with GigE Vision V2.0 Protocol, GenlCam Standard, and third-party software based on the protocol and standard.

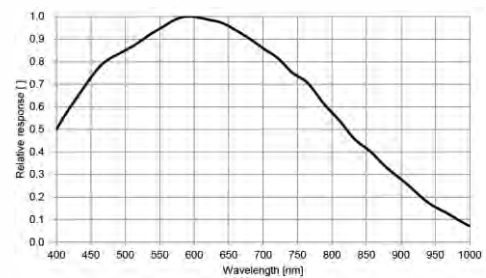
Available Model

- Mono camera: MV-CS016-10GM
- Color camera: MV-CS016-10GC

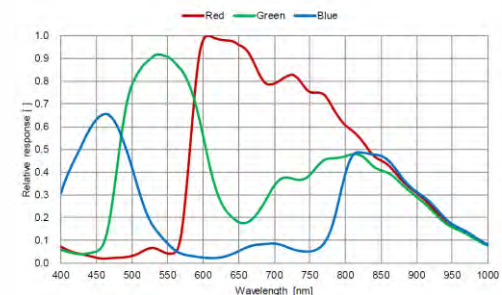
Applicable Industry

SMT/ PCB AOI, consumer electronics, electrical semiconductor, image measuring, etc.

Sensor Quantum Efficiency

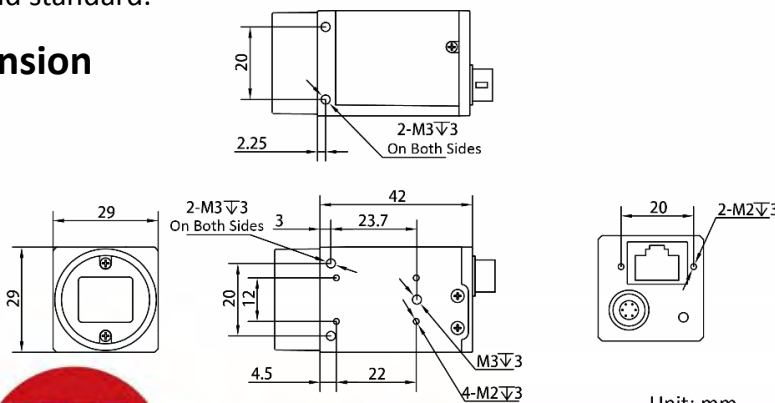


MV-CS016-10GM



MV-CS016-10GC

Dimension



Specification

| Model | MV-CS016-10GM | MV-CS016-10GC |
|----------------------------|---|--|
| Camera | | |
| Sensor type | CMOS, global shutter | |
| Sensor model | Sony® IMX296 | |
| Pixel size | 3.45 μm × 3.45 μm | |
| Sensor size | 1/2.9" | |
| Resolution | 1440 × 1080 | |
| Max. frame rate | 65.2 fps @1440 × 1080 | |
| Dynamic range | 74 dB | |
| SNR | 41 dB | |
| Gain | 0 dB to 24 dB | |
| Exposure time | UltraShort exposure mode: 1 μs to 14 μs | |
| | Standard exposure mode: 15 μs to 10 s | |
| Exposure mode | Off/Once/Continuous exposure mode | |
| Mono/color | Mono | Color |
| Pixel format | Mono 8/10/10p/12/12p | Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8 |
| 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 | Gigabit Ethernet, compatible with Fast Ethernet | |
| Digital I/O | 6-pin Hirose 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. 2.4 W@12 VDC | Typ. 2.5 W@12 VDC |
| Structure | | |
| 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

Hangzhou Hikrobot Technology Co., Ltd.
No.399 Danfeng Road, Binjiang District, Hangzhou 310051, China.
en.hikrobotics.com

MaxxVision®

Sigmaringer Str. 121
70567 Stuttgart
Tel.: 0711 997 996 3

www.maxxvision.com

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