

HC-CA020-10GM/GC

2 MP 1/1.7" CMOS GigE Area Scan Camera



GEN*<i>C*AM

GigE
VISION

Introduction

HC-CA020-10GM/GC camera adopts Sony® IMX430 sensor to provide high-quality image. It uses GigE interface to transmit non-compressed images in real time with max. frame rate reaching 60 fps in full resolution.

Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Supports auto and manual adjustment for exposure control, LUT, Gamma correction, etc.
- Up to 128 MB local memory for burst transmission and retransmission.
- Supports hardware trigger, software trigger, etc.
- Compatible with GigE Vision Protocol V2.0, GenICam Standard, and third-party software based on these protocol and standard.

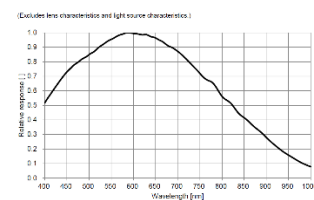
Available Model

- Mono camera: HC-CA020-10GM
- Color camera: HC-CA020-10GC

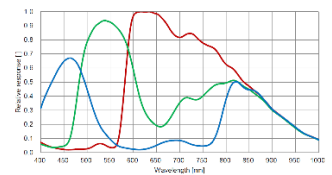
Applicable Industry

Electronic semiconductor, factory automation, logistics code reading, medical packing, quality inspection, etc.

Sensor Quantum Efficiency

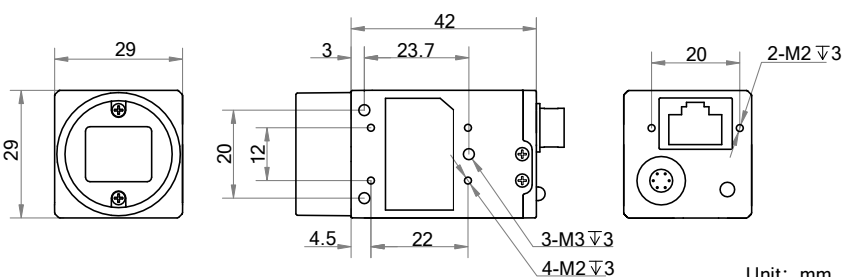


HC-CA020-10GM



HC-CA020-10GC

Dimension



Specification

| Model | HC-CA020-10GM | HC-CA020-10GC |
|--------------------|---|--|
| Camera | | |
| Sensor type | CMOS, global shutter | |
| Sensor model | Sony® IMX430 | |
| Pixel size | 4.5 μm × 4.5 μm | |
| Sensor size | 1/1.7" | |
| Resolution | 1624 × 1240 | |
| Max. frame rate | 60 fps @1624 × 1240 | |
| Dynamic range | 72.08 dB | |
| SNR | 43.8 dB | |
| Gain | 0 dB to 24 dB | |
| Exposure time | 1 μs to 10 sec | |
| Exposure mode | Off/Once/Continuous exposure mode | |
| Mono/color | Mono | Color |
| Pixel format | Mono 8/10/10p/12/12p | Mono 8/10/12, RGB 8, BGR 8, Bayer GB 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed |
| Binning | Supports 1 × 1, 2 × 2 | |
| Decimation | Supports 1 × 1, 2 × 2 | |
| Reverse image | Supports horizontal and vertical reverse image output | |
| Image buffer | 128 MB | |
| Electrical feature | | |
| 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. 3.27 W@12 VDC | Typ. 3.6 W@12 VDC |
| Mechanical | | |
| Lens mount | C-Mount | |
| Dimension | 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7") | |
| Weight | Approx. 68 g (0.15 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 80% 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 | |