# HC-CA060-11GM

**6 MP 1/1.8" CMOS GigE Area Scan Camera**



## Introduction

HC-CA060-11GM camera adopts Sony® IMX178 sensor to provide high-quality image. It uses GigE interface to transmit non-compressed images in real time with max. frame rate reaching 17 fps.

## Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Up to 128 MB local memory for burst transmission and retransmission.
- Supports auto exposure control, LUT, Gamma correction, etc.
- Supports hardware trigger, software trigger, etc.
- Compatible with GigE Vision Protocol V2.0, GenlCam Standard, and third-party software based on these protocol and standard.
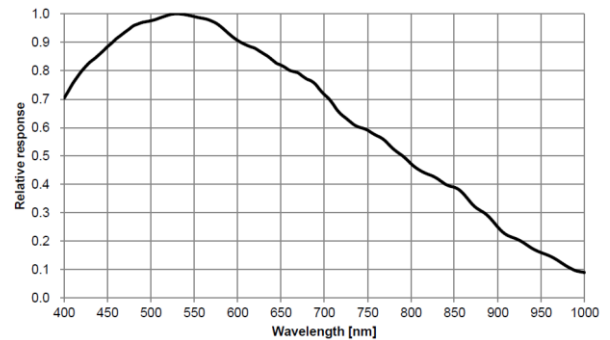
## Available Model
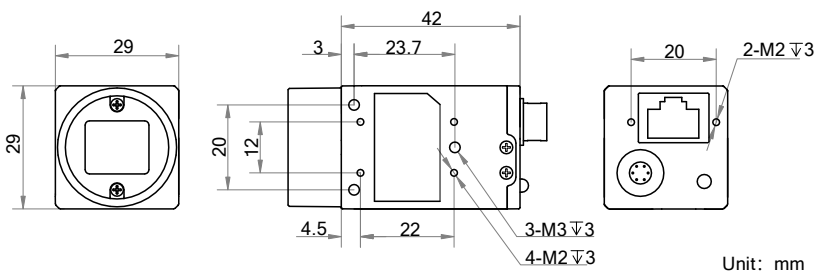
Mono camera: HC-CA060-11GM

## Applicable Industry

Electronic semiconductor, factory automation, logistic code reading, medical packaging, etc.

## Sensor Quantum Efficiency



## Dimension



Unit: mm

# Specification

| Model | HC-CA060-11GM |
|---|---|
| *Camera* | |
| Sensor type | CMOS, rolling shutter |
| Sensor model | Sony® IMX178 |
| Pixel size | 2.4 µm × 2.4 µm |
| Sensor size | 1/1.8" |
| Resolution | 3072 × 2048 |
| Max. frame rate | 17 fps @3072 × 2048 |
| Dynamic range | 71.3 dB |
| SNR | 41.3 dB |
| Gain | 0 dB to 20 dB |
| Exposure time | 27 µs to 2.5 sec |
| Exposure mode | Off/Once/Continuous exposure mode, supports Global Reset |
| Mono/color | Mono |
| Pixel format | Mono 8/10/10p/12/12p |
| Binning | Supports 1 × 1, 2 × 2 |
| Decimation | Not support |
| 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 | 12 VDC, supports PoE |
| Power consumption | Typ. 2.5 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, GenlCam |
| Certification | CE, FCC, RoHS, KC |