

# MV-CU060-60GM/GC V2

6 MP 1/2.4" CMOS GigE Area Scan Camera



GEN*i*CAM

GigE  
VISION

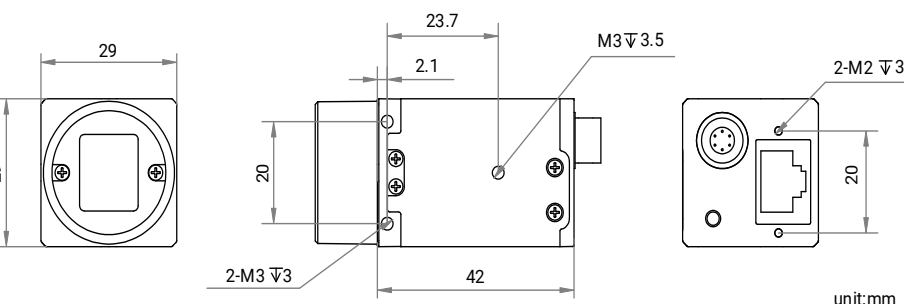
## Introduction

MV-CU060-60GM/GC V2 camera adopts CMOS 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 19 fps in full resolution.

## Key Features

- Adopts low consumption design with stable performance.
- Supports auto or manual adjustment of gain, exposure time, and manual adjustment of LUT, Gamma correction, etc.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Adopts compact design to meet small spatial requirements.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

## Dimension



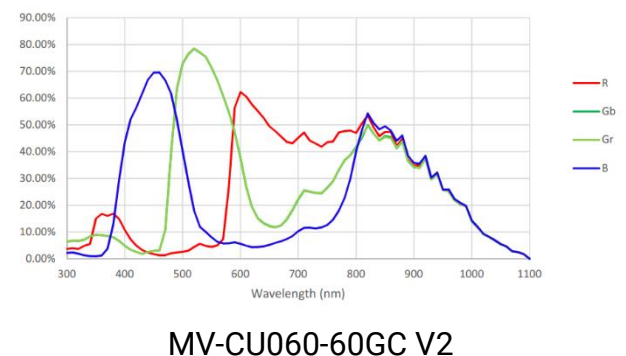
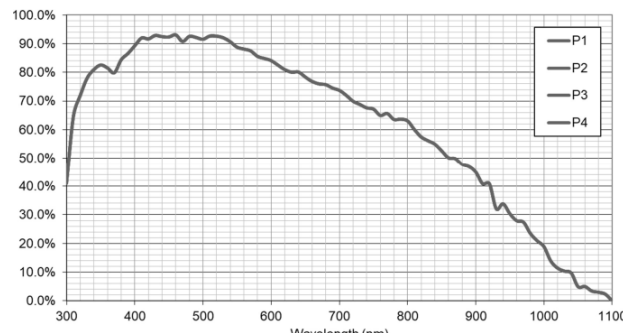
## Available Model

- Mono camera: MV-CU060-60GM V2
- Color camera: MV-CU060-60GC V2

## Applicable Industry

Electronics and semiconductor, factory automation, logistics and code reading, medicine package, etc.

## Sensor Quantum Efficiency



## Specification

| Model               | MV-CU060-60GM V2                                                                                                                                                        | MV-CU060-60GC V2                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Performance         |                                                                                                                                                                         |                                    |
| Sensor type         | CMOS, rolling shutter                                                                                                                                                   |                                    |
| Sensor model        | BSI                                                                                                                                                                     |                                    |
| Pixel size          | 2 μm × 2 μm                                                                                                                                                             |                                    |
| Sensor size         | 1/2.4"                                                                                                                                                                  |                                    |
| Resolution          | 3200 × 1944                                                                                                                                                             |                                    |
| Max. frame rate     | 19 fps @ 3200 × 1944 Mono 8                                                                                                                                             | 19 fps @ 3200 × 1944 Bayer BG 8    |
| Dynamic range       | 64 dB                                                                                                                                                                   |                                    |
| SNR                 | 33.8 dB                                                                                                                                                                 |                                    |
| Gain                | 0 dB to 24 dB                                                                                                                                                           |                                    |
| Exposure time       | 52 μs to 10 sec                                                                                                                                                         |                                    |
| Exposure mode       | Off/Once/Continuous exposure mode                                                                                                                                       |                                    |
| Mono/color          | Mono                                                                                                                                                                    | Color                              |
| Pixel format        | Mono 8/10/10Packed/12/12Packed                                                                                                                                          | Bayer BG 8/10/10Packed/12/12Packed |
| 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 (1000 Mbit/s), compatible with Fast Ethernet (100 Mbit/s)                                                                                              |                                    |
| 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, PoE is optional                                                                                                                                        |                                    |
| Power consumption   | Typ. 1.6 W @ 12 VDC                                                                                                                                                     |                                    |
| Mechanical          |                                                                                                                                                                         |                                    |
| Lens mount          | C-mount                                                                                                                                                                 |                                    |
| Dimension           | 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")                                                                                                                              |                                    |
| Weight              | Approx. 100 g (0.2 lb.)                                                                                                                                                 |                                    |
| Ingress protection  | IP30 (under proper lens installation and wiring)                                                                                                                        |                                    |
| Temperature         | Working temperature: 0 °C to 50 °C (32 °F to 122 °F)<br>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 GigE Vision Protocol                                                                                                           |                                    |
| Operating system    | 32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux                                                                                                              |                                    |
| Compatibility       | GigE Vision V2.0, GenICam                                                                                                                                               |                                    |
| Certification       | CE, RoHS, KC                                                                                                                                                            |                                    |