

# MV-CS060-10GM/GC-PRO

6 MP 1/1.8" CMOS GigE Area Scan Camera



**GEN*i*CAM**

**GigE**  
VISION

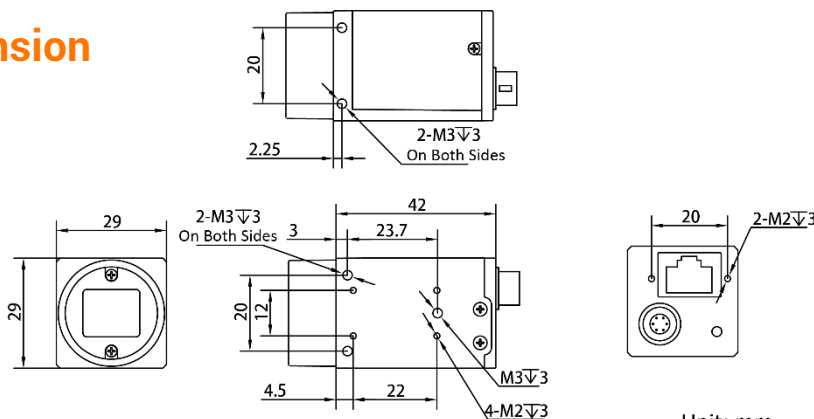
## Introduction

With GigE interface, MV-CS060-10GM/GC-PRO camera adopts Sony® IMX178 sensor to provide high-quality image and transmit images in real time. Its max. frame rate can reach 19.1 fps in full resolution, and reach 30.7 fps when the image compression mode is enabled.

## Key Feature

- Adopts brand new design to reduce power consumption.
- Supports image compression mode and noise reduction function.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- 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.

## Dimension



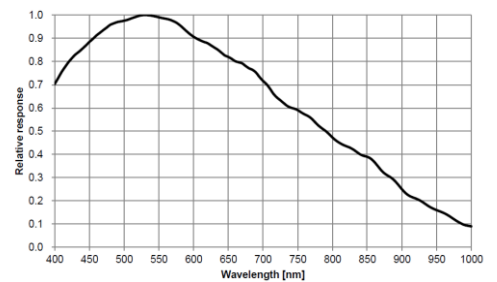
## Available Model

- Mono camera: MV-CS060-10GM-PRO
- Color camera: MV-CS060-10GC-PRO

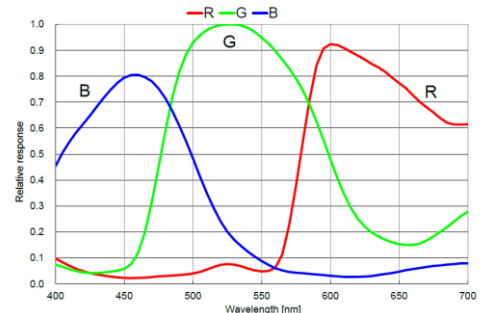
## Applicable Industry

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

## Sensor Quantum Efficiency



MV-CS060-10GM-PRO



MV-CS060-10GC-PRO

Unit: mm

## Specification

Model	MV-CS060-10GM-PRO	MV-CS060-10GC-PRO
<b>Camera</b>		
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	19.1 fps @ 3072 × 2048 30.7 fps @ 3072 × 2048 (image compression mode enabled)	
Dynamic range	71.3 dB	
SNR	41.3 dB	
Gain	0 dB to 24 dB	
Exposure time	25 μs to 2.5 sec	
Exposure mode	Off/Once/Continuous exposure mode, supports Global Reset, Trigger Rolling, and Rolling	
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, 2 × 2	
Decimation	Supports 1 × 1, 2 × 2, 4 × 4	
Reverse image	Supports horizontal and vertical reverse image output	
<b>Electrical features</b>		
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
<b>Mechanical</b>		
Lens mount	C-mount	
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")	
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% RH to 95% RH (no condensation)	
<b>General</b>		
Client software	MVS or third-party software meeting with GigE Vision Protocol	
Operating system	32/64-bit Windows 7/10, 32/64-bit Linux	
Compatibility	GigE Vision V2.0, GenICam	
Certification	CE, RoHS, KC	