

# MV-CA017-10GM/GC

1.7 MP 1.1" CMOS GigE Area Scan Camera



GEN*<i>CAM*

**GiG**<sup>®</sup>  
VISION

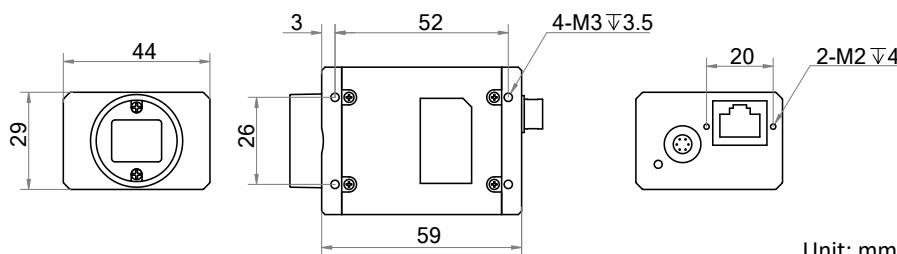
## Introduction

MV-CA017-10GM/GC camera adopts Sony® IMX432 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 68.5 fps in full resolution.

## Key Feature

- Supports auto or manual adjustment for gain, exposure time, LUT, Gamma correction, white balance, etc.
- Supports 2D noise reduction function.
- Supports high sensitivity mode and high full well mode.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

## Dimension



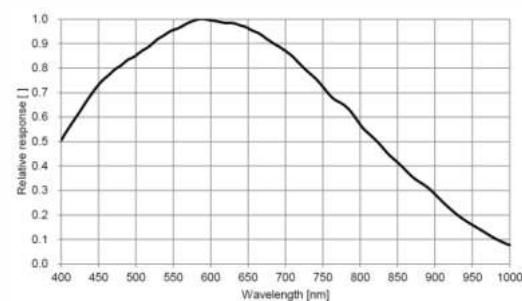
## Available Model

- Mono camera: MV-CA017-10GM
- Color camera: MV-CA017-10GC

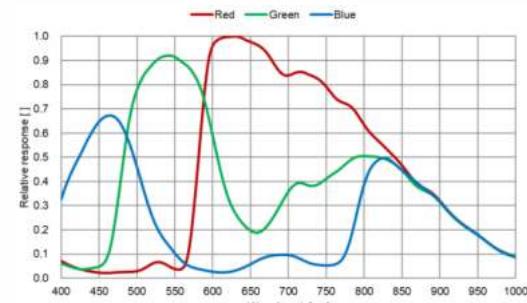
## Applicable Industry

Photovoltaic testing, image measuring, PCB manufacturing, etc.

## Sensor Quantum Efficiency



MV-CA017-10GM



MV-CA017-10GC



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## Specification

Model	MV-CA017-10GM	MV-CA017-10GC
<b>Camera</b>		
<b>Sensor type</b>	CMOS, global shutter	
<b>Sensor model</b>	Sony® IMX432	
<b>Pixel size</b>	9 $\mu$ m $\times$ 9 $\mu$ m	
<b>Sensor size</b>	1.1"	
<b>Resolution</b>	1608 $\times$ 1104	
<b>Max. frame rate</b>	68.5 fps @1608 $\times$ 1104	
<b>Dynamic range</b>	72.44 dB	
<b>SNR</b>	40 dB	
<b>Gain</b>	0 dB to 24 dB	
<b>Exposure time</b>	UltraShort exposure mode: 1 $\mu$ s to 5 $\mu$ s	
	Standard exposure mode: 6 $\mu$ s to 10 sec	
<b>Exposure mode</b>	Off/Once/Continuous exposure mode	
<b>Mono/color</b>	Mono	Color
<b>Pixel format</b>	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
<b>Binning</b>	Supports 1 $\times$ 1, 1 $\times$ 2, 1 $\times$ 4, 2 $\times$ 1, 2 $\times$ 2, 2 $\times$ 4, 4 $\times$ 1, 4 $\times$ 2, 4 $\times$ 4	
<b>Decimation</b>	Supports 1 $\times$ 1, 1 $\times$ 2, 1 $\times$ 4, 2 $\times$ 1, 2 $\times$ 2, 2 $\times$ 4, 4 $\times$ 1, 4 $\times$ 2, 4 $\times$ 4	
<b>Reverse image</b>	Supports horizontal and vertical reverse image output	
<b>Electrical feature</b>		
<b>Data interface</b>	Gigabit Ethernet, compatible with Fast Ethernet	
<b>Digital I/O</b>	6-pin Hirose connector provides power and I/O, including opto-isolated input $\times$ 1 (Line 0), opto-isolated output $\times$ 1 (Line 1), bi-directional non-isolated I/O $\times$ 1 (Line 2).	
<b>Power supply</b>	12 VDC, supports PoE	
<b>Power consumption</b>	Typ. 4.2 W@12 VDC	Typ. 4.8 W@12 VDC
<b>Mechanical</b>		
<b>Lens mount</b>	C-Mount	
<b>Dimension</b>	29 mm $\times$ 44 mm $\times$ 59 mm (1.1" $\times$ 1.7" $\times$ 2.3")	
<b>Weight</b>	Approx. 100 g (0.22 lb.)	
<b>Ingress protection</b>	IP30 (under proper lens installation and wiring)	
<b>Temperature</b>	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)	
<b>Humidity</b>	20% to 95% RH, non-condensing	
<b>General</b>		
<b>Client software</b>	MVS or third-party software meeting with GigE Vision Protocol	
<b>Operating system</b>	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	
<b>Compatibility</b>	GigE Vision V2.0, GenICam	
<b>Certification</b>	CE, FCC, RoHS, KC	



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