MV-CU050-90GM/GC

5 MP 1/2" CMOS GigE Area Scan Camera

Introduction

MV-CU050-90GM/GC camera adopts GMAX2505 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 21 fps in full resolution.

Key Feature

- Adopts brand new design to reduce power consumption.
- Supports auto or manual adjustment of gain, exposure time, manual adjustment of LUT, Gamma correction, etc.
- Supports customized ROI, horizontal and vertical reverse image output.
- Adopts compact design for flexible installation.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

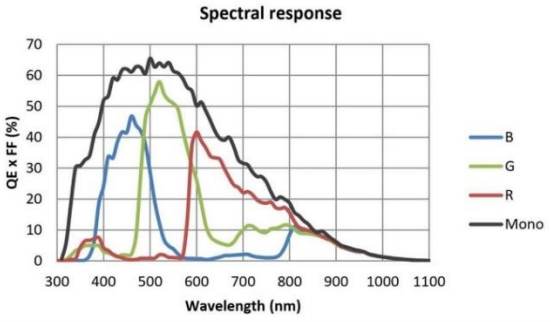
Available Model

- Mono camera: MV-CU050-90GM
- Color camera: MV-CU050-90GC

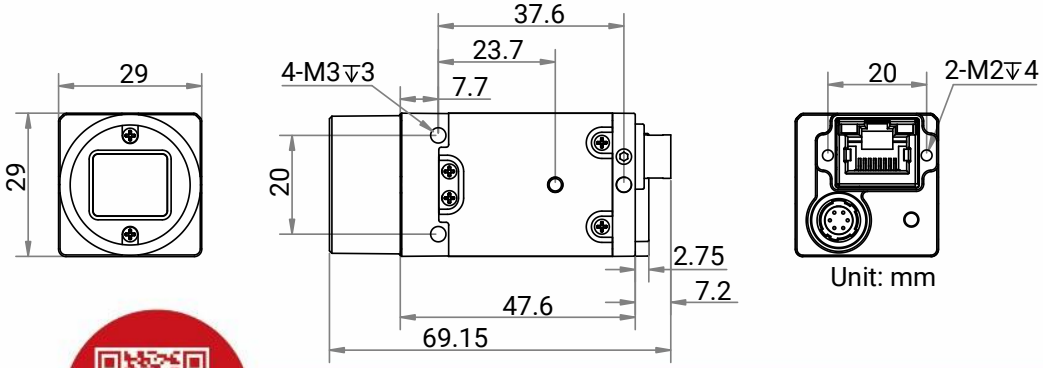
Applicable Industry

Electronic semiconductor, factory automation, liquor and beverage, medicine packing, etc.

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CU050-90GM	MV-CU050-90GC
Performance		
Sensor type	CMOS, global shutter	
Sensor model	GMAX2505	
Pixel size	2.5 μm × 2.5 μm	
Sensor size	1/2"	
Resolution	2600 × 2160	
Max. frame rate	21 fps @2600 × 2160 Mono 8	21 fps @2600 × 2160 Bayer BG 8
Dynamic range	63.8 dB	
SNR	37 dB	
Gain	0 dB to 12 dB	
Exposure time	3 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, compatible with Fast Ethernet	
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. 2.3 W@12 VDC	Typ. 2.5 W@12 VDC
Mechanical		
Lens mount	C-mount	
Dimension	29 mm × 29 mm × 47.6 mm (1.1" × 1.1" × 1.9")	
Weight	Approx. 117 g (0.3 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 95% 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	

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