

MV-CU050-30GC

5 MP 1/2.5" CMOS GigE Area Scan Camera



GEN*i*CAM

GiGE[®]
VISION

Introduction

MV-CU050-30GC camera adopts AR0521 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 24 fps in full resolution.

Key Feature

- Adopts low power consumption design with stable performance.
- Supports auto and manual adjustment of gain, exposure time, etc.
- Supports hardware trigger, software trigger, free run, etc.
- 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.

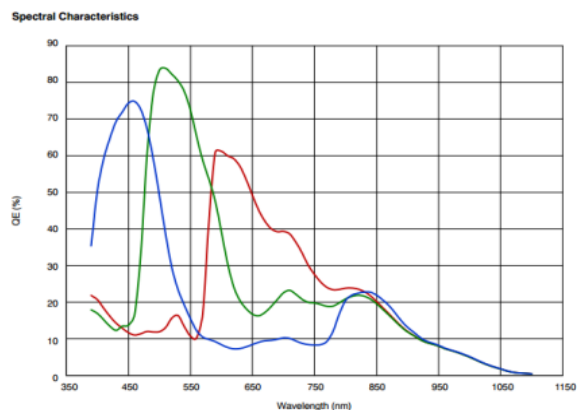
Available Model

MV-CU050-30GC

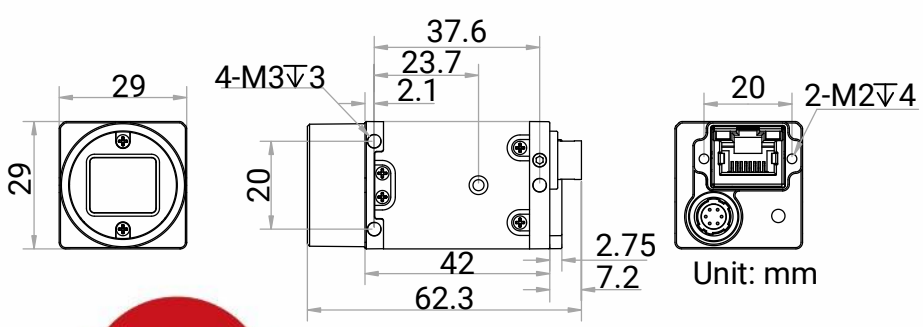
Applicable Industry

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

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CU050-30GC
Performance	
Sensor type	CMOS, rolling shutter
Sensor model	AR0521
Pixel size	2.2 μm \times 2.2 μm
Sensor size	1/2.5"
Resolution	2592 \times 1944
Max. frame rate	24 fps @2592 \times 1944 Bayer GR 8
Dynamic range	63 dB
SNR	37 dB
Gain	0 dB to 15 dB
Exposure time	21 μs to 1 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Color
Pixel format	Bayer GR 8/10/10Packed/12/12Packed
Binning	Supports 1 \times 1, 2 \times 2
Decimation	Supports 1 \times 1, 2 \times 2
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 \times 1 (Line 0), opto-isolated output \times 1 (Line 1), bi-directional non-isolated I/O \times 1 (Line 2).
Power supply	9 VDC to 24 VDC, supports PoE
Power consumption	Typ. 1.81 W@12 VDC
Mechanical	
Lens mount	C-mount
Dimension	29 mm \times 29 mm \times 42 mm (1.1" \times 1.1" \times 1.7")
Weight	Approx. 100 g (0.2 lb.)
Ingress protection	IP30 (under proper lens installation and wiring)
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)
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, GenICam
Certification	RoHS

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