

MV-CA013-70GM

1.3 MP 1" CMOS GigE Area Scan Camera



GEN*i*CAM

GIG*E*
VISION

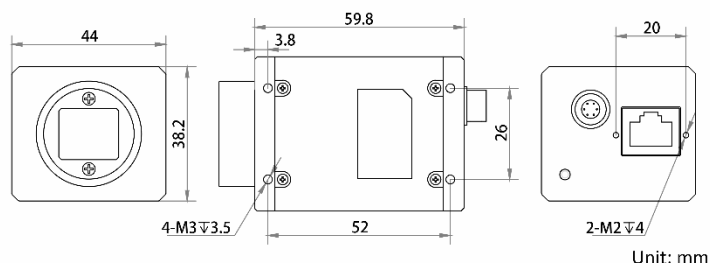
Introduction

MV-CA013-70GM adopts E2V 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 49 fps in full resolution.

Key Feature

- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Supports auto and manual adjustment for exposure control, LUT, Gamma correction, etc.
- Supports hardware trigger, software trigger, free run, etc.
- Compatible with GigE Vision Protocol V1.2, GenICam Standard, and third-party software based on these protocol and standard.

Dimension



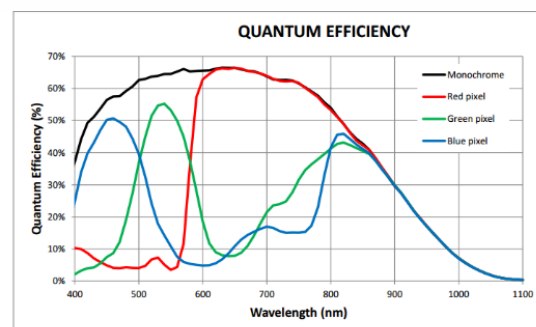
Available Model

Mono camera: MV-CA013-70GM

Applicable Industry

Electronic semiconductor, factory automation, and quality inspection, etc.

Sensor Quantum Efficiency



Specification

Model	MV-CA013-70GM
Camera	
Sensor type	CMOS, global shutter
Sensor model	E2V
Pixel size	10 μm \times 10 μm
Sensor size	1"
Resolution	1280 \times 1024
Max. frame rate	49 fps @1280 \times 1024
Dynamic range	73 dB
SNR	41 dB
Gain	0 dB to 20 dB
Exposure time	20 μs to 1 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/10p/12/12p
Binning	Not support
Decimation	Not support
Reverse image	Supports horizontal and vertical reverse image output
Electrical feature	
Data interface	Gigabit Ethernet, compatible with Fast Ethernet
Digital I/O	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).
Power supply	5 VDC to 15 VDC, supports PoE power supply
Power consumption	Typ. 3.72 W@12 VDC
Mechanical	
Lens mount	C-Mount
Dimension	44 mm \times 38.2 mm \times 59.8 mm (1.7" \times 1.5" \times 2.4")
Weight	Approx. 140 g (0.31 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 V1.2, GenICam
Certification	CE, FCC, RoHS, KC

HIKROBOT

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