

MV-CH120-20GM

12 MP 1" CMOS GigE Area Scan Camera



GEN*i*CAM

GIG*E* VISION

Introduction

MV-CH120-20GM camera adopts OnSemi XGS12000 sensor to provide high-quality image. It uses GigE interface to transmit non-compressed images in real time with max. frame rate reaching 9.6 fps in full resolution.

Key Feature

- Adopts OnSemi XGS12000 sensor with 3.2 μm pixel size.
- Supports auto and manual adjustment for gain, exposure control, LUT, Gamma correction, etc.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Supports LSC (Lens Shading Correction) function.
- Compact design with mounting holes on panels for flexible mounting from 4 sides.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and the third-party software based on the protocol and standard.

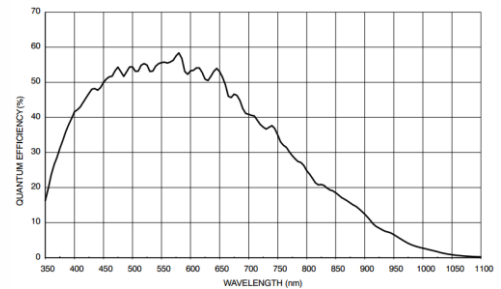
Available Model

Mono camera: MV-CH120-20GM

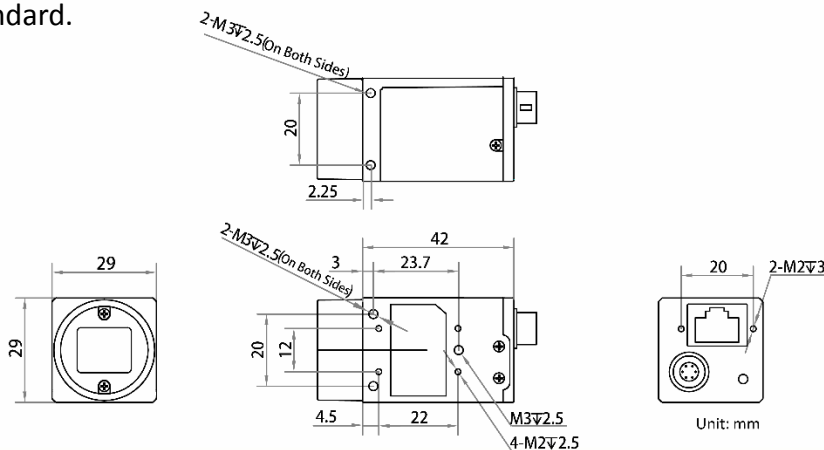
Applicable Industry

Electronic semiconductor, factory automation, logistics, etc.

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CH120-20GM
Camera	
Sensor type	CMOS, global shutter
Sensor model	OnSemi XGS12000
Pixel size	3.2 μm \times 3.2 μm
Sensor size	1"
Resolution	4096 \times 3072
Max. frame rate	9.6 fps @4096 \times 3072
Dynamic range	68 dB
SNR	40 dB
Gain	0 dB to 18 dB
Exposure time	UltraShort exposure mode: 52 μs to 161 μs Standard exposure mode: 162 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/10p/12/12p
Binning	Supports 1 \times 1, 2 \times 2, 4 \times 4
Decimation	Supports 1 \times 1, 2 \times 2
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	9 VDC to 24 VDC, supports PoE
Power consumption	Typ. 3.2 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 2.0, GenICam
Certification	CE, FCC, RoHS, KC

HIKROBOT

Hangzhou Hikrobot Technology Co., Ltd.
No.399 Danfeng Road, Binjiang District, Hangzhou 310051, China.
en.hikrobotics.com

MaxxVision[®]
Sigmaringer Str. 121
70567 Stuttgart
Tel.: 0711 997 996 3
www.maxxvision.com

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