MV-CH120-90Y1M/C

12 MP CMOS CoaXPress Area Scan Camera

GEN<i>CAM

Introduction

MV-CH120-90Y1M/C camera adopts Gpixel GMAX3412 sensor to provide high quality image. It uses 1-link CXP-12 interface to transmit non-compressed images in real time, and its max. frame rate can reach 93.9 fps in full resolution.

Key Feature

- Resolution of 4096 × 3072, pixel size of 3.4 µm × 3.4 µm.
- Adopts global shutter CMOS sensor to provide high dynamic range, SNR, and high-quality image.
- Adopts CXP-12 interface to transmit data.
- Supports Off, Once, and Continuous exposure modes.
- Compatible with CoaXPress Protocol, GenICam Standard, and third-party software based on the protocol and standard.
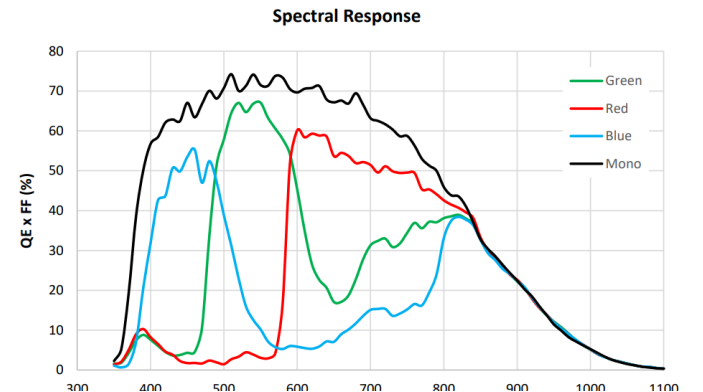
Available Model

- Mono camera without heat sink:
  MV-CH120-90Y1M-NN
- Color camera without heat sink:
  MV-CH120-90Y1C-NN
- Mono camera with heat sink:
  MV-CH120-90Y1M-NH
- Color camera with heat sink:
  MV-CH120-90Y1C-NH

Applicable Industry

Electron semiconductor, PCB AOI, 3D application, motion capture, etc.
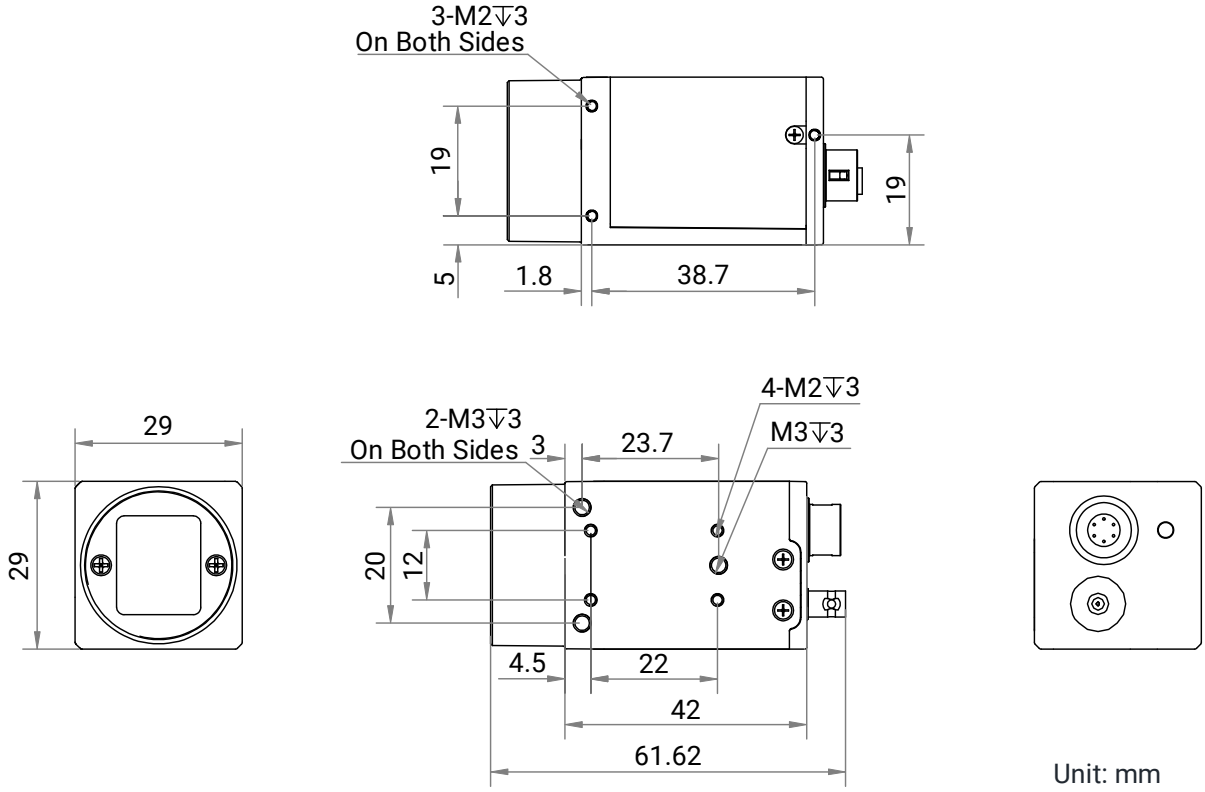
Sensor Quantum Efficiency

Spectral Response

Aremak Bilişim Teknolojileri
Endüstriyel Görüntü İşleme Çözümleri

Adres: ODTÜ Teknokent Bilişim ve İnovasyon Merkezi, Mustafa Kemal Mahallesi, Dumlupınar Bulvarı No:280G, İç Kapı No:1260, Çankaya, Ankara/Türkiye

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Specification

Model	MV-CH120-90Y1M	MV-CH120-90Y1C
Performance		
Sensor type	CMOS, global shutter	
Sensor model	Gpixel GMAX3412	
Pixel size	3.4 µm × 3.4 µm	
Sensor size	1.1"	
Resolution	4096 × 3072	
Max. frame rate	93.9 fps @ 4096 × 3072 Mono 8	93.9 fps @ 4096 × 3072 Bayer GB 8
Dynamic range	59.7 dB	
SNR	39 dB	
Gain	0 dB to 6.1 dB	
Exposure time	6 µs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/12	Bayer GB 8/10/12
Binning	Supports 1 × 1, 1 × 2, 1 × 4, 2 ×1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4	
Decimation	Supports 1 × 1, 1 × 2, 1 × 4, 2 ×1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4	
Reverse image	Supports horizontal and vertical reverse image output	
Electrical feature		
Data interface	CoaXPress with Micro-BNC interface	
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	12 VDC to 24 VDC, supports PoCXP	
Power consumption	Typ. 5 W @ 12 VDC	
Mechanical		
Lens mount	C-mount, flange back length 17.52 mm	
Dimension	Device with heat sink: 29 mm × 85 mm × 42 mm (1.1" × 3.3" × 1.7")	
	Device without heat sink: 29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")	
Weight	Device with heat sink: Approx. 170 g (0.4 lb.)	
	Device without heat sink: Approx. 90 g (0.2 lb.)	
Ingress protection	IP40 (under proper lens installation and wiring)	
Temperature	Working temperature for device with heat sink: 0 °C to 50 °C (32 °F to 122 °F)	
	Working temperature for device without heat sink: 0 °C to 40 °C (32 °F to 104 °F)	
	Storage temperature: −30 °C to 80 °C (−22 °F to 176 °F)	
Humidity	20% RH to 95% RH (no condensation)	
General		
Client software	MVS or third-party software meeting with CoaXPress Protocol	
Operating system	32/64-bit Windows XP/7/10/11, 32/64-bit Linux	
Compatibility	CoaXPress, GenICam	
Certifications	CE, RoHS, KC	

Dimension

Device without heat sink

3-M2▽3
On Both Sides

19

19

5   1.8   38.7

29

29

2-M3▽3
On Both Sides   3   23.7

4-M2▽3

M3▽3

20

12

4.5   22

42

61.62

Unit: mm

Device with heat sink

29

3   23.7

2-M3▽3
On Both Sides

4-M2▽3

M3▽3

85   29

20

12

4.5   22

42

61.62

Unit: mm