

# **MV-CH120-90TM**

#### 12 MP 1.1" CMOS 10 GigE Area Scan Camera







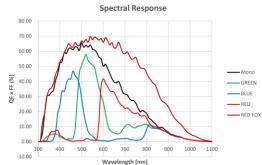


### Introduction

MV-CH120-90TM camera adopts Gpixel GMAX3412 sensor to provide MV-CH120-90TM-C-NF high-quality image. It uses 10 GigE interface to transmit noncompressed image in real time, and its max. frame rate can reach 65 fps in full resolution.

**Available Model** 

Sensor Quantum Efficiency



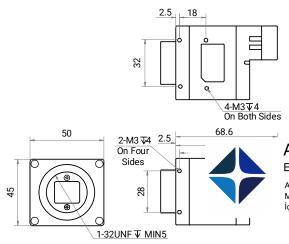
#### **Key Features**

- Resolution of 4096 × 3000, pixel size of  $3.4 \,\mu\text{m} \times 3.4 \,\mu\text{m}$ .
- Compatible with C-mount lens.
- Adopts 10 GigE interface providing maximum transmission distance of 100 meters.
- Provides mounting holes on panels for flexible installation.
- Compatible with GigE Vision Protocol V2.0, GenlCam Standard, and third-party software based on protocols.

## **Applicable Industry**

SMT/PCB AOI, FPD, railway industry, lithium battery, photovoltaics, etc.

## Dimension



#### Aremak Bilişim Teknolojileri

Endüstriyel Görüntü İşleme Çözümleri

Adres: ODTÜ Teknokent Bilişim ve İnovasyon Merkezi, Mustafa Kemal Mahallesi, Dumlupinar Bulvari No:280G, İç Kapı No:1260, Çankaya, Ankara/Türkiye S.

Unit: mm

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# **Specification**

Model	MV-CH120-90TM
Performance	
Sensor type	CMOS, global shutter
Sensor model	Gpixel GMAX3412
Pixel size	3.4 μm × 3.4 μm
Sensor size	1.1"
Resolution	4096 × 3000
Max. frame rate	65 fps @ 4096 × 3000 Mono 8
Dynamic range	60.1 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
Pixel format	Mono 8/10/10Packed/12/12Packed
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	10 Gigabit Ethernet (10000 Mbit/s), compatible with Gigabit Ethernet (1000 Mbit/s)
Digital I/O	6-pin P7 connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-
	isolated output $\times$ 1 (Line 1), and bi-directional non-isolated I/O $\times$ 1 (Line 2)
Power supply	9 VDC to 24 VDC
Power consumption	10.2 W @ 12 VDC
Mechanical	
Lens mount	C-mount
Dimension	50 mm × 45 mm × 68.6 mm (2.0" × 1.8" × 2.7")
Weight	Approx. 212 g (0.5 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °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 GigE Vision Protocol
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux
Compatibility	GigE Vision V2.0, GenlCam
Certification	CE, RoHS, KC

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