MV-CH1030-90TM/TC

103 MP CMOS 10 GigE Area Scan Camera

Introduction

MV-CH1030-90TM/TC camera adopts Gpixel GMAX32103 sensor to provide high-quality image. It uses 10 GigE interface to transmit non-compressed image in real time, and its max. frame rate can reach 11 fps in full resolution.

Key Feature

- Resolution of 11276 × 9200, pixel size of 3.2 μm × 3.2 μm.
- Supports auto or manual adjustment of exposure time and white balance, and manual adjustment of gain, Gamma correction, LUT, etc.
- Adopts 10 GigE interface providing max. transmission distance of 100 meters without relay.
- Adopts installation holes for flexible installation.
- Compatible with GigE Vision Protocol V2.0, GenICam Standard, and third-party software based on protocols.

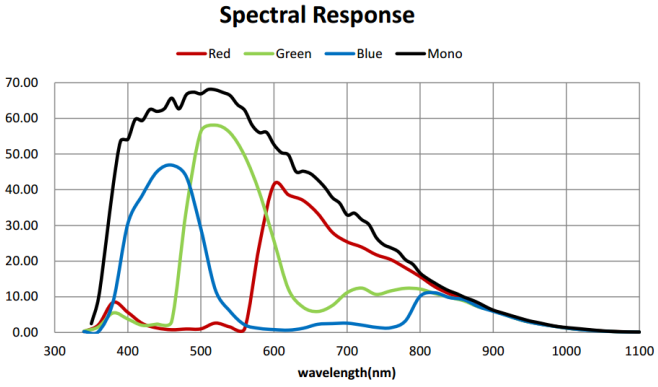
Available Model

- Mono: MV-CH1030-90TM-M58S-NN
- Color: MV-CH1030-90TC-M58S-NN

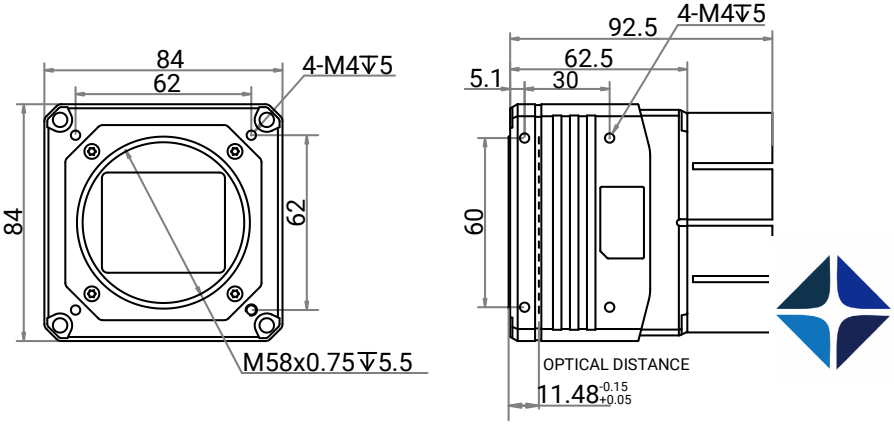
Applicable Industry

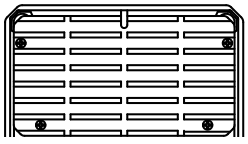
PCB AOI, FPD, railway related applications, PV, etc.

Sensor Quantum Efficiency



Dimension





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
W: www.aremak.com.tr
E: shop@aremak.com.tr
T: +908502551506

Specification

Model	MV-CH1030-90TM	MV-CH1030-90TC
Performance		
Sensor type	CMOS, global shutter	
Sensor model	Gpixel GMAX32103	
Pixel size	3.2 μm × 3.2 μm	
Sensor size	46.6 mm × 46.6 mm	
Resolution	11276 × 9200	
Max. frame rate	11 fps @11276 × 9200 Mono 8	11 fps @11276 × 9200 Bayer GB 8
Dynamic range	64.86 dB	
SNR	39.88 dB	
Gain	1.4 × to 5.2 ×	
Exposure time	20 μs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10Packed/12/12Packed	Mono 8/10/12, Bayer GB 8/10/10Packed/12/12Packed, YUV422Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
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, compatible with Gigabit Ethernet	
Digital I/O	12-pin P10 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), and RS-232 × 1	
Power supply	12 VDC to 24 VDC	
Power consumption	Typ. 12.6 W @12 VDC	Typ. 13.3 W @12 VDC
Mechanical		
Lens mount	M58*0.75-mount, flange focal length 11.48 mm (0.5")	
Dimension	84 mm × 84 mm × 92.5 mm (3.3" × 3.3" × 3.6")	
Weight	738 g (1.6 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% to 95% 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, 64-bit Windows 11, and 32/64-bit Linux	
Compatibility	GigE Vision V2.0, GenICam	
Certification	CE, RoHS, KC	

Hangzhou Hikrobot Co. Ltd.
en.hikrobotics.com

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
W: www.aremak.com.tr
E: shop@aremak.com.tr
T: +908502551506