MV-CH120-10TM

12 MP 1.1" CMOS 10 GigE Area Scan Camera

Introduction

MV-CH120-10TM camera adopts Sony® IMX253 sensor to provide high-quality image with high resolution and low noise. It uses 10 Gigabit Ethernet interface to transmit uncompressed data in real time with max. frame rate reaching 68 fps at full resolution.

Key Feature

- Resolution of 12 megapixel and pixel size of 3.45 µm × 3.45 µm.
- Adopts 10 Gigabit Ethernet interface, compatible with Gigabit Ethernet, and max. transmission distance of 100 meters without delay.
- Compact design with mounting holes on the up and bottom panels for flexible mounting.
- Compatible with GigE Vision Protocol, GenICam Standard, and third-party software based on these protocol and standard.

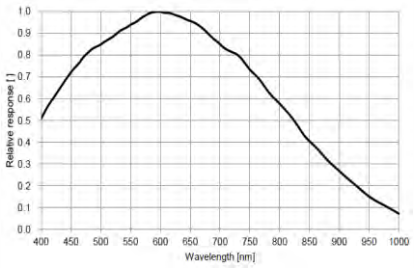
Available Model

- M58-mount with fan, Mono: MV-CH120-10TM-M58S-NF
- F-mount with fan, Mono: MV-CH120-10TM-F-NF

Applicable Industry

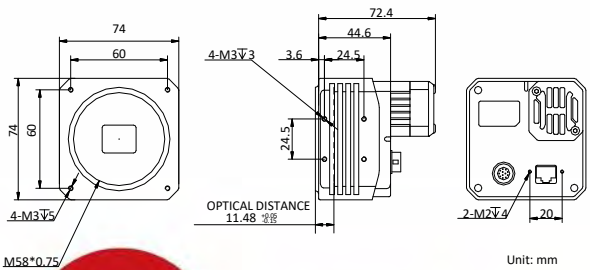
SMT automatic optical detection, PCB AOI, FPD, railway related application, etc.

Sensor Quantum Efficiency



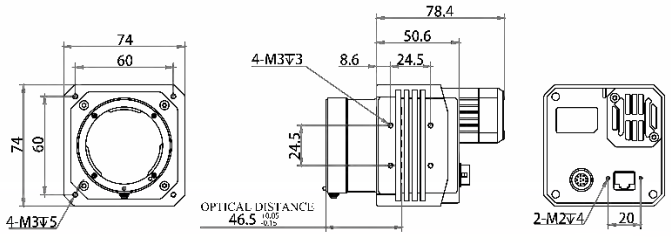
Dimension

M58-mount with fan:



Unit: mm

F-mount with fan:



Unit: mm

Specification

Model	MV-CH120-10TM
Camera	
Sensor type	CMOS, global shutter
Sensor model	Sony® IMX253
Pixel size	3.45 μm × 3.45 μm
Sensor size	1.1"
Resolution	4096 × 3000
Max. frame rate	68 fps @4096 × 3000
Dynamic range	71.6 dB
SNR	39.7 dB
Gain	0 dB to 15 dB
Exposure time	2 μs to 10 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	10 Gigabit Ethernet, compatible with Gigabit Ethernet
Digital I/O	12-pin Hirose 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), RS-232 × 1
Power supply	9 VDC to 24 VDC
Power consumption	Typ. 11 W@12 VDC
Mechanical	
Lens mount	M58-mount, optical back focal length: 11.48 mm (0.45") F-Mount, optical back focal length: 46.5 mm (1.83")
Dimension	M58-mount with fan: 74 mm × 74 mm × 72.4 mm (2.91" × 2.91" × 2.85") F-mount with fan: 74 mm × 74 mm × 78.4 mm (2.91" × 2.91" × 3.09")
Weight	M58-Mount with fan: approx. 450 g (1.0 lb) F-Mount with fan: approx. 600 g (1.3 lb)
Ingress protection	IP30 (under proper lens installation and wiring)
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °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
Compatibility	GigE Vision V1.2, GenICam
Certification	CE, FCC, RoHS, KC

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