MV-CH310-10TM

31 MP CMOS 10 GigE Area Scan Camera

Introduction

MV-CH310-10TM camera adopts Sony® IMX342 sensor to provide high-quality images with high resolution and low noise. It uses 10 GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 17.2 fps in full resolution.

Key Feature

- Resolution of 6464 × 4852, and pixel size of 3.45 μm × 3.45 μm.
- Supports auto or manual adjustment of gain and exposure time, and manual adjustment of LUT and Gamma correction.
- Adopts design without fan to ensure stability of high-speed image acquisition.
- Adopts low power consumption design.
- Adopts 10 GigE interface, compatible with GigE, and max. transmission distance of 100 meters without relay.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

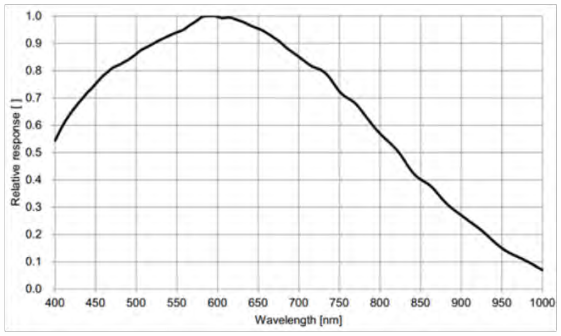
Available Model

MV-CH310-10TM-M58S-NN

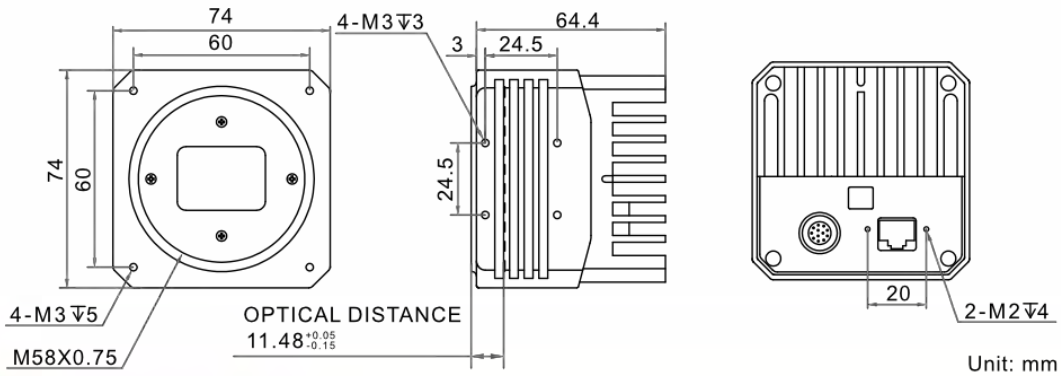
Applicable Industry

PCB AOI, FPD, railway related application, etc.

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CH310-10TM
Camera	
Sensor type	CMOS, global shutter
Sensor model	Sony® IMX342
Pixel size	3.45 μm × 3.45 μm
Sensor size	22.3 mm × 16.7 mm
Resolution	6464 × 4852
Max. frame rate	17.2 fps @6464 × 4852
Dynamic range	73 dB
SNR	40 dB
Gain	0 dB to 24 dB
Exposure time	4 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, 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), RS-232 × 1
Power supply	9 VDC to 24 VDC
Power consumption	Typ. 11.5 W@12 VDC
Mechanical	
Lens mount	M58*0.75, flange back focal length 11.48 mm (0.5")
Dimension	74 mm × 74 mm × 64.4 mm (2.9" × 2.9" × 2.5")
Weight	Approx. 560 g (1.2 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 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 V2.0, GenICam
Certification	CE, RoHS, KC

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