

MV-CH250-60TM

25 MP CMOS 10 GigE Area Scan Camera



GEN<i>i>CAM

10GiGE VISION

Introduction

MV-CH250-60TM camera adopts CMOS sensor to provide high-quality images with high resolution and low noise. It uses 10 GigE interface to transmit non-compressed data in real time, and its max. frame rate can reach 31.7 fps in full resolution.

Key Feature

- Resolution of 5120 × 5120, and pixel size of 4.5 μm × 4.5 μm.
- Supports auto or manual adjustment of exposure time, and manual adjustment of gain, Gamma correction, LUT, etc.
- Adopts 10 GigE interface, compatible with GigE, and max. transmission distance of 100 meters.
- Compact design with mounting holes on panels for flexible mounting.
- Compatible with GigE Vision V2.0 Protocol, GenlCam Standard, and third-party software based on the protocol and standard.

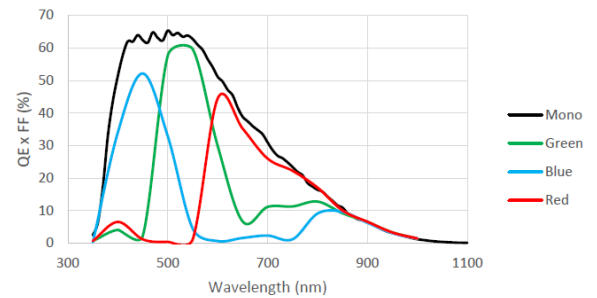
Available Model

MV-CH250-60TM-M58S-NF

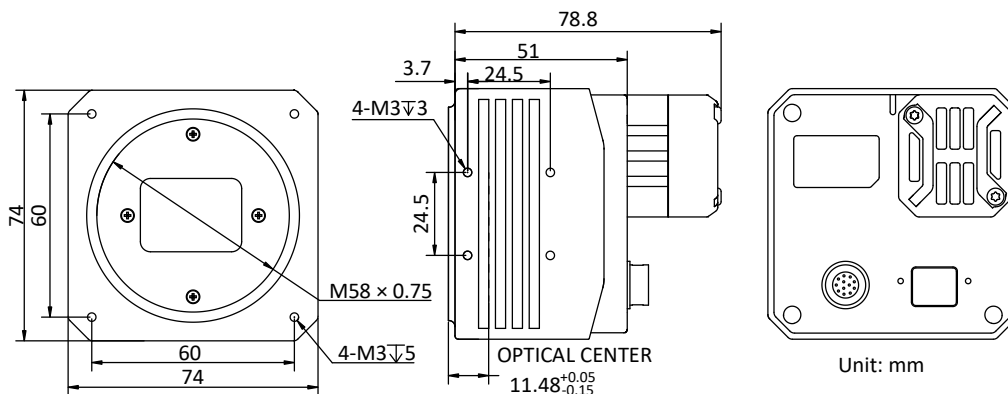
Applicable Industry

PCB AOI, FPD detection, photovoltaics, railway related application, etc.

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CH250-60TM
Camera	
Sensor type	CMOS, global shutter
Pixel size	4.5 μm \times 4.5 μm
Sensor size	23 mm \times 23 mm
Resolution	5120 \times 5120
Max. frame rate	31.7 fps @ 5120 \times 5120 Mono 8
Dynamic range	66 dB
SNR	40 dB
Gain	0 dB to 15.6 dB
Exposure time	15 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/Color	Mono
Pixel format	Mono 8/10/10Packed/12/12Packed
Binning	1 \times 1, 2 \times 2, 4 \times 4
Decimation	1 \times 1, 2 \times 2, 4 \times 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	12-pin P10 connector provides power and I/O, including opto-isolated input \times 1 (Line 0), opto-isolated output \times 1 (Line 1), bi-directional non-isolated I/O \times 1 (Line 2), RS-232 \times 1
Power supply	12 VDC to 24 VDC
Power consumption	Typ. 15.1 W @ 12 VDC
Mechanical	
Lens mount	M58*0.75, flange back length 11.48 mm
Dimension	74 mm \times 74 mm \times 78.8 mm (2.9" \times 2.9" \times 3.1")
Weight	Approx. 550 g (1.2 lb)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)
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 7/10, 64-bit Window 11, and 32/64-bit Linux
Compatibility	GigE Vision V2.0, GenICam
Certification	CE, RoHS, KC