

MV-CH290-61GM

29 MP 36 mm × 24 mm CCD GigE Camera

Introduction

MV-CH290-61GM is a high quality device that can be used in a variety of applications, including SMT/PCB AOI, FPD detection, railway related applications and etc.

Key Feature

- 29 MP resolution, pixel size of 5.5µm
- High quality CCD sensor with ultra-high signal-to-noise ratio, wide dynamic range, excellent imaging quality
- 128 MB on-board buffer, which enable to cache multiple pictures for data transmission or image retransmitting in Burst mode
- GigE interface, with the maximum transmission distance of 100 m (without relay)
- Compact construction design with mounting holes on the up and bottom panels for flexible mounting

Available Model

- M58 Mount without fan, Mono: MV-CH290-61GM-M58S-NN
- M58 Mount with fan, Mono: MV-CH290-61GM-M58S-NF
- F Mount with fan, Mono: MV-CH290-61GM-F-NF

Applicable Industry

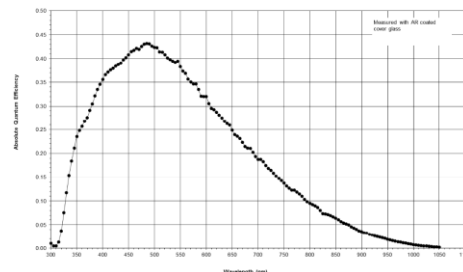
SMT/PCB AOI, FPD detection, railway related applications



GEN*i*CAM

GIG*E* VISION

Sensor Quantum Efficiency



Recommended Accessories

- **Power:** 12VDC @2A switching power or power adapter
- **NIC:** Intel Pro1000 or higher
- **Network Cable:** CAT5e or CAT6 network cable recommended

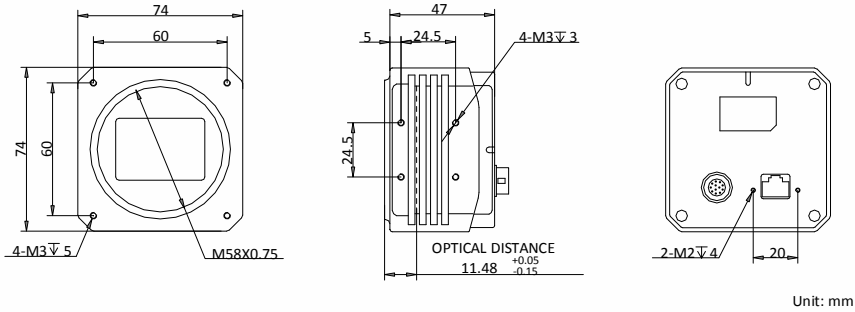


Specification

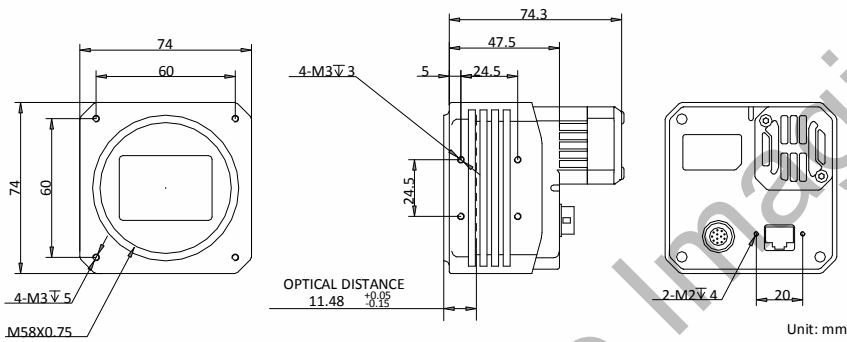
Model	MV-CH290-61GM
Parameters	29 MP 36 mm × 24 mm CCD GigE Camera
Camera	
Sensor type	CCD, global shutter
Sensor model	KAI29050
Pixel size	5.5 μm × 5.5 μm
Sensor size	36 mm × 24 mm
Resolution	6576 × 4384
Maximum frame rate	4 fps
Dynamic range	64 dB
SNR	40 dB
Gain	0 dB to 20 dB
Exposure time	110 μs to 1 s
Shutter mode	Off/Once/Continuous exposure mode
Pixel format	Mono 8/10/10p/12/12p
Image buffer	128 MB
Electrical features	
Data interface	Gigabit Ethernet
Digital I/O	12 pin I/O, Opto-isolated input x1, Opto-isolated output x1, Bi-directional non-isolated I/O x1, RS232 x1, full-duplex RS485 x1
Power supply	Using 12 VDC @2A switching power or power adapter
Power consumption	< 12 W @12 VDC
Structure	
Lens mount	M58 × 0.75: Optical back focal length 11.48 mm F Mount: Optical back focal length 46.5 mm
Dimension	M58 Mount without fan: 74 mm × 74 mm × 47 mm (2.9" × 2.9" × 1.9") M58 Mount with fan: 74 mm × 74 mm × 74.3 mm (2.9" × 2.9" × 2.9") F Mount with fan: 74 mm × 74 mm × 81.7 mm (2.9" × 2.9" × 3.2")
Weight	M58 Mount without fan: <410g (0.9 lb.) M58 Mount with fan: <450g (0.1 lb.) F Mount with fan: <600g (1.3 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 80% RH, without condensation
General	
Client software	MVS or third-party software supporting GigE Vision Protocol
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS
Compatibility	GigE Vision
Certification	CE, FCC, RoHS, KC

Dimension

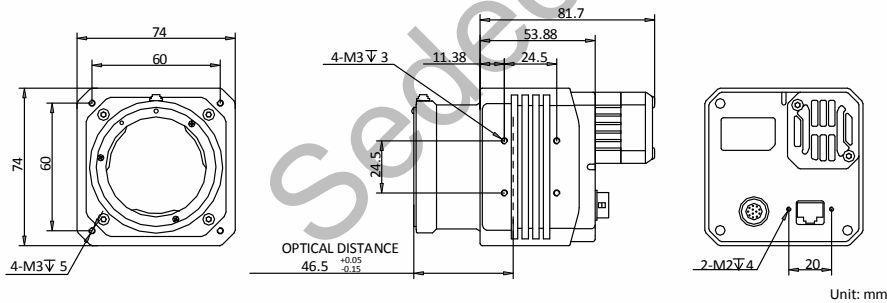
M58-mount without fan:



M58-mount with fan:



F-mount with fan:



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