MV-CH080-60GM/GC

8 MP 4/3" CCD GigE Area Scan Camera

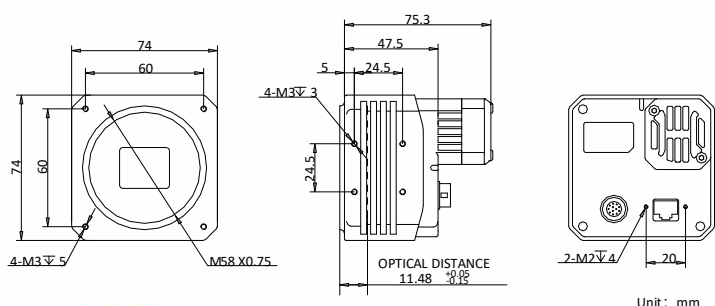
GEN<i>CAM

GigE VISION®

Introduction

MV-CH080-60GM/GC 8 MP 4/3" CCD GigE Camera is a high quality device that can be used in a variety of applications, including SMT automatic optical detection, PCB AOI, FPD detection, etc.

Key Feature

- High quality CCD sensor with ultra high SNR, wide dynamic range, excellent imaging quality.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Up to 128 MB local memory for burst transmission and retransmission.
- Compact design with mounting holes on the up and bottom panels for flexible mounting.
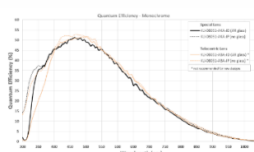
Dimension

M58-mount with fan:

Available Model

- M58-mount with fan, mono camera: MV-CH080-60GM-M58S-NF
- M58-mount without fan, mono camera: MV-CH080-60GM-M58S-NN
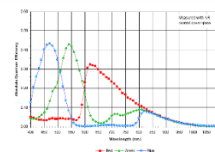- M58-mount with fan, color camera: MV-CH080-60GC-M58S-NF

Applicable Industry

SMT automatic optical detection, PCB AOI, FPD detection, railway related applications, etc.
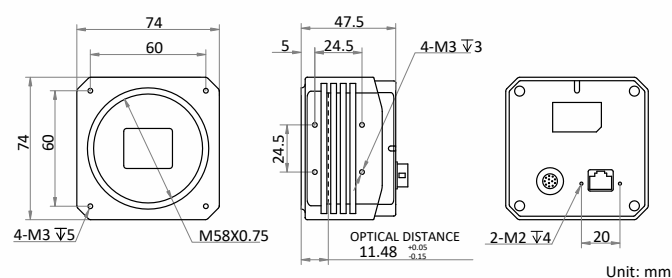
Sensor Quantum Efficiency

MV-CH080-60GM   MV-CH080-60GC

M58-mount without fan:

Specification

Model	MV-CH080-60GM	MV-CH080-60GC
Camera		
Sensor type	CCD, global shutter	
Sensor model	KAI08051	
Pixel size	5.5 μm × 5.5 μm	
Sensor size	4/3"	
Resolution	3296 × 2472	
Max. frame rate	14 fps @3296 × 2472	
Dynamic range	66 dB	
SNR	40 dB	
Gain	0 dB to 20 dB	
Exposure time	50 μs to 1 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer GR 8/10/10p/12/12p, YUV 422 Packed, YUV422_YUYV_Packed, RGB 8, BGR 8
Binning	Not support	
Decimation	Not support	
Reverse image	Supports horizontal reverse image output	
Image buffer	128 MB	
Electrical feature		
Data interface	Gigabit Ethernet, compatible with Fast 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), and RS-232 × 1	
Power supply	Switching power supply or power adapter of 12 VDC, 2 A	
Power consumption	Typ. 12 W@12 VDC	
Mechanical		
Lens mount	M58*0.75, optical back focal length 11.48 mm, supports C-mount or F-mount via lens adapter	
Dimension	M58-mount with fan: 74 mm × 74 mm × 75.3 mm (2.9" × 2.9" × 3.0") M58-mount without fan: 74 mm × 74 mm × 47.5 mm (2.9" × 2.9" × 1.9")	
Weight	M58-mount with fan: approx. 450 g (1.0 lb.) M58-mount without fan: approx. 410 g (0.9 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, 32/64-bit Linux and 64-bit MacOS	
Compatibility	GigE Vision V1.2, GenICam	
Certification	CE, FCC, RoHS, KC	

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