

MV-CH800-60TM

80 MP CMOS 10 GigE Area Scan Camera



GEN<I>CAM

10GiGE
VISION

Introduction

MV-CH800-60TM camera adopts CMOS sensor to provide high-quality image. It uses 10 GigE interface to transmit non-compressed image in real time, and its max. frame rate can reach 15 fps in full resolution.

Key Feature

- Resolution of 10304×7712 , and pixel size of $2.9 \mu\text{m} \times 2.9 \mu\text{m}$.
- Supports auto or manual adjustment of exposure time and white balance, and manual adjustment of gain, LUT, Gamma correction, etc.
- Adopts 10 GigE interface providing max. transmission distance of 100 meters without relay.
- Compact design with mounting holes on panels for flexible mounting.
- Compatible with GigE Vision Protocol V2.0, GenICam Standard, and third-party software based on protocols.

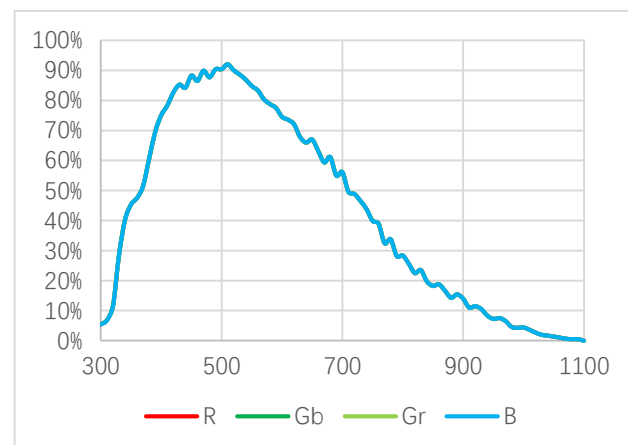
Available Model

MV-CH800-60TM-M58S-NN

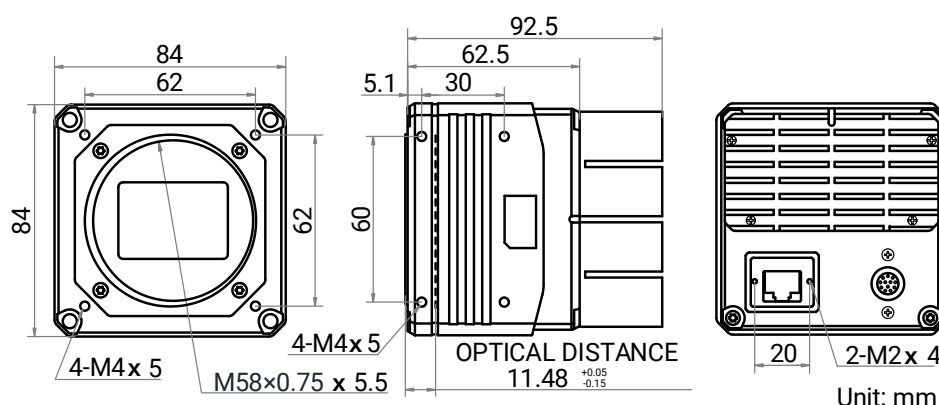
Applicable Industry

PCB AOI, FPD, railway related applications, PV, etc.

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CH800-60TM
Camera	
Sensor type	CMOS, global shutter
Sensor model	Stacked BSI
Pixel size	2.9 μm $\times$ 2.9 μm
Sensor size	30 mm $\times$ 22.4 mm
Resolution	10304 $\times$ 7712
Max. frame rate	15 fps @ 10304 $\times$ 7712 Mono 8
Dynamic range	75.7 dB
SNR	42 dB
Gain	0 dB to 24 dB
Exposure time	68 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 $\times$ 1, 1 $\times$ 2, 1 $\times$ 4, 2 $\times$ 1, 2 $\times$ 2, 2 $\times$ 4, 4 $\times$ 1, 4 $\times$ 2, 4 $\times$ 4
Decimation	Supports 1 $\times$ 1, 1 $\times$ 2, 1 $\times$ 4, 2 $\times$ 1, 2 $\times$ 2, 2 $\times$ 4, 4 $\times$ 1, 4 $\times$ 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), and RS-232 $\times$ 1
Power supply	9 VDC to 24 VDC
Power consumption	Typ. 11.7 W @ 12 VDC
Mechanical	
Lens mount	M58*0.75, flange focal length 11.48 mm
Dimension	84 mm $\times$ 84 mm $\times$ 92.5 mm (3.3" $\times$ 3.3" $\times$ 3.6")
Weight	Approx. 600 g (1.3 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 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)
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 XP/7/10/11, 32/64-bit Linux
Compatibility	GigE Vision V2.0, GenICam
Certification	CE, RoHS, KC