

MV-CH800-60TM

80 MP CMOS 10 GigE Area Scan Camera



GEN**(i)**CAM



Introduction

MV-CH800-60TM camera adopts CMOS sensor to provide high- MV-CH800-60TM-M58S-NN quality image. It uses 10 GigE interface to transmit noncompressed image in real time, and its max. frame rate can reach 15 fps in full resolution.

Key Feature

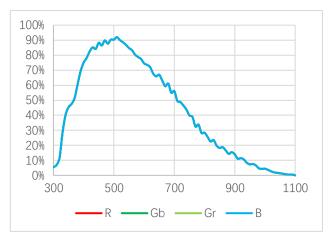
- Resolution of 10304 × 7712, and pixel size of 2.9 µm × 2.9 µm.
- Supports auto or manual adjustment of exposure time and white balance, and manual adjustment of gain, LUT, Gamma correction, etc.
- Adopts 10 GigE interface providing max. transmission distance of 100 meters without relay.
- Compact design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

Available Model

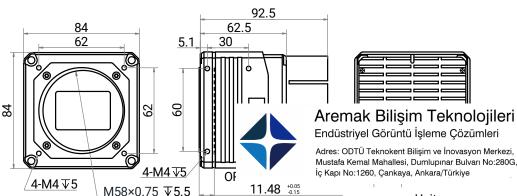
Applicable Industry

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

Sensor Quantum Efficiency



Dimension



W: www aremak com tr E: shop@aremak.com.tr T: +908502551506

Unit: mm



Specification

Model	MV-CH800-60TM
Camera	
Sensor type	CMOS, global shutter
Sensor model	Stacked BSI
Pixel size	2.9 μm × 2.9 μm
Sensor size	30 mm × 22.4 mm
Resolution	10304 × 7712
Max. frame rate	15 fps @ 10304 × 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 × 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 (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 × 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 back length 11.48 mm
Dimension	84 mm × 84 mm × 92.5 mm (3.3" × 3.3" × 3.6")
Weight	Approx. 600 g (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 80 °C (-22 °F to 176 °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, GenlCam
Certification	CE, RoHS, KC

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Aremak Bilişim Teknolojileri Endüstriyel Görüntü İşleme Çözümleri

Adres: ODTÜ Teknokent Bilişim ve İnovasyon Merkezi, Mustafa Kemal Mahallesi, Dumlupınar Bulvarı No:280G, İç Kapı No:1260, Çankaya, Ankara/Türkiye

W: www.aremak.com.tr E: shop@aremak.com.tr T: +908502551506

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