

VZ-5MTG-M/C 58H00

Industrial Digital Cameras with GigE Interface



GiGE
VISION
GEN< i >CAM

The VZ-5MTG-M/C 58H00 camera is based on 2.5GBASE-T technology. It transfers image data at speeds of up to 2.5 Gbps and supports link speed switching to 1 Gbps, improving the transmission performance of network cameras and expanding their range of applications.

The camera features passive cooling technology, which maximizes transmission capacity within a limited volume, resulting in increased reliability and adaptability. It is ideal for machine vision applications such as industrial inspection, medical imaging, scientific research, education, and security.

VIEWORKS

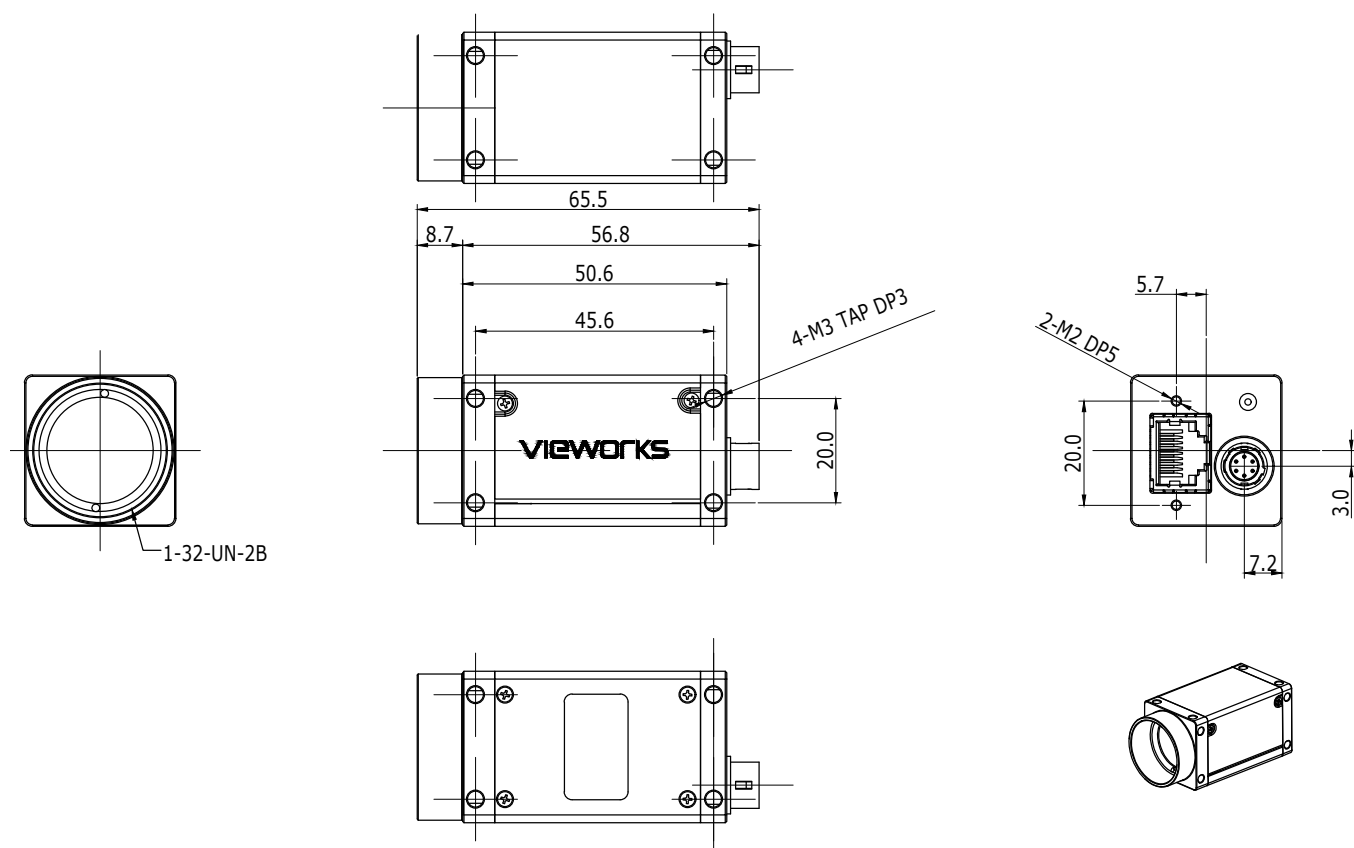
vision.vieworks.com

VZ-5MTG-M/C 58H00

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Mechanical Dimensions

Unit: mm



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Main Features

- Power over Ethernet (IEEE802.3af compliant)
- Programmable ROI and increased frame rate with partial scan
- Programmable LUTs and storable user sets
- 4 Acquisition Controls: single frame, continuous, software trigger, and hardware trigger
- Adjustable Gamma and Sharpness for optimizing the brightness and sharpness of images
- Supports Remove Parameter Limit to expand the range of exposure, gain, white balance, etc.
- Supports Global Reset Release Shutter exposure

Applications

- Industrial Inspection
- Medical Research
- Scientific Research
- Education
- Security

Specifications

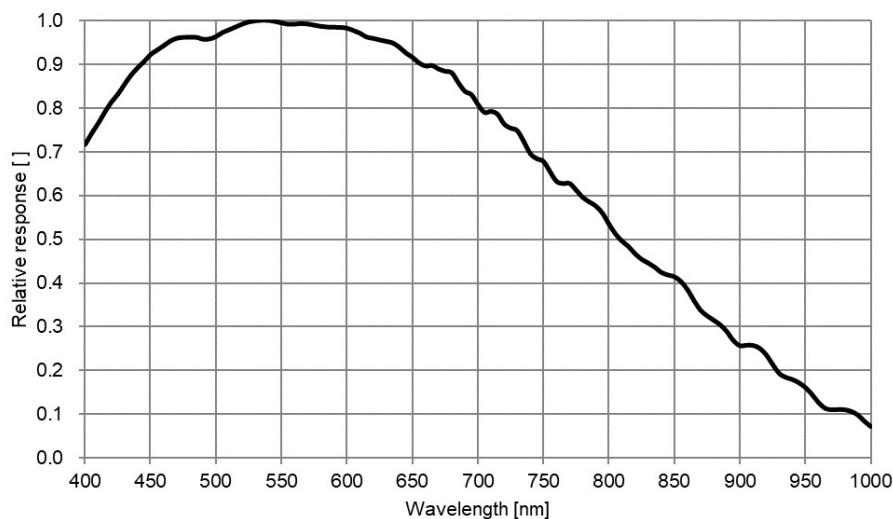
Model			VZ-5MTG-M/C 58H00	
Resolution (H x V)			2,448 x 2,048	
Sensor			Sony IMX547 Global Shutter CMOS	
Pixel Size			2.74 μm × 2.74 μm	
Data Interface			Gogabit Ethernet (1000 Mbit/s) or 2.5 Gigabit Ethernet (2500 Mbit/s)	
Frame Rate			56.04 fps @ 2,488 × 2,048 (Adjust the packet size to 8164 and reserved bandwidth to 5)	
ADC Bit Depth			12 bit	
Pixel Bit Depth			8 bit and 12 bit	
Exposure Time	Ultrashort		1 μs to 2.4 μs, Actual Steps: 0.1 μs	
	Standard	Normal Mode	32 μs to 1s, Actual Steps: 1 μs	
		Mono8 & Bayer RG8	21 μs to 1s, Actual Steps: 5.88 μs	
		Mono12 & Bayer RG 12	21 μs to 1s, Actual Steps: 11.76 μs	
		RGB8 & BGR8	21 μs to 1s, Actual Steps: 17.64 μs	
Gain			0dB to 16dB, Default: 0dB, Steps: 0.1dB	
Mono / Color			Color	Mono
Pixel Formats			Bayer RG8, Bayer RG12, RGB8, BGR8, and Mono8	Mono8 and Mono12
Signal Noise Ratio			39.85dB	39.82dB
Synchronization			Hardware trigger and Software trigger	
I/O			1 input with opto-isolated, 2 programmable GPIOs	
Temperature			Operating: 0°C to 45°C, Storage: -20°C to 70°C	
Operating Humidity			10% to 80%	
Power Requirements			12V DC-10% to 24V DC+10% supplied via the camera's Hirose connector Supports PoE (Power over Ethernet, IEEE802.3af compliant)	
Power Consumption			< 5.5 W @ 12V DC or PoE	
Lens Mount			C-mount	
Dimensions and Weight			29mm x 29mm x 50.6mm, 69g	
Programmable Control			Image size, Gain, Exposure time, Trigger polarity, Flash polarity	
Conformity			CE, RoHS, FCC, ICES, UKCA, GigE Vision, and GenICam	

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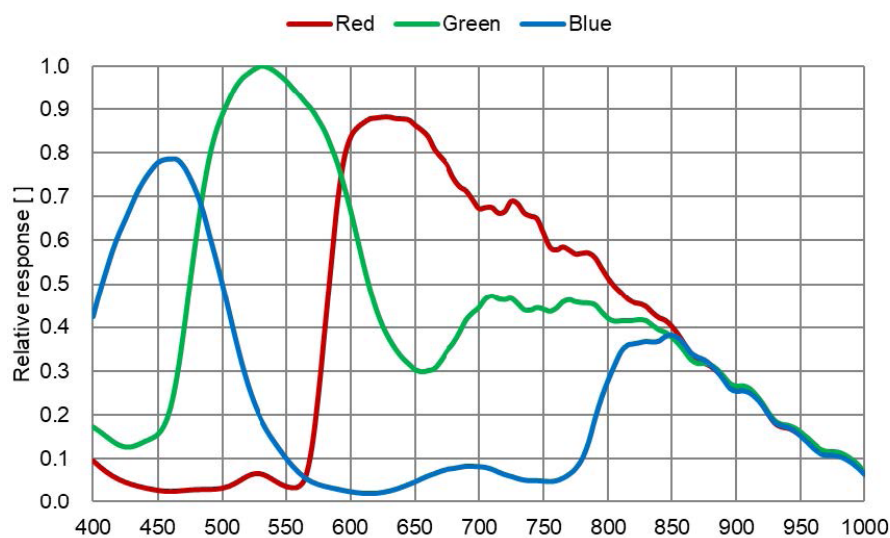
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Spectral Response

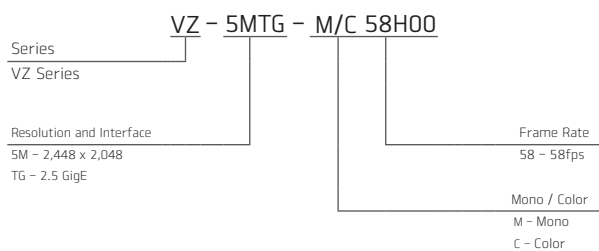
- VZ-5MTG-M58H00 (Mono)



- VZ-5MTG-C58H00 (Color)



Ordering Scheme



Connector Specification

Power/Control



- | Pin | Signal | Description |
|-----|----------|---|
| 1 | POWER_IN | Camera external power (+12 VDC ~ +24 VDC) |
| 2 | Line0+ | Opto-isolated input+ |
| 3 | Line2 | GPIO input/output |
| 4 | Line3 | GPIO input/output |
| 5 | Line0- | Opto-isolated input- |
| 6 | GND | PWR GND & GPIO GND |

Connectors on camera body