

VZ-6MG-M/C 18H00

Industrial Digital Cameras with GigE Interface



GiGE
VISION
GEN<I>CAM

VZ-6MG-M/C 18H00, the new industrial GigE vision camera with improved built-in ISP algorithms provides multiple acquisition controls. Thanks to the extremely compact design (29mm x 29mm x 40.3mm), robust metal housings and locking screw connectors, the VZ-6MG-M/C 18H00 camera can secure the reliability of cameras deployed in harsh environments.

VZ-6MG-M/C 18H00 has opto-isolated I/Os, and the GPIOs give the camera maximum flexibility to adapt to specific needs. The VZ-6MG-M/C 18H00 camera is ideal for machine vision applications such as industrial inspection, medical, scientific research, education, security and so on.

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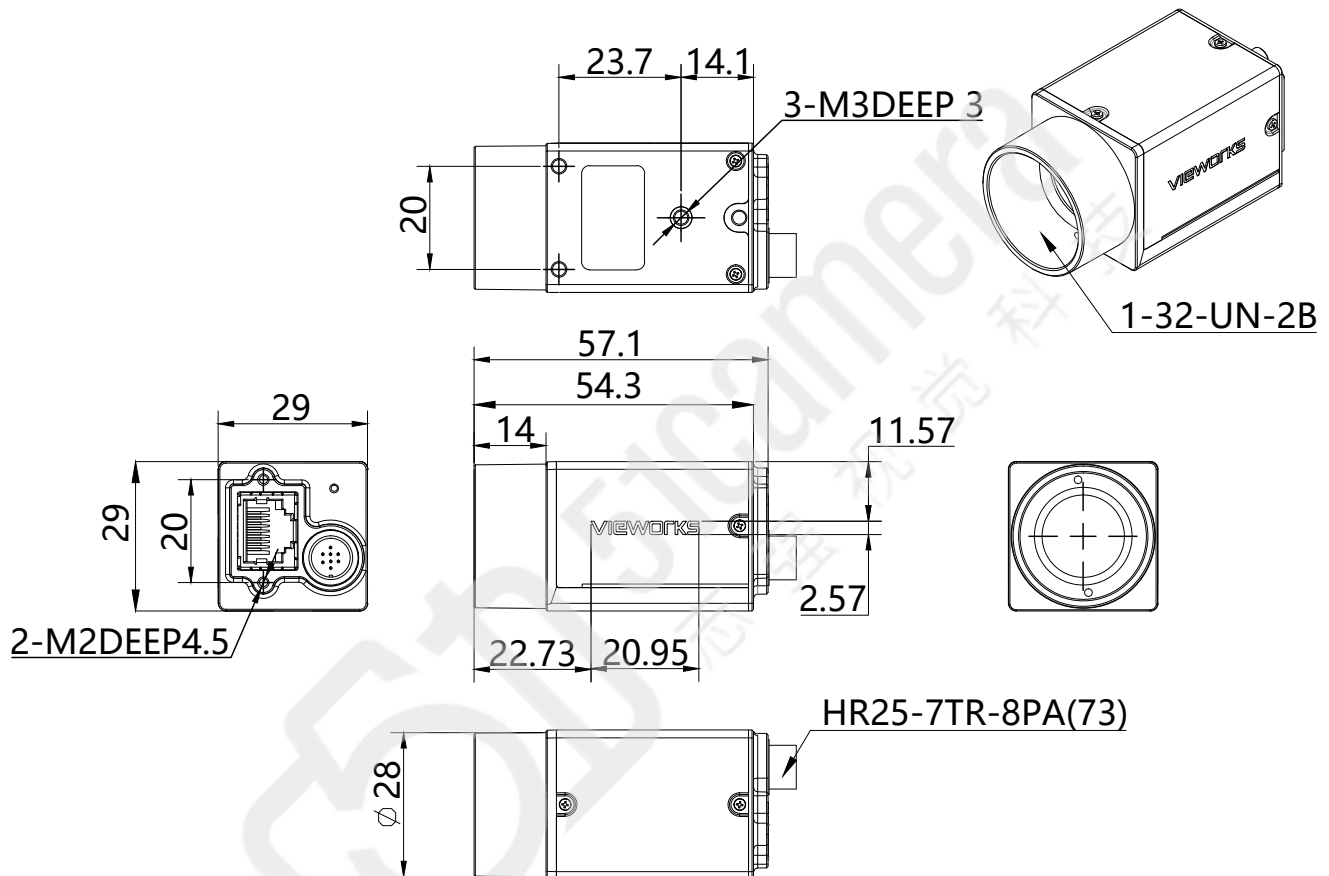
vision.vieworks.com

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Mechanical Dimensions

Unit: mm



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Main Features

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

Applications

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

Specifications

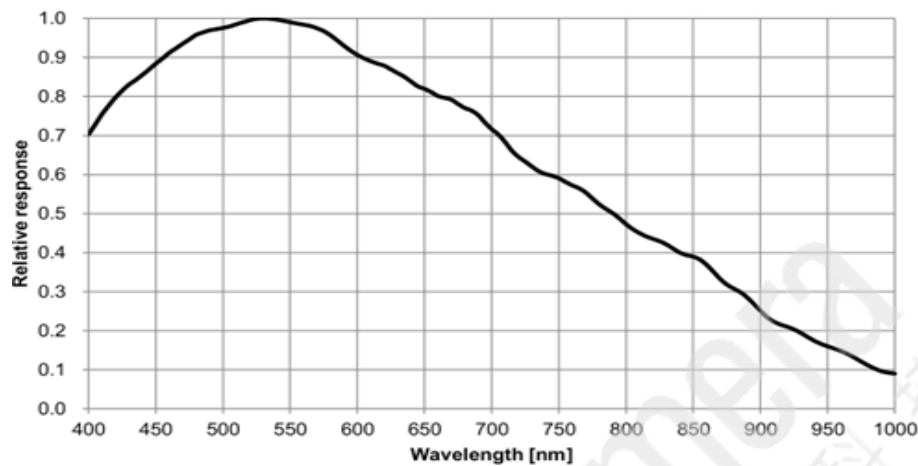
Model	VZ-6MG-M/C 18H00	
Resolution (H x V)	3088 x 2064	
Sensor	Sony IMX178 Rolling Shutter CMOS	
Pixel Size	2.4 μm \times 2.4 μm	
Data Interface	Fast Ethernet (100 Mbit/s) or Gigabit Ethernet (1000 Mbit/s)	
Frame Rate	18.45 fps @ 3088 \times 2064 (Adjust the packet size to 8192 and reserved bandwidth to 5)	
ADC Bit Depth	12 bit	
Pixel Bit Depth	8 bit, 12 bit	
Exposure Time	Standard: 19 μs to 1s, GRR: 38 μs to 0.2s, Actual Steps: 1 row period	
Gain	0dB to 24dB, Default: 0dB, Steps: 0.1dB	
Mono / Color	Color	Mono
Pixel Formats	Bayer RG8 and Bayer RG12	Mono8 and Mono12
Signal Noise Ratio	39.67dB	40.14dB
Synchronization	Hardware trigger and Software trigger	
I/O	1 input and 1 output 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	12VDC-10% to 24VDC+10% supplied via the camera's Hirose connector Supports PoE (Power over Ethernet, IEEE802.3af compliant)	
Power Consumption	< 3 W @ 24 VDC, < 3.75 W @ PoE	
Lens Mount	C	
Dimensions and Weight	29mm x 29mm x 40.3mm, 85g	
Programmable Control	Image size, Gain, Exposure time, Trigger polarity, Flash polarity	
Conformity	CE, RoHS, FCC, GigE Vision, GenICam, KC	

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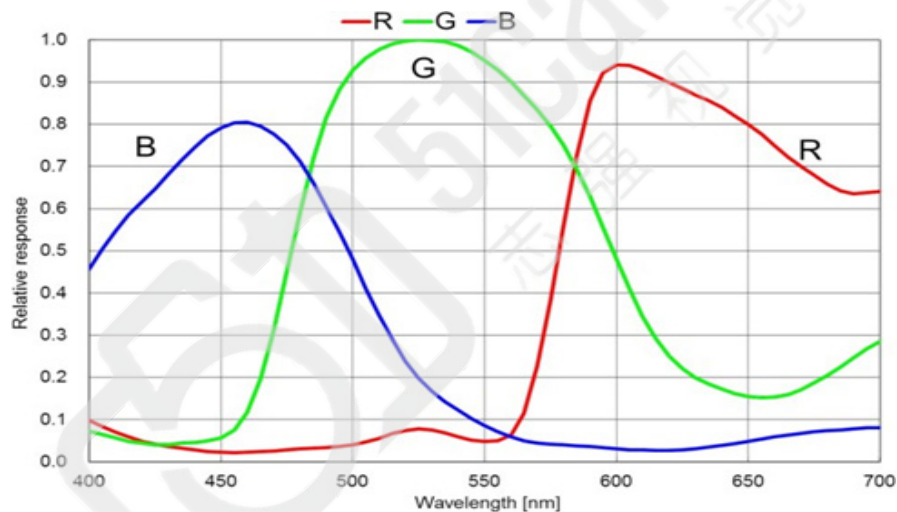
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Spectral Response

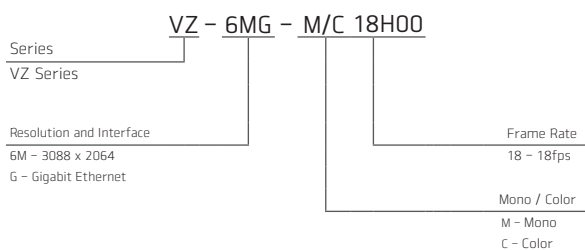
- VZ-6MG-M18H00 (Mono)



- VZ-6MG-C18H00 (Color)



Ordering Scheme



Connector Specification

Power/Control



- | | |
|-------------|---|
| 1: Line0+ | Opto-isolated input+ |
| 2: Ground | GND & GPIO GND |
| 3: Line0- | Opto-isolated input- |
| 4: POWER_IN | Camera external power (+12 VDC ~ +24 VDC) |
| 5: Line2 | GPIO input/output |
| 6: Line3 | GPIO input/output |
| 7: Line1- | Opto-isolated input- |
| 8: Line1+ | Opto-isolated input+ |

Connectors on camera body