VZ-2MG-M/C 60C00

Industrial Digital Cameras with GigE Interface

VZ-2MG-M/C 60C00, the new industrial GigE vision camera with improved built-in ISP algorithms provides multiple acquisition controls. Thanks to the extremely compact design (29㎜ x 29㎜ x 40.3㎜),robust metal housings and locking screw connectors, the VZ-2MG-M/C 60C00 camara can secure the realiability of cameras deployed in harsh environments.

VZ-2MG-M/C 60C00 has opto-isolated I/Os, and the GPIOs give the camera maximum flexibility to adapt to specific needs. The VZ-2MG-M/C 60C00 camera is ideal for machine vision applications such as industrial inspection, medical, scientific research, education, security and so on.
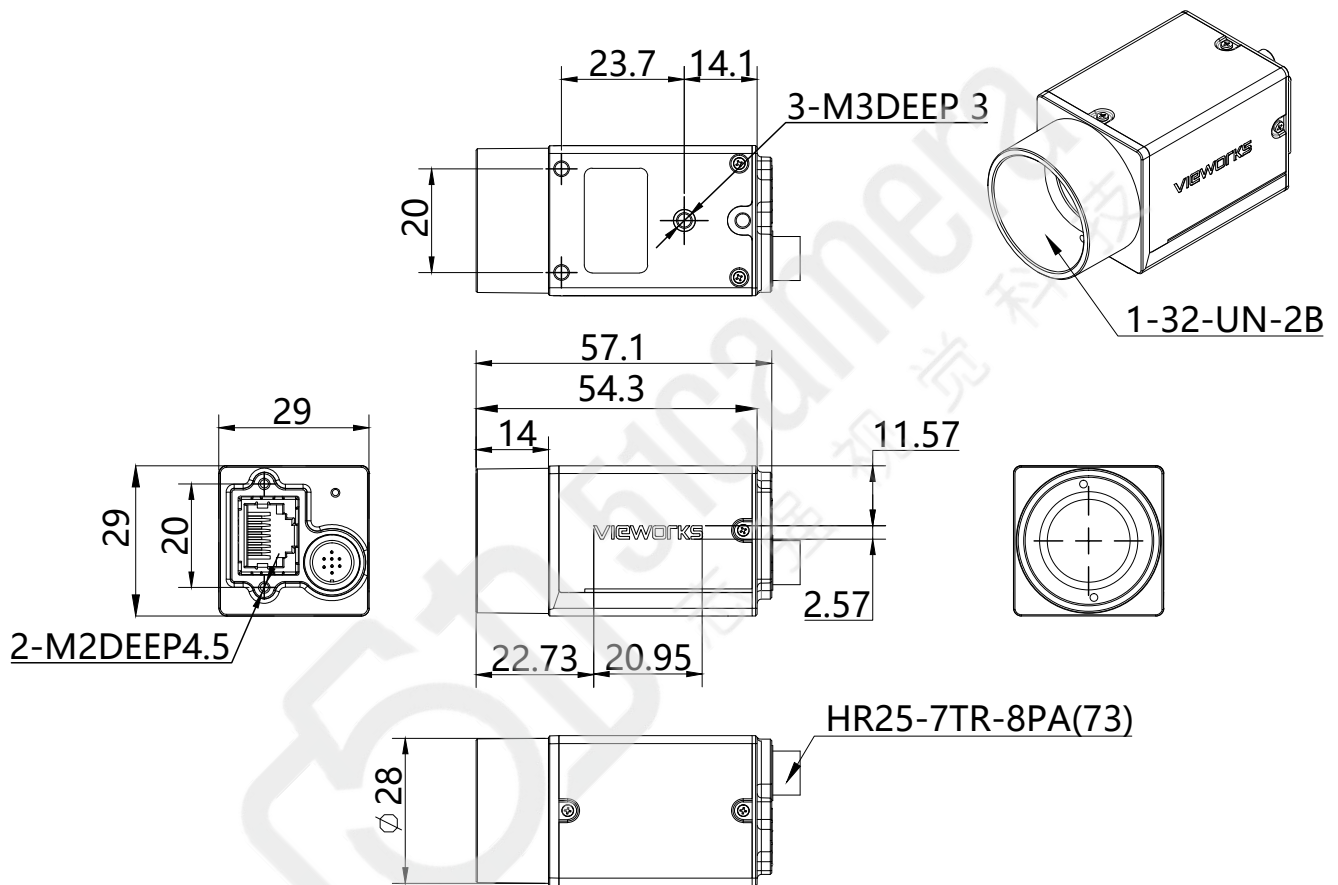
VZ-2MG-M/C 60C00

Industrial Digital Camera with GigE Interface

Mechanical Dimensions

Unit: ㎜

Vieworks

D-24-291

VZ-2MG-M/C 60C00

Industrial Digital Camera with GigE Interface

Main Features

- GigE interface with 10bit or 8bit Mono/Bayer output
- Programmable ROI, increased frame rate with partial scan
- Programmable LUTs and storable user sets
- 4 acquisiton 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.
- Compatible with GenICam™ and GigE Vision

Applications

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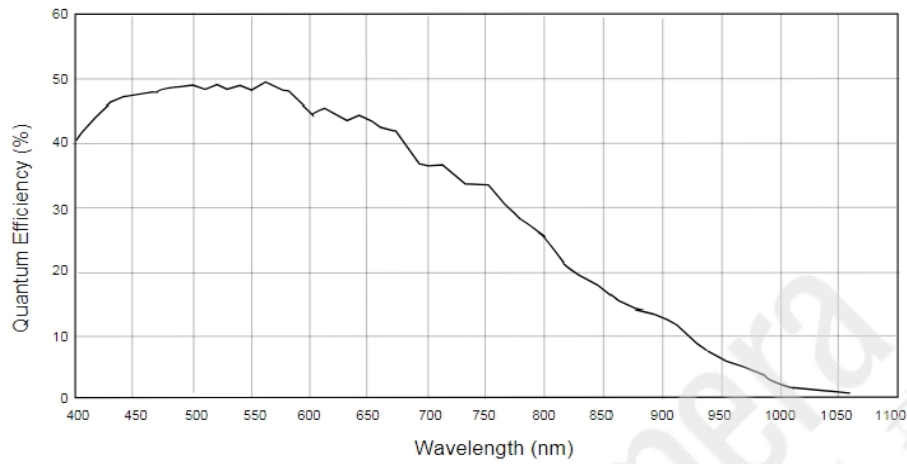- Scientific Research
- Education
- Security

Specifcations

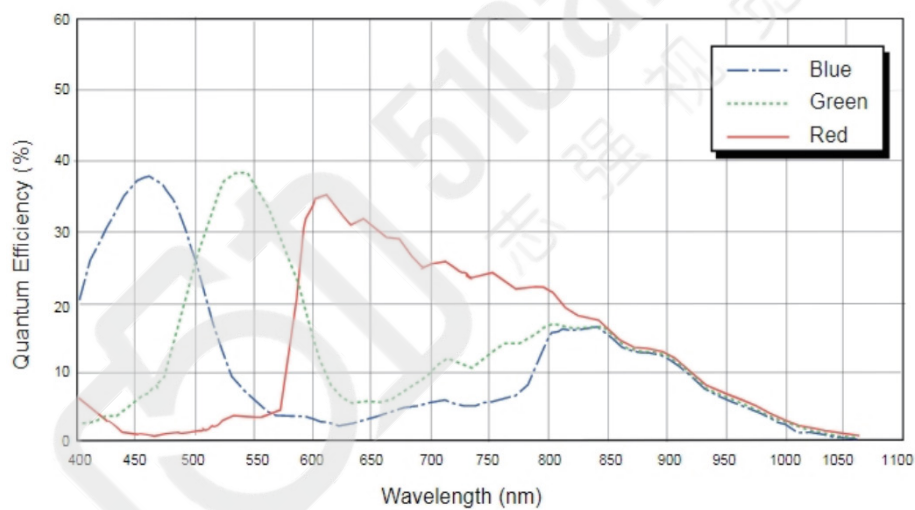| Model	VZ-2MG-M/C 60C00	
Resolution (H x V)	1600 x 1200	
Sensor	EV76C570 Global Shutter CMOS	
Pixel Size	4.5 μm × 4.5 μm	
Data Interface	Fast Ethernet (100 Mbit/s) or Gigabit Ethernet (1000 Mbit/s)	
Frame Rate	60fps @ 1600 x 1200 (Adjust the packet size to 8192 and reserved bandwidth to 5)	
ADC Bit Depth	10 bit	
Pixel Bit Depth	8 bit and 10 bit	
Exposure Time	Standard: 14μs to 0.86s Actual Steps: 1 row period	
Gain	0dB to 24dB	
Mono / Color	Color	Mono
Pixel Formats	Bayer RG8 and Bayer RG10	Mono8 and Mono10
Signal Noise Ratio	39.46dB	
Synchronization	Hardware trigger, Software trigger	
I/O	1 input and 1 output with opto-isolated, 2 programmable GPIOs	
Temperature	Operating: 0℃ to 45℃, Storage: -20℃ to 70℃	
Operating Humidity	10% to 80%	
Power Requirements	PoE (Power over Ethernet, IEEE802.3af compliant) or 12 VDC-10% to 24 VDC+10% supplied via the camera's Hirose connector	
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	

Spectral Response

- VZ-2MG-M60C00 (Mono)

- VZ-2MG-C60C00 (Color)

Ordering Scheme

VZ – 2MG – M/C 60C00

Series
VZ Series

Resolution and Interface
2M – 1600 x 1200
G – Gigabit Ethernet

Frame Rate
60 – 60fps

Mono / Color
M – Mono
C – Color
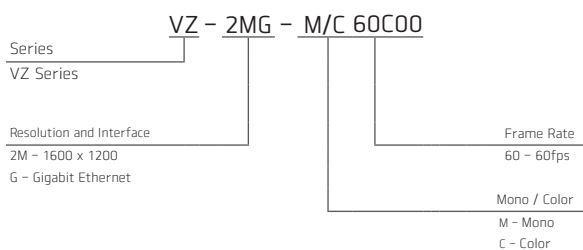
Connector Specification

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