# VZ-2MG-M/C 60C

### Industrial Digital Cameras with GigE Interface





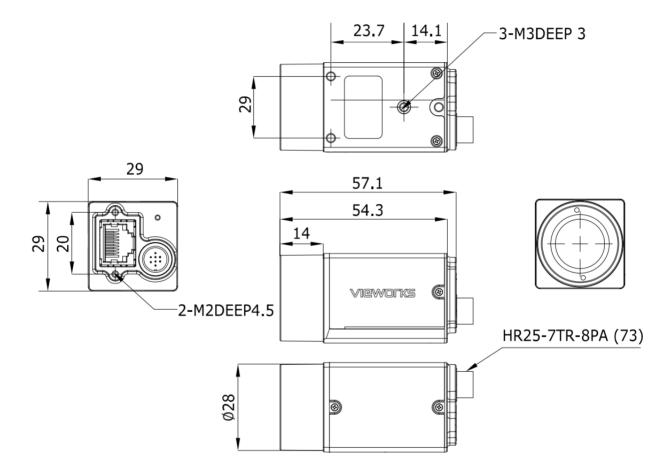
VZ-2MG-M/C 60C, the new industrial GigE vision camera with improved built-in ISP algorithms provides multiple acquisition controls. Thanks to the extremely compact design (29mm x 29mm x 40.3mm), robust metal housings and locking screw connectors, the VZ-2MG-M/C 60C camara can secure the realiability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

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



### Mechanical Dimensions

Unit: mm



41-3, Burim-ro 170 beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14055 Republic of Korea Tel +82-70-7011-6161 Fax +82-31-386-8631 E-mail vision@vieworks.com Web vision.vieworks.com

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#### 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 GenlCam<sup>™</sup> and GigE Vision

#### Specifcations

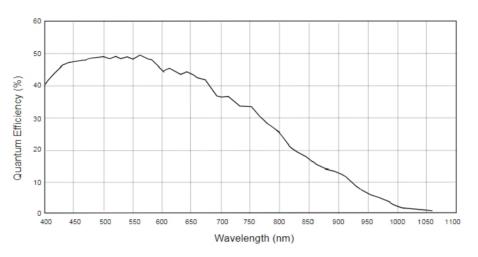
#### Applications

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

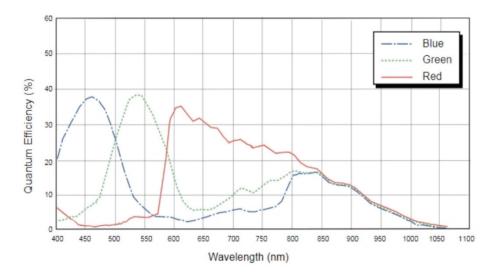
Model	VZ-2MG-M/C 60C00	
Resolution (H x V)	1600 × 1200	
Sensor	EV76C570 Global Shutter CMOS	
Pixel Size	4.5 $\mu$ m $\times$ 4.5 $\mu$ m	
Data Interface	Fast Ethernet (100 Mbit/s) or Gigabit Ethernet (1000 Mbit/s)	
Frame Rate	60fps @ 1600 x 1200	
Tame nate	(Adjust the packet size to 8192 and reserved bandwidth to 5)	
ADC Bit Depth	10 bit	
Pixel Bit Depth	8 bit, 10 bit	
Black Level Control	Adjustable (-2048 ~ 2048 LSB at 12 bits)	
Exposure Time	Standard: 14µs ~ 0.86s Actual Steps: 1 row period	
Gain	$0dB \sim 24dB$	
Mono / Color	Color	Mono
Pixel Formats	Bayer RG8, Bayer RG10	Mono8, Mono10
Single 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℃ ~ 45℃, Storage: -20℃ ~ 70℃	
Operating Humidity	10% ~ 80%	
Power Requirements	PoE (Power over Ethernet, IEEE802.3af compliant) or 12 VDC-10% $\sim$ 24	
Power Requirements	PoE (Power over Ethernet, IEEE802.	3af compliant) or 12 VDC-10% ~ 24
Power Requirements		3af compliant) or 12 VDC-10% ~ 24 camera's Hirose connector
Power Requirements Power Consumption	VDC+10% supplied via the	
	VDC+10% supplied via the	camera's Hirose connector < 3.75 W @ PoE
Power Consumption	VDC+10% supplied via the < 3 W @ 24 VDC,	camera's Hirose connector < 3.75 W @ PoE C
Power Consumption Lens Mount	VDC+10% supplied via the < 3 W @ 24 VDC, ( 29mm x 29mm x	camera's Hirose connector < 3.75 W @ PoE C

#### Spectral Response

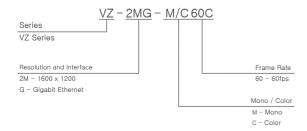
• VZ-2MG-M60C00 (Mono)



• VZ-2MG-C60C00 (Color)



## Ordering Scheme



# **ConnectorSpecification**

1: Line0+

3: Line0-

5: Line2

6: Line3

7: Line1-

8: Line1+

Power/Control



#### Opto-isolated input+ 2: Ground GND & GPIO GND Opto-isolated input-4: POWER\_IN Camera external power (+12 VDC ~ +24 VDC) GPO input/output GPO input/output Opto-isolated input-Opto-isolated input+

Connectors on camera body