VZ-1600G-M/C 75H

Industrial Digital Cameras with GigE Interface





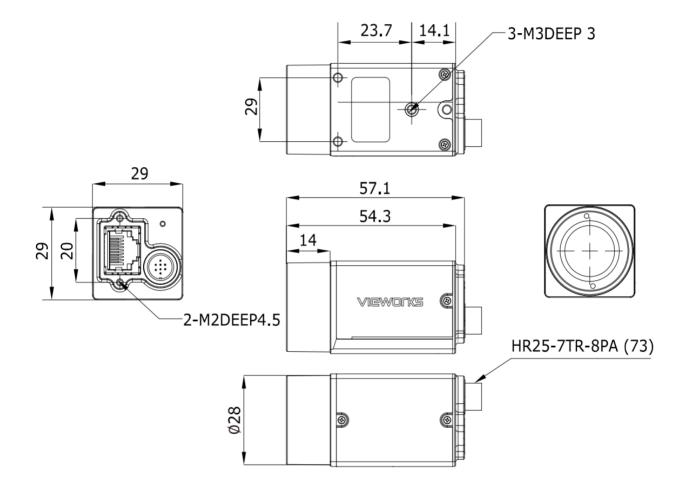
VZ-1600G-M/C 75H, the new industrial GigE vision camera with improved built-in ISP algorithms provides multiple acquisition controls. Thanks to the extremely compact design (29mmx29mmx40.3mm), robust metal housings and locking screw connectors, the VZ-1600G-M/C 75H camara can secure the realiability of cameras deployed in harsh environments.

VZ-1600G-M/C 75H has opto-isolated I/Os, and the GPIOs give the camera maximum flexibility to adapt to specific needs. The VZ-1600G-M/C 75H camera is ideal for machine vision applications such as industrial inspection, medical, scientific research, education, security and so on.



Mechanical Dimensions

Unit: mm





Main Features

- Power over Ethernet (IEEE802.3af compliant)
- 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.
- Two exposure time modes: Standard / Minimal

Applications

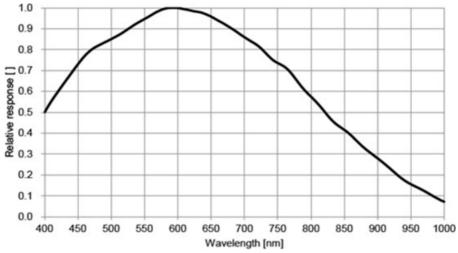
- Industrial Inspection
- Medical Research
- · Scientific Research
- Education
- Security

Specifcations

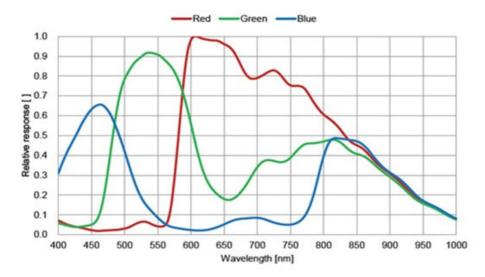
Model	VZ-1600G-M/C 75H00	
Resolution (H x V)	1440 x 1080	
Sensor	1/2.9" Sony IMX273 Global Shutter CMOS	
Pixel Size	3.45μ m $ imes 3.45 \mu$ m	
Data Interface	Fast Ethernet (100 Mbit/s) or Gigabit Ethernet (1000 Mbit/s)	
Frame Rate	75.6 fps @ 1440 × 1080	
ADC Bit Depth	12 bit	
Pixel Bit Depth	8 bit, 12 bit	
Exposure Time	Ultrashort: 1\mus~100\mus, Actual Steps: 1\mus Standard: 20\mus ~ 1s, Actual Steps: 1 row period	
Gain	0dB ~ 24dB, Default: 0dB, Steps: 0.1dB	
Mono / Color	Color	Mono
Pixel Formats	Bayer RG8, Bayer RG12	Mono8, Mono12
Single Noise Ratio	40.76dB	40.61dB
Synchronization	Hardware trigger, Software trigger	
I/O	1 input and 1 output with opto-isolated, 2 programmable GPIOs	
Temperature	Operating: 0°C ~ 45°C, Storage: -20°C ~ 70°C	
Operating Humidity	10% ~ 80%	
Power Requirements	12VDC-10% ~ 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	С	
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, GenlCam, KC	

Spectral Response

• VZ-1600G-M75H00 (Mono)



• VZ-1600G-C75H00 (Color)



Ordering Scheme

Connector Specification

2 5 1 3 6 8 4 \$

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) GPO input/output 5: Line2 6: Line3 GPO input/output 7: Line1-Opto-isolated input-8: Line1+ Opto-isolated input+

Connectors on camera body