VZ-1600G-M/C 75H00

Industrial Digital Cameras with GigE Interface





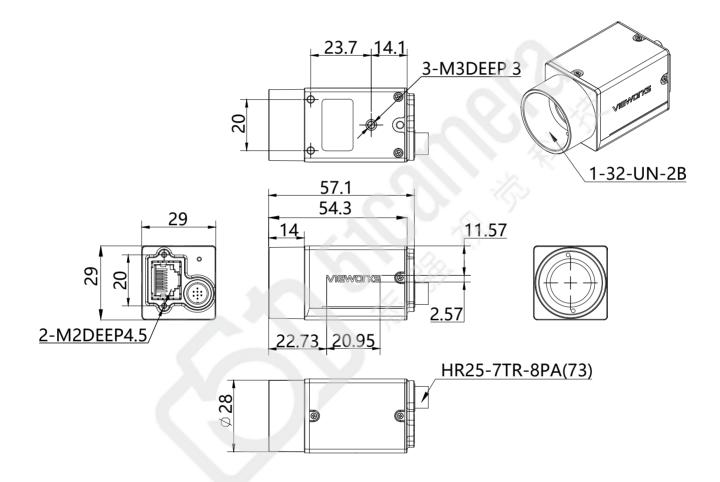
VZ-1600G-M/C 75H00, the new industrial GigE vision camera with improved built-in ISP algorithms provides multiple acquisition controls. Thanks to the extremely compact design (29mmx29mmx40.3mm), robust metal housings and locking screw connectors, the VZ-1600G-M/C 75H00 camara can secure the realiability of cameras deployed in harsh environments.

VZ-1600G-M/C 75H00 has opto-isolated I/Os, and the GPIOs give the camera maximum flexibility to adapt to specific needs. The VZ-1600G-M/C 75H00 camera is ideal for machine vision applications such as industrial inspection, medical, scientific research, education, security and so on.



Mechanical Dimensions

Unit: mm



VZ-1600G-M/C 75H00

Industrial Digital Camera with GigE Interface

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

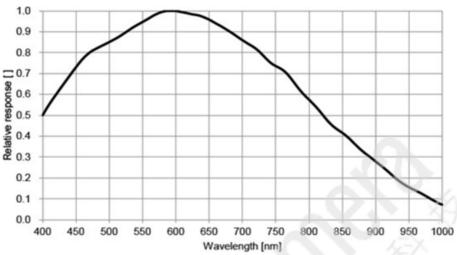
- Industrial Inspection
- Medical Research
- Scientific Research
- Education
- Security

Specifcations

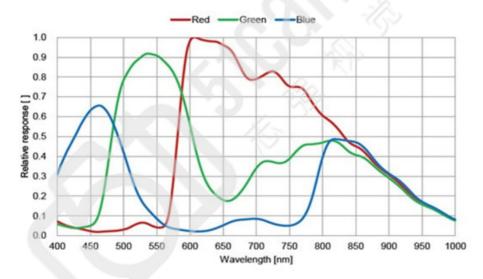
VZ-1600G-M/C 75H00	
1440 x 1080	
Sony IMX273 Global Shutter CMOS	
$3.45~\mu\mathrm{m}~ imes~3.45~\mu\mathrm{m}$	
Fast Ethernet (100 Mbit/s) or Gigabit Ethernet (1000 Mbit/s)	
75.6 fps @ 1440 × 1080	
(Adjust the packet size to 8192 and reserved bandwidth to 5)	
12 bit	
8 bit, 12 bit	
Ultrashort: 1μs to 100μs, Actual Steps: 1μs Standard: 20μs to 1s, Actual Steps: 1 row period	
OdB to 24dB, Default: OdB, Steps: 0.1dB	
Color	Mono
Bayer RG8, Bayer RG12	Mono8, Mono12
40.76dB	40.61dB
Hardware trigger and Software trigger	
1 input and 1 output with opto-isolated, 2 programmable GPIOs	
Operating: 0°C to 45°C, Storage: −20°C to 70°C	
10% to 80%	
12VDC-10% to 24VDC+10% supplied via the camera's Hirose connector	
Supports PoE (Power over Ethernet, IEEE802.3af compliant)	
< 3 W @ 24 VDC, < 3.75 W @ PoE	
С	
29mm x 29mm x 40.3mm, 85g	
Image size, Gain, Exposure time, Trigger polarity, Flash polarity	
CE, RoHS, FCC, GigE Vision, GenlCam, KC	
	Sony IMX273 Glo 3.45 μm > Fast Ethernet (100 Mbit/s) or 0 75.6 fps @ 1 (Adjust the packet size to 8192 12 8 bit, Ultrashort: 1μs to 100 Standard: 20μs to 1s, Ac OdB to 24dB, Defaul Color Bayer RG8, Bayer RG12 40.76dB Hardware trigger ar 1 input and 1 output with opto— Operating: 0°C to 45°C, 10% to 12VDC-10% to 24VDC+10% supplie Supports PoE (Power over Ethe < 3 W @ 24 VDC, 0 29mm x 2

Spectral Response

VZ-1600G-M75H00 (Mono)



• VZ-1600G-C75H00 (Color)



Ordering Scheme

VZ - 1600G - M/C 75H00 Series VZ Series Resolution and Interface Resolution - 1440 x 1080 G - Gigabit Ethernet Mono / Color M - Mono C - Color

Connector Specification



Power/Control

1: LineO+ Opto-isolated input+
2: Ground GND & GPIO GND
3: LineO- Opto-isolated input4: 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+

Connectors on camera body

Opto-isolated input+