VZ-12MG-M/C9H00

Industrial Digital Cameras with GigE Interface



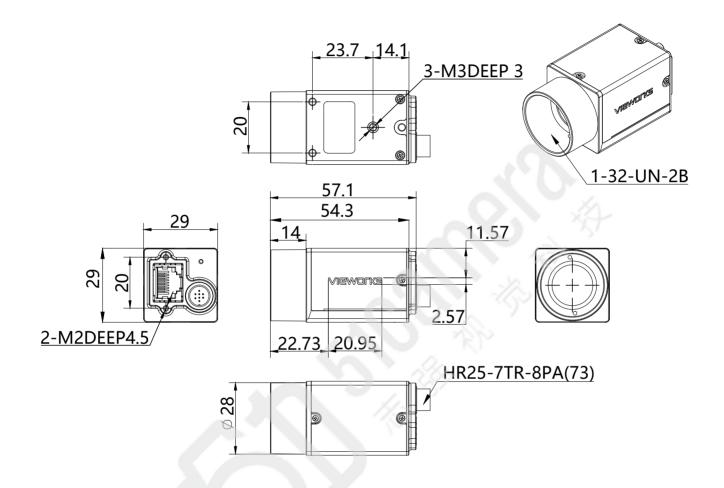


VZ-12MG-M/C9H00 is the high definition industrial digital camera, featuring outstanding performance, compact design and flexible installation. With the extremely compact design and locking screw connectors, the VZ-12MG-M/C9H00 camera can secure the reliability of cameras deployed in harsh environments. VZ-12MG-M/C9H00 is the monochrome/color GigE Vision camera with the Sony IMX226 CMOS sensor, and has opto-isolated I/Os that adapt to specific needs.

Featuring compact design, outstanding performance, and ease of installation and use, VZ-12MG-M/C9H00 is especially suitable for machine vision applications, including industrial inspection, medical, scientific research, education, and security.



Mechanical Dimensions



VZ-12MG-M/C9H00

Industrial Digital Camera with GigE Interface

Main Features

- Power over Ethernet (IEEE802.3af compliant)
- Programmable ROI, increased frame rate with partial scan
- Supports Timer, Counter, LUTs and storable user sets
- 4 acquisiton controls: single frame, continuous, software trigger, external trigger
- 16KB data storage area for saving algorithm coefficients and parameter configuration)
- Supports Remove Parameter Limit to expand the range of exposure, gain, white balance, etc.
- Supports Decimation, Binning, Digital Shift and Reverse X/Y(horizontal and vertical mirroring)

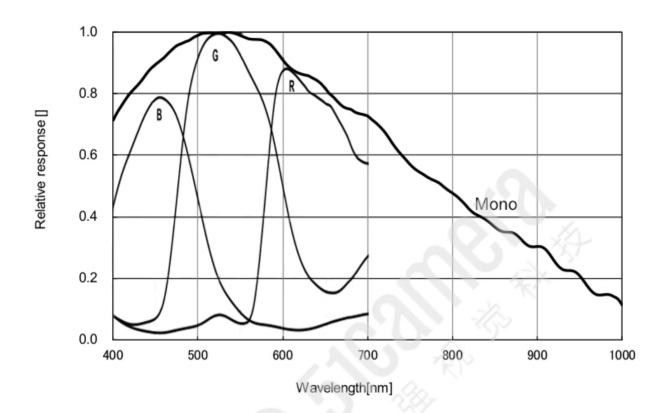
Applications

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

Specifcations

Model	VZ-12MG-M/C9H00		
Resolution (H x V)	4024 x 3036		
Sensor	Sony IMX226 rolling shutter CMOS		
Pixel Size	1.85 μm × 1.85 μm		
Data Interface	Fast Ethernet (100Mbit/s) or Gigabit Ethernet (1000Mbit/s)		
Frame Rate	9.63 fps @ 4024 x 3036		
	(Adjust the packet size to 8192, reserved bandwidth to 5, and frame rate to 9fps))		
ADC Bit Depth	12 bit		
Pixel Bit Depth	8 bit, 12 bit		
Exposure Time	Standard: 36µs to 1s GRR: 23µs to 1s Actual Steps: 1 row period		
Gain	OdB to 24dB, Default: OdB, Steps: 0.1dB		
Mono / Color	Color	Mono	
Pixel Formats	Bayer RG8, Bayer RG12	Mono8, Mono12	
Signal Noise Ratio	39.86dB	40.2dB	
Synchronization	Hardware trigger and Software trigger		
1/0	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	PoE (Power over Ethernet, IEEE802.3af compliant) or 12VDC-10% to 24VDC+10% supplied via the camera's 8-pin Hirose connector		
Power Consumption	< 3.75 W @ 24 VDC, < 3.75 W @ PoE		
Lens Mount	C		
Dimensions and Weight	29mm x 29mm x 40.3mm (without lens adapter or connectors), 85g		
Programmable Control	Image size, Gain, Exposure time, Trigger polarity, and Flash polarity		
Conformity	CE, RoHS, FCC, GigE Vision, and GenlCam		

Spectral Response



Ordering Scheme



Connector Specification

Power/Control



1: Li	ne0+	Opto-isolated input+
2: Gr	ound	GND & GPIO GND
3: Li	ne0-	Opto-isolated input-
4: P(OWER_IN	Camera external power
		(+12 VDC ~ +24 VDC)
5: Li	ne2	GPIO input/output
6: Li	ne3	GPIO input/output
7: Li	ne1-	Opto-isolated input-
Q·li	no1+	Onto-icolated input+

Connectors on camera body