VZ-2MU-M/C 41H00

Industrial Digital Cameras with USB3.0 Interface

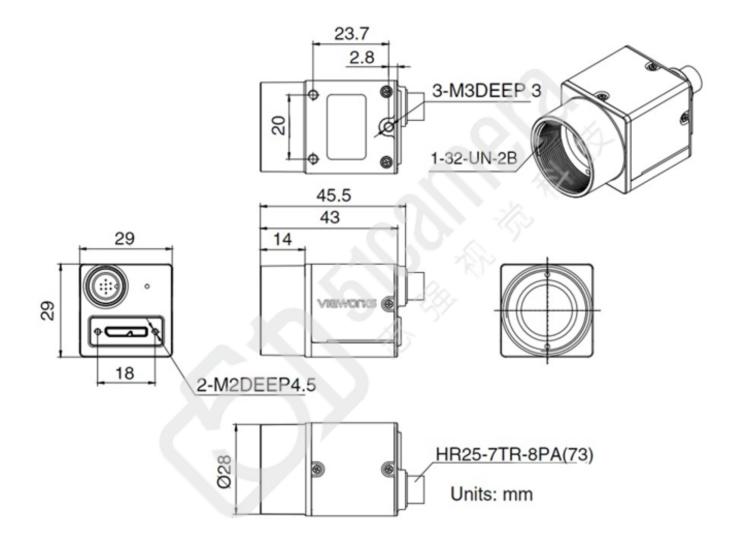


VZ-2MU-M/C 41H00 is a monochrome/color USB3.0 Vision camera with the Sony IMX249 CMOS sensor. Thanks to the extremely compact design (29mm x 29mm x 29mm), robust metal housings and locking screw connectors, the VZ-2MU-M/C 41H00 camara has an outstanding price and performance ratio. VZ-2MU-M/C 41H00 is ideal for machine vision applications such as industrial inspection, medical, scientific research, education, security and so on.



Mechanical Dimensions

Unit: mm



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Main Features

- Supports auto gain, auto exposure and auto white balance (auto whtie balance only for color models)
- Programable ROI, icreased frame rate with partial scan
- Three acquisition controls: Continuous acquisition / Software trigger acquisition / External trigger acquisition
- Multiple samples and easy-to-integrate SDKs for various programming tools
- Support Storable user sets and sotfware reset function
- Support Remove Parameter Limit to expand the range of exposure, gain, white balance, etc.
- Compatible with GenlCam™ and USB3 Vision®

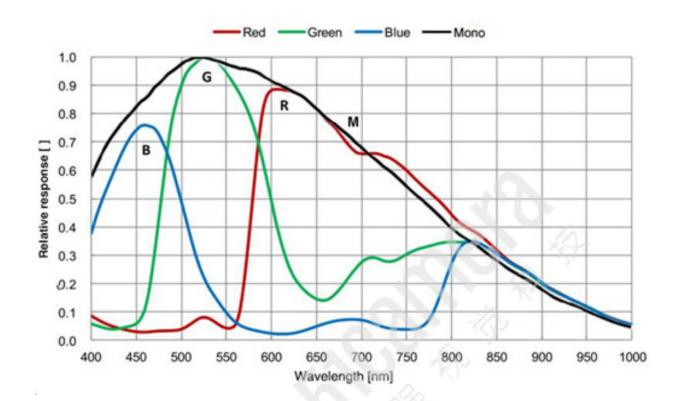
Applications

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

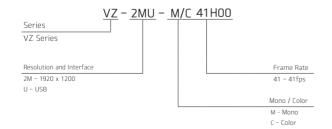
Specifcations

Model	VZ-2MU-M/C 41H00	
Resolution (H x V)	1920 x 1200	
Sensor	Sony IMX249 Global Shutter CMOS	
Pixel Size	5.86 μ m $ imes$ 5.86 μ m	
Data Interface	USB 3.0	
Frame Rate	41fps@1920 × 1200	
ADC Bit Depth	12 bit	
Pixel Bit Depth	8 bit, 10 bit, 12 bit	
Exposure Time	Standard: 20 µs to 1 s, Actual Steps: 1 row period	
Gain	OdB to 24dB, Default: OdB, Steps: 0.1dB	
Mono / Color	Color	Mono
Pixel Formats	Bayer RG8, Bayer RG10, Bayer RG12	Mono8, Mono10, Mono12
Signal Noise Ratio	45.33dB	45.33dB
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	5 VDC via USB cable	
Power Consumption	< 2.7W@5V	
Lens Mount	С	
Dimensions and Weight	29mm x 29mm x 29mm (without lens adapter or connectors), 65g	
Programmable Control	Image size, Gain, Exposure time, Trigger polarity, Flash polarity	
Conformity	CE, RoHS, FCC, USB3 Vision, GenlCam, KC	

Spectral Response



Ordering Scheme



Connector Specification

I/O Connector



1: Line0+	Opto-isolated input+
2: Ground	GPIO GND
3: Line0-	Opto-isolated input-
4: NC	NC
5: Line2	GPIO input/output
6: Line3	GPIO input/output
7: Line1-	Opto-isolated input-
8: Line1+	Opto-isolated input+

Connectors on camera body