

Industrial Camera Manufacturer

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MindVision

TECHNOLOGY

MV-UB1000

Products
manual



CHARACTERISTIC

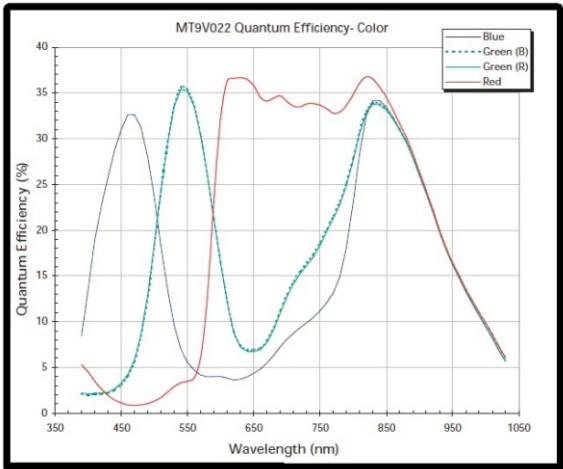
- USB2.0 interface, without external power supply, plug and play
- Support for 16bit grayscale and 48bit color lossless format output
- Support Windows, Linux and ARM Linux, android system
- Support external trigger, flash sync
- With hardware frame cache ,supports more than 32 cameras work in double harness
- The camera can write custom data

SHENZHEN MINDVISION TECHNOLOGY CO., LTD.

MV-UB1000

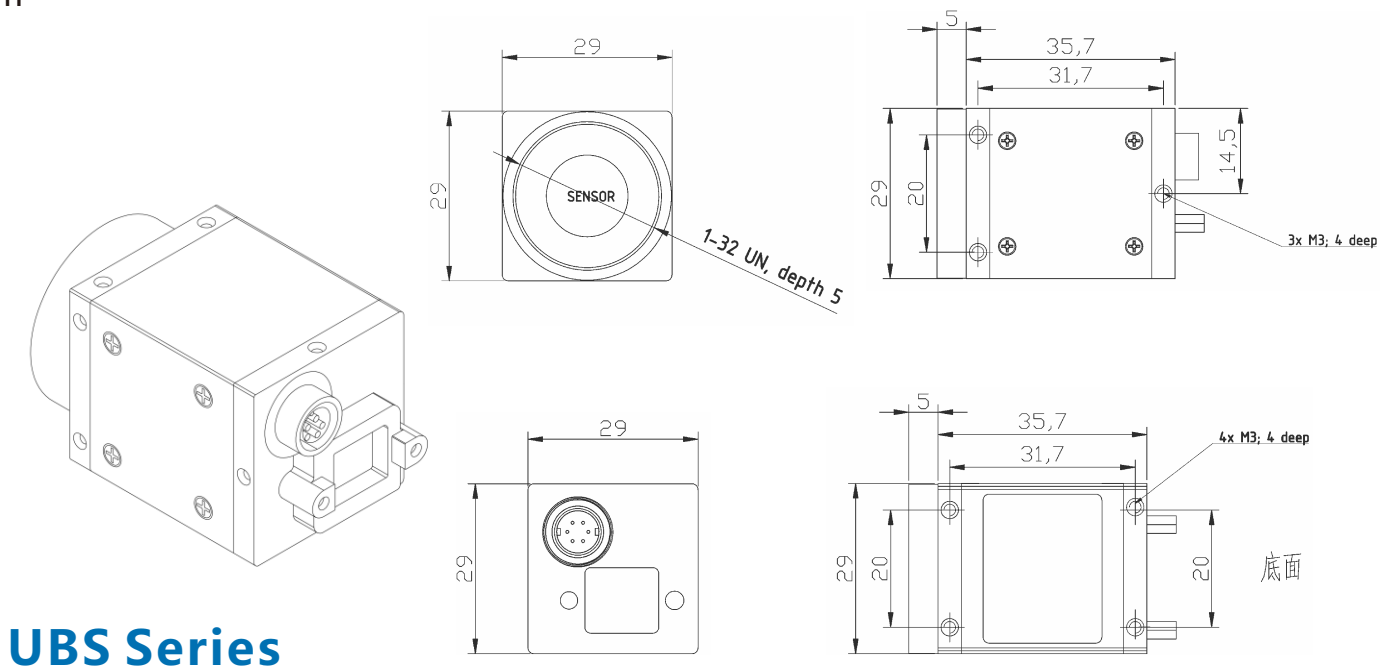
Model Specifications	MV-UB1000	MV-UBS1000
Sensor Type	1/2.3 Inch CMOS	
Shutter	Rolling Shutter	
Mono/Color	Color	
Pixel Size	1.67X1.67μm	
Resolution	10MP(3664×2748)	
Frame Rate	3664X2748@4FPS 2592X1944@ 8FPS 1920X1080@20FPS	
Pixel Bit Depth	12bit	
Sensitivity	0.31V/lux-s 550nm	
I / O port	4-pin Hirose connector, 1-channel optical hardware trigger input signal, one-way optical flash output signal; one-way optical general output signal	6-pin Hirose connector, 1-channel optical hardware trigger input signal, one-way optical flash output signal; one-way optical general output signal
Synchronization	external trigger/software/free-run	
Maximum Gain	15.88	
Exposure time(ms)	0.064~1407	
Filter	Standard 650nm Infrared Cut-off Filter	
Frame Buffer	32M Bytes	
Camera Custom Data	2K Bytes	
Video Output Format	Bayer8、Bayer12、Mono8、Mono12、Mono16、RGB24、RGB32、RGB48	
Lens Mount	CS-mount, to provide CS-mount to C-mount adapter ring	
Data Interface	USB2.0 TYPE B	
Power Requirements	5V , USB bus-powered	
Power Consumption	<2W	
Dimensions	38(mm)X38(mm)X46(mm)	29(mm)X29(mm)X36(mm)
weight	110g	59g
Working temperature	0~50℃	
Working humidity	20~80% (No Condensation)	
Storage temperature	-30~60℃	
Storage humidity	20~95% (No Condensation)	
Support system	WINXP, WIN7 / 8/10 32 & 64-bit systems, Linux and ARM Linux drivers and Android platform drivers (customizable)	
Drivers	DirectShow components Halcon special components Labview dedicated drive OCX components TWAIN components	
Programming language	C/C++/C#/VB6/VB.NET/Delphi/BCB/Python	
Programmable control	Image size (ROI), camera, exposure time, GAMMA, contrast, brightness, custom LUT, mirror flip, RGB color gain, saturation, sharpness, color to mono, color temperature correction, anti-color, Color, trigger mode, frame rate control	

SPECTRUM



MECHANICAL SPECIFICATION

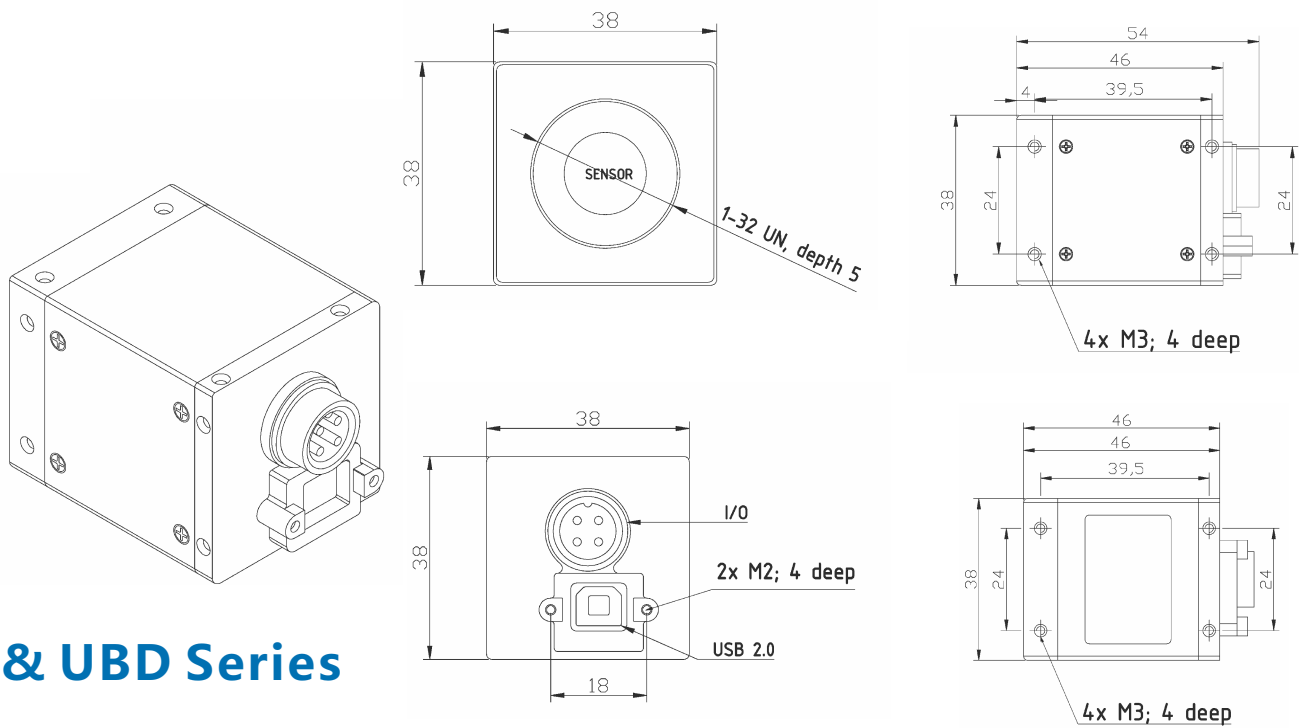
Unit: mm



UBS Series

MECHANICAL SPECIFICATION

Unit: mm



UB & UBD Series