

Industrial Camera Manufacturer

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MindVision

TECHNOLOGY

MV-U3B500C

*P*roducts
manual



CHARACTERISTIC

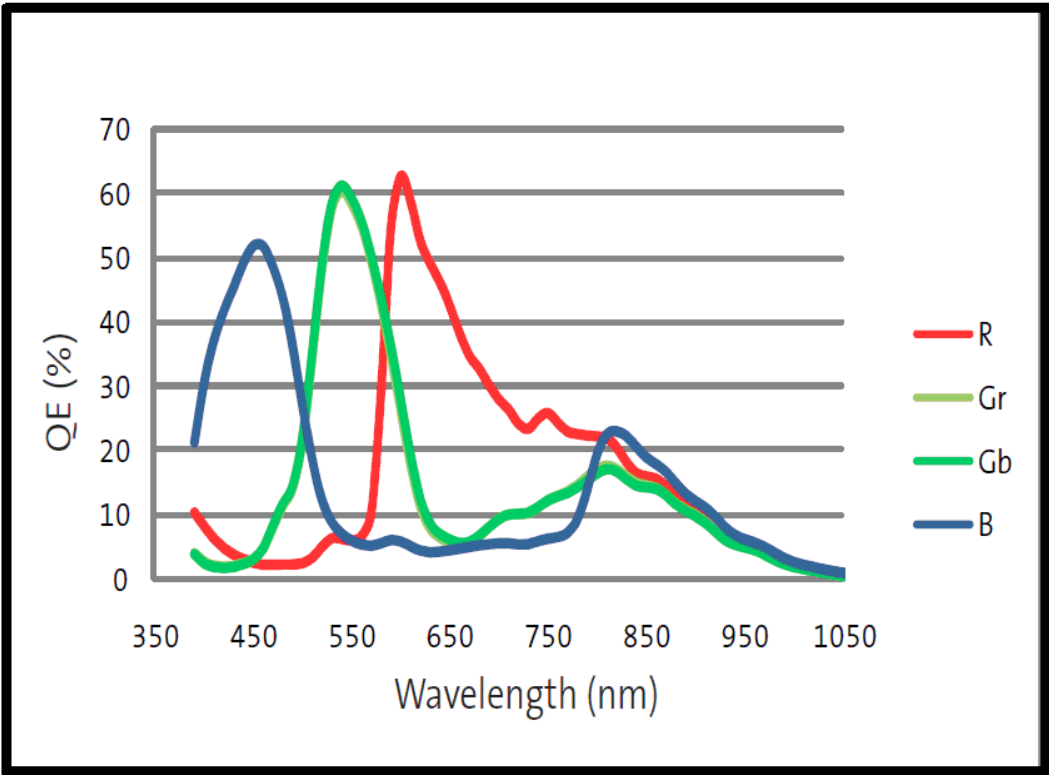
- Support external trigger sync taking pictures
- The camera comes with programmable IO
- Support PC Linux systems and ARM Linux systems can be integrated into embedded devices
- A computer to connect multiple cameras to stable work, long time not to drop lines, not to lose frames
- Support for 16bit grayscale and 48bit color lossless format output
- Compatibility VISION protocol, seamless compatible with Halcon, VisionPro, Labview and other visual software

SHENZHEN MINDVISION TECHNOLOGY CO., LTD.

MV-U3B500C

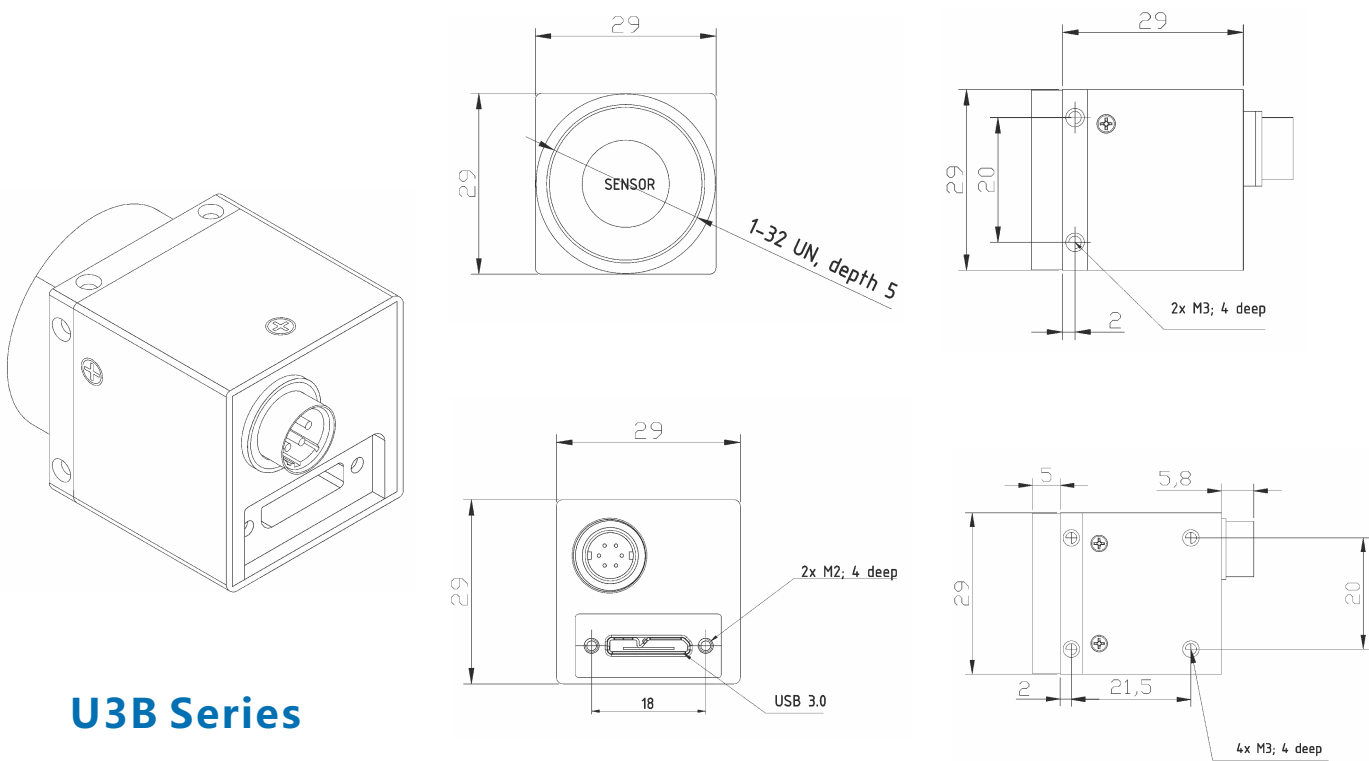
Model Specifications	MV-U3B500C
Sensor Type	1/2.5 Inch CMOS
Shutter	Rolling Shutter
Mono/Color	Color
Pixel Size	2.2X2.2μm
Resolution	5MP(2592×1944)
Frame Rate	2592X1944@ 15FPS 2048X1536@ 22FPS 1600X1200@ 34FPS 1280X960 BIN2@38FPS
Pixel Bit Depth	12bit
Sensitivity	1.76V/lux-s 550nm
I / O port	6-pin Hirose connector, 1-channel optical trigger input (multiplexed as input GPIO), one-way optical flash output (multiplexed as output GPIO); Can be added with 2 input 3 output (double 6pin Hirose connector)
Synchronization	external trigger/software/free-run
Maximum Gain	7.88
Exposure time(ms)	0.033~513
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
Video software interface	SUB support USB3 Vision agreement
Lens Mount	CS-mount, to provide CS-mount to C-mount adapter ring
Data Interface	USB 3.0 Micro-B interface
Power Requirements	USB bus-powered
Power Consumption	<2.5W
Dimensions	29(mm)X29(mm)X29(mm)
weight	< 75g
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



U3B Series