

USB3.0 8/12BIT 1.2MP MONO/COLOR CMOS CAMERA

(MODELS: SBN-B015-U, SBE-B015-U, SBN-C015-U, SBE-C015-U)

Mightex USB 3.0 cameras are optimized for machine-vision applications, and they can also be used for a wide variety of other applications such as digital microscopy and medical imaging, where quality, ease of use, and cost-effectiveness are crucial. These cameras have external trigger-in, strobe-out, and a powerful camera engine that supports multiple cameras. Frame rate can be as high as 250 fps in full resolution and up to 600+fps using ROI mode. In addition, a user-friendly GUI based application software and an SDK are provided for custom software development.

FEATURES

- Support simultaneous image capturing from multiple cameras
- 4-pin GPIOs
- 1408x1088 active imaging pixels
- 128 on-camera buffers
- Super-speed USB3.0+
- Digital output, no need for frame grabber
- Custom programmable with SDK provided
- DirectShow driver
- External and software trigger
- Strobe output for external flash
- ROI & pixel skipping/binning
- No need for external power supply
- OEM versions available

APPLICATIONS

- Machine vision
- Digital microscopy
- Medical imaging
- Semiconductor equipment
- Test instruments
- High-quality ID photo capture
- Document scanners
- 2D barcode readers
- Web camera and security video





PERFORMANCE SPECIFICATIONS

Parameters	SBN-C015-U SBN-B015-U	SBE-C015-U SBE-B015-U	Unit
Board level/enclosed	Board-level	Enclosed	
Number of GPIOs	4	4	
Resolution	1408x1088		
CMOS	Sony IMX273, Global shutter		
Pixel Size	3.45 x 3.45		μm
Scanning System	Progressive		
Dynamic Range	~60		dB
Gray Level	8/12		bit
Maximum Frame Rates* (@96MHz Clock)	250/150 @1408x1088 450/270 @1408x544 496/270 @704x544		fps
Sub Resolutions	Support arbitrary ROI (Nx x Ny), with Nx is always 1408, Ny multiples of 32		
Shutter Speed (Exposure Time)	0.05~750		ms
Hardware Gains	0 – 48		dB
Trigger Mode	With external trigger (Trigger delay < 30μs)		
Strobe Out	Yes		
Lens Mount	C- mount or CS-mount (M12.5-mount or custom-defined lens mount supported)		
Built-In Filters	IR-cut (standard) or custom		
Power consumption	<3.0(USB3.0), < 2.5(USB2.0)		W
Dimension	51 x 51 x 29 (CS-mount) 51 x 51 x 34 (C-mount)	58 x 58 x 34 (CS-mount) 58 x 58 x 39 (C-mount)	mm
Weight (excluding lens)	80	150	g

*The actual achievable frame rate depends on exposure time and working mode, as well as resources available from the PC system.



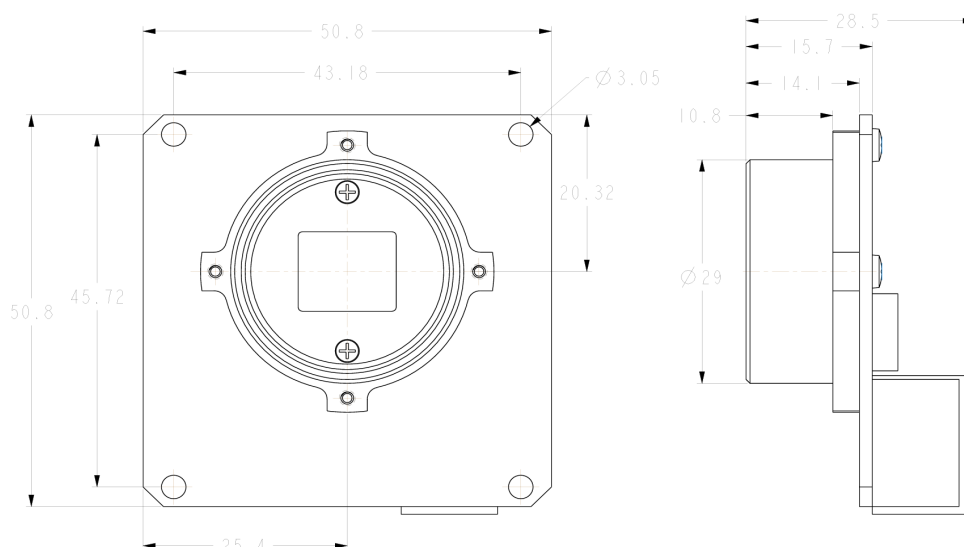
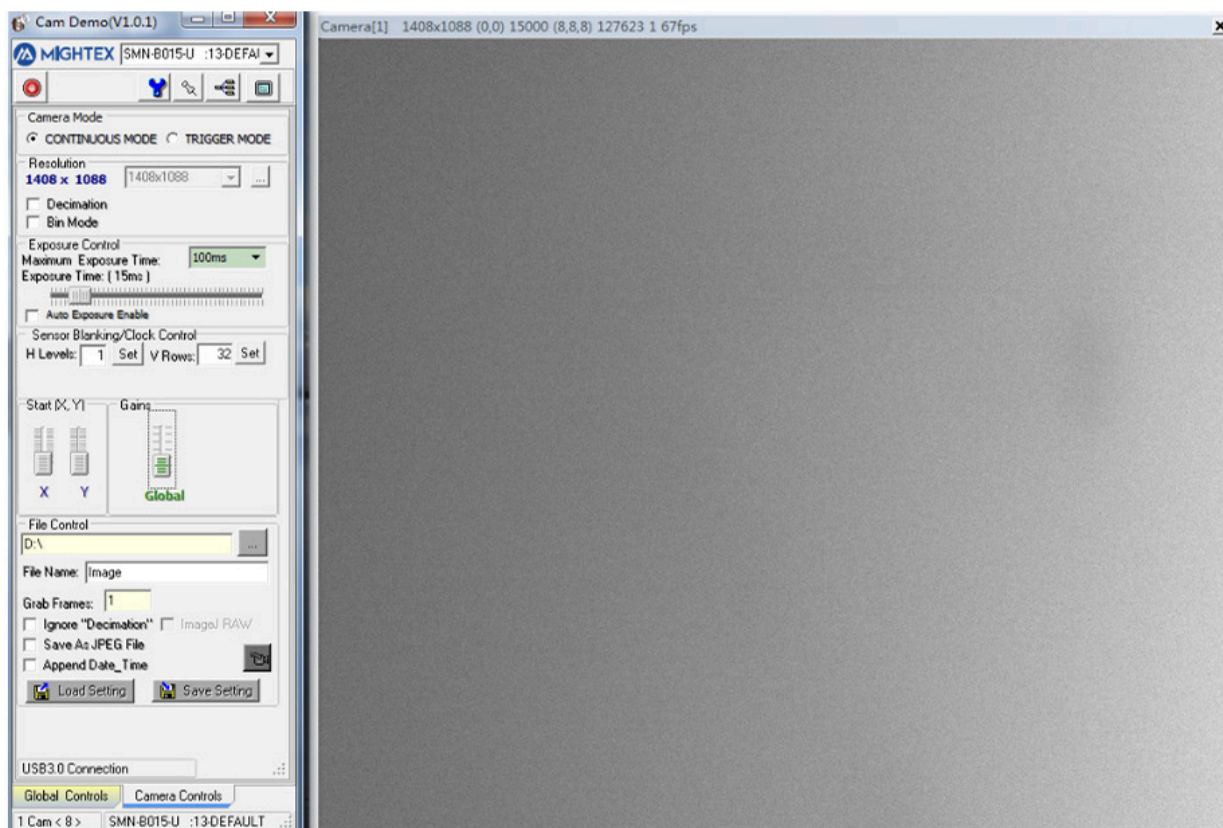


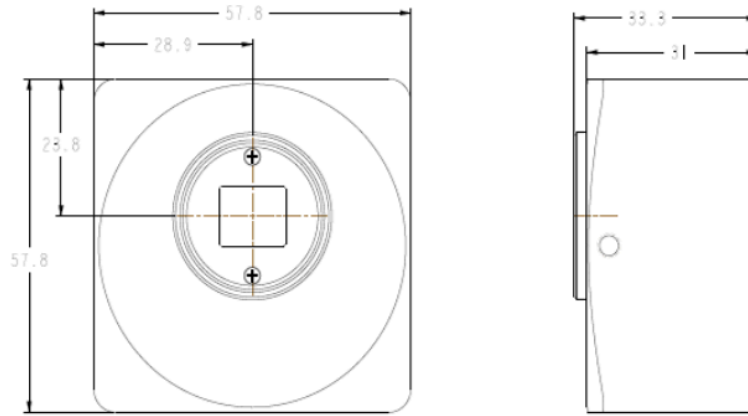
OPERATION CONDITION

Operating Temperature Range:	0°C ~ 45°C
Storage Temperature Range:	-25°C ~ 85°C
Relative Humidity, Non-condensing:	5% ~ 95%

Processor:	Dual-core Intel CPU 1.8GHz or better, or a compatible processor
Operating System:	Windows XP, Vista, 7 , 8, 10 and 11
RAM:	4G or greater
Hard Disk Space:	100M for software installation, plus additional space for storing captured images
USB3.0 Host Controller:	Intel Integrated USB3.0+ Host Controller is recommended.







Enclosed Camera, with CS-mount



CS MOUNT NON ENCLOSED CAMERA



CS TO C ADAPTER



C MOUNT NON ENCLOSED CAMERA



CS MOUNT ENCLOSED CAMERA



CS TO C ADAPTER



C MOUNT ENCLOSED CAMERA

A C-mount camera is composed of a CS-mount camera and a CS-to-C-mount adapter. The latter is essentially a 5mm-thick threaded ring.



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