

VIDEOLOGY®

IMAGING SOLUTIONS INC.
Original Equipment Manufacturer

High Definition 1.3 Megapixel B&W Single Board Camera with USB Video Output

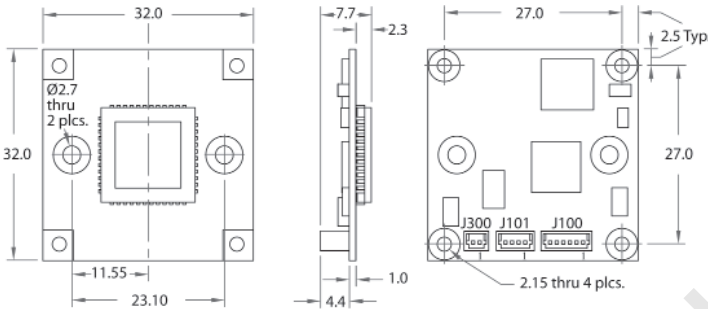
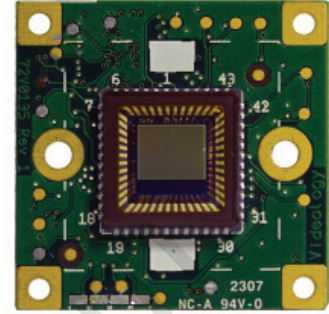
24B1.3XUSB-C

Product Features

- Progressive scan, 1.3 megapixel CMOS sensor (square pixels)
- Sensor is optically centered within lens mount holes
- Streaming video or single frame capture via hardware/software
- Triggerable instantaneous snap shots (model 24B1.3XUSB-V)
- 24fps at full 1280 x 1024 resolution uncompressed video
- Simplified cabling - video, power & full camera control over a single USB cable
- Extended integration time (>0.5 sec.)
- Complete SDK available

Software

- USB 2.0 viewer software and Microsoft Digitally Certified
- WDM Device Drivers for 32bit and 64bit Windows operating systems
- DirectX/DirectShow compliant
- TWAIN compliant
- Select Linux drivers available**



J100 (USB)	J101 (Optional)	J300
1 +5V	1 +3.3V	1 Trigger
2 D -	2 H Sync	2 GND
3 D +	3 V Sync	
4 GND	4 GND	
5 GND		
6 GND		

Mechanical

Dimensions W x H x D	32mm x 32mm x 7.7mm (1.26" x 1.26" x 0.3") M-12 mount depth is 20.1mm (0.79") CS mount depth is 16.8mm (0.66") (not including outer lens thread)
Weight	<100g (3.5oz)
Lens Mounts	Replace "X" in model number with desired lens mount option. Example: 24B1.3XUSB-C to 24B1.35USB-C to select a M-12 board mount
Lenses (Recommended)	32SJ0818LD 8mm f1.8 30SJ0818LD 8mm f1.8
Connectors	USB board connector (6 pin power and data)

Technical Specifications

Electrical	24B1.3XUSB-C
Image Sensor	1/2" CMOS 6.8mm x 5.4mm array
Active Pixels (HxV)	1280 x 1024, 5.2um square pixels
Frame Rate	24 fps at 1280 x 1024 un-compressed 30fps at 640 x 480 un-compressed
Sensitivity	<1.0 Lux
Signal To Noise Ratio	> 45dB
Gain Control	Manual gain selectable via software
Synchronization	Internal (X-tal controlled)
Shutter Mode	Electronic rolling shutter
Shutter Speed	Selectable via software (1/2 - 1/5000 sec.)
Scan Mode	Progressive scan
Control Communication	Camera control via USB bus
Mirror Mode	Selectable via software
Dynamic Range	68 db
Video Output	USB 2.0 (not USB 1.1 compliant)
Power Supply	5VDC via USB bus
Power Consumption	<110mA, <0.6W
Still Capture	Via hardware or software Streaming or single frame

Environmental

Operating Temperature	-15°C ~ 55°C (5° F ~ 131° F)
Storage Temperature	-25° C ~ 70° C (-13° F ~ 158° F)
Operating Humidity	20 to 93%RH, non-condensing
Storage Humidity	Max. 98% RH
Packaging	ESD safe package

Software

Viewer (included) SFT-07019	<ul style="list-style-type: none"> WDM device drivers DirectX/DirectShow compliant TWAIN compliant (requires driver installation)
SDK (optional) SFT-07019-SDK	Complete software development kit and support for OEMs

Recommended System Requirements

Hardware	Software
Pentium IV	Windows 7
2.3GHz +, 1GB hard drive, Intel USB 2.0 Host controller	Windows Vista
	Windows XP
	32 bit and 64 bit
	Service pack 2 +, DirectX 9.0c or above

Accessories

Optional USB 2.0 Cable	Part Number	Length
	60C1062	8 ft. (2.4384m)
	60C1062-1	40 in. (1.016m)
	60C1062-2	12 in. (304.8mm)
	60C1062-3	6 in. (152.4mm)
	60C1062-4	15 ft. (4.572m)

Complementary Models

24B1.3XUSB-L	48mm x 32mm board with USB mini B connector (minimum quantity required)
24B1.3XUSB-V	32mm x 32mm board with vertical pulse out

Standards

	RoHS
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02/20/14 PDS-24B1.3XUSB-C Rev K

All data subject to change without notice.

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