



Videology®

Industrial-Grade Cameras

an inTEST Company

High Definition 1.3 Megapixel B&W Single Board Camera with USB Video Output 24B1.3XUSB-C

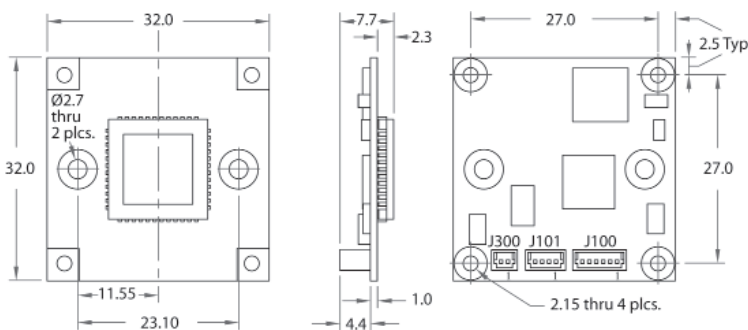
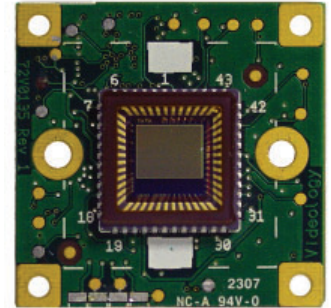
Product Features

- 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)
- 15fps 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**



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	15fps uncompressed @ 1280 x 1024, 1024x768, 800x600, 640x480, 320x240
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

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)

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	Pentium IV	2.3GHz +, 1GB hard drive, Intel USB 2.0 Host controller
Software	Windows 7, 8, 10	32 bit and 64 bit
	Windows Vista	32 bit and 64 bit
	Windows XP	Service pack 2 +, DirectX 9.0c or above

Accessories

Optional USB 2.0 Cable	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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www.videologyinc.com

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Every day. Every time.