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STC-TB33USB-ASH

USB 2.0 Cased B/W Cameras (Hard Trigger)

The STC-TB33USB-ASH is a compact, progressive scan, VGA, USB cased camera with a 1/3" monochrome CCD, featuring 60fps (VGA), software and hardware triggering, image capture, digital zoom and a feature-rich user based menu set up and control. This series is available in a board or cased version, with a top or rear USB connector. Sentech USB cameras include a SDK, Direct X, Twain and Linux drivers, as well as the Sentech Viewing Software.

Specifications

Model	STC-TB33USB-ASH
Image Sensor	1/3" Interline CCD (ICX424AL)
Signal Format	Monochrome Progressive
Operating Systems	Windows 2000, XP, Vista (32 bit) & Linux
Drivers	Viewing Software (Simple & Advanced Menus), DirectX, Twain, Linux, NI LabVIEW™
Software Development Kit	Standard SDK & Trigger SDK (for Software and Hardware Triggers) - Full Documentation
Maximum Frame Rate	
- Full Scan	60 fps
- 1/2 Partial Scan	120 fps
- 1/4 Partial Scan	240 fps
Total Picture Element	692 (H) x 504 (V)
Effective Picture Element	659 (H) x 494 (V)
Active Picture Element	
- Full	640 (H) x 480 (V)
- 1/2 Partial	640 (H) x 224 (V)
- 1/4 Partial	640 (H) x 80 (V)
Chip Size (mm)	5.79 (H) x 4.89 (V)
Cell Size (um)	7.40 (H) x 7.40 (V)
Pixel Clock Frequency	24.5454 MHz
Trigger Method	Hardware and Software Trigger (Pulse Width and Edge Preset)
Scanning Method	Full Progressive, Partial Scanning (1/1, 1/2, 1/4), Binning
Sync System	Internal Sync
Scanning System	Progressive
Shutter Speed	Auto / Fixed (Software Selectable, Values Set via Software)
Minimum Illumination	0.07 Lux @ F1.2, 20 IRE; 0.08 Lux @ F1.2, 50 IRE
Ext. Low Light Capability	Extended Low Light Capability via Software Trigger
Gain	Analog & Digital Gains (Able to be set independently)
Gamma	Fixed Values (Set via Software)
Lens Mount	CS Mount / Fixed Lens
White Balance	Auto / Manual / One-shot
Video Output	USB 2.0 High Speed
Shock	70G (3 Directions, 3 Times Each)
Vibration	10G (20 to 200Hz)
Power	1.75W, < 350mA

CONFIGURATIONS



STC-TB33USB-ASH
C-Mount



STC-TB33USB-ASH
CS-Mount



STC-TB33USB-ASH
Rear View

Input Voltage	+5V through USB port
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-30°C ~ 65°C (-22°F ~ 149°F)
Dimensions	50 (W) x 50 (H) x 40.8 (D) mm (1.96" x 1.96" x 1.60")
Weight	Approximately 145g (5.11oz.)

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