

USB 2.0 (Ultra-Small) Cameras

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STC-MC133USB

SXVGA, Color Camera

The STC-MC133USB is an ultra-compact, progressive scan, SXGA, USB camera with a 1/3" color CCD. It features 22 fps, hardware and software triggering image capture, digital zoom and a feature-rich user based menu setup and control. The STC-MC133USB is a cased model available with a rear mini-USB connector. Sentech USB cameras include a SDK, DirectX, Twain and Linux driver, as well as the Sentech Viewing Software.

- 1/3" CCD Image Sensor, SXGA (1.25 MP)
- Ultra-Compact Size
- Hardware & Software Trigger


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Specifications	USB 2.0 Series	Accessories	Mechanical Drawings	Documents and Software
Name	Specifications			
Model No	STC-MC133USB			
Image Sensor	1/3" Interline SXVGA color progressive CCD: ICX445AQ (Sony)			
Total Picture Element	1348 (H) x 976 (V)			
Effective Picture Element	1296 (H) x 966 (V)			
Chip Size	6.26 (H) x 5.01 (V) mm			
Cell Size	3.75 (H) x 3.75 (V) μ m			
Scanning System	Progressive			
Resolution	1280 (H) x 960 (V) (Full scanning) 1280 (H) x 440 (V) (1/2 partial scanning) 1280 (H) x 168 (V) (1/4 partial scanning)			
Scanning Methods	Full scanning, 1/1 partial scanning, 1/2 partial scanning, 1/4 partial scanning, Variable partial scanning			
Maximum Frame Rate				
- Full Scanning	22.40 fps (Normal) / 11.20 fps (1/2 clock) / 5.60 fps (1/4 clock)			
- 1/2 Partial Scanning	44.81 fps (Normal) / 22.40 fps (1/2 clock) / 11.20 fps (1/4 clock)			
- 1/4 Partial Scanning	89.80 fps (Normal) / 44.90 fps (1/2 clock) / 22.45 fps (1/4 clock)			
Pixel Frequency	36.818 MHz (Normal) / 18.409 MHz (1/2 clock) / 9.20453 MHz (1/4 clock)			
Video Output	8bit / 10bit / 12bit			
Minimum Scene Illumination	11 Lux at F1.2			
Sync System	Internal			
Electronic Shutter	Auto / Manual (software selectable)			
- Normal	1/36,818,182 to 1/22.40 seconds			
- 1/2 Clock	1/18,409,091 to 1/11.20 seconds			
- 1/4 Clock	1/9,204,545 to 1/5.60 seconds			

Gain	Auto / Manual (software selectable)
Gamma	Manual (software selectable)
White Balance	Auto / Manual / One shot (software selectable)
Trigger Mode	Free-run / Edge preset trigger / Pulse width trigger / Start & stop trigger (software selectable)
Input / Output	USB 2.0 High Speed
Power	-
- Input Voltage	+5 Vdc through USB connector (+4.4 to +5.25V)
- Consumption	< 300 mA
Dimensions	28 (W) x 28 (H) x 37 (D) mm (excluding connector)
Lens Mount	CS mount
Weight	Approximately 45g
Interface Connector	USB: mini-B USB connector IO signal: 6pin connector (HR10A-7R-6PB or equivalent)
Temperature	-
- Operational	0 ~ 40 deg. C
- Storage	-30 ~ 65 deg. C
Vibration	20 Hz to 200 Hz to 20 Hz (5 min. /cycle), acceleration 10G, 3 directions 30 min. each
Shock	Acceleration 70G, half amplitude 6 ms, 3 directions 3 times each
Standard Compliancy	EMS: En61000-6-2, EMI: EN61000-6-3 (Class B)
RoHS	RoHS Compliant

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