

Software Trigger USB2.0

UV Sensitivity SXGA CCD Camera

STC-UV152USB-AT/AS

Product Specifications

Sensor Technology Co., Ltd

Caution for the PC with the Intel Core i3, i5 or i7

When use the USB camera with some PC, which has the Intel Core i3, i5 or i7, may occur following issue:

CANNOT get any image from the USB camera.

Frame drops frequently

(This issue may occurred for the other manufacture USB camera too)

Cause of this issue:

The image data cannot transfer to the PC because the Intel Core i3, i5 or i7 CPU switch to the power save mode frequently while the image is transferring.

Solution for this issue:

1. Disable the power save mode with the Sentech PC power management software.

The power save mode can disable with the Sentech PC power management software "StPowerCtrl".

Please contact to the Sales representative about this software.

The power consumption and the heat of the PC are increased when disable the power save mode. Please understand and accept this before disable the power save mode.

2. Disable the power save mode with change the BIOS settings.

Please change BIOS setting with your responsibility.

The power consumption and the heat of the PC are increased when disable the power save mode. Please understand and accept this before disable the power save mode.

3. Change the camera clock from "Normal" to "1/2" or "1/4". (Reduce the frame rate)

Revisions

Rev	Date	Changes	Note
1.00	2011/11/21	New document	

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Specifications

Electronic specifications / Mechanical specifications / Environmental specifications

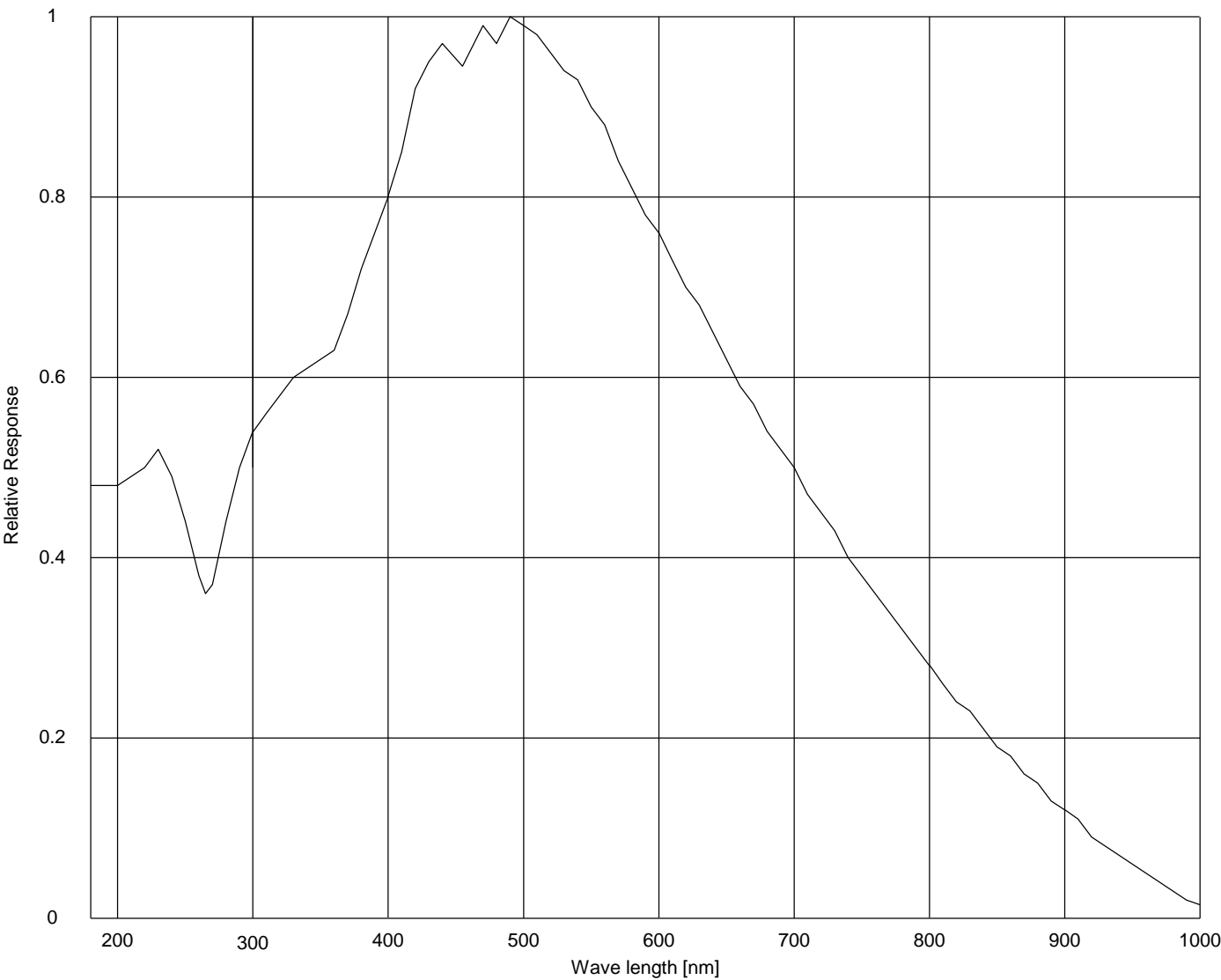
Product		STC-UV152USB-AT	STC-UV152USB-AS
Electronic Specifications	Imager	1/2" interline SXGA progressive CCD: ICX407BLA	
	Total picture elements	1434 (H) x 1050 (V)	
	Effective picture elements	1392 (H) x 1040 (V)	
	Chip size	7.60 (H) x 6.20(V) mm	
	Cell size	4.65 (H) x 4.65 (V) μ m	
	Scanning system	Progressive	
	Scanning methods	Full scanning, 1/1 partial scanning, 1/2 partial scanning, 1/4 partial scanning, Variable partial scanning, Binning, Binning 1/1 partial scanning, Binning 1/2 partial scanning, Binning 1/4 partial scanning, Binning variable partial scanning	
	Pixel frequency	36.8181 MHz (Normal) / 18.4090 MHz (1/2 clock) / 9.20453 MHz (1/4 clock)	
	Maximum framer rate	Full scanning	19.26 fps (Normal) / 9.63 fps (1/2 clock) / 4.815 fps (1/4 clock)
		1/2 partial	38.52 fps (Normal) / 19.26 fps (1/2 clock) / 9.63 fps (1/4 clock)
		1/4 partial	77.04 fps (Normal) / 38.52 fps (1/2 clock) / 19.26 fps (1/4 clock)
	Resolution	1360 (H) x 1024 (V) (Full scanning) 1360 (H) x 472 (V) (1/2 partial scanning) 1360 (H) x 176 (V) (1/4 partial scanning)	
	Sync. System	Internal	
	Electronic shutter	Auto / Manual (software selectable)	
		Normal	1/36,818,18 to 1/19.26 seconds
		1/2 clock	1/18,409,091 to 1/9.63 seconds
		1/4 clock	1/9,204,545 to 1/4.81 seconds
	Gain	Auto / Manual (software selectable)	
	Gamma	Manual (software selectable)	
	Trigger mode	Free-run / Edge preset trigger / Pulse width trigger / Start & stop trigger (software selectable)	
	Input/output	USB2.0 High speed	
	Power	Input voltage	+5 V through USB connector / DC Jack
		Consumption	Less than 450 mA
Mechanical Specifications	Dimensions	51 (W) x 51 (H) x 46.1 (D) mm	51 (W) x 51 (H) x 48.8 (D) mm
	Lens mount	C mount	
	Tripod	2 screws on the bottom plate	
	Weight	Approximately 145 g	
Environmental Specifications	Operational temperature	0 to 40 deg. C	
	Storage temperature	-30 to 65 deg. C	
	Vibration	20Hz to 200Hz to 20Hz (5min./cycle), accceleration 10G, 3 directions 30 min. each	
	Shock	Acceleration 70G, half amplitude 6ms, 3 directions 3 times each	
	Standard compliancy	EMS: EN61000-6-2, EMI: EN61000-6-3 (Class B)	
	RoHS	RoHS compliance	

Please use the hardware trigger type USB camera (STC-UV152USB-AH) when the input / output signals including the trigger signal and the strobe signal are required in the system.

(Caution)

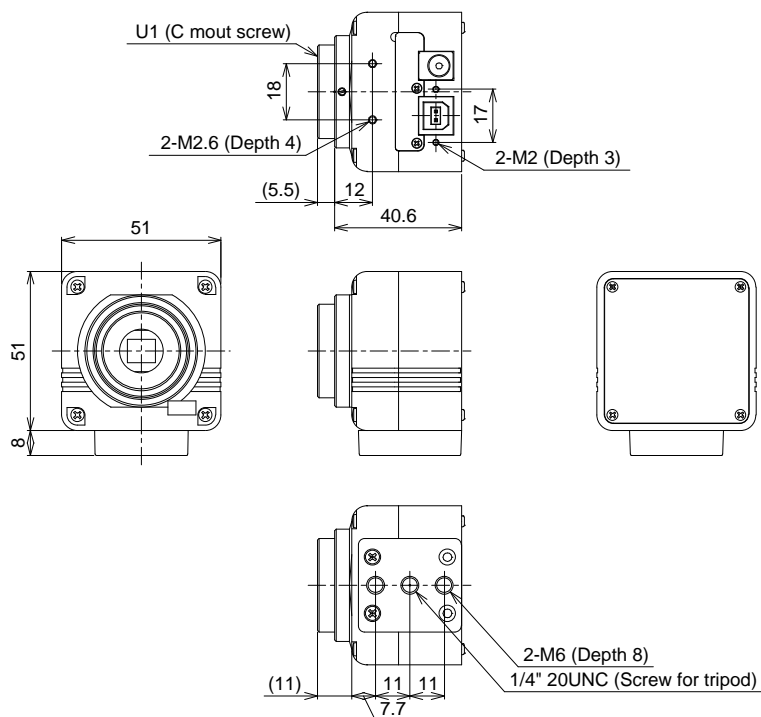
Please DO NOT connects or disconnect any USB devices including USB memory while use this USB camera. Its possibility to the USB camera DOES NOT recognize after connect or disconnect USB devices.

Spectral Sensitivity Characteristics



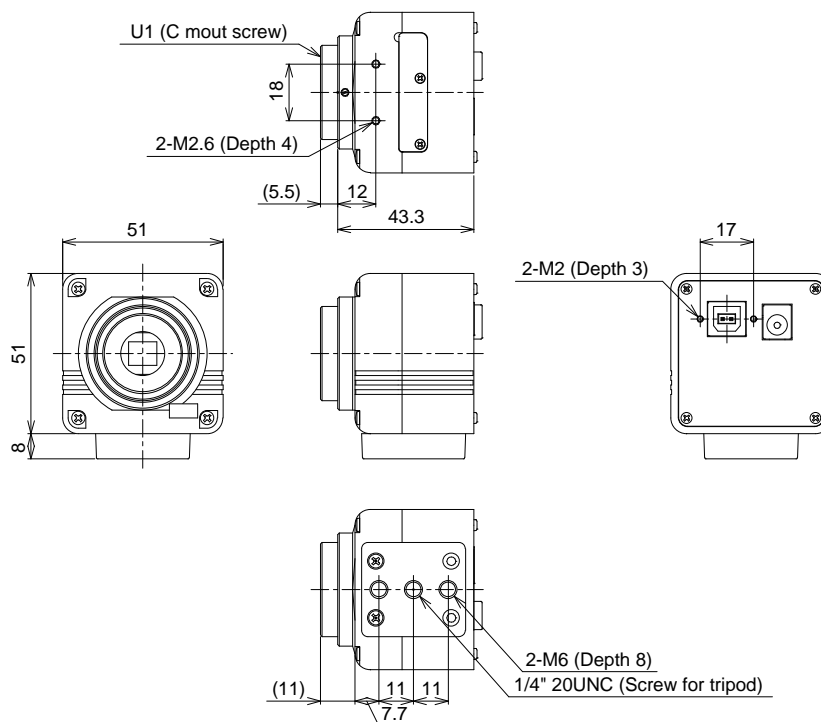
Dimensions

Dimensions (STC-UV152USB-AT: Right-angle / case type)



Unit: mm

Dimensions (STC-UV152USB-AS: Straight / case type)



Unit: mm

7F, Harada center building
9-17, Naka cho 4 chome
Atsugi-city, Kanagawa
243-0018 Japan

Sensor Technology Co., Ltd

TEL +81-46-295-7061 FAX +81-46-295-7066
URL <http://www.sentech.co.jp/>