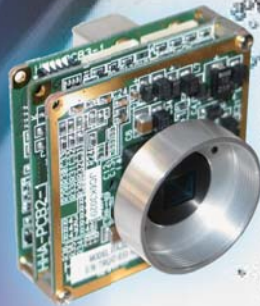


SENTECH

Sensor Technologies
America, Inc.

Industrial
Camera
Catalog

Sensor Technologies America, Inc.



OEM

Analog

Digital



**Building OEM
Cameras for the Future**

www.SentechAmerica.com

Sentech America
1345 Valwood Parkway
Suite 320
Carrollton, TX 75006
USA

Toll Free:
(877) 736-8324
Telephone:
(972) 481-9223
Fax:
(972) 481-9209



“We strive diligently to be the best industrial camera supplier in the market. We do this by always trying to provide our customers with the best customer service, technical support, administrative support, product quality, all combined with aggressive pricing.”

Tom Campbell

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NOTE: All Specifications, descriptions, information, etc. contained herein are subject to change without prior notice. While we strive to make sure the information in this catalog is as accurate as possible, Sensor Technologies America, Inc. cannot be held responsible for any printing, typing or copy errors.

2009 Economy

During this difficult economy, it may be time to reevaluate your current camera supplier:

Sentech can most likely

- *SAVE YOU MONEY ON THE COST OF YOUR CAMERAS*
- *PROVIDE YOU BETTER CAMERAS*
- *PROVIDE BETTER ENGINEERING SUPPORT*
- *PROVIDE BETTER CUSTOMER SUPPORT*
- *SURPASS YOUR CURRENT CAMERA MANUFACTURER*

If your company uses any of the following types of cameras you should contact Sentech:

- *GIG E CAMERAS (UP TO 5 MEGAPIXELS)*
- *USB 2.0 CAMERAS (UP TO 2 MEGAPIXELS)*
- *CAMERALINK® CAMERAS (UP TO 5 MEGAPIXELS)*
- *AUTO FOCUS BLOCK CAMERAS*
- *LOW LIGHT NEAR IR CAMERAS*
- *HIGH SPEED ANALOG CUBE CAMERAS FOR MACHINE VISION (UP TO 2 MEGAPIXELS)*
- *HIGH SPEED REMOTE HEAD CAMERAS FOR MACHINE VISION*
- *RUGGED SMALL HIGH PERFORMANCE ANALOG CAMERAS*

Sentech can give you better products, better service and save you money:

SENTECH

1345 Valwood Parkway, Suite 320
Carrollton, TX 75006

Tele: +(972) 481-9223; Toll Free in USA: (877) 736-8324

Introduction to Sentech



- Our customers always come first. Everything we do is centered on the concept of how to best support our customers.
- 2008 was Sentech America's 10th consecutive year of strong growth. We believe this reflects customer satisfaction with our products, quality, pricing and support.
- Sensor Technology Co., Ltd., our parent company in Japan, was established in 1987.
- Sensor Technologies America, Inc. (DBA Sentech America) was established in 1999, in Dallas, Texas.
- Sentech designed, manufactured and sold over 85,000 cameras in 2008.
- In 2008, we sold cameras in 41 countries around the world.
- We have offices in the United States, Japan and Taiwan, China and distributors in the USA, Germany, England, Israel, Italy, Singapore, Hong Kong and Australia.

Customer Appreciation

Dear Sentech Customers:

Please let us take this opportunity to express our sincere appreciation for your camera business in 2008. Thank you very much.

In 2008 Sentech America enjoyed its tenth consecutive year of significant growth. Without the patronage of you, our customers, we could have never done this. Your use of our cameras in your pursuit of your company's success and your satisfaction with those products, our service and our pricing is very important to us at Sentech. Thank you very much for your business, we truly appreciate it. We pledge to continue making every effort to be the best supplier your company has ever had.

We appreciate the privilege of having served your company to date and we hope to continue serving your video needs in the future.

Thank you from all of us at,

Sentech America

The Sentech America Team

Kim Mizuno
Thomas Campbell
Robert Bush
Chance Holder
Adam Westcott
Brian West
Chris Manchack
Miyuki Campbell
Cyndi Logan
Chie Yoshida
Michelle Campbell
Mick Akiyama
Ric Delucio
Zachary Crossland

Catalog Highlights

USB 2.0 Cameras feature:

- VGA, XGA, SXGA and UXGA CCDs.
- High Frame Rates
- Feature Rich Viewing Software, industry driver support and two SDK's
- Software and Hardware based trigger functionality
- Sentech's USB Cameras are shown on pages 22-43

CameraLink® Micro Cube Cameras feature:

- VGA, XGA, SXGA, UXGA and QSXGA CCDs
- CameraLink® communications at 9,600 and 38,400 baud
- Full triggering capabilities
- High Frame Rate:
 - STC-CL33A (VGA) up to 90 fps, full resolution
 - STC-CL232A (UXGA – 2.0MP) up to 30 fps, full resolution
- Sentech CameraLink Cameras are shown on pages 46-65

Auto Focus Block Cameras feature:

- Complete "Low Vision" Processing on the Camera
- Up to 47X magnification on a 17" monitor
- Multiple Outputs: RGB VGA, Analog RGB, Video and Y/C
- Direct Hook Up to LCD flat screen computer monitors
- Sentech Auto Focus camera is shown on pages 18-21

High Speed Progressive Scan Analog Cameras feature:

- High Frame Rate: STC-A33A (VGA – 0.3 MegaPixel) up to 90 fps
- Smallest cube camera on the market, body size less than 1.1" x 1.1" x 1.1"
- Full Triggering Capability
- "On the Fly" configurable, variable sized Partial Scan Windows
- Sentech High Speed Analog Micro cube cameras are shown on pages 66-77

New Micro Analog Board Cameras:

- **STC-N632:** 1" x 1" board, 1/3" CCD, Color, 10 bit programmable DSP, NTSC / PAL pages 84-85
- **STC-E631:** 1" x 1" board, 1/3" CCD, B/W, 10 bit programmable DSP, EIA / CCIR pages 98-99
- **STC-DN64:** 1.94" x 0.4" board w/ Remote ¼" CCD head, 10 bit programmable DSP, NTSC / PAL, pages 86-87
- **STC-N/P64:** 0.88" x 1" board, ¼" CCD, Color, 10 bit programmable DSP, NTSC / PAL, pages 88-89

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The Sentech Team

If you would like to inquire about our cameras, product availability, billing, order status, product returns, or sales and technical support please call us toll free anywhere in the United States at (877) 736-8324 or (972) 481-9223 if you are located outside of the United States.

The Sentech Team



M. Kawakami
President



Tom Campbell
VP of Sales & Marketing



Kim Mizuno
VP of Operations & Engineering



Miyuki Campbell
Accounting



Cyndi Logan
Customer Service



Chie Yoshida
Order Processing



Mick Akiyama
Sales Engineer



Michelle Campbell
Marketing & Documentation



Ric Delucio
Logistics



Zachary Crossland
Contracted: Marketing, IT, Web

The Sentech Sales Team



Western Sales

Robert Bush (Manager)
- West
- South



Northeast Sales

Chance Holder (Manager)
- Northeast
- Central
- Mexico/South America



Southern Sales

Brian West



Central Sales

Chris Manchack



International Sales

Adam Westcott



The Sentech Sales Team

Sentech values our customers, they are the most important people we know. Please contact a Sentech sales representative and we will be happy to provide information and pricing about Sentech cameras.

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“Sentech takes great pride in its customer support via our engineering department. By providing an elevated customer service, we have definitely lifted the bar for our competitors.”

Kim Mizuno

Sentech Offices

Sensor Technology Co., Ltd.

Sentech cameras world design and manufacturing headquarters

Sales Territory:
Japan, Korea

7F, Harada Center Building
9-17, Nakacho 4 Chome
Atsugi-City, Kanagawa
243-0018 Japan
Tel: 81-46-295-7061
Fax: 81-46-295-7066
Website: www.sentech.co.jp

Sensor Technologies America, Inc.

Sentech cameras world marketing and sales headquarters

Sales Territory:
USA, Europe, Africa, Australia, South America, SE Asia, Mid East

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Tel: 972-481-9223
Toll Free in US and Canada: 877-736-8324
Fax: 972-481-9209
Website: www.sentechamerica.com

Taiwan Sensor Technology, Inc.

Sales Territory:
Taiwan and SE Asia

3F-6, No. 9, Aiguo W, Rd., Jhong Jheng District
Taipei City 100, Taiwan, R.O.C.
Tel: 886-2-2383-2331 Fax: 886-2-2370-8775
E-mail: sentech0501@yahoo.com.tw

U.S. Domestic Distribution



Aegis

Aegis is located in Arizona, with sales offices in Carlsbad, California and Chicago, Illinois. Aegis carries a comprehensive line of cameras for industrial imaging and machine vision applications.

Aegis offers excellent customer service and technical support.

Contact: Carolynn Larson Garcia - President/CEO
Corporate Office
1465 N. Fiesta Blvd. #101
Gilbert, AZ 85233
Tel: 480-635-8400 Fax: 480-635-9272
E-mail: carolynn@aegis-elec.com
Website: www.aegis-electcom



AVS

Located in San Diego, California, AVS is a major distributor of industrial, security, and broadcast video products.

Contact: Cliff Moore
4575 Ruffner St.
San Diego, CA 92111
Tel: 800-284-2288, Fax: 858-565-7845
E-mail: sales@avsupply.com
Website: www.avsupply.com



Industrial Vision Source

Industrial Vision Source is a technical sales company. IVS can assist during the design phase for industrial imaging systems including CCD, CMOS, USB, CameraLink®, Firewire and GigE video cameras. IVS also stocks frame grabbers, lenses, cables and monitors.

Contact: Allen McDonald
13710 Huttun Dr.
Farmers Branch, TX 75234
Tel: 800-627-6734 x7022, 972-406-7022, Fax: 610-444-6543
E-mail: allen.mcdonald@i-v-s.com
Website: www.i-v-s.com



Innovative Imaging

Innovation Imaging is an Industrial / Machine Vision Integrator. They sell cameras as well as offer complete turn-key solutions.

Contact: John Hooning
44 Blue Stone Dr.
Chadds Ford, PA 19317
Tel: 610-444-6540, Fax: 610-444-6543
E-mail: jhooning@innovimaging.com

International Distribution

Many of Sentech's customers are multi-nationally based. In our efforts to further support these customers, Sentech has expanded its sales and support base internationally as well. Our international distributors have been selected based on a process which carefully evaluated both their customer support and technical support abilities.

Canada



Bock Optronics

Bock Optronics is located in Toronto, Canada. Since 1987, Bock Optronics has served the market as a comprehensive distributor for innovative and progressive manufacturers of electronic imaging hardware.

Contact: 14 Steinway Blvd., Unit 7
Toronto, Ontario
M9W 6M6 Canada
Tel: (416) 674-2804, Fax: (416) 674-1827
E-mail: hansbock@bockoptronics.ca,
Website: www.bockoptronics.ca

Germany



Videor

Videor is located in Roedermark, Germany with sales offices located in several European countries. Videor is a leading distributor of industrial, security and broadcast video equipment and lenses.

Contact: Videor E. Hartig GmbH
Florian Nadolny - Key Account Management Imaging
Carl-Zeiss Strasse 8
D-63322 Roedermark, Germany
Tel: +49 6074 888 232, Fax: +49 6074 888 238
E-mail: imaging@videor.com
Website: www.videor.com

Hong Kong



Compuvision

Located in Hong Kong, Compuvision specializes in machine vision components and systems for the manufacturing industry. With over 15 years experience in optics, lighting, Framegrabbers, and imaging Compuvision provides strong customer solutions and support.

Contact: Compuvision
Dr. K.Y. Law, Ph.D. - Managing Director
Unit 1025, Nan Fung Center
264-298 Castle Peak Road
Tsuen Wan, N.T., Hong Kong
Tel: 852 2479 8476, Fax: 852 2479 3948
E-mail: CompuVsn@hkstar.com, Website: www.compuvision.com.hk

Italy



Rapitron

Located in Milano, Italy, Rapitron has over 25 years experience in the professional and industrial video markets. Rapitron offers a wide range of products including Sentech cameras targeted for security, industrial, electro-medical and scientific applications.

Contact: Rapitron
Raffaele Picciotto - Manager
Via Washington 59
Milano, Italy 20146
Tel: +39 02 659 8282, Fax: +39 02 654 525
E-mail: rafpi@rapitron.it, Website: www.rapitron.it

Israel



L-Tech Ltd. (Lewenstein Technologies Ltd.)

L-Tech is located in Bnei Brak, Israel. L-Tech is a professional engineering and technical solutions provider in the field of propulsion control, positioning, medical equipment and optics.

Contact: L-Tech Ltd.
Hila Pluznik
9th Bareket st.,
Kiryat Matalon
Petach Tikva, 49571, Israel
Tel: +972 3 9780800, Fax: 972 3 9780829
E-mail: hila@l-tech.co.il, Website: www.l-tech.co.il

United Kingdom



Alrad Instruments Ltd.

Alrad instruments is located in Newbury Berkshire, England. Alrad is an established family business which has specialized in the distribution of video equipment for scientific and industrial applications.

Contact: Alrad Instruments Ltd.
Alder House, Turnpike Road Industrial Estate
Newbury, Berkshire RG14 2NS, U.K.
Tel: +44 (0) 1635 30345, Fax: +44 (0) 1635 32630
E-mail: Sales@alrad.co.uk, Website: www.Alrad.co.uk

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(972) 481-9209

Does your application require a custom designed camera?

If so, please give Sentech a call and we will see if we can help. In 1987 Sentech started by developing custom cameras in Japan for some of the giant Japanese electronics manufacturers. Here are just a few examples of the custom cameras we have built — everything from custom lenses to 2D Matrix scanners to digital smart cameras.

Custom Cameras



Public Transportation:

Ruggedized Color Camera with special DSP profile. Features volume controlled microphone and a power indicator LED. Available in dome and wedge housings in either high impact resistant plastic or metal. *See pp. 78-81*



Day/Night IR Cameras:

Ruggedized housing, clearly illuminates 1,200 sq. ft. Features volume controlled microphone and a power indicator LED. *See pp. 78-81*



STC-RCL33A STC-RCLC33A

This VGA CameraLink® super small remote head camera was designed for an application with severe size and weight restraints. It features two head styles, the first being only 17(W) x 17(H) x 10.5(D) mm, the second (shown) is 12(W) x 12(H) x 44(D) mm. The CCU for this camera is only 28 x 28mm. This is a 10 bit CameraLink® camera with an output up to 90 fps. *See pp. 56-57*



STC-CL500A / STC-CLC500A:

This 2/3" 5.0 MegaPixel QSXGA CameraLink® camera features a 15 fps output speed in a very small package. The entire camera is 35(W) x 35(H) x 40.7(D) mm. It has a mini-CameraLink® connector and RS232 based control communications, allowing communication speeds at either 9,600 or 38,400 baud. *See pp. 52-53*



STC-AF133 (HD Auto Focus Block Camera)

This HD Auto Focus block camera with 720p digital out, outputs a true 16 x 9 aspect ratio. It features full zoom and auto focus functionality for a 25cm (w/ close up lens) to infinite focal distance. User programmable over a RS232 connection. All special "Low Vision" processing (ie: Super High Contrast Mode, Pseudo Colors, High Contrast, anti-ghosting, etc.) are done on the cameras. Available with or without a close up lens.

Coming Soon....



STC-GE (GigE Cameras)

The Sentech series of GigE cameras will have VGA, XGA, SXGA, UXGA and QSXGA (5 MegaPixel) resolutions. The Sentech GigE cameras will be completely compliant to the AIA GigE Vision standards and GeniCam standards. Three different hardware configurations will be available, from a standard GigE type camera to a configuration which will allow the user an unprecedented level of control.

Coming Soon See pp. 14-17



USB 2.0 Hard Trigger Type Cameras (Includes Hardware & Software Triggers)



Sentech's "ASH" series of USB trigger cameras are truly the first USB cameras with full triggering capabilities. This series of cameras allows control of USB latency, removing the traditional obstacle for using USB cameras in Machine Vision applications. This control is provided via a series of signal controls which can be used in the system design. The "ASH" series features VGA, XGA, SXGA, and UXGA cameras, all with lock down mini USB connectors as well as "USB over Hirose" connectors. These cameras also have four user programmable I/Os. A complete SDK for trigger application development is also provided.

See pp. 30-33 & 38-41



STC-CL232A/STC-CLC232A (CameraLink® Camera)



A full featured, cost effective UXGA progressive scan CameraLink® cube camera with 1/1.8" CCD. Features a full resolution 30 fps UXGA output, partial scanning, triggering, and reset capabilities. Very small: 28(W) x 28(H) x 53.5(D) mm.

See pp. 54-55

SENTECH

GigE Cameras

For More Information Call
+(972)-481-9223
Toll Free USA
1-(877)-SENTECH
(736-8324)

New!



GiGE[™]
VISION

GEN<i>CAM

GiGE[™] Cameras by Sentech
VISION

3 Configurations:

Standard
Standard OEM (Custom Code from Sentech)
Custom OEM (Xilinx or Altera based User FPGA)

5 Resolutions:

From VGA to QSXGA (5 MegaPixel)

Color or B/W:

B/W: Gray Scale - 8/10/12 bit raw data
or
Color: On Board Color Interpolation *or* 8/10/12 bit raw data

Communications:

RS232 over 12pin Hirose *or* Over Ethernet Connector

Small Size:

44 (W) x 29 (H) x 72.7(D) mm (1.73" x 1.14" x 2.86")
(Standard Configuration)

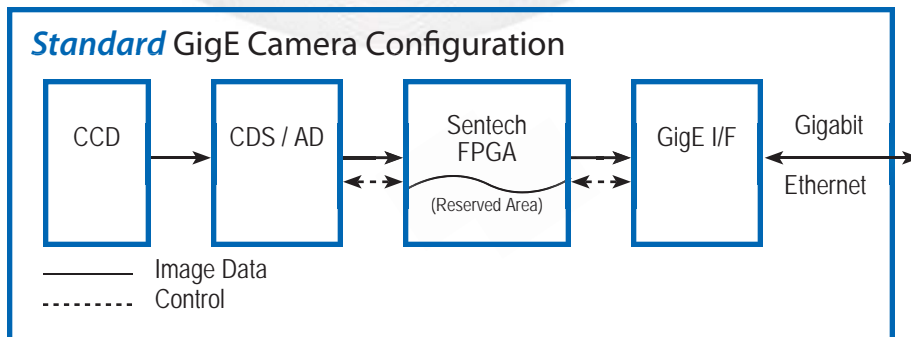


Sentech **GiGE**[™] VISION, blasting past the competition!

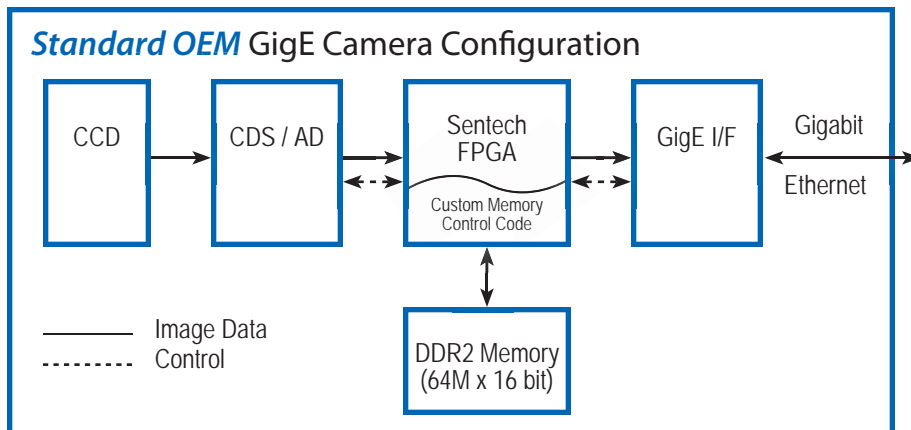
New! GigE Cameras

For More Information Call
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 Toll Free USA
 1-(877)-SENTECH
 (736-8324)

3 Configurations:

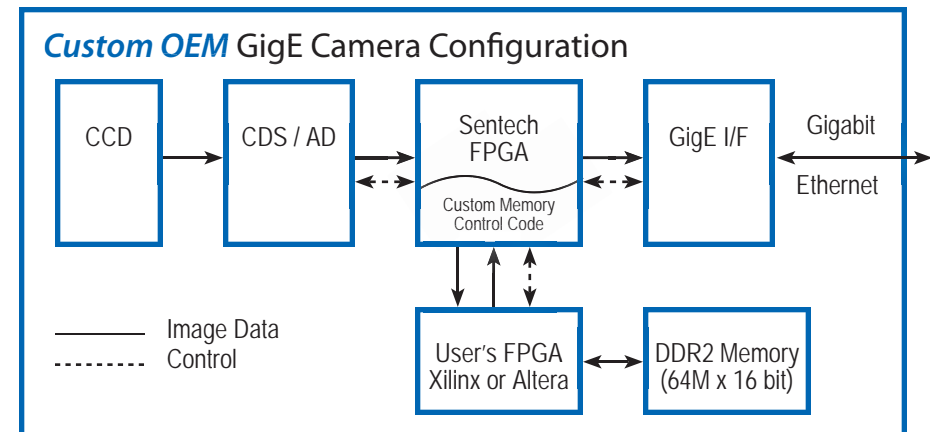


Sentech's **Standard** GigE Camera Configuration is GigE Vision and Genicam compliant. Includes a complete SDK. Is available in Color or B/W and comes in 5 resolutions from VGA to QSXGA (5MP).



Sentech's **Standard OEM** GigE Camera Configuration is GigE Vision and Genicam compliant. This system would be completely programmed and built by Sentech. However, the Custom Memory Control Code (inside the Sentech FPGA) and use of the DDR2 memory would be based on the customer's requirements and specifications. Includes a complete SDK. Is available in Color or B/W and comes in 5 resolutions from VGA to QSXGA (5MP).

SENTECH



Sentech's **Custom OEM** GigE Camera Configuration is GigE Vision and Genicam compliant. This camera features a "user" FPGA and DDR2 memory. With this camera, the user can program with their own proprietary code and have complete control over the DDR2 memory allowing faster downstream system processing. Includes a complete SDK. Is available in Color or B/W and comes in 5 resolutions from VGA to QSXGA (5MP).

5 Resolutions:

- VGA 1/3" CCD, (648 x 494) up to 90 fps, 0.3MP
- XGA 1/3" CCD (1024 x 768) 30 fps, 0.8MP
- SXGA 1/3" or 1/2" CCD (1280 x 960), 30 fps, 1.3MP
- UXGA 1/1.8" CCD (1620 x 1236), 15 fps, 2MP
- QSXGA 2/3" CCD (2448 x 2050), 15 fps, 5MP



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STC-AF66 (High Res)

Auto Focus Block Cameras



New!

STC-AF66A (w/o Close-up Lens)
STC-AF66B (w/ Close-up Lens)

The STC-AF66 auto focus block camera was designed specifically for Low Vision Magnifier Reading systems and industrial applications. This camera features a high resolution CCD (768 x 494), complete "on camera" Low Vision processing and multiple outputs including VGA RGB. With the optional dual element close up lens, the camera can auto focus through the entire zoom range at a target only 25 cm away from the camera.

FEATURES

- Full Optical Zoom: 22x (47x magnification on 17" monitor)
- Direct Connection to TFT Computer or Video Monitors
- Three separate image modes and each is independently programmable
- Auto Focus Stability (Reduces hunting during target movement)
- Auto Focus Tracking (When object height changes)
- Maintains Super Text/Image Legibility when object is in motion
- Manual Focus Override
- Normal, High Contrast & Super Contrast modes
- 30 Combinations of Pseudo Colors
- RGB Interlace, RGB Progressive, Composite & Y/C Out
- Adjustable H & V Line Markers & Shades
- Normal/Mirror Image Selectable
- RS232C Communications for Camera Control

Available Models

STC-AF66A
No Close-up Lens

STC-AF66B
includes Optional 250mm
Close-Up Lens

STC-AF66A75/B75
A or B Model, w/ 75Hz
scanning

AUTO FOCUS HIGH RESOLUTION BLOCK COLOR



Model	STC-AF66A	STC-AF66B
Close-up Lens:	No close-up lens	250mm close-up lens built-on
Image Sensor:	1/6" Interlace Color CCD, 768 (H) x 494 (V)	
Scanning System:	Interlaced / Non-Interlaced	
Scanning Frequency:	STC-AF66A/B: 60Hz, STC-AF66A/B-75: 75Hz	
Resolution:	Horizontal: 480 TV Lines, Vertical: 350 TV Lines	
S/N Ratio:	>48dB (AGC Off)	
Minimum Illumination:	0.47 Lux @ F1.6 at 50 IRE, (-6dB) w/ 75% scene reflection, max. gain	
Sync System:	Internal / External	
Video Output:	NTSC Composite, Y/C, RGB Interlace RGB progressive out for PC monitors (VGA compatible)	
Electronic Shutter:	Selectable shutter speeds via the serial communication	
Gain:	Adjustable gain via serial communication or AGC (On/Off)	
Gamma:	Fixed values via the serial communication	
White Balance:	Selectable auto or fixed white bal. via serial communication The range is 2800°K to 7000°K 3 positions (3200°K, 4100°K and 5100°K)	
Video Processing:	Normal, High Contrast & Super High Contrast Mode High Contrast Mode Includes: Negative/Positive (Selectable) 30 Pre-Programmed Pseudo Colors Combinations (user definable)	
Auto Focus Lens Control:	Focus: Auto, Manual Focus or Auto w/ manual override Zoom: Zoom position controllable via the serial communication	
Zoom Range:	3.9 ~ 85.8mm (Optical)	
Auto Focus Hunting Control:	On or Off (via the serial communication)	
Line Generator:	Thickness, Color, Position & Orientation (Horizontal and/or Vertical) via the serial communication	
Shadow Mask Generator:	Darkness, Position & Orientation (Horizontal and/or Vertical) via the serial communication	
Character Generation:	Built-in full screen character generation function via the serial communication	
Mirror Mode:	Normal or Mirror Image (Horizontal Reversed) via serial communication	
Communication:	RS232 serial communication	
Software Control:	All camera DSP and lens setup parameters are controlled via the serial communication	
Power:	Input Voltage: DC +12V (Input voltage range is 7~15V) Consumption: 250mA at DC +12V input	
Temperature and Humidity:	Operational: -5°C ~ 45°C (14°F ~ 113°F) Storage: -20°C ~ 65°C (-4°F ~ 149°F)	
Dimensions:	58.2 (W) x 52.7 (H) x 87.1 (D) mm	

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(972) 481-9209

STC-AF56 (Medium Res)

Auto Focus Block Cameras



STC-AF56A (w/o Close-up Lens)
STC-AF56B (w/ Close-up Lens)

The STC-AF56 auto focus block camera has all of the same Low Vision Magnifier Reading system features and "on-camera" processing as the STC-AF66 camera. The STC-AF56 has a standard resolution (510 x 494) CCD. This camera also has an optional dual element close up lens, which allows the camera to auto focus through the entire zoom range at a target only 25 cm away from the camera.

FEATURES

- Full Optical Zoom: 22x (47x magnification on 17" monitor)
- Direct Connection to TFT Computer or Video Monitors
- Three separate image modes and each is independently programmable
- Auto Focus Stability (Reduces hunting during target movement)
- Auto Focus Tracking (When object height changes)
- Maintains Super Text/Image Legibility when object is in motion
- Manual Focus Override
- Normal, High Contrast & Super Contrast modes
- 30 Combinations of Pseudo Colors
- RGB Interlace, RGB Progressive, Composite & Y/C Out
- Adjustable H & V Line Markers & Shades
- Normal/Mirror Image Selectable
- RS232C Communications for Camera Control

Available Models

STC-AF56A
No Close-up Lens

STC-AF56B
includes Optional 250mm
Close-Up Lens

AUTO FOCUS BLOCK COLOR



Model	STC-AF56A	STC-AF56B
Close-up Lens:	No close-up lens	250mm close-up lens built-on
Image Sensor:	1/6" Interlace Color CCD, 510 (H) x 492 (V)	
Scanning System:	Interlaced / Non-Interlaced	
Resolution:	Horizontal: 330 TV Lines, Vertical: 350 TV Lines	
S/N Ratio:	>48dB (AGC Off)	
Minimum Illumination:	3.47 Lux @ F1.6 at 50 IRE, (-6dB) w/ 75% scene reflection, max. gain	
Sync System:	Internal / External	
Video Output:	NTSC Composite, Y/C, RGB Interlace RGB progressive out for PC monitors (VGA compatible)	
Electronic Shutter:	Selectable shutter speeds via the serial communication	
Gain:	Adjustable gain via serial communication or AGC (On/Off)	
Gamma:	Fixed values via the serial communication	
White Balance:	Selectable auto or fixed white bal. via serial communication The range is 2800°K to 7000°K 3 positions (3200°K, 4100°K and 5100°K)	
Video Processing:	Normal, High Contrast & Super High Contrast Mode High Contrast Mode Includes: Negative/Positive (Selectable) 30 Pre-Programmed Pseudo Colors Combinations (user definable)	
Auto Focus Lens Control:	Focus: Auto, Manual Focus or Auto w/ manual override Zoom: Zoom position controllable via the serial communication	
Zoom Range:	3.9 ~ 85.8mm (Optical)	
Auto Focus Hunting Control:	On or Off (via the serial communication)	
Line Generator:	Thickness, Color, Position & Orientation (Horizontal and/or Vertical) via the serial communication	
Shadow Mask Generator:	Darkness, Position & Orientation (Horizontal and/or Vertical) via the serial communication	
Character Generation:	Built-in full screen character generation function via the serial communication	
Mirror Mode:	Normal or Mirror Image (Horizontal Reversed) via serial communication	
Communication:	RS232 serial communication	
Software Control:	All camera DSP and lens setup parameters are controlled via the serial communication	
Power:	Input Voltage: DC +12V (Input voltage range is 7~15V) Consumption: 250mA at DC +12V input	
Temperature and Humidity:	Operational: -5°C ~ 45°C (14°F ~ 113°F) Storage: -20°C ~ 65°C (-4°F ~ 149°F)	
Dimensions:	58.2 (W) x 52.7 (H) x 87.1 (D) mm	

INDUSTRIAL GRADE

USB 2.0 CAMERAS



- SENTECH VIEWING SOFTWARE (Basic & Advanced Menus)
- SENTECH SDK (Standard & Trigger)
- DRIVERS
 - DIRECTX
 - TWAIN
 - LINUX
 - NI LABVIEW™ COMPATIBLE
- OPERATING SYSTEM
 - WINDOWS 2000, XP, VISTA
 - LINUX
- MACHINE VISION FEATURES
 - SOFTWARE TRIGGERING
 - HARDWARE TRIGGERING (With 4 Configurable I/O's)
 - INTEGRATION END SIGNAL
 - READOUT SIGNAL CONTROL
 - HD TRIGGER TIMING CTRL.
- COLOR (w/Bayer Filter) OR MONOCHROME
- HIGH SPEED FRAME RATES
- SQUARE PIXELS
- AVAILABLE CONFIGURATIONS
 - BOARD
 - CASED
 - OEM
- LOW LIGHT START/STOP INTEGRATION CONTROL

Color USB 2.0 Cameras

STC-TC33USB

- 0.3 MEGAPIXEL
 - 1/3" CCD - VGA
 - 60 fps (Full Resolution)
 - AVAILABLE IN BOARD OR CASED
 - SOFTWARE & HARDWARE TRIGGER
- SEE PAGES 26, 27 & 30, 31 FOR DETAILS.

STC-TC83USB

- 0.8 MEGAPIXEL
 - 1/3" CCD - XGA
 - 30 fps (Full Resolution)
 - AVAILABLE IN BOARD OR CASED
 - SOFTWARE & HARDWARE TRIGGER
- SEE PAGES 26, 27 & 30, 31 FOR DETAILS.

STC-TC152USB

- 1.3 MEGAPIXEL
 - 1/2" CCD - SXGA
 - 19 fps (Full Resolution)
 - AVAILABLE IN BOARD OR CASED
 - SOFTWARE & HARDWARE TRIGGER
- SEE PAGES 28, 29 & 32, 33 FOR DETAILS.

STC-TC202USB

- 2 MEGAPIXEL
 - 1/1.8" CCD - UXGA
 - 15 fps (Full Resolution)
 - AVAILABLE IN BOARD OR CASED
 - SOFTWARE & HARDWARE TRIGGER
- SEE PAGES 28, 29 & 32, 33 FOR DETAILS.

Monochrome USB 2.0 Cameras

STC-TB33USB

- 0.3 MEGAPIXEL
 - 1/3" CCD - VGA
 - 60 fps (Full Resolution)
 - AVAILABLE IN BOARD OR CASED
 - SOFTWARE & HARDWARE TRIGGER
- SEE PAGES 34, 35 & 38, 39 FOR DETAILS.

STC-TB83USB

- 0.8 MEGAPIXEL
 - 1/3" CCD - XGA
 - 30 fps (Full Resolution)
 - AVAILABLE IN BOARD OR CASED
 - SOFTWARE & HARDWARE TRIGGER
- SEE PAGES 34, 35 & 38, 39 FOR DETAILS.

STC-TB152USB

- 1.3 MEGAPIXEL
 - 1/2" CCD - SXGA
 - 19 fps (Full Resolution)
 - AVAILABLE IN BOARD OR CASED
 - SOFTWARE & HARDWARE TRIGGER
- SEE PAGES 36, 37 & 40, 41 FOR DETAILS.

STC-TB202USB

- 2 MEGAPIXEL
 - 1/1.8" CCD - UXGA
 - 15 fps (Full Resolution)
 - AVAILABLE IN BOARD OR CASED
 - SOFTWARE & HARDWARE TRIGGER
- SEE PAGES 36, 37 & 40, 41 FOR DETAILS.

Full specification comparison table on pages 24-25.
Model configurations & Mechanical drawings on pages 42-43.

Comparison Chart Sentech USB 2.0 Cameras



Standard Models (Includes Software Trigger)

Models	STC-TC33USB STC-TB33USB	STC-TC83USB STC-TB83USB	STC-TC152USB STC-TB152USB	STC-TC202USB STC-TB202USB
Resolution:	VGA (0.3MP)	XGA (0.8MP)	SXGA (1.3MP)	UXGA (2MP)
Imager Sensor:	1/3" IT CCD	1/3" IT CCD	1/2" IT CCD	1/1.8" IT CCD
Signal Format:	Color or Monochrome Progressive			
Operating Systems:	Windows 2000, XP, Vista and Linux			
Drivers:	Sentech Viewing Software (Simple and Advanced Menus) DirectX, Twain, Linux, Ni LabVIEW™			
Software Development Kits:	Standard SDK & Trigger SDK (for Software and Hardware Triggers) Full Documentation			
Maximum Frame Rates:				
Full Scan	60 fps	30 fps	19 fps	15 fps
1/2 Partial	120 fps	60 fps	38 fps	30 fps
1/4 Partial	240 fps	120 fps	77 fps	60 fps
Active Picture Element:				
Full	640(H) x 480(V)	1024(H) x 768(V)	1280(H) x 1024(V)	1600(H) x 1200(V)
1/2 Partial	640(H) x 224(V)	1024(H) x 344(V)	1280(H) x 476(V)	1600(H) x 544(V)
1/4 Partial	640(H) x 80(V)	1024(H) x 136(V)	1280(H) x 184(V)	1600(H) x 208(V)
Pixel Clock Frequencies:	24.5454MHz	29.5MHz	36.818MHz	
Trigger Method:	Software Trigger (Edge Preset)			
Trigger Controls:	Integration End Signal, Readout Signal Control, HD Trigger Timing Control			
I/O Ports:	-			
Scanning Methods:	Full Progressive, Partial scanning (1/1, 1/2, 1/4), Binning (B & W models only), Variable			
Sync System:	Internal Sync			
Shutter Speed:	Auto / Fixed (Software Selectable, Values set via Software)			
Minimum Illumination:	2.24 Lux @ F1.2 (C) 0.07 Lux @ F1.2 (B/W)	4.24 Lux @ F1.2 (C) 0.11 Lux @ F1.2 (B/W)	2.7 Lux @ F1.2 (C) 0.12 Lux @ F1.2 (B/W)	1.39 Lux @ F1.2 (C) 0.11 Lux @ F1.2 (B/W)
Extended Low Light:	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 / Micro Lens Mount		C Mount	
White Balance:	Auto / Manual / One-shot			
Video Output:	USB 2.0 High Speed			
Connectors:	Standard USB (Lock Down Type Available)			
Shock and Vibration:	Vibration: 10G (20 to 200Hz), Shock: 70G (3 directions, 3 times each)			
Input Voltage:	+5V thru USB port			
Power Consumption:	1.75W, < 350mA	1.60W, < 320mA	2.25W, < 450mA	2.80W, < 560mA
Dimensions:	Cased: 51 (W) x 51 (H) x 44.3 (D) mm (2" x 2" x 1.74") Board: 45 (W) x 45 (W) x Var. (1.77" x 1.77" x Var.)			
Weight:	Cased: Approximately 145g (5.11oz), Board Approximately: 45g (1.58oz)			

Hardware Trigger Models (Includes Hardware & Software Triggers)

STC-TC33USB-ASH STC-TB33USB-ASH	STC-TC83USB-ASH STC-TB83USB-ASH	STC-TC152USB-ASH STC-TB152USB-ASH	STC-TC202USB-ASH STC-TB202USB-ASH
VGA (0.3MP)	XGA (0.8MP)	SXGA (1.3MP)	UXGA (2MP)
1/3" IT CCD	1/3" IT CCD	1/2" IT CCD	1/1.8" IT CCD
Color or Monochrome Progressive			
Windows 2000, XP, Vista and Linux			
Sentech Viewing Software (Simple and Advanced Menus) DirectX, Twain, Linux, Ni LabVIEW™			
Standard SDK & Trigger SDK (for Software and Hardware Triggers) Full Documentation			
60 fps	30 fps	19 fps	15 fps
120 fps	60 fps	38 fps	30 fps
240 fps	120 fps	77 fps	60 fps
640(H) x 480(V)	1024(H) x 768(V)	1280(H) x 1024(V)	1600(H) x 1200(V)
640(H) x 224(V)	1024(H) x 344(V)	1280(H) x 476(V)	1600(H) x 544(V)
640(H) x 80(V)	1024(H) x 136(V)	1280(H) x 184(V)	1600(H) x 208(V)
24.5454MHz	29.5MHz	36.818MHz	
Hardware and Software Trigger (Pulse Width and Edge Preset)			
Integration End Signal, Readout Signal Control, HD Trigger Timing Control			
4 Programmable Input / Output Ports (2 Input Ports & 2 Output Ports)			
Full Progressive, Partial scanning (1/1, 1/2, 1/4), Binning (B & W models only), Variable			
Internal Sync			
Auto / Fixed (Software Selectable, Values set via Software)			
2.24 Lux @ F1.2 (Color) 0.08 Lux @ F1.2 (B/W)	5.28 Lux @ F1.2 (Color) 0.11 Lux @ F1.2 (B/W)	2.7 Lux @ F1.2 (Color) 0.12 Lux @ F1.2 (B/W)	1.39 Lux @ F1.2 (Color) 0.11 Lux @ F1.2 (B/W)
Extended Low Light Capability via Software Trigger			
Analog & Digital Gains (Able to be set independently)			
Fixed Values (Set via Software)			
CS Mount / Micro Lens Mount		C Mount	
Auto / Manual / One-shot			
USB 2.0 High Speed			
Mini USB (Lock Down Type Available) & USB Signal on the 12 pin Hirose			
Vibration: 10G (20 to 200Hz), Shock: 70G (3 directions, 3 times each)			
+5 V thru USB port			
1.75W, < 350mA	1.60W, < 320mA	2.25W, < 450mA	2.80W, < 560mA
Cased: 50 (W) x 50 (H) x 40.8 (D) mm (1.96" x 1.96" x 1.60") Board: 45 (W) x 45 (W) x Var. (1.77" x 1.77" x Var.)			
Cased: Approximately 145g (5.11oz), Board Approximately: 45g (1.58oz)			

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Available Models

Cased Cameras (A)

STC-TC33USB-AS
STC-TC33USB-AT

STC-TC83USB-AS
STC-TC83USB-AT

Board Cameras (B)

STC-TC33USB-BS
STC-TC33USB-BT
STC-TC33USB-BSL
STC-TC33USB-BTL
STC-TC33USB-BSCS
STC-TC33USB-BTCS

STC-TC83USB-BS
STC-TC83USB-BT
STC-TC83USB-BSL
STC-TC83USB-BTL
STC-TC83USB-BSCS
STC-TC83USB-BTCS

Note: See pages 42-43 for model configurations.

Accessories

See pages 42

STC-TC33/83USB

USB 2.0 Color Cameras



STC-TC33USB (VGA, 60 fps, 0.3MP)
STC-TC83USB (XGA, 30 fps, 0.8MP)

The STC-TC33USB & STC-TC83USB are compact, progressive scan, VGA and XGA USB cameras with a 1/3" color CCD, featuring 60 fps (VGA) and 30 fps (XGA), software 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, DirectX, Twain, Linux & NI LabView™ Drivers, as well as the Sentech Viewing Software.

FEATURES

- VGA (60 fps), XGA (30 fps)
- USB 2.0
- SOFTWARE TRIGGER
- 1/3" COLOR CCD
- COMPACT SIZE:
CASED: 51(W) x 51(H) x 44.3(D) mm
BOARD: 45(W) x 45(H) x VARIABLE (D) mm
- SENTECH SDK (STANDARD AND TRIGGER)
- DIRECTX, TWAIN, LINUX & NI LABVIEW™ DRIVERS
- SENTECH VIEWING SOFTWARE
- OPERATING SYSTEMS: 2000, XP, VISTA, LINUX

COLOR USB 2.0

VGA (0.3MP) & XGA (0.8MP)

w/ EXTENDED LOW LIGHT IMAGING



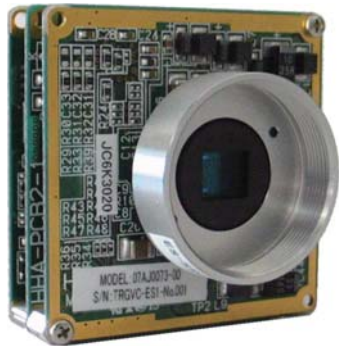
Models	STC-TC33USB	STC-TC83USB
Resolution:	VGA (0.3 MegaPixel)	XGA (0.8 MegaPixel)
Imager Sensor:	1/3" Interline CCD: ICX424AQ	1/3" Interline CCD: ICX204AK
Signal Format:	Color Progressive	
Maximum Frame Rates:		
Full Scan	60 fps	30 fps
1/2 Partial	120 fps	60 fps
1/4 Partial	240 fps	120 fps
Active Picture Element:		
Full	640(H) x 480(V)	1024(H) x 768(V)
1/2 Partial	640(H) x 224(V)	1024(H) x 344(V)
1/4 Partial	640(H) x 80(V)	1024(H) x 136(V)
Chip Size (mm):	5.79 (H) x 4.89 (V)	5.80 (H) x 4.92 (V)
Cell Size (µm):	7.40 (H) x 7.40 (V)	4.65 (H) x 4.65 (V)
Pixel Clock Frequencies:	24.5454MHz	29.5MHz
Trigger Controls:	Integration End Signal, Readout Signal Ctrl., HD Trigger Timing Ctrl.	
Scanning Methods:	Full Progressive, Partial scanning (1/1, 1/2, 1/4)	
Sync System:	Internal Sync	
Shutter Speed:	Auto / Fixed (Software Selectable, Values set via Software)	
Minimum Illumination:	0.95 Lux @ F1.2, 20 IRE 2.24 Lux @ F1.2, 50 IRE	2 Lux @ F1.2, 20 IRE 4.24 Lux @ F1.2, 50 IRE
Extended Low Light:	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	
Connectors:	Standard USB (Lock Down Type Available)	
Shock and Vibration:	Vibration: 10G (20 to 200Hz), Shock: 70G (3 directions, 3 times each)	
Input Voltage:	+5V through USB port	
Power Consumption:	1.75W, < 350mA	1.60W, < 320mA
Operating Temperature:	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature:	-30°C ~ 65°C (-22°F ~ 149°F)	
Dimensions:	Cased: 51 (W) x 51 (H) x 44.3 (D) mm (2" x 2" x 1.74") Board: 45 (W) x 45 (W) x Var. (D) mm (1.77" x 1.77" x Var.)	
Weight:	Cased: 145g (5.11oz), Board: 45g (1.58oz)	

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STC-TC152/202USB

USB 2.0 Color Cameras



STC-TC152USB (SXGA, 19 fps, 1.3MP)
STC-TC202USB (UXGA, 15 fps, 2MP)

The STC-TC152USB & STC-TC202USB are compact, progressive scan, SXGA and UXGA USB cameras with a 1/2" and 1/1.8" color CCD, featuring 19 fps (SXGA) and 15 fps (UXGA), software 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, DirectX, Twain, Linux & NI LabView™ Drivers, as well as the Sentech Viewing Software.

FEATURES

- SXGA (19 fps), UXGA (15 fps)
- USB 2.0
- SOFTWARE TRIGGER
- 1/2" AND 1/1.8" COLOR CCD
- COMPACT SIZE:
CASED: 51(W) x 51(H) x 44.3(D) mm
BOARD: 45(W) x 45(H) x VARIABLE (D) mm
- SENTECH SDK (STANDARD AND TRIGGER)
- DIRECTX, TWAIN, LINUX & NI LABVIEW™ DRIVERS
- SENTECH VIEWING SOFTWARE
- OPERATING SYSTEMS: 2000, XP, VISTA, LINUX

Available Models

Cased Cameras (A)

STC-TC152USB-AS
STC-TC152USB-AT

STC-TC202USB-AS
STC-TC202USB-AT

Board Cameras (B)

STC-TC152USB-BS
STC-TC152USB-BT
STC-TC152USB-BSL
STC-TC152USB-BTL
STC-TC152USB-BSCS
STC-TC152USB-BTCS

STC-TC202USB-BS
STC-TC202USB-BT
STC-TC202USB-BSL
STC-TC202USB-BTL
STC-TC202USB-BSCS
STC-TC202USB-BTCS

Note: See pages 42-43 for model configurations.

Accessories

See pages 42

COLOR USB 2.0

SXGA (1.3MP) & UXGA (2MP)

w/ EXTENDED LOW LIGHT IMAGING



Models	STC-TC152USB	STC-TC202USB
Resolution:	SXGA (1.3 MegaPixel)	UXGA (2 MegaPixel)
Imager Sensor:	1/2" Interline CCD: ICX205AK	1/1.8" Interline CCD: ICX274AQ
Signal Format:	Color Progressive	
Maximum Frame Rates:		
Full Scan	19 fps	15 fps
1/2 Partial	38 fps	30 fps
1/4 Partial	77 fps	60 fps
Active Picture Element:		
Full	1280 (H) x 1024 (V)	1600(H) x 1200(V)
1/2 Partial	1280 (H) x 476 (V)	1600(H) x 544(V)
1/4 Partial	1280 (H) x 184 (V)	1600(H) x 208(V)
Chip Size (mm):	7.60 (H) x 6.20(V)	8.50 (H) x 6.80 (V)
Cell Size (µm):	4.65 (H) x 4.65 (V)	4.40 (H) x 4.40 (V)
Pixel Clock Frequencies:	36.818MHz	36.818MHz
Trigger Controls:	Integration End Signal, Readout Signal Ctrl., HD Trigger Timing Ctrl.	
Scanning Methods:	Full Progressive, Partial scanning (1/1, 1/2, 1/4)	
Sync System:	Internal Sync	
Shutter Speed:	Auto / Fixed (Software Selectable, Values set via Software)	
Minimum Illumination:	1.24 Lux @ F1.2, 20 IRE 2.7 Lux @ F1.2, 50 IRE	0.73 Lux @ F1.2, 20 IRE 1.39 Lux @ F1.2, 50 IRE
Extended Low Light:	Extended Low Light Capability via Software Trigger	
Gain:	Analog & Digital Gains (Able to be set independently)	
Gamma:	Fixed Values (Set via Software)	
Lens Mount:	C Mount	
White Balance:	Auto / Manual / One-shot	
Video Output:	USB 2.0 High Speed	
Connectors:	Standard USB (Lock Down Type Available)	
Shock and Vibration:	Vibration: 10G (20 to 200Hz), Shock: 70G (3 directions, 3 times each)	
Input Voltage:	+5 V through USB port	
Power Consumption:	2.25W, < 450mA	2.80W, < 560mA
Operating Temperature:	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature:	-30°C ~ 65°C (-22°F ~ 149°F)	
Dimensions:	Cased: 51 (W) x 51 (H) x 44.3 (D) mm (2" x 2" x 1.74") Board: 45 (W) x 45 (W) x Var. (D) mm (1.77" x 1.77" x Var.)	
Weight:	Cased: 145g (5.11oz), Board: 45g (1.58oz)	

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Available Models

Cased Cameras (A)

STC-TC33USB-ASH
STC-TC83USB-ASH

Board Cameras (B)

STC-TC33USB-BS
STC-TC33USB-BT
STC-TC33USB-BSL
STC-TC33USB-BTL
STC-TC33USB-BSCS
STC-TC33USB-BTCS

STC-TC83USB-BS
STC-TC83USB-BT
STC-TC83USB-BSL
STC-TC83USB-BTL
STC-TC83USB-BSCS
STC-TC83USB-BTCS

Note: See pages 42-43 for model configurations.

Accessories

Cables

CAB-6USB A-M
CAB-6USB A-M Lock

Lenses

Various CS-Mount Lenses
Various C-Mount Lenses
Various Telecentric Lenses

Lens Mount

C-Adapter

STC-TC33/83USB-ASH

USB 2.0 Color Cameras



New!



STC-TC33USB-ASH (VGA, 60 fps, 0.3MP)
STC-TC83USB-ASH (XGA, 30 fps, 0.8MP)

The Sentech "ASH" series is a USB camera designed for Machine Vision and extremely low light applications. In addition to all of the powerful camera control features of the Sentech USB cameras, the "ASH" (cased type) camera features full machine vision "triggering". This camera has both Pulse Width and Edge Preset triggers. These triggers can be supplied to the camera via external hardware or via software.

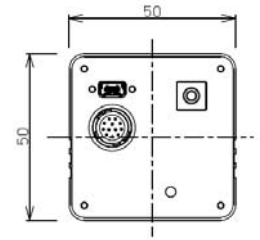
FEATURES

- VGA (60 fps), XGA (30 fps)
- USB 2.0
- 1/3" COLOR CCD
- SOFTWARE AND HARDWARE TRIGGER
- TRIGGER CONTROLS
- 4 USER PROGRAMMABLE I/Os
- SENTECH SDK (STANDARD AND TRIGGER)
- DIRECTX, TWAIN, LINUX & NI LABVIEW™ DRIVERS
- SENTECH VIEWING SOFTWARE
- OPERATING SYSTEMS: 2000, XP, VISTA, LINUX

COLOR USB 2.0

VGA (0.3MP) & XGA (0.8MP)

W/ HARDWARE & SOFTWARE TRIGGERING



Models	STC-TC33USB-ASH	STC-TC83USB-ASH
Resolution:	VGA Color (0.3 MegaPixel)	XGA Color (0.8 MegaPixel)
Imager Sensor:	1/3" Interline CCD: ICX424AQ	1/3" Interline CCD: ICX204AK
Signal Format:	Color Progressive	
Maximum Frame Rates:		
Full Scan	60 fps	30 fps
1/2 Partial	120 fps	60 fps
1/4 Partial	240 fps	120 fps
Active Picture Element:		
Full	640(H) x 480(V)	1024(H) x 768(V)
1/2 Partial	640(H) x 224(V)	1024(H) x 344(V)
1/4 Partial	640(H) x 80(V)	1024(H) x 136(V)
Trigger Method:	Hardware and Software Trigger (Pulse Width and Edge Preset)	
Trigger Controls:	Integration End Signal, Readout Signal Ctrl., HD Trigger Timing Ctrl.	
I/O Ports:	4 Programmable Input / Output Ports (2 Input Ports & 2 Output Ports)	
Pixel Clock Frequencies:	24.5454MHz	29.5MHz
Scanning Methods:	Full Progressive, Partial scanning (1/1, 1/2, 1/4)	
Sync System:	Internal Sync	
Shutter Speed:	Auto / Fixed (Software Selectable, Values set via Software)	
Minimum Illumination:	0.95 Lux @ F1.2, 20 IRE 2.24 Lux @ F1.2, 50 IRE	2.17 Lux @ F1.2, 20 IRE 5.28 Lux @ F1.2, 50 IRE
Extended Low Light:	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	
Connectors:	Mini USB (Lock Down Type Available) & USB Signal on the 12 pin Hirose	
Shock and Vibration:	Vibration: 10G (20 to 200Hz), Shock: 70G (3 directions, 3 times each)	
Input Voltage:	+5V through USB port	
Power Consumption:	1.75W, < 350mA	1.60W, < 320mA
Operating Temperature:	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature:	-30°C ~ 65°C (-22°F ~ 149°F)	
Dimensions:	Cased: 50 (W) x 50 (H) x 40.8 (D) mm (1.96" x 1.96" x 1.60") Board: 45 (W) x 45 (W) x Var. (D) mm (1.77" x 1.77" x Var.)	
Weight:	Cased: 145g (5.11oz.), Board: 45g (1.58oz)	

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Available Models

Cased Cameras (A)

STC-TC33USB-ASH
STC-TC83USB-ASH

Board Cameras (B)

STC-TC152USB-B5
STC-TC152USB-BT
STC-TC152USB-B5L
STC-TC152USB-BTL
STC-TC152USB-B5CS
STC-TC152USB-BTCS

STC-TC202USB-B5
STC-TC202USB-BT
STC-TC202USB-B5L
STC-TC202USB-BTL
STC-TC202USB-B5CS
STC-TC202USB-BTCS

Note: See pages 42-43 for model configurations.

Accessories

Cables

CAB-6USB A-M
CAB-6USB A-M Lock

Lenses

Various CS-Mount Lenses
Various C-Mount Lenses
Various Telecentric Lenses

Lens Mount

C-Adapter

STC-TC152/202USB-ASH

USB 2.0 Color Cameras



New!



STC-TC152USB-ASH (SXGA, 19 fps, 1.3MP)
STC-TC202USB-ASH (UXGA, 15 fps, 2MP)

The Sentech "ASH" series is a USB camera designed for Machine Vision and extremely low light applications. In addition to all of the powerful camera control features of the Sentech USB cameras, the "ASH" (cased type) camera features full machine vision "triggering". This camera has both Pulse Width and Edge Preset triggers. These triggers can be supplied to the camera via external hardware or via software.

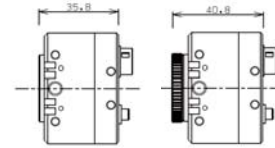
FEATURES

- SXGA (19 fps), UXGA (15 fps)
- USB 2.0
- 1/2" AND 1/1.8" COLOR CCD
- SOFTWARE AND HARDWARE TRIGGER
- TRIGGER CONTROLS
- 4 USER PROGRAMMABLE I/Os
- SENTECH SDK (STANDARD AND TRIGGER)
- DIRECTX, TWAIN, LINUX & NI LABVIEW™ DRIVERS
- SENTECH VIEWING SOFTWARE
- OPERATING SYSTEMS: 2000, XP, VISTA, LINUX

COLOR USB 2.0

SXGA (1.3MP) & UXGA (2MP)

W/ HARDWARE & SOFTWARE TRIGGERING



Models	STC-TC152USB-ASH	STC-TC202USB-ASH
Resolution:	SXGA (1.3 MegaPixel)	UXGA (2 MegaPixel)
Imager Sensor:	1/2" Interline CCD: ICX205AK	1/1.8" Interline CCD: ICX274AQ
Signal Format:	Color Progressive	
Maximum Frame Rates:		
Full Scan	19 fps	15 fps
1/2 Partial	38 fps	30 fps
1/4 Partial	77 fps	60 fps
Active Picture Element:		
Full	1280 (H) x 1024 (V)	1600(H) x 1200(V)
1/2 Partial	1280 (H) x 476 (V)	1600(H) x 544(V)
1/4 Partial	1280 (H) x 184 (V)	1600(H) x 208(V)
Trigger Method:	Hardware and Software Trigger (Pulse Width and Edge Preset)	
Trigger Controls:	Integration End Signal, Readout Signal Ctrl., HD Trigger Timing Ctrl.	
I/O Ports:	4 Programmable Input / Output Ports (2 Input Ports & 2 Output Ports)	
Pixel Clock Frequencies:	36.818MHz	36.818MHz
Scanning Methods:	Full Progressive, Partial scanning (1/1, 1/2, 1/4)	
Sync System:	Internal Sync	
Shutter Speed:	Auto / Fixed (Software Selectable, Values set via Software)	
Minimum Illumination:	1.24 Lux @ F1.2, 20 IRE 2.7 Lux @ F1.2, 50 IRE	0.73 Lux @ F1.2, 20 IRE 1.39 Lux @ F1.2, 50 IRE
Extended Low Light:	Extended Low Light Capability via Software Trigger	
Gain:	Analog & Digital Gains (Able to be set independently)	
Gamma:	Fixed Values (Set via Software)	
Lens Mount:	C Mount	
White Balance:	Auto / Manual / One-shot	
Video Output:	USB 2.0 High Speed	
Connectors:	Mini USB (Lock Down Type Available) & USB Signal on the 12 pin Hirose	
Shock and Vibration:	Vibration: 10G (20 to 200Hz), Shock: 70G (3 directions, 3 times each)	
Input Voltage:	+5 V through USB port	
Power Consumption:	2.25W, < 450mA	2.80W, < 560mA
Operating Temperature:	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature:	-30°C ~ 65°C (-22°F ~ 149°F)	
Dimensions:	Cased: 50 (W) x 50 (H) x 40.8 (D) mm (1.96" x 1.96" x 1.60") Board: 45 (W) x 45 (W) x Var. (D) mm (1.77" x 1.77" x Var.)	
Weight:	Cased: 145g (5.11oz.), Board: 45g (1.58oz)	

Sentech America
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USA

Toll Free:
(877) 736-8324
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(972) 481-9223
Fax:
(972) 481-9209

Available Models

Cased Cameras (A)

STC-TB33USB-AS
STC-TB33USB-AT

STC-TB83USB-AS
STC-TB83USB-AT

Board Cameras (B)

STC-TB33USB-BS
STC-TB33USB-BT
STC-TB33USB-BSL
STC-TB33USB-BTL
STC-TB33USB-BSCS
STC-TB33USB-BTCS

STC-TB83USB-BS
STC-TB83USB-BT
STC-TB83USB-BSL
STC-TB83USB-BTL
STC-TB83USB-BSCS
STC-TB83USB-BTCS

Note: See pages 42-43 for model configurations.

Accessories

See pages 42

STC-TB33/83USB

USB 2.0 Monochrome Cameras



STC-TB33USB (VGA, 60 fps, 0.3MP)
STC-TB83USB (XGA, 30 fps, 0.8MP)

The STC-TB33USB & STC-TB83USB are compact, progressive scan, VGA and XGA USB cameras with a 1/3" monochrome CCD, featuring 60 fps (VGA) and 30 fps (XGA), software 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, DirectX, Twain, Linux & NI LabView™ Drivers, as well as the Sentech Viewing Software.

FEATURES

- VGA (60 fps), XGA (30 fps)
- USB 2.0
- SOFTWARE TRIGGER
- 1/3" MONOCHROME CCD
- COMPACT SIZE:
CASED: 51(W) x 51(H) x 44.3(D) mm
BOARD: 45(W) x 45(H) x VARIABLE (D) mm
- SENTECH SDK (STANDARD AND TRIGGER)
- DIRECTX, TWAIN, LINUX & NI LABVIEW™ DRIVERS
- SENTECH VIEWING SOFTWARE
- OPERATING SYSTEMS: 2000, XP, VISTA, LINUX

B/W USB 2.0

VGA (0.3MP) & XGA (0.8MP)

w/ EXTENDED LOW LIGHT IMAGING



Models	STC-TB33USB	STC-TB83USB
Resolution:	VGA Monochrome (0.3 MegaPixel)	XGA Monochrome (0.3 MegaPixel)
Imager Sensor:	1/3" Interline CCD: ICX424AL	1/3" Interline CCD: ICX204AL
Signal Format:	Monochrome Progressive	
Maximum Frame Rates:		
Full Scan	60 fps	30 fps
1/2 Partial	120 fps	60 fps
1/4 Partial	240 fps	120 fps
Active Picture Element:		
Full	640(H) x 480(V)	1024(H) x 768(V)
1/2 Partial	640(H) x 224(V)	1024(H) x 344(V)
1/4 Partial	640(H) x 80(V)	1024(H) x 136(V)
Chip Size (mm):	5.79 (H) x 4.89 (V)	5.80 (H) x 4.92 (V)
Cell Size (µm):	7.40 (H) x 7.40 (V)	4.65 (H) x 4.65 (V)
Pixel Clock Frequencies:	24.5454MHz	29.5MHz
Trigger Controls:	Integration End Signal, Readout Signal Ctrl., HD Trigger Timing Ctrl.	
Scanning Methods:	Full Progressive, Partial scanning (1/1, 1/2, 1/4), Binning	
Sync System:	Internal Sync	
Shutter Speed:	Auto / Fixed (Software Selectable, Values set via Software)	
Minimum Illumination:	0.08 Lux @ F1.2, 20 IRE 0.07 Lux @ F1.2, 50 IRE	0.06 Lux @ F1.2, 20 IRE 0.11 Lux @ F1.2, 50 IRE
Extended Low Light:	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	
Connectors:	Standard USB (Lock Down Type Available)	
Shock and Vibration:	Vibration: 10G (20 to 200Hz), Shock: 70G (3 directions, 3 times each)	
Input Voltage:	+5V through USB port	
Power Consumption:	1.75W, < 350mA	1.60W, < 320mA
Operating Temperature:	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature:	-30°C ~ 65°C (-22°F ~ 149°F)	
Dimensions:	Cased: 51 (W) x 51 (H) x 44.3 (D) mm (2" x 2" x 1.74") Board: 45 (W) x 45 (W) x Var. (D) mm (1.77" x 1.77" x Var.)	
Weight:	Cased: 145g (5.11oz.), Board: 45g (1.58oz)	

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STC-TB152/202USB

USB 2.0 Monochrome Cameras



STC-TB152USB (SXGA, 19 fps, 1.3MP)
STC-TB202USB (UXGA, 15 fps, 2MP)

The STC-TB152USB & STC-TB202USB are compact, progressive scan, SXGA and UXGA USB cameras with a 1/2" and 1/1.8" monochrome CCD, featuring 19 fps (SXGA) and 15 fps (UXGA), software 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, DirectX, Twain, Linux & NI LabView™ Drivers, as well as the Sentech Viewing Software.

FEATURES

- SXGA (19 fps), UXGA (15 fps)
- USB 2.0
- SOFTWARE AND HARDWARE TRIGGER
- 1/2" AND 1/1.8" MONOCHROME CCD
- COMPACT SIZE:
CASED: 51(W) x 51(H) x 44.3(D) mm
BOARD: 45(W) x 45(H) x VARIABLE (D) mm
- SENTECH SDK (STANDARD AND TRIGGER)
- DIRECTX, TWAIN, LINUX & NI LABVIEW™ DRIVERS
- SENTECH VIEWING SOFTWARE
- OPERATING SYSTEMS: 2000, XP, VISTA, LINUX

Available Models

Cased Cameras (A)

STC-TB152USB-AS
STC-TB152USB-AT

STC-TB202USB-AS
STC-TB202USB-AT

Board Cameras (B)

STC-TB152USB-BS
STC-TB152USB-BT
STC-TB152USB-BSL
STC-TB152USB-BTL
STC-TB152USB-BSCS
STC-TB152USB-BTCS

STC-TB202USB-BS
STC-TB202USB-BT
STC-TB202USB-BSL
STC-TB202USB-BTL
STC-TB202USB-BSCS
STC-TB202USB-BTCS

Note: See pages 42-43 for model configurations.

Accessories

See pages 42

B/W USB 2.0

SXGA (1.3MP) & UXGA (2MP)

w/ EXTENDED LOW LIGHT IMAGING



Models	STC-TB152USB	STC-TB202USB
Resolution:	SXGA (1.3 MegaPixel)	UXGA (2 MegaPixel)
Imager Sensor:	1/2" Interline CCD: ICX205AL	1/1.8" Interline CCD: ICX274AL
Signal Format:	Monochrome Progressive	
Maximum Frame Rates:		
Full Scan	19 fps	15 fps
1/2 Partial	38 fps	30 fps
1/4 Partial	77 fps	60 fps
Active Picture Element:		
Full	1280 (H) x 1024 (V)	1600(H) x 1200(V)
1/2 Partial	1280 (H) x 476 (V)	1600(H) x 544(V)
1/4 Partial	1280 (H) x 184 (V)	1600(H) x 208(V)
Chip Size (mm):	7.60 (H) x 6.20(V)	8.50 (H) x 6.80 (V)
Cell Size (µm):	4.65 (H) x 4.65 (V)	4.40 (H) x 4.40 (V)
Pixel Clock Frequencies:	36.818MHz	36.818MHz
Trigger Controls:	Integration End Signal, Readout Signal Ctrl., HD Trigger Timing Ctrl.	
Scanning Methods:	Full Progressive, Partial scanning (1/1, 1/2, 1/4), Binning	
Sync System:	Internal Sync	
Shutter Speed:	Auto / Fixed (Software Selectable, Values set via Software)	
Minimum Illumination:	0.06 Lux @ F1.2, 20 IRE 0.12 Lux @ F1.2, 50 IRE	0.04 Lux @ F1.2, 20 IRE 0.11 Lux @ F1.2, 50 IRE
Extended Low Light:	Extended Low Light Capability via Software Trigger	
Gain:	Analog & Digital Gains (Able to be set independently)	
Gamma:	Fixed Values (Set via Software)	
Lens Mount:	C Mount	
White Balance:	Auto / Manual / One-shot	
Video Output:	USB 2.0 High Speed	
Connectors:	Standard USB (Lock Down Type Available)	
Shock and Vibration:	Vibration: 10G (20 to 200Hz), Shock: 70G (3 directions, 3 times each)	
Input Voltage:	+5 V through USB port	
Power Consumption:	2.25W, < 450mA	2.80W, < 560mA
Operating Temperature:	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature:	-30°C ~ 65°C (-22°F ~ 149°F)	
Dimensions:	Cased: 51 (W) x 51 (H) x 44.3 (D) mm (2" x 2" x 1.74") Board: 45 (W) x 45 (W) x Var. (D) mm (1.77" x 1.77" x Var.)	
Weight:	Cased: 145g (5.11oz.), Board: 45g (1.58oz)	

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Available Models

Cased Cameras (A)

STC-TB33USB-ASH
STC-TB83USB-ASH

Board Cameras (B)

STC-TB33USB-B5
STC-TB33USB-BT
STC-TB33USB-B5L
STC-TB33USB-BTL
STC-TB33USB-B5CS
STC-TB33USB-BTCS

STC-TB83USB-B5
STC-TB83USB-BT
STC-TB83USB-B5L
STC-TB83USB-BTL
STC-TB83USB-B5CS
STC-TB83USB-BTCS

Note: See pages 42-43 for model configurations.

Accessories

Cables

CAB-6USB A-M
CAB-6USB A-M Lock

Lenses

Various CS-Mount Lenses
Various C-Mount Lenses
Various Telecentric Lenses

Lens Mount

C-Adapter

STC-TB33/83USB-ASH

USB 2.0 Monochrome Cameras



New!



STC-TB33USB-ASH (VGA, 60 fps, 0.3MP)
STC-TB83USB-ASH (XGA, 30 fps, 0.8MP)

The Sentech "ASH" series is a USB camera designed for Machine Vision and extremely low light applications. In addition to all of the powerful camera control features of the Sentech USB cameras, the "ASH" (cased type) camera features full machine vision "triggering". This camera has both Pulse Width and Edge Preset triggers. These triggers can be supplied to the camera via external hardware or via software.

FEATURES

- VGA (60 fps), XGA (30 fps)
- USB 2.0
- 1/3" MONOCHROME CCD
- SOFTWARE AND HARDWARE TRIGGER
- TRIGGER CONTROLS
- 4 USER PROGRAMMABLE I/Os
- SENTECH SDK (STANDARD AND TRIGGER)
- DIRECTX, TWAIN, LINUX & NI LABVIEW™ DRIVERS
- SENTECH VIEWING SOFTWARE
- OPERATING SYSTEMS: 2000, XP, VISTA, LINUX

B/W USB 2.0

VGA (0.3MP) & XGA (0.8MP)
W/ HARDWARE & SOFTWARE TRIGGERING



Models	STC-TB33USB-ASH	STC-TB83USB-ASH
Resolution:	VGA Monochrome (0.3 MegaPixel)	XGA Monochrome (0.3 MegaPixel)
Imager Sensor:	1/3" Interline CCD: ICX424AL	1/3" Interline CCD: ICX204AL
Signal Format:	Monochrome Progressive	
Maximum Frame Rates:		
Full Scan	60 fps	30 fps
1/2 Partial	120 fps	60 fps
1/4 Partial	240 fps	120 fps
Active Picture Element:		
Full	640(H) x 480(V)	1024(H) x 768(V)
1/2 Partial	640(H) x 224(V)	1024(H) x 344(V)
1/4 Partial	640(H) x 80(V)	1024(H) x 136(V)
Trigger Method:	Hardware and Software Trigger (Pulse Width and Edge Preset)	
Trigger Controls:	Integration End Signal, Readout Signal Ctrl., HD Trigger Timing Ctrl.	
I/O Ports:	4 Programmable Input / Output Ports (2 Input Ports & 2 Output Ports)	
Pixel Clock Frequencies:	24.5454MHz	29.5MHz
Scanning Methods:	Full Progressive, Partial scanning (1/1, 1/2, 1/4), Binning	
Sync System:	Internal Sync	
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	0.06 Lux @ F1.2, 20 IRE 0.11 Lux @ F1.2, 50 IRE
Extended Low Light:	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	
Connectors:	Mini USB (Lock Down Type Available) & USB Signal on the 12 pin Hirose	
Shock and Vibration:	Vibration: 10G (20 to 200Hz), Shock: 70G (3 directions, 3 times each)	
Input Voltage:	+5V through USB port	
Power Consumption:	1.75W, < 350mA	1.60W, < 320mA
Operating Temperature:	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature:	-30°C ~ 65°C (-22°F ~ 149°F)	
Dimensions:	Cased: 50 (W) x 50 (H) x 40.8 (D) mm (1.96" x 1.96" x 1.60") Board: 45 (W) x 45 (W) x Var. (D) mm (1.77" x 1.77" x Var.)	
Weight:	Cased: 145g (5.11oz.), Board: 45g (1.58oz)	

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Available Models

Cased Cameras (A)

STC-TB33USB-ASH
STC-TB83USB-ASH

Board Cameras (B)

STC-TB152USB-BS
STC-TB152USB-BT
STC-TB152USB-BSL
STC-TB152USB-BTL
STC-TB152USB-BSCS
STC-TB152USB-BTCS

STC-TB202USB-BS
STC-TB202USB-BT
STC-TB202USB-BSL
STC-TB202USB-BTL
STC-TB202USB-BSCS
STC-TB202USB-BTCS

Note: See pages 42-43 for model configurations.

Accessories

Cables

CAB-6USB A-M
CAB-6USB A-M Lock

Lenses

Various CS-Mount Lenses
Various C-Mount Lenses
Various Telecentric Lenses

Lens Mount

C-Adapter

STC-TB152/202USB-ASH

USB 2.0 Monochrome Cameras



New!



STC-TC152USB-ASH (SXGA, 19 fps, 1.3MP)
STC-TC202USB-ASH (UXGA, 15 fps, 2MP)

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FEATURES

- SXGA (19 fps), UXGA (15 fps)
- USB 2.0
- 1/2" AND 1/1.8" MONOCHROME CCD
- SOFTWARE AND HARDWARE TRIGGER
- TRIGGER CONTROLS
- 4 USER PROGRAMMABLE I/Os
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- SENTECH VIEWING SOFTWARE
- OPERATING SYSTEMS: 2000, XP, VISTA, LINUX

B/W USB 2.0

SXGA (1.3MP) & UXGA (2MP)

W/ HARDWARE & SOFTWARE TRIGGERING



Models	STC-TB152USB-ASH	STC-TB202USB-ASH
Resolution:	SXGA (1.3 MegaPixel)	UXGA (2 MegaPixel)
Imager Sensor:	1/2" Interline CCD: ICX205AL	1/1.8" Interline CCD: ICX274AL
Signal Format:	Monochrome Progressive	
Maximum Frame Rates:		
Full Scan	19 fps	15 fps
1/2 Partial	38 fps	30 fps
1/4 Partial	77 fps	60 fps
Active Picture Element:		
Full	1280 (H) x 1024 (V)	1600(H) x 1200(V)
1/2 Partial	1280 (H) x 476 (V)	1600(H) x 544(V)
1/4 Partial	1280 (H) x 184 (V)	1600(H) x 208(V)
Trigger Method:	Hardware and Software Trigger (Pulse Width and Edge Preset)	
Trigger Controls:	Integration End Signal, Readout Signal Ctrl., HD Trigger Timing Ctrl.	
I/O Ports:	4 Programmable Input / Output Ports (2 Input Ports & 2 Output Ports)	
Pixel Clock Frequencies:	36.818MHz	36.818MHz
Scanning Methods:	Full Progressive, Partial scanning (1/1, 1/2, 1/4), Binning	
Sync System:	Internal Sync	
Shutter Speed:	Auto / Fixed (Software Selectable, Values set via Software)	
Minimum Illumination:	0.06 Lux @ F1.2, 20 IRE 0.12 Lux @ F1.2, 50 IRE	0.04 Lux @ F1.2, 20 IRE 0.11 Lux @ F1.2, 50 IRE
Extended Low Light:	Extended Low Light Capability via Software Trigger	
Gain:	Analog & Digital Gains (Able to be set independently)	
Gamma:	Fixed Values (Set via Software)	
Lens Mount:	C Mount	
White Balance:	Auto / Manual / One-shot	
Video Output:	USB 2.0 High Speed	
Connectors:	Mini USB (Lock Down Type Available) & USB Signal on the 12 pin Hirose	
Shock and Vibration:	Vibration: 10G (20 to 200Hz), Shock: 70G (3 directions, 3 times each)	
Input Voltage:	+5 V through USB port	
Power Consumption:	2.25W, < 450mA	2.80W, < 560mA
Operating Temperature:	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature:	-30°C ~ 65°C (-22°F ~ 149°F)	
Dimensions:	Cased: 50 (W) x 50 (H) x 40.8 (D) mm (1.96" x 1.96" x 1.60") Board: 45 (W) x 45 (W) x Var. (D) mm (1.77" x 1.77" x Var.)	
Weight:	Cased: 145g (5.11oz.), Board: 45g (1.58oz)	

USB 2.0 CAMERAS



Hard Trigger "ASH" Type



Standard "AS" Type



Standard "AT" Type



Standard "BS" Type
(Rear Shot)



Standard "BSL" Type
(Rear Shot)



Standard "BSCS" Type
(Front Shot)



Standard "BT" Type
(Front Shot)



Standard "BTL" Type
(Front Shot)



Standard "BTCS" Type
(Rear Shot)

Accessories

Lenses

Various CS-Mount Lenses
Various C-Mount Lenses
Various Telecentric Lenses



C-Mount Adapter
Mod# C-Ring

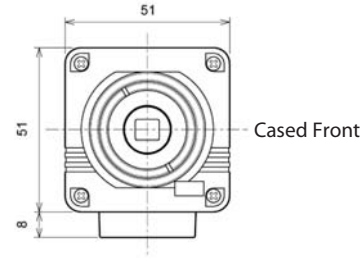


USB Lock Cable
Mod# CAB-6USB A-B Lock
Mod# CAB-6USB A-M Lock (Mini)

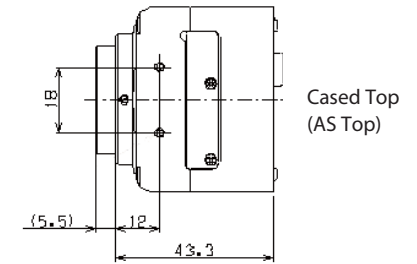


Standard USB Cable
Mod# CAB-6USB A-B
Mod# CAB-6USB A-M (Mini)

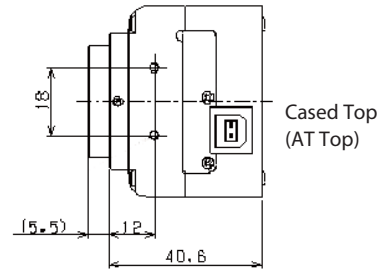
Mechanical Cased Drawings



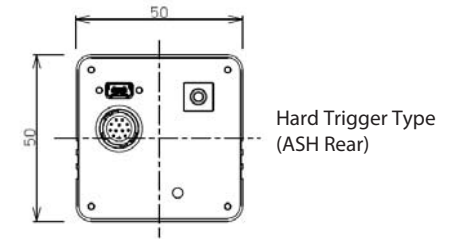
Cased Front



Cased Top
(AS Top)

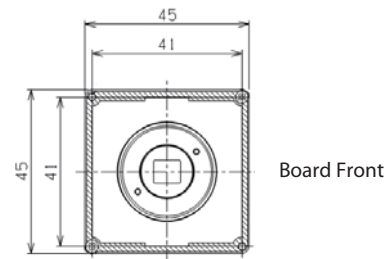


Cased Top
(AT Top)

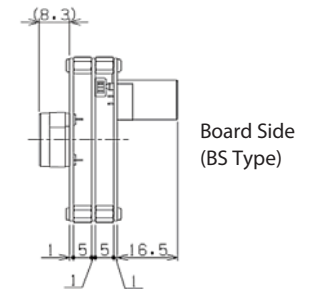


Hard Trigger Type
(ASH Rear)

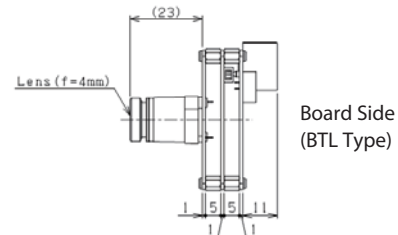
Mechanical Board Drawings



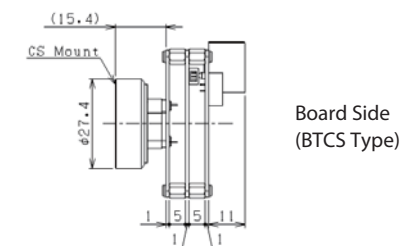
Board Front



Board Side
(BS Type)



Board Side
(BTL Type)



Board Side
(BTCS Type)

Advanced Measurement Software

For Sentech USB 2.0 Cameras

INTRODUCING A SOFTWARE SOLUTION
THAT WORKS FOR YOUR BUSINESS.

Features

MEASUREMENT CALIBRATION

Multiple value calibration available on 3 axes. Measurement tools include:

- Point-to-Point
- Line with Guides
- Dual Cross Hair
- Radius

ANNOTATION

Simple insertion of text, notes, labels, and markers during live video. Annotations can be recorded.

DRAWING

- Drawings can be recorded during video capture.
- Still images can be captured to include free-hand drawings.

FOOT PEDAL CONTROL

USB input foot pedal can be setup with the software for taking snapshots and/or start/stop video recording.

IMAGE CAPTURE & RECORDING

- Start/Stop Keystroke Control
- Image Capture with Thumbnails
- Incremental file naming based on selected presets (names, time stamps, consecutive numbering system).

The new Sentech Advance Measurement Software provides additional functions and features beyond the standard Sentech Viewing Software. This package provides the user with object Measurement and Calibration tools, simple Annotation and Drawing tools, multiple methods of video and image capture and storage with auto incrimination. The new Sentech Advanced Measurement Software also supports a programmable, two-button USB foot pedal which is offered as an optional accessory.

FREE

30 DAY TRIAL SOFTWARE

Products



SOF-MEAS

SOF-MEAS is Sentech's Advanced Measurement Software. This provides measurement and calibration tools, video and image capture, annotation and drawing tools. This package will also support optional USB foot pedal control.



COM-FS1

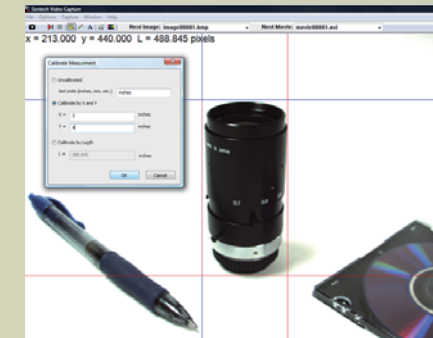
COM-FS1 is a USB Foot Pedal for use with the Sentech Advanced Measurement Software; has assignable dual pedal functionality.



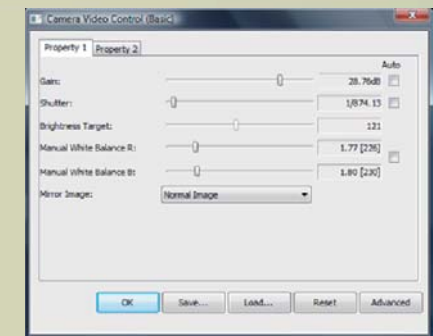
SOF-MEAS-FS

SOF-MEAS-FS is a combined package including the SOF-MEAS and the COM-FS1.

GUI Screen Shots



"Crosshairs" is one of the measurement tools available in the software. Screen shot unit of measure set to pixels.



Simple settings tab that is created for an end-user level. Advanced setting tab is available for an engineering level.

System Requirements: Windows XP SP2 (32bit) or Windows Vista (32bit)

Camera Requirements: Sentech USB Cameras

CAMERA LINK[®] CAMERAS



Remote Head Configuration

Mod# STC-RCL33A-C3
(See pp. 56-57)

- CAMERA LINK[®] DIGITAL OUTPUT
- HIGH FRAME RATE:
 - VGA (30, 60, 90 fps)
 - XGA (30 fps)
 - SXGA (15, 19 fps)
 - UXGA (15, 30 fps) Model Dependent
 - QSXGA (15 fps)
- COLOR OR MONOCHROME
- VERY SMALL (28 x 28 x 46.5mm)
(with Lens Mount & Connector)
- 2 TRIGGER MODES
(with Reset & Non-Reset)
 - PULSE WIDTH
 - EDGE PRESET
- COMMUNICATION RATES:
 - 9,600 BAUD STANDARD
 - 38,400 BAUD HI-SPEED
- TRIGGERING
 - OVER CL CABLE
 - OVER HIROSE CONNECTOR
- PARTIAL SCAN (1/2, 1/4, Variable)
- "ON THE FLY" PROGRAMMABILITY
- SQUARE PIXELS
- NI LABVIEW[™] COMPATIBLE

Full Specification Comparison Table on pages 50-51.

Color CameraLink[®] Cameras

STC-CLC33A (0.3 MegaPixel)

- 1/3" CCD - VGA
 - 30, 60, 90 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 58 & 59 FOR DETAILS.

STC-CLC152A (1.3 MegaPixel)

- 1/2" CCD - SXGA
 - 15 fps, 19 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 60 & 61 FOR DETAILS.

STC-CLC232A (2 MegaPixel)

- 1/1.8" CCD - UXGA
 - 30 fps (Full Resolution)
 - CUBE LIKE CAMERA (28 x 28 x 53.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 54 & 55 FOR DETAILS.

STC-CLC83A (0.8 MegaPixel)

- 1/3" CCD - XGA
 - 30 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 58 & 59 FOR DETAILS.

STC-CLC202A (2 MegaPixel)

- 1/1.8" CCD - UXGA
 - 15 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 60 & 61 FOR DETAILS.

STC-CLC500A (5 MegaPixel)

- 2/3" CCD - QSXGA
 - 15 fps (Full Resolution)
 - CUBE CAMERA (35 x 35 x 40.7mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 52 & 53 FOR DETAILS.

Monochrome CameraLink[®] Cameras

STC-CL33A (0.3 MegaPixel)

- 1/3" CCD - VGA
 - 30, 60, 90 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 62 & 63 FOR DETAILS.

STC-CL152A (1.3 MegaPixel)

- 1/2" CCD - SXGA
 - 15 fps, 19 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 64 & 65 FOR DETAILS.

STC-CL232A (2 MegaPixel)

- 1/1.8" CCD - UXGA
 - 30 fps (Full Resolution)
 - CUBE LIKE CAMERA (28 x 28 x 53.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 54 & 55 FOR DETAILS.

STC-CL83A (0.8 MegaPixel)

- 1/3" CCD - VGA
 - 30 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 62 & 63 FOR DETAILS.

STC-CL202A (2 MegaPixel)

- 1/1.8" CCD - UXGA
 - 15 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 64 & 65 FOR DETAILS.

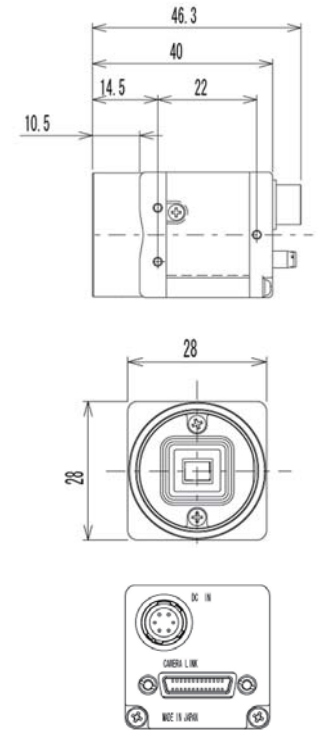
STC-CL500A (5 MegaPixel)

- 2/3" CCD - QSXGA
 - 15 fps (Full Resolution)
 - CUBE CAMERA (35 x 35 x 40.7mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 52 & 53 FOR DETAILS.

New!



POWER OVER CAMERALINK® CAMERAS



All Sentech CameraLink® Cameras are also available as a Power Over CameraLink® model. The physical back panels of the POCL and POCLC cameras are the same as the standard CameraLink® cameras.

All the features are the same as the standard units, except for the power delivery methods. See pp. 50-51

Color Power Over CameraLink® Cameras

STC-POCLC33A (0.3 MegaPixel)

- 1/3" CCD - VGA
 - 30, 60, 90 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 58 & 59 FOR DETAILS.

STC-POCLC83A (0.8 MegaPixel)

- 1/3" CCD - XGA
 - 30 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 58 & 59 FOR DETAILS.

STC-POCLC152A (1.3 MegaPixel)

- 1/2" CCD - SXGA
 - 15 fps, 19 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 60 & 61 FOR DETAILS.

STC-POCLC202A (2 MegaPixel)

- 1/1.8" CCD - UXGA
 - 15 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 60 & 61 FOR DETAILS.

STC-POCLC232A (2 MegaPixel)

- 1/1.8" CCD - UXGA
 - 30 fps (Full Resolution)
 - CUBE LIKE CAMERA (28 x 28 x 53.5mm)
 - C MOUNT
- SEE PAGES 54 & 55 FOR DETAILS.

STC-POCLC500A (5 MegaPixel)

- 2/3" CCD - QSXGA
 - 15 fps (Full Resolution)
 - CUBE CAMERA (35 x 35 x 40.7mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 52 & 53 FOR DETAILS.

Monochrome Power Over CameraLink®

STC-POCL33A (0.3 MegaPixel)

- 1/3" CCD - VGA
 - 30, 60, 90 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 62 & 63 FOR DETAILS.

STC-POCL83A (0.8 MegaPixel)

- 1/3" CCD - VGA
 - 30 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 62 & 63 FOR DETAILS.

STC-POCL152A (1.3 MegaPixel)

- 1/2" CCD - SXGA
 - 15 fps, 19 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 64 & 65 FOR DETAILS.

STC-POCL202A (2 MegaPixel)

- 1/1.8" CCD - UXGA
 - 15 fps (Full Resolution)
 - CUBE CAMERA (28 x 28 x 46.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 64 & 65 FOR DETAILS.

STC-POCL232A (2 MegaPixel)

- 1/1.8" CCD - UXGA
 - 30 fps (Full Resolution)
 - CUBE LIKE CAMERA (28 x 28 x 53.5mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 54 & 55 FOR DETAILS.

STC-POCL500A (5 MegaPixel)

- 2/3" CCD - QSXGA
 - 15 fps (Full Resolution)
 - CUBE CAMERA (35 x 35 x 40.7mm)
 - w/ OR w/o I/R FILTER
- SEE PAGES 52 & 53 FOR DETAILS.

Comparison Chart

Sentech CameraLink® Cube Cameras



Models	Monochrome Color	STC-CL33A STC-CLC33A	STC-RCL33A STC-RCLC33A	STC-CL83A STC-CLC83A
Resolution:	VGA (0.3MP)		XGA (0.8MP)	
Image Sensor:	1/3" Interline CCD			
Signal Format:	Monochrome or Color			
Frame Rate:	30, 60, 90 fps		30 fps	
Active Picture Element:	648 (H) x 494 (V)		1024 (H) x 768 (V)	
Chip Size (mm):	5.79(H) x 4.89(V)		5.80 (H) x 4.92 (V)	
Cell Size (µm):	7.4 (H) x 7.4 (V)		4.65 (H) x 4.65 (V)	
Vertical Frequency:	94.784Hz		29.59Hz	
Horizontal Frequency:	47.2028kHz		23.23kHz	
Horizontal Drive Frequency:	36.818MHz		29.5MHz	
Scanning Method:	Full Scan / Partial Scan (1/2, 1/4, Variable), Binning w/ B/W			
Sync System:	Internal / External (HD/VD)			
Communication:	RS232 via CameraLink® connector			
Trigger Shutter:	Pulse Width Trigger (V Reset, Non Reset) Edge Preset Trigger (V Reset, Non Reset)			
Shutter Speed:	OFF, 1/2 ~ 1/100,000 (Variable, can be set at every H and clock)			
Minimum Illumination:	0.12 Lux @ F1.2 (B/W) 0.13 Lux @ F1.2 (Color)		0.14 Lux @ F1.2 (B/W) 0.14 Lux @ F1.2 (Color)	
Gain:	Adjustable Fixed Gain (0 ~ 27dB)			
S/N Ratio:	≤ 10 Digit (Gain 0dB)			
Gamma:	1.0			
Lens Mount:	C Mount	M10.5 (P=0.5) w/ male threads	C Mount	
Video Output:	Digital 8 or 10 bit CameraLink® (Base Configuration)			
Optical Filter:	w/ or w/o IR cut Filter	No IR Filter		w/ or w/o IR cut Filter
Optical Center Accuracy:	Position accuracy of H and V direction: +/- 0.31mm, I2°			
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)			
Power:	12V DC +/- 10%			
Power Consumption:	< 1.8W, 150mA			
Operating Temperature:	-5°C ~ 50°C (23°F ~ 122°F)			
Storage Temperature:	-30°C ~ 65 °C (-22°F ~ 140°F)			
Dimensions (mm):	28 (W) x 28 (H) x 46.3 (D)	28 (W) x 28 (H) x 43 (D)	28 (W) x 28 (H) x 46.3 (D)	
Weight:	43g (1.51 oz.)	150g (5.29 oz.)	43g (1.51 oz.)	

STC-CL152A STC-CLC152A	STC-CL202A STC-CLC202A	STC-CL232A STC-CLC232A	STC-CL500A STC-CLC500A
SXGA (1.3MP)	UXGA (2MP)	UXGA (2MP)	QSXGA (5MP)
1/2" Interline CCD	1/1.8" Interline CCD	1/1.8" Interline CCD	2/3" Interline CCD
Monochrome or Color			
15, 19 fps	15 fps	30 fps	16 fps
1360 (H) x 1024 (V)	1620 (H) x 1220 (V)	1620 (H) x 1220 (V)	2448 (H) x 2058 (V)
7.60 (H) x 6.20 (V)	8.50(H) x 6.80(V)	8.50(H) x 6.80(V)	9.93 (H) x 8.70 (V)
4.65 (H) x 4.65 (V)	4.4 (H) x 4.4 (V)	4.4 (H) x 4.4 (V)	3.45 (H) x 3.45 (V)
19.3Hz	15.3164Hz	30.854Hz	16Hz
20.57kHz	19.176kHz	38.352kHz	33.264kHz
36.8181MHz	36.8181MHz	73.636MHz	64.0MHz
Full Scan / Partial Scan (1/2, 1/4, Variable), Binning w/ B/W			
Internal / External (HD/VD)			
RS232 via CameraLink® connector			
Pulse Width Trigger (V Reset, Non Reset) Edge Preset Trigger (V Reset, Non Reset)			
OFF, 1/2 ~ 1/100,000 (Variable, can be set at every H and clock)			See page 53
0.11 Lux @ F1.2 (B/W) 0.13 Lux @ F1.2 (Color)	0.06 Lux @ F1.2 (B/W) 0.08 Lux @ F1.2 (Color)	0.7 Lux @ F1.2 (B/W) 0.92 Lux @ F1.2 (Color)	0.14 Lux @ F1.2 (B/W) 0.14 Lux @ F1.2 (Color)
Adjustable Fixed Gain (0 ~ 27dB)		Adjustable Fixed Gain (0 ~ 25dB)	Adjustable Fixed Gain (0 ~ 25dB)
≤ 10 Digit (Gain 0dB)		≤ 15 Digit (Gain 0dB)	See page 53
1.0			
C Mount			
Digital 8 or 10 bit CameraLink® (Base Configuration)			Digital 8/10/12 Bit CameraLink®, 2 taps
w/ or w/o IR cut Filter			
Position accuracy of H and V direction: +/- 0.31mm, I2°			
Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)			
12V DC +/- 10%			
< 2.5W, 208mA	< 3.0W, 250mA	< 3.6W, 300mA	
-5°C ~ 50°C (23°F ~ 122°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 40°C (23°F ~ 104°F)	
-30°C ~ 65 °C (-22°F ~ 140°F)			
28 (W) x 28 (H) x 46.3 (D)		28 (W) x 28 (H) x 53.5 (D)	35 (W) x 35 (H) x 40.7 (D)
43g (1.51 oz.)	43g (1.51 oz.)	65.5g (2.31 oz.)	80g (2.82oz.)

Sentech America
1345 Valwood Parkway
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Telephone:
(972) 481-9223
Fax:
(972) 481-9209



STC-CL500A/CLC500A

CameraLink® Cameras

New!



STC-CL500A (B/W QSXGA, 15 fps, 5MP)
STC-CLC500A (Color QSXGA, 15 fps, 5MP)

The STC-CL500A/STC-CLC500A is a full featured, cost effective QSXGA digital CameraLink cube camera. This camera delivers a full 5M Pixels resolution at 15 fps. It has a 2/3" CCD with RGB Primary Color Filter for Color or a Monochrome version both of which feature partial scanning and triggering.

FEATURES

- 5 MEGAPIXEL QSXGA AT 15 fps
- COLOR OR MONOCHROME
- 8/10/12 BIT DIGITAL CAMERA LINK®
- PARTIAL SCANNING CAPABILITIES
- TRIGGERING CAPABILITIES
- BINNING (B/W MODEL ONLY)
- COMMUNICATION RATE:
 - 9,600 BAUD STANDARD
 - 38,400 BAUD HIGH SPEED
- COMPACT SIZE:
 - 35(W) x 35(H) x 40.7(D) mm

CAMERA LINK® MONOCHROME & COLOR

5 MEGAPIXEL QSXGA 15 FPS



Models	STC-CL500A	STC-CLC500A
Resolution:	QSXGA (5 MegaPixel)	
Image Sensor:	2/3" interline CCD: ICX625AL	2/3" interline CCD: ICX625AQ
Signal Format:	Monochrome Progressive	Color Progressive
Frame Rate:	16 fps	
Active Picture Element:	2448 (H) x 2058 (V)	
Chip Size (mm):	9.93 (H) x 8.70 (V)	
Cell Size (µm):	3.45 (H) x 3.45 (V)	
Vertical Frequency:	16Hz	
Horizontal Frequency:	33.264kHz	
Horizontal Drive Frequency:	64.0MHz	
Scanning Method:	Full Scan / Partial Scan (1/2, 1/4, Variable), Binning w/ B/W	
Sync System:	Internal / External (HD/VD)	
Communications:	RS232 via CameraLink® connector	
Trigger Shutter:	Pulse Width Trigger (V Reset, Non Reset) Edge Preset Trigger (V Reset, Non Reset)	
Shutter Speed:	OFF, 1/8 to 1/209,000 sec. (Variable at every H and clock)	
Minimum Illumination:	0.14 Lux @ F1.2, 50 IRE	
Gain:	Adjustable Fixed Gain (0 ~ 25dB)	
S/N Ratio:	8bit output: ≤ 4 Digit (Gain 0dB) 10bit output: ≤ 15 Digit (Gain 0dB) 12bit output: ≤ 60 Digit (Gain 0dB)	
Gamma:	1.0	
Lens Mount:	C Mount	
Video Output:	Digital 8/10/12 bit CameraLink® (Base Configuration), 2 taps	
Optical Filter:	w/ or w/o IR Filter	
Optical Center Accuracy:	Position accuracy of H and V direction: +/- 0.31mm	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power:	12V DC +/- 10%	
Power Consumption:	< 3.6W, 300mA	
Operation Temperature:	-5°C ~ 40°C (23°F ~ 104°F)	
Storage Temperature:	-30°C ~ 65 °C (-22°F ~ 140°F)	
Dimensions:	35(W) x 35(H) x 40.7*(D) mm (1.37" x 1.37" x 1.60") *C-Mount to end of the connector	
Weight:	80g (2.82 oz.)	

Accessories

Cables

Standard to Mini
CAB-CL2M-MINI
CAB-CL3M-MINI
CAB-CL5M-MINI
CAB-CL10M-MINI

Mini to Mini
CAB-CL2M-M2M
CAB-CL3M-M2M
CAB-CL5M-M2M
CAB-CL10M-M2M

Lenses

Various C-Mount Lenses
Various Mega-Pixel Lenses
Various Telecentric Lenses

Tripod Mount

TP-HCA



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Accessories

Cables

Standard to Mini
CAB-CL2M-MINI
CAB-CL3M-MINI
CAB-CL5M-MINI
CAB-CL10M-MINI

Mini to Mini
CAB-CL2M-M2M
CAB-CL3M-M2M
CAB-CL5M-M2M
CAB-CL10M-M2M

Lenses

Various C-Mount Lenses
Various Mega-Pixel Lenses
Various Telecentric Lenses

Tripod Mount

TP-HCA

STC-CL232A/CLC232A

CameraLink® Cameras

New!



STC-CL232A (B/W UXGA, 30 fps, 2MP)
STC-CLC232A (Color UXGA, 30 fps, 2MP)

The STC-CL232A/STC-CLC232A is a full featured, cost effective UXGA digital CameraLink cube camera. This camera delivers a full 2M Pixels resolution at 30 fps. It has a 1/1.8" CCD with RGB Primary Color Filter for Color or a Monochrome version both of which feature partial scanning and triggering.

FEATURES

- 2 MEGAPIXEL UXGA AT 30 fps Full Resolution
- COLOR OR MONOCHROME
- 8/10 BIT DIGITAL CAMERALINK®
- PARTIAL SCANNING CAPABILITIES
- TRIGGERING CAPABILITIES
- BINNING (B/W MODEL ONLY)
- COMMUNICATION RATE:
 - 9,600 BAUD STANDARD
 - 38,400 BAUD HIGH SPEED
- COMPACT SIZE:
 - 28(W) x 28(H) x 53.5(D) mm

CAMERALINK® MONOCHROME & COLOR

2 MEGAPIXEL UXGA 30 FPS



Models	STC-CL232A	STC-CLC232A
Resolution:	UXGA (2 MegaPixel)	UXGA (2 MegaPixel)
Image Sensor:	1/1.8" Interline CCD: ICX274AL	1/1.8" Interline CCD: ICX274AQ
Signal Format:	Monochrome Progressive	Color Progressive
Frame Rate:	30 fps	
Active Picture Element:	1620 (H) x 1220 (V)	
Chip Size (mm):	8.50 (H) x 6.80 (V)	
Cell Size (µm):	4.4 (H) x 4.4 (V)	
Vertical Frequency:	30.854Hz	
Horizontal Frequency:	38.352kHz	
Horizontal Drive Frequency:	73.636MHz	
Scanning Method:	Full Scan / Partial Scan (1/2, 1/4, Variable), Binning w/ B/W	
Sync System:	Internal / External (HD/VD)	
Communications:	RS232 via CameraLink® connector	
Trigger Shutter:	Pulse Width Trigger (V Reset, Non Reset) Edge Preset Trigger (V Reset, Non Reset)	
Shutter Speed:	OFF, 1/2 ~ 1/100,000 (Variable, can be set at every H and clock)	
Minimum Illumination:	0.7 Lux @ F1.2, 50 IRE	0.92 Lux @ F1.2, 50 IRE
Gain:	Adjustable Fixed Gain (0 ~ 25dB)	
S/N Ratio:	≤ 15 Digit (Gain 0dB)	
Gamma:	1.0	
Lens Mount:	C Mount	
Video Output:	Digital 8 or 10 bit CameraLink® (Base Configuration)	
Optical Filter:	w/ or w/o IR Filter	
Optical Center Accuracy:	Position accuracy of H and V direction: +/- 0.31mm	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power:	12V DC +/- 10%	
Power Consumption:	< 4.0W, 333mA	
Operation Temperature:	-5°C ~ 40°C (23°F ~ 104°F)	
Storage Temperature:	-30°C ~ 65°C (-22°F ~ 140°F)	
Dimensions:	28(W) x 28(H) x 53.5*(D) mm (1.1" x 1.1" x 2.1") *C-Mount to end of the connector	
Weight:	65.5g (2.31 oz.)	

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Accessories

Cables

Standard to Mini
CAB-CL2M-MINI
CAB-CL3M-MINI
CAB-CL5M-MINI
CAB-CL10M-MINI

Mini to Mini
CAB-CL2M-M2M
CAB-CL3M-M2M
CAB-CL5M-M2M
CAB-CL10M-M2M

Lenses

LEN-RCL33A-L3
LEN-RCL33A-L6
LEN-RCL33A-L16
LEN-RCL33A-L30

Tripod Mount

TP-HCA

Head Options



STC-RCL33A-R3
12 (W) x 12 (H) x 44(D) mm



STC-RCL33A-C3
17 (W) x 17 (H) x 10.5 (D) mm

STC-RCL33A/RCLC33A

CameraLink® Remote Head Cameras

New!



STC-RCL33A (B/W VGA, 30, 60, 90 fps, 0.3MP)
STC-RCLC33A (Color VGA, 30, 60, 90 fps, 0.3MP)

The STC-RCL33A/RCLC33A camera is a micro remote head VGA high speed machine vision CameraLink® camera. This series features two styles of remote head which allow the user to gain access to very small, tight spaces. This camera can output up to 90 fps, features full triggering, partial scan and can have communication rates up to 38,000 baud.

FEATURES

- VGA (30, 60, 90 fps)
- MONOCHROME OR COLOR DIGITAL CAMERA LINK®
- PARTIAL SCANNING CAPABILITIES
- TRIGGERING CAPABILITIES
- BINNING
- COMMUNICATION RATE:
 - 9,600 BAUD STANDARD
 - 38,400 BAUD HIGH SPEED
- COMPACT SIZE:
28 (W) x 28 (H) x 43 (D) mm

REMOTE HEAD CAMERA LINK® MONOCHROME & COLOR

VGA (0.3MP)



Models	STC-RCL33A	STC-RCLC33A
Resolution:	VGA (0.3 MegaPixel)	
Image Sensor:	1/3" interline CCD: ICX424AL	1/3" interline CCD: ICX424AQ
Signal Format:	Monochrome Progressive	Color Progressive
Frame Rate:	30, 60, 90 fps	
Active Picture Element:	648 (H) x 494 (V)	
Chip Size (mm):	5.79(H) x 4.89(V)	
Cell Size (µm):	7.4 (H) x 7.4 (V)	
Vertical Frequency:	94.784Hz	
Horizontal Frequency:	47.2028kHz	
Horizontal Drive Frequency:	36.8181MHz	
Scanning Method:	Full Scan / Partial Scan (1/2, 1/4, Variable), Binning w/ B/W	
Sync System:	Internal / External (HD/VD)	
Communications:	RS232 via CameraLink® connector	
Trigger Shutter:	Pulse Width Trigger (V Reset, Non Reset) Edge Preset Trigger (V Reset, Non Reset)	
Shutter Speed:	OFF, 1/2 ~ 1/100,000 (Variable, can be set at every H and clock)	
Minimum Illumination:	0.12 Lux @ F1.2, 50 IRE	0.13 Lux @ F1.2, 50 IRE
Gain:	Adjustable Fixed Gain (0 ~ 27dB)	
S/N Ratio:	≤ 10 Digit (Gain 0dB)	
Gamma:	1.0	
Lens Mount:	M10.5 (P=0.5) w/ male threads	
Video Output:	Digital 8 or 10 bit CameraLink® (Base Configuration)	
Optical Filter:	No IR Filter	
Optical Center Accuracy:	Position accuracy of H and V direction: +/- 0.31mm	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power:	12V DC +/- 10%	
Power Consumption:	< 1.8W, 150mA	
Operation Temperature:	-5°C ~ 50°C (23°F ~ 122°F)	
Storage Temperature:	-30°C ~ 65 °C (-22°F ~ 140°F)	
CCU Dimensions:	28 (W) x 28 (H) x 43* (D) mm (1.1" x 1.1" x 1.7") *C-Mount to end of the connector	
Weight:	150g (5.29 oz.)	

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Accessories

Cables

Standard to Mini
CAB-CL2M-MINI
CAB-CL3M-MINI
CAB-CL5M-MINI
CAB-CL10M-MINI

Mini to Mini
CAB-CL2M-M2M
CAB-CL3M-M2M
CAB-CL5M-M2M
CAB-CL10M-M2M

Lenses

Various C-Mount Lenses
Various Mega-Pixel Lenses
Various Telecentric Lenses

Tripod Mount

TP-HCA

STC-CLC33A/83A

CameraLink® Color Cube Cameras



STC-CLC33A (VGA, 30, 60, 90 fps, 0.3MP)
STC-CLC83A (XGA, 30 fps, 0.8MP)

The STC-CLC33A and STC-CLC83A Color cameras are full featured CameraLink® machine vision cameras. Their small size 28 x 28 x 46.3mm allows them to fit into the tightest physical configurations. This series offers B/W and Color versions for both VGA and XGA sensors.

FEATURES

- VGA (30, 60, 90 fps) & XGA (30 fps)
- COLOR DIGITAL CAMERA LINK®
- PARTIAL SCANNING CAPABILITIES
- TRIGGERING CAPABILITIES
- COMMUNICATION RATE:
 - 9,600 BAUD STANDARD
 - 38,400 BAUD HIGH SPEED
- COMPACT SIZE:
 - 28(W) x 28(H) x 46.3(D) mm

CAMERA LINK® COLOR

VGA (0.3MP) & XGA (0.8MP)



Models	STC-CLC33A	STC-CLC83A
Resolution:	VGA (0.3 MegaPixel)	XGA (0.8 MegaPixel)
Image Sensor:	1/3" interline CCD: ICX424AQ	1/3" interline CCD: ICX204AK
Signal Format:	Color Progressive	
Frame Rate:	30, 60, 90 fps	30 fps
Active Picture Element:	648 (H) x 494 (V)	1024 (H) x 768 (V)
Chip Size (mm):	5.79(H) x 4.89(V)	5.80 (H) x 4.92 (V)
Cell Size (µm):	7.4 (H) x 7.4 (V)	4.65 (H) x 4.65 (V)
Vertical Frequency:	94.784Hz	29.2Hz
Horizontal Frequency:	47.2028kHz	23.23kHz
Horizontal Drive Frequency:	36.8181MHz	29.5MHz
Scanning Method:	Full Scan / Partial Scan (1/2, 1/4, Variable)	
Sync System:	Internal / External (HD/VD)	
Communications:	RS232 via CameraLink® connector	
Trigger Shutter:	Pulse Width Trigger (V Reset, Non Reset) Edge Preset Trigger (V Reset, Non Reset)	
Shutter Speed:	OFF, 1/2 ~ 1/100,000 (Variable, can be set at every H and clock)	
Minimum Illumination:	0.13 Lux @ F1.2, 50 IRE	0.14 Lux @ F1.2, 50 IRE
Gain:	Adjustable Fixed Gain (0 ~ 27dB)	
S/N Ratio:	≤ 10 Digit (Gain 0dB)	
Gamma:	1.0	
Lens Mount:	C Mount	
Video Output:	Digital 8 or 10 bit CameraLink® (Base Configuration)	
Optical Filter:	w/ or w/o IR Filter	
Optical Center Accuracy:	Position accuracy of H and V direction: +/- 0.31 mm	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power:	12V DC +/- 10%	
Power Consumption:	< 1.8W, 150mA	
Operation Temperature:	-5°C ~ 50°C (23°F ~ 122°F)	
Storage Temperature:	-30°C ~ 65 °C (-22°F ~ 140°F)	
Dimensions:	28 (W) x 28 (H) x 46.3* (D) mm (1.1" x 1.1" x 1.8") *C-Mount to end of the connector	
Weight:	43g (1.51 oz.)	

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STC-CLC152A/202A

CameraLink® Color Cube Cameras



STC-CLC152A (SXGA, 15, 19 fps, 1.3MP)
STC-CLC202A (UXGA, 15 fps, 2MP)

The STC-CLC152A and STC-CLC202A Color cameras are full featured CameraLink® machine vision cameras. Their small size 28 x 28 x 46.3mm allows them to fit into the tightest physical configurations. This series offers B/W and Color versions for both SXGA and UXGA sensors.

FEATURES

- SXGA (15, 19 fps) & UXGA (15 fps)
- COLOR DIGITAL CAMERA LINK®
- PARTIAL SCANNING CAPABILITIES
- TRIGGERING CAPABILITIES
- COMMUNICATION RATE:
 - 9,600 BAUD STANDARD
 - 38,400 BAUD HIGH SPEED
- COMPACT SIZE:
 - 28(W) x 28(H) x 46.3(D) mm

Accessories

Cables

Standard to Mini
CAB-CL2M-MINI
CAB-CL3M-MINI
CAB-CL5M-MINI
CAB-CL10M-MINI

Mini to Mini
CAB-CL2M-M2M
CAB-CL3M-M2M
CAB-CL5M-M2M
CAB-CL10M-M2M

Lenses

Various C-Mount Lenses
Various Mega-Pixel Lenses
Various Telecentric Lenses

Tripod Mount

TP-HCA

CAMERA LINK®

COLOR

SXGA (1.3MP) & UXGA (2MP)



Models	STC-CLC152A	STC-CLC202A
Resolution:	SXGA (1.3 MegaPixel)	UXGA (2 MegaPixel)
Image Sensor:	1/2" interline CCD: ICX205AK	1/1.8" interline CCD: ICX274AQ
Signal Format:	Color Progressive	
Frame Rate:	15, 19 fps	15 fps
Active Picture Element:	1360 (H) x 1024 (V)	1620 (H) x 1220 (V)
Chip Size (mm):	7.60 (H) x 6.20 (V)	8.50 (H) x 6.80 (V)
Cell Size (µm):	4.65 (H) x 4.65 (V)	4.4 (H) x 4.4 (V)
Vertical Frequency:	19.3Hz	15.3164Hz
Horizontal Frequency:	20.57kHz	19.176kHz
Horizontal Drive Frequency:	36.8181MHz	36.8181MHz
Scanning Method:	Full Scan / Partial Scan (1/2, 1/4, Variable)	
Sync System:	Internal / External (HD/VD)	
Communications:	RS232 via CameraLink® connector	
Trigger Shutter:	Pulse Width Trigger (V Reset, Non Reset) Edge Preset Trigger (V Reset, Non Reset)	
Shutter Speed:	OFF, 1/2 ~ 1/100,000 (Variable, can be set at every H and clock)	
Minimum Illumination:	0.13 Lux @ F1.2, 50 IRE	0.08 Lux @ F1.2, 50 IRE
Gain:	Adjustable Fixed Gain (0 ~ 27dB)	
S/N Ratio:	≤ 10 Digit (Gain 0dB)	
Gamma:	1.0	
Lens Mount:	C Mount	
Video Output:	Digital 8 or 10 bit CameraLink® (Base Configuration)	
Optical Filter:	w/ or w/o IR Filter	
Optical Center Accuracy:	Position accuracy of H and V direction: +/- 0.31 mm	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power:	12V DC +/- 10%	
Power Consumption:	< 2.5W, 208mA	< 3.0W, 250mA
Operation Temperature:	-5°C ~ 45°C (23°F ~ 113°F)	
Storage Temperature:	-30°C ~ 65°C (-22°F ~ 140°F)	
Dimensions:	28 (W) x 28 (H) x 46.3* (D) mm (1.1" x 1.1" x 1.8") *C-Mount to end of the connector	
Weight:	43g (1.51 oz.)	

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STC-CL33A/83A

CameraLink® B/W Cube Cameras



STC-CL33A (VGA, 30, 60, 90 fps, 0.3MP)
STC-CL83A (XGA, 30 fps, 0.8MP)

STC-CL33A & STC-CL83A Monochrome cameras are full featured CameraLink® machine vision cameras. Their small size 28 x 28 x 46.3mm allows them to fit into the tightest physical configurations. This series offers B/W and Color versions for both VGA and XGA sensors.

FEATURES

- VGA (30, 60, 90 fps) & XGA (30 fps)
- MONOCHROME DIGITAL CAMERA LINK®
- PARTIAL SCANNING CAPABILITIES
- TRIGGERING CAPABILITIES
- BINNING
- COMMUNICATION RATE:
 - 9,600 BAUD STANDARD
 - 38,400 BAUD HIGH SPEED
- COMPACT SIZE:
 - 28(W) x 28(H) x 46.3(D) mm

Accessories

Cables

Standard to Mini
CAB-CL2M-MINI
CAB-CL3M-MINI
CAB-CL5M-MINI
CAB-CL10M-MINI

Mini to Mini
CAB-CL2M-M2M
CAB-CL3M-M2M
CAB-CL5M-M2M
CAB-CL10M-M2M

Lenses

Various C-Mount Lenses
Various Mega-Pixel Lenses
Various Telecentric Lenses

Tripod Mount

TP-HCA

CAMERA LINK® MONOCHROME VGA (0.3MP) & XGA (0.8MP)



Models	STC-CL33A	STC-CL83A
Resolution:	VGA (0.3 MegaPixel)	XGA (0.8 MegaPixel)
Image Sensor:	1/3" interline CCD: ICX424AL	1/3" interline CCD: ICX204AL
Signal Format:	Monochrome Progressive	
Frame Rate:	30, 60, 90 fps	30 fps
Active Picture Element:	648 (H) x 494 (V)	1024 (H) x 768 (V)
Chip Size (mm):	5.79(H) x 4.89(V)	5.80 (H) x 4.92 (V)
Cell Size (µm):	7.4 (H) x 7.4 (V)	4.65 (H) x 4.65 (V)
Vertical Frequency:	94.784Hz	29.2Hz
Horizontal Frequency:	47.2028kHz	23.23kHz
Horizontal Drive Frequency:	36.8181MHz	29.5MHz
Scanning Method:	Full Scan / Partial Scan (1/2, 1/4, Variable), Binning	
Sync System:	Internal / External (HD/VD)	
Communications:	RS232 via CameraLink® connector	
Trigger Shutter:	Pulse Width Trigger (V Reset, Non Reset) Edge Preset Trigger (V Reset, Non Reset)	
Shutter Speed:	OFF, 1/2 ~ 1/100,000 (Variable, can be set at every H and clock)	
Minimum Illumination:	0.12 Lux @ F1.2, 50 IRE	0.14 Lux @ F1.2, 50 IRE
Gain:	Adjustable Fixed Gain (0 ~ 27dB)	
S/N Ratio:	≤ 10 Digit (Gain 0dB)	
Gamma:	1.0	
Lens Mount:	C Mount	
Video Output:	Digital 8 or 10 bit CameraLink® (Base Configuration)	
Optical Filter:	w/ or w/o IR Filter	
Optical Center Accuracy:	Position accuracy of H and V direction: +/- 0.31 mm	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power:	12V DC +/- 10%	
Power Consumption:	< 1.8W, 150mA	
Operation Temperature:	-5°C ~ 50°C (23°F ~ 122°F)	
Storage Temperature:	-30°C ~ 65 °C (-22°F ~ 140°F)	
Dimensions:	28 (W) x 28 (H) x 46.3* (D) mm (1.1" x 1.1" x 1.8") *C-Mount to end of the connector	
Weight:	43g (1.51 oz.)	

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STC-CL152A/202A

CameraLink® B/W Cube Cameras



STC-CL152A (SXGA, 15, 19 fps, 1.3MP)
STC-CL202A (UXGA, 15 fps, 2MP)

STC-CL152A & STC-CL202A Monochrome cameras are full featured CameraLink® machine vision cameras. Their small size 28 x 28 x 46.3mm allows them to fit into the tightest physical configurations. This series offers B/W and Color versions for both SXGA and UXGA sensors.

FEATURES

- SXGA (15, 19 fps) & UXGA (15 fps)
- MONOCHROME DIGITAL CAMERA LINK®
- PARTIAL SCANNING CAPABILITIES
- TRIGGERING CAPABILITIES
- BINNING
- COMMUNICATION RATE:
 - 9,600 BAUD STANDARD
 - 38,400 BAUD HIGH SPEED
- COMPACT SIZE:
28(W) x 28(H) x 46.3(D) mm

Accessories

Cables

Standard to Mini
CAB-CL2M-MINI
CAB-CL3M-MINI
CAB-CL5M-MINI
CAB-CL10M-MINI

Mini to Mini
CAB-CL2M-M2M
CAB-CL3M-M2M
CAB-CL5M-M2M
CAB-CL10M-M2M

Lenses

Various C-Mount Lenses
Various Mega-Pixel Lenses
Various Telecentric Lenses

Tripod Mount

TP-HCA

CAMERA LINK® MONOCHROME SXGA (1.3MP) & UXGA (2MP)



Models	STC-CL152A	STC-CL202A
Resolution:	SXGA (1.3 MegaPixel)	UXGA (2 MegaPixel)
Image Sensor:	1/2" interline CCD: ICX205AL	1/1.8" interline CCD: ICX274AL
Signal Format:	Monochrome Progressive	
Frame Rate:	15, 19 fps	15 fps
Active Picture Element:	1360 (H) x 1024 (V)	1620 (H) x 1220 (V)
Chip Size (mm):	7.60 (H) x 6.20 (V)	8.50 (H) x 6.80 (V)
Cell Size (µm):	4.65 (H) x 4.65 (V)	4.4 (H) x 4.4 (V)
Vertical Frequency:	19.3Hz	15.3164Hz
Horizontal Frequency:	20.57kHz	19.176kHz
Horizontal Drive Frequency:	36.8181MHz	36.8181MHz
Scanning Method:	Full Scan / Partial Scan (1/2, 1/4, Variable), Binning	
Sync System:	Internal / External (HD/VD)	
Communications:	RS232 via CameraLink® connector	
Trigger Shutter:	Pulse Width Trigger (V Reset, Non Reset) Edge Preset Trigger (V Reset, Non Reset)	
Shutter Speed:	OFF, 1/2 ~ 1/100,000 (Variable, can be set at every H and clock)	
Minimum Illumination:	0.11 Lux @ F1.2, 50 IRE	0.06 Lux @ F1.2, 50 IRE
Gain:	Adjustable Fixed Gain (0 ~ 27dB)	
S/N Ratio:	≤ 10 Digit (Gain 0dB)	
Gamma:	1.0	
Lens Mount:	C Mount	
Video Output:	Digital 8 or 10 bit CameraLink® (Base Configuration)	
Optical Filter:	w/ or w/o IR Filter	
Optical Center Accuracy:	Position accuracy of H and V direction: +/- 0.31mm	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power:	12V DC +/- 10%	
Power Consumption:	< 2.5W, 208mA	< 3.0W, 250mA
Operation Temperature:	-5°C ~ 45°C (23°F ~ 113°F)	
Storage Temperature:	-30°C ~ 65°C (-22°F ~ 140°F)	
Dimensions:	28 (W) x 28 (H) x 46.3* (D) mm (1.1" x 1.1" x 1.8") *C-Mount to end of the connector	
Weight:	43g (1.51 oz.)	

PROGRESSIVE SCAN ANALOG CAMERAS



Cube Camera "A" Series

- ANALOG OUTPUT
- HIGH SPEED FRAME RATE
 - VGA (30, 60, 90 fps)
 - XGA (30 fps)
 - SXGA (15, 19 fps)
 - UXGA (15 fps)
- VERY SMALL (1.1" x 1.1" x 1.8")
- RS232 COMMUNICATIONS
- 2 TRIGGER MODES (with Reset & Non-Reset)
 - PULSE WIDTH
 - EDGE PRESET
- PARTIAL SCAN (1/2, 1/4, Variable)
- AVAILABLE CONFIGURATIONS
 - CUBE
 - REMOTE HEAD
 - BOARD
- GAMMA = 0.45 OR 1.0
- SQUARE PIXELS



STC-SS1200 Remote Head Series



STC-33/83 Board Series

Full Specification Comparison Table on pages 68-69.

Progressive Scan Analog Cube Cameras

STC-A33A (0.3 MegaPixel)

- 1/3" CCD - VGA
- 30, 60, 90 fps (Full Resolution)
- CUBE CAMERA
- C MOUNT

SEE PAGES 70 & 71 FOR DETAILS.

STC-A83A (0.8 MegaPixel)

- 1/3" CCD - XGA
- 30 fps (Full Resolution)
- CUBE CAMERA
- C MOUNT

SEE PAGES 70 & 71 FOR DETAILS.

STC-A152A (1.3 MegaPixel)

- 1/2" CCD - SXGA
- 15, 30 fps (Full Resolution)
- CUBE CAMERA
- C MOUNT

SEE PAGES 72 & 73 FOR DETAILS.

STC-A202A (2 MegaPixel)

- 1/1.8" CCD - UXGA
- 15 fps (Full Resolution)
- CUBE CAMERA
- C MOUNT

SEE PAGES 72 & 73 FOR DETAILS.

Progressive Scan Analog Remote Head Cameras

STC-SS1200 (0.3 MegaPixel)

- 1/3" CCD - VGA
- 60 fps (Full Resolution)
- CASED CAMERA
- SUPER COMPACT REMOTE HEAD

SEE PAGES 74 & 75 FOR DETAILS.

STC-SS1200-90 (0.3 MegaPixel)

- 1/3" CCD - VGA
- 90 fps (Full Resolution)
- CASED CAMERA
- SUPER COMPACT REMOTE HEAD

SEE PAGES 74 & 75 FOR DETAILS.

Progressive Scan Analog Board Cameras

STC-33 (0.3 MegaPixel)

- 1/3" CCD - VGA
- 30, 60 fps (Full Resolution)
- BOARD CAMERA
- CS MOUNT

SEE PAGES 76 & 77 FOR DETAILS.

STC-83 (0.8 MegaPixel)

- 1/3" CCD - XGA
- 30 fps (Full Resolution)
- BOARD CAMERA
- CS MOUNT

SEE PAGES 76 & 77 FOR DETAILS.

Comparison Chart Sentech Progressive Scan Analog Cameras

Models	STC-A33A	STC-A83A	STC-A152A	STC-A202A
Type:	Cube			
Resolution:	VGA (0.3 MP)	XGA (0.8MP)	SXGA (1.3MP)	UXGA (2MP)
Image Sensor:	1/3" IT CCD	1/3" IT CCD	1/2" IT CCD	1/1.8" IT CCD
Signal Format:	Monochrome Progressive Analog			
Frame Rate:	30, 60, 90 fps	30 fps	15, 19 fps	15 fps
Effective Pic. Element:	659 (H) x 494 (V)	1034 (H) x 779 (V)	1392 (H) x 1040 (V)	1628 (H) x 1236 (V)
Active Picture Element:	648 (H) x 494 (V)	1024 (H) x 768 (V)	1360 (H) x 1040 (V)	1620 (H) x 1220 (V)
Chip Size (mm):	5.79(H) x 4.89(V)	5.80 (H) x 4.92 (V)	7.60(H) x 6.20(V)	8.50 (H) x 6.80 (V)
Cell Size (µm):	7.4 (H) x 7.4 (V)	4.65 (H) x 4.65 (V)	4.65 (H) x 4.65 (V)	4.4 (H) x 4.4 (V)
Vertical Frequency:	94.784Hz	29.59Hz	19.3Hz	15.3164Hz
Horizontal Drive Freq:	36.8181MHz	29.5MHz	36.8181MHz	
Horizontal Frequency:	47.2028kHz	23.23kHz	20.57kHz	19.176kHz
Scanning Method:	Full Scan, Partial Full Scan, Partial Scan (1/2, 1/4, Variable), Binning, Binning Partial Scan (1/1, 1/2, 1/4, Variable)			
Sync System:	Internal / External			
Communication:	RS232 via 12pin connector			
Trigger Shutter:	Edge Preset: V Reset, Non-Reset Pulse Width Trigger: V Reset, Non-Reset			
Shutter Speed:	Dip Switch: OFF, 1/200, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/8,000, 1/12,000 Communication: OFF, 1/2 to 1/100,000 (Variable at every H and Clock)			
Minimum Illumination:	0.14 Lux @ F1.2 50 IRE	0.17 Lux @ F1.2 50 IRE	0.16 Lux @ F1.2 50 IRE	0.07 Lux @ F1.2 50 IRE
Gain:	Manual (0 to 27 dB)			
S/N Ratio:	56dB (Gain 0dB)			
Gamma:	1.0 / 0.45			
Lens Mount:	C Mount			
Video Output:	1 V p-p, 75Ω DC Coupling (0V Clamp)			
Optical Filter:	No IR cut filter			
Optical Center Accuracy:	Position accuracy in H and V direction: +/- 0.31mm			
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)			
Power:	DC 12V +/- 10%			
Power Consumption:	< 1.8W, 150mA		< 2.2 W 183mA	< 3.0 W 250mA
Operating Temp.:	-5°C ~ 50°C (23°F ~ 122°F)			
Storage Temp.:	-30°C ~ 65°C (-21.9°F ~ 149°F)			
Dimensions:	28 (W) x 28 (H) x 46.3 (D) mm (1.12" x 1.12" x 1.8")			
Weight:	52g (1.8 oz.)			

STC-SS1200	STC-SS1200-90	STC-33	STC-83
Remote Head Cube		Board	
VGA (0.3 MP)		VGA (0.3 MP)	XGA (0.8MP)
1/3" IT CCD			
Monochrome Progressive Analog			
60 fps	90 fps	30, 60 fps	30 fps
659 (H) x 494 (V)	659 (H) x 494 (V)	659 (H) x 494 (V)	1034 (H) x 779 (V)
648 (H) x 494 (V)	648 (H) x 494 (V)	648 (H) x 494 (V)	1024 (H) x 768 (V)
5.79(H) x 4.89(V)	5.80 (H) x 4.92 (V)	5.79(H) x 4.89(V)	5.80 (H) x 4.92 (V)
7.4 (H) x 7.4 (V)	4.65 (H) x 4.65 (V)	7.4 (H) x 7.4 (V)	4.65 (H) x 4.65 (V)
59.94Hz	89.91Hz	29.97/59.94Hz	29.18Hz
24.5454MHz	36.818MHz	12.272/24.545Hz	14.75MHz
31.4685kHz	47.203kHz	15.734/31.468kHz	23.228kHz
Full Scan, Partial Full Scan, Partial Scan (1/2, 1/4), Binning, Binning Partial Scan (1/1, 1/2, 1/4)			
Internal / External (HD/VD) Automatically			
-	-	-	-
Edge Preset: V Reset, Non-Reset, Sync Reset, Restart-Reset Pulse Width Trigger: V Reset, Non-Reset, Sync Reset, Restart-Reset		Edge Preset Trigger (10 Steps) Pulse Width Trigger	
1/60 ~ 1/20,000 (8 Steps)	1/90 ~ 1/10,000 (8 Steps)	1/30 ~ 1/16,000 (10 steps) 1/60 ~ 1/32,000 (10 steps)	1/30 ~ 1/16,000 (10 steps)
1.82 Lux @ F1.2 50 IRE	1.64 Lux @ F1.2 50 IRE	0.14 Lux @ F1.2 50 IRE	0.17 Lux @ F1.2 50 IRE
AGC/Manual (4 to 24 dB)			
52dB (Gain 0dB)		50dB (Gain 0dB)	
0.45/1		1.0	
Special Mount (Male 10.5 Female P0.5)		CS-Mount	
1Vp-p, 75Ω			
No IR cut filter		N/A	
Position accuracy in H and V direction: +/- 0.31mm		N/A	
Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)			
DC 12V			
2.64W, ≤ 220 mA		1.44W, 120 mA	1.56W, 130 mA
-10°C ~ 45°C (14°F ~ 113°F)			
-30°C ~ 60°C (-22°F ~ 140°F)			
CCD Head: 20 (W) x 20 (H) x 25 (D) mm CCU: 110 (W) x 80 (H) x 28 (D) mm		30 (W) x 30 (H) x 32 (D) mm	
CCD Head: 80g (2.82 oz.) CCU: 150g (5.33 oz.)		27g (0.95 oz.)	

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Accessories

Cables

12W-0.45
12W-02, 03, 05

Connectors

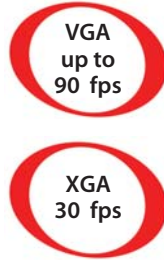
Hirose: HR10-10P-12S
Hirose: HR10-10R-12P

Lenses

Various C-Mount Lenses
Various Mega-Pixel Lenses
Various Telecentric Lenses

STC-A33A/A83A

Progressive Scan Cube Cameras

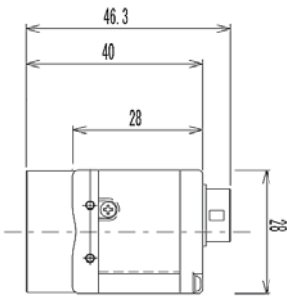


STC-A33A (VGA, 30, 60, 90 fps, 0.3MP)
STC-A83A (XGA, 90 fps, 0.8MP)

The STC-A33A/A83A models are very powerful analog out progressive scan machine vision cameras. These cameras are in a very small package of only 28(W) x 28(H) x 46.3(D) mm in size, including the C-Mount. This series features a VGA sensor with a scan rate of 30, 60, 90 fps, full resolution or with an XGA sensor with a scan rate of 30 fps.

FEATURES

- VGA (30, 60, 90 fps) AND XGA (30 fps)
- MONOCHROME
- HIGH SPEED TRIGGERING
- SQUARE PIXELS
- ANALOG OUTPUT
- COMMUNICATION: RS232C
- PARTIAL SCANNING
- COMPACT SIZE:
28(W) x 28(H) x 46.3(D) mm



ANALOG B/W PROGRESSIVE SCAN VGA (0.3MP) & XGA (0.8MP)



Models	STC-A33A	STC-A83A
Resolution:	VGA (0.3 MegaPixel)	XGA (0.8 MegaPixel)
Image Sensor:	1/3" Interline CCD: ICX424AL	1/3" Interline CCD: ICX204AL
Signal Format:	Monochrome Progressive Analog	
Frame Rate:	30, 60, 90 fps	30 fps
Active Picture Element:	648 (H) x 494 (V)	1024 (H) x 768 (V)
Chip Size (mm):	5.79(H) x 4.89(V)	5.80 (H) x 4.92 (V)
Cell Size (µm):	7.4 (H) x 7.4 (V)	4.65 (H) x 4.65 (V)
Vertical Frequency:	94.784Hz	29.59Hz
Horizontal Drive Freq:	36.8181MHz	29.5MHz
Horizontal Frequency:	47.2028kHz	23.23kHz
Scanning Method:	Full Scan, Partial Full Scan, Partial Scan (1/2, 1/4, Variable), Binning, Binning Partial Scan (1/1, 1/2, 1/4, Variable)	
Sync System:	Internal / External	
Communication:	RS232 via 12pin connector	
Trigger Shutter:	Edge Preset: V Rest, Non-Reset Pulse Width Trigger: V Reset, Non-Reset	
Shutter Speed:	- Dip Switch: OFF, 1/200, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/8,000, 1/12,000 - Communication: OFF, 1/2 to 1/100,000 (Variable at every H and Clock)	
Minimum Illumination:	0.14 Lux @ F1.2, 50 IRE	0.17 Lux @ F1.2, 50 IRE
Gain:	Manual (0 to 27 dB)	
S/N Ratio:	56dB (Gain 0dB)	
Gamma:	1.0 / 0.45	
Lens Mount:	C-Mount	
Video Output:	1 V p-p, 75Ω DC Coupling (0V Clamp)	
Optical Filter:	No IR cut filter	
Optical Center Accuracy:	Position accuracy in H and V direction: +/- 0.31mm	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power:	12V DC	
Power Consumption:	< 1.8W, 150mA	
Operating Temperature:	-5°C ~ 45°C (23°F ~ 113°F)	
Storage Temperature:	-30°C ~ 65°C (-21.9°F ~ 149°F)	
Dimensions:	28 (W) x 28 (H) x 46.3 (D) mm (1.1" x 1.1" x 1.8")	
Weight:	52g (1.8 oz.)	

Sentech America
1345 Valwood Parkway
Suite 320
Carrollton, TX 75006
USA

Toll Free:
(877) 736-8324
Telephone:
(972) 481-9223
Fax:
(972) 481-9209

Accessories

Cables

12W-0.45
12W-02, 03, 05

Connectors

Hirose: HR10-10P-12S
Hirose: HR10-10R-12P

Lenses

Various C-Mount Lenses
Various Mega-Pixel Lenses
Various Telecentric Lenses

STC-A152A/A202A

Progressive Scan Cube Cameras



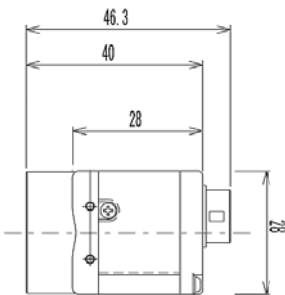
1.3 & 2MP
15 fps

STC-A152A (SXGA, 15, 19 fps, 1.3MP)
STC-A202A (UXGA, 15 fps, 2MP)

The STC-A152A & STC-A202A models are very powerful analog out progressive scan machine vision cameras. These cameras are in a very small package of only 28(W) x 28(H) x 40(D) mm in size, including the C-Mount. This series features a SXGA sensor and an UXGA sensor with a scan rate of 15 fps full resolution.

FEATURES

- SXGA (15, 19 fps) AND UXGA (15 fps)
- MONOCHROME
- HIGH SPEED TRIGGERING
- SQUARE PIXELS
- ANALOG OUTPUT
- COMMUNICATION: RS232C
- PARTIAL SCANNING
- COMPACT SIZE:
28(W) x 28(H) x 46.3(D) mm



ANALOG B/W PROGRESSIVE SCAN

SXGA (1.3MP) & UXGA (2MP)



Models	STC-A152A	STC-A202A
Resolution:	SXGA (1.3 MegaPixel)	UXGA (2 MegaPixel)
Image Sensor:	1/2" Interline CCD: ICX205AL	1/1.8" Interline CCD: ICX274AL
Signal Format:	Monochrome Progressive Analog	
Frame Rate:	15, 19 fps	15 fps
Active Picture Element:	1360 (H) x 1040 (V)	1620 (H) x 1220 (V)
Chip Size (mm):	7.60(H) x 6.20(V)	8.50 (H) x 6.80 (V)
Cell Size (µm):	4.65 (H) x 4.65 (V)	4.4 (H) x 4.4 (V)
Vertical Frequency:	19.3Hz @ 19 fps	15.3164Hz
Horizontal Drive Freq:	36.8181MHz	
Horizontal Frequency:	20.57kHz @ 19 fps	19.176kHz
Scanning Method:	Full Scan, Partial Full Scan, Partial Scan (1/2, 1/4, Variable), Binning, Binning Partial Scan (1/1, 1/2, 1/4, Variable)	
Sync System:	Internal / External	
Communication:	RS232 via 12pin connector	
Trigger Shutter:	Edge Preset: V Rest, Non-Reset Pulse Width Trigger: V Reset, Non-Reset	
Shutter Speed:	- Dip Switch: OFF, 1/200, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/8,000, 1/12,000 - Communication: OFF, 1/2 to 1/100,000 (Variable at every H and Clock)	
Minimum Illumination:	0.16 Lux @ F1.2, 50 IRE	0.07 Lux @ F1.2, 50 IRE
Gain:	Manual (0 to 27 dB)	
S/N Ratio:	56dB (Gain 0dB)	
Gamma:	1.0 / 0.45	
Lens Mount:	C-Mount	
Video Output:	1 V p-p, 75Ω DC Coupling (0V Clamp)	
Optical Filter:	No IR cut filter	
Optical Center Accuracy:	Position accuracy in H and V direction: +/- 0.31mm	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power:	DC 12V +/- 10%	
Power Consumption:	< 2.2 W, 183mA	< 3.0 W, 250mA
Operating Temperature:	-5°C ~ 45°C (23°F ~ 113°F)	
Storage Temperature:	-30°C ~ 65°C (-21.9°F ~ 149°F)	
Dimensions:	28 (W) x 28 (H) x 46.3 (D) mm (1.1" x 1.1" x 1.8")	
Weight:	52g (1.8 oz.)	

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STC-SS1200 Series

Progressive Scan Cased Cameras

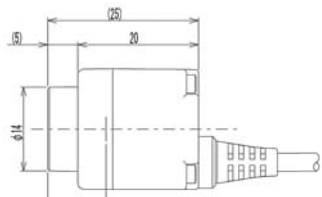


STC-SS1200 (VGA, 60 fps, 0.3MP)
STC-SS1200-90 (VGA, 90 fps, 0.3MP)

The STC-SS1200 series was designed for high speed applications where size and weight are extremely critical. The remote head design features a super small, super light head so that a minimum amount of inertia is generated during very fast stop/start XYZ type movements. The STC-SS1200 series offers high speed triggering with 60 or 90 fps analog output, utilizing a VGA progressive scan format.

FEATURES

- VGA (60 OR 90 fps)
- MONOCHROME
- 1/3" IT CCD
- ANALOG OUTPUT
- HIGH SPEED TRIGGERING
- VARIOUS HEAD CABLE ENTRY CONFIGURATIONS
- SUPER COMPACT HEAD:
20(W) x 20(H) x 25(D) mm



Remote Head

REMOTE HEAD B/W

PROGRESSIVE SCAN

VGA (0.3MP, 60 or 90 fps)



Models	STC-SS1200	STC-SS1200-90
Resolution:	VGA (0.3 MegaPixel)	
Image Sensor:	1/3" Interline CCD: ICX424AL	
Signal Format:	Monochrome Progressive Analog	
Frame Rate:	60 fps	90 fps
Active Picture Element:	648 (H) x 494 (V)	648 (H) x 494 (V)
Chip Size (mm):	5.79(H) x 4.89(V)	5.80 (H) x 4.92 (V)
Cell Size (µm):	7.4 (H) x 7.4 (V)	4.65 (H) x 4.65 (V)
Vertical Frequency:	59.94Hz	89.91Hz
Horizontal Drive Freq:	24.5454MHz	36.818MHz
Horizontal Frequency:	31.4685kHz	47.203kHz
Scanning Method:	Full Scan, Partial Full Scan, Partial Scan (1/2, 1/4), Binning, Binning Partial Scan (1/1, 1/2, 1/4)	
Sync System:	Internal / External (HD/VD) Automatically	
Trigger Shutter:	Edge Preset: V Rest, Non-Reset, Sync Reset, Restart-Reset Pulse Width Trigger: V Reset, Non-Reset, Sync Reset, Restart-Reset	
Shutter Speed:	1/60 ~ 1/20,000 (8 Steps)	1/90 ~ 1/10,000 (8 Steps)
Minimum Illumination:	1.82 Lux @ F1.2, 50 IRE	1.64 Lux @ F1.2, 50 IRE
Gain:	AGC/Manual (4 to 24 dB)	
S/N Ratio:	52dB (Gain 0dB)	
Gamma:	0.45/1.0	
Lens Mount:	Special Mount (Male 10.5 Female P0.5)	
Video Output:	1Vp-p, 75Ω	
Optical Filter:	No IR cut filter	
Optical Center Accuracy:	Position accuracy in H and V direction: +/- 0.31mm	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power:	12V DC	
Power Consumption:	2.64W, ≤ 220 mA	
Operating Temperature:	-10°C ~ 45°C (14°F ~ 113°F)	
Storage Temperature:	-30°C ~ 60°C (-22°F ~ 140°F)	
Dimensions:	CCD Head: 20 (W) x 20 (H) x 25 (D) mm (0.8" x 0.8" x 11.85") CCU: 110 (W) x 80 (H) x 28 (D) mm (4.4" x 1.12" x 3.2") Cable: 600 mm (24")	
Weight:	CCD Head: 80g (2.82 oz.) CCU: 150g (5.33 oz.)	

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(972) 481-9209

Accessories

Cables

12W-0.45
12W-02, 03, 05

Power Supplies

45-601
PWR-PSI450-6
PWR-PSISP-6

Connectors

Hirose: HR10-10P-12S
Hirose: HR10-10R-12P

Lenses

Various C-Mount Lenses
Various CS-Mount Lenses
Various Telecentric Lenses

Lens Mount

C-Adapter

STC-33/83

Progressive Scan Board Cameras



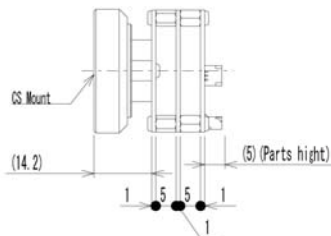
Trigger
Shutter

STC-33 (VGA, 30, 60 fps, 0.3MP)
STC-83 (XGA, 30 fps, 0.8MP)

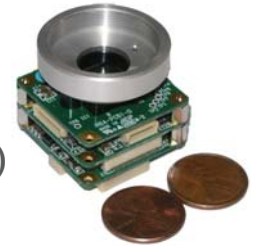
The STC-33/83 series are full featured, low cost, VGA (STC-33), XGA (STC-83) progressive scan machine vision board camera with a 1/3" monochrome CCD. These cameras provide an analog output signal and feature high speed triggering capability. The VGA (STC-33) provides 30 or 60 fps and the XGA (STC-83) provides 30 fps.

FEATURES

- VGA (30, 60 fps) & XGA (30 fps)
- MONOCHROME
- 1/3" IT CCD
- ANALOG OUTPUT
- HIGH SPEED TRIGGERING
- PARTIAL SCANNING
- SQUARE PIXELS
- COMPACT SIZE:
30(W) x 30(H) x 32(D) mm



ANALOG B/W PROGRESSIVE SCAN VGA (0.3MP) & XGA (0.8MP)



Models	STC-33	STC-83
Resolution:	VGA (0.3 MegaPixel)	XGA (0.8 MegaPixel)
Image Sensor:	1/3" Interline CCD: ICX424AL	1/3" Interline CCD: ICX204AL
Signal Format:	Monochrome Progressive Analog	
Frame Rate:	30, 60 fps	30 fps
Active Picture Element:	648 (H) x 494 (V)	1024 (H) x 768 (V)
Chip Size (mm):	5.79(H) x 4.89(V)	5.80 (H) x 4.92 (V)
Cell Size (µm):	7.4 (H) x 7.4 (V)	4.65 (H) x 4.65 (V)
Vertical Frequency:	29.97 / 59.94Hz	29.18Hz
Horizontal Drive Freq:	12.272 / 24.545MHz	14.75MHz
Horizontal Frequency:	15.734 / 31.468kHz	23.228kHz
Scanning Method:	Full Scan, Partial Full Scan, Partial Scan (1/2, 1/4), Binning, Binning Partial Scan (1/1, 1/2, 1/4)	
Sync System:	Internal / External (HD/VD) Automatically	
Trigger Shutter:	Pulse Width Trigger Edge Preset Trigger (10 Steps)	
Electronic Shutter:	1/30 ~ 1/16,000 (10 steps) 1/60 ~ 1/32,000 (10 steps)	1/30 ~ 16,000 (10 steps)
Minimum Illumination:	0.14 Lux @ F1.2, 50 IRE	0.17 Lux @ F1.2, 50 IRE
Gain:	AGC/Manual (4 to 24 dB)	
S/N Ratio:	50dB (Gain 0dB)	
Gamma:	1.0	
Lens Mount:	CS Mount	
Video Output:	1Vp-p 75Ω	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power Supply:	DC 12V +/- 10%	
Power Consumption:	1.44W, 120 mA	1.56W, 130mA
Operating Temperature:	-10°C ~ 45°C (14°F ~ 113°F)	
Storage Temperature:	-30°C ~ 60°C (-22°F ~ 140°F)	
Dimensions:	30 (W) x 30 (H) x 32 (D) mm (1.12" x 1.12" x 1.28")	
Weight:	27g (0.95 oz.)	

SENTECH

Transit Cameras

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(736-8324)

Over 36,000
Units Installed!

New!

For Ruggedized Environments

Designed Specifically for:

Public Transportation Vehicles

High Impact Glass Reinforced Plastic:

Includes Microphone and LED Light



Plastic Dome



Plastic Wedge



Plastic IR Wedge

High Impact Metal Casting:

Optional Microphone and LED Light



Metal Wedge



Metal Wedge
with optional
Microphone and LED



Metal Dome

5 Configurations:

High Impact Metal Dome
High Impact Metal Wedge

High Impact Plastic Dome
High Impact Plastic Wedge
High Impact Plastic Day/Night Wedge

Durable:

These cameras are specifically designed for rough environments. Shock rated at 70 Gs. Vibration rated at 10 Gs. Supports wide temperature range.

Easy Installation:

Designed for fast, easy, low cost installation.

Color or B/W:

Cameras are available in high resolution Color or B/W.

Programmable DSP:

DSP is programmable in order to maximize performance across environmental demands of public transportation vehicles.

Small Size:

Domes: 3.5" (W) x 2.6" (H) x 3.5" (D) (89 x 66 x 89 mm)

Wedges: 3.5" (W) x 2.6" (H) x 3.5" (D) (89 x 66 x 89 mm)

IR Wedge: 3.5" (W) x 3.3" (H) x 3.5" (D) (89 x 84.8 x 89 mm)

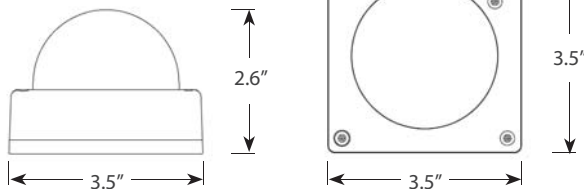
Transit Cameras

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Mechanical Drawings:

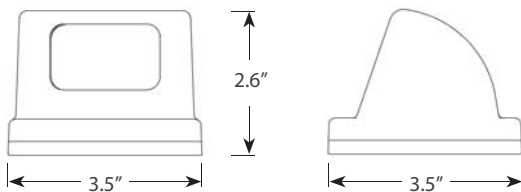
Transit Domes Configuration

Available in metal casting or glass reinforced plastic.



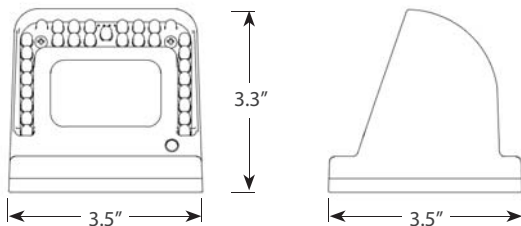
Transit Wedges Configuration

Available in metal casting or glass reinforced plastic.



Transit Wedge IR Illumination Configuration

Available in glass reinforced plastic.



Sentech's IR Illumination (Day/Night) Transit Camera

Our IR transit camera was designed specifically for the public transportation industry. It uses special IR illumination that resolve two big problems on trains or buses. First of all "hot spots" on close-up targets are almost eliminated and one unit can evenly illuminate the entire interior of a bus. The Sentech IR camera is also designed for easy installation and maintenance. We would be happy to explain these details.

SENTECH Transit Camera Specifications

Models	U.S. Standard (NTSC)	European Standard (PAL)
Image Sensor:	1/3" IT CCD Color	
Horizontal Resolution:	480 TV Lines	
Scanning Method:	2:1 Interlace	
Integration Mode:	Field	
Frame Rate:	30 fps	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain:	AGC / Fixed (Software Selectable)	
S/N Ratio:	>48dB (Gain 0dB)	
Gamma:	0.45 / 1.0 (Software Selectable)	
Sync System:	Internal	
Communication:	Programmable DSP via I ² C	
Minimum Illumination:	0.17 Lux @ F1.2, AGC On, 20 IRE 0.53 Lux @ F1.2, AGC On, 50 IRE	0.14 Lux @ F1.2, AGC On, 20 IRE 0.47 Lux @ F1.2, AGC On, 50 IRE
White Balance:	Auto White Balance (Manual Via DSP)	
Electronic Shutter:	1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1,000, 1/2,000, 1/5,000, 1/10,000, 1/20,000, 1/50,000, 1/100,000	
Electronic Iris:	1/60 ~ 1/100,000	1/50 ~ 1/100,000
Mirror Image:	Normal / Mirror (Software or Hardware Selectable)	
Aperture (Sharpness):	On/Off (User Selectable) / Programmable	
Video Output:	1.0Vp-p, 75Ω	
Lens Mount:	Micro Lens Lock Mount	
Microphone:	Available on Select Models (Includes volume control)	
LED Indicator:	3 mode selectable: On/Off, Blinking, Steady	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power Supply:	+ 7V ~ +13V DC	
Power Consumption:	1.0W, 83mA at 12V	
Operating Temperature:	-10° ~ 50° C (14° F ~ 122° F)	
Storage Temperature:	-30° ~ 65° C (-22° F ~ 149° F)	

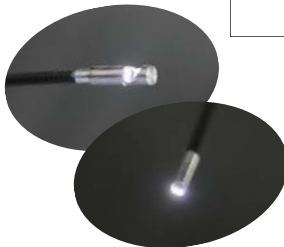
Industrial Borescopes

New!

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STC-IE118M-15

The STC-IC118M-15 is a complete hand held video borescope. This unit features a 2" LCD screen, an SD card slot for image capture, a self contained LED adjustable light source and a phone jack video out connection allowing video to be displayed on a TV monitor. The standard flexible probe is 1.5 meters and is available in up to 5 meter configurations.



SD Card Slot

STC-IE310USB-1

The STC-IC310USB-1 is a flexible USB based borescope. The flexible probe end is 1.5 meters and the unit features a self contained adjustable LED light source. This camera plugs straight into a computer via a USB port. The image is displayed on the computer screen.



Models	STC-IE118M-15	STC-IE310USB-1
Imager:	1/18" CMOS	1/10" CMOS
Effective Picture Element:	320 (H) x 240 (V)	640 (H) x 480 (V)
Frame Rate:	30 fps	15 fps
S/N Ratio:	35 dB	35 dB (AGC Off)
Minimum Illumination:	-	> 40 Lux @ 100 mm
Monitor:	2" Color TFT LCD	Via PC
Video Output:	NTSC	USB 2.0
Connector:	Phone Jack 3.5 mm - Video Out	USB A Type
Event Recording:	SD Card Slot (Up to 2GB)	Via PC
Shutter Speed:	1/60s ~ 5.7µs (Auto Shutter)	Adjustable via Software
Gain:	Auto	Auto
White Balance:	Auto	Auto (3,400 ~ 15,000° K)
Focal Length:	0.76 mm	1.66 mm
Aperture Ratio:	F 3.0	F 2.8
Angle of View:	Horizontal 44°, Vertical 63°	> 50°
Depth of Field:	10 ~ 50 mm	30 ~ 100 mm
Light Source:	White LED (2 pcs)	White LED (6 pcs)
Tip Diameter:	4.5 mm Ø	6 mm Ø
Probe Length:	1.5 m	1.5 m
Minimum Bend Radius:	30 mm	30 mm
Tensile Strength:	30 N (3kgf)	30 N (3kgf)
Power:	+ 5V DC, 300 mA	+ 5V USB Bus Power, 120 mA
AC Adaptor:	AC 100 ~ 240V, 50Hz / 60Hz, 0.3A	-
Battery:	Li-ION Battery (3.7V 2000mAh) Estimated Battery Life: Up to 4 Hrs.	-
Operating Temperature:	0°C ~ 40°C	0°C ~ 50°C (23°F ~ 113°F)
Operating System:	-	Windows XP SP2, SP3 / Vista (32 bit), SP1
Waterproof Tip:	Equivalent to IP67	Equivalent to IP67
- Hand piece	Water Resistant	No waterproofing
Dimensions (Control Unit):	130 (H) x 70 (W) 30 (D) mm 5.11" (H) x 2.75" (W) x 1.18" (D)	130 (L) x 40 Ø mm 5.11" (H) x 1.57" Ø
Weight:	300g (10.58oz)	310g (10.93oz)

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Fax:
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LEN-C2.3

Accessories

Cables

CAB-3BNC
CAB-6BNC

Power Supplies

45-601
45-752A

Lenses (For 1/3" & 1/4" CCD)

Model No.	Focal Length
LEN-C2.3	2.3mm
LEN-C2.7-C	2.7mm
LEN-C4-C	4mm
LEN-C8-C	8mm
LEN-P3.2	3.2mm
LEN-P3.7	3.7mm

Lens Mount

C-Mount Adapter

Programming Jig

Jig-ColorUSB

STC-N632/P632

Analog Color Board Cameras



Shock: 70Gs
Vibration: 10Gs

STC-N632 (NTSC, 30 fps)
STC-P632 (PAL, 30 fps)

The STC-N632 (NTSC) and STC-P632 (PAL) cameras were especially designed for providing good, reliable, color video in rugged environments. These cameras are extremely small at 26 x 26 mm. These cameras were specifically designed for applications, where temperatures vary and the vibration level is high.

FEATURES

- 1/3" CCD COLOR
- DESIGNED FOR RUGGED ENVIRONMENT
SHOCK: 70Gs, VIBRATION: 10Gs
- NTSC OR PAL FORMATS
- 480 TV LINES
- PROGRAMMABLE DSP
- MICRO LENS LOCK MOUNT
- SIZE: 26 (H) x 26 (W) mm (1.04" x 1.04")

ANALOG COLOR BOARD

NTSC & PAL



Models	STC-N632	STC-P632
Image Sensor:	1/3" IT CCD Color	
Horizontal Resolution:	480 TV Lines	
Signal Format:	NTSC	PAL
Scanning Method:	2:1 Interlace	
Integration Mode:	Field	
Frame Rate:	30 fps	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Chip Size (mm):	5.59 (H) x 4.68 (V)	
Cell Size (µm):	6.4 (H) x 7.5 (V)	6.53 (H) x 6.39 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain:	AGC / Fixed (Software Selectable)	
S/N Ratio:	>48dB (Gain 0dB)	
Gamma:	0.45 / 1.0 (Software Selectable)	
Sync System:	Internal	
Communication:	Programmable DSP via I ² C	
Minimum Illumination:	0.17 Lux @ F1.2, AGC On, 20 IRE 0.53 Lux @ F1.2, AGC On, 50 IRE	0.14 Lux @ F1.2, AGC On, 20 IRE 0.47 Lux @ F1.2, AGC On, 50 IRE
White Balance:	Auto White Balance (Manual Via DSP)	
Electronic Shutter:	1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1,000, 1/2,000, 1/5,000, 1/10,000, 1/20,000, 1/50,000, 1/100,000	
Electronic Iris:	1/60 ~ 1/100,000	1/50 ~ 1/100,000
Mirror Image:	Normal / Mirror (Software or Hardware Selectable)	
Aperture (Sharpness):	On/Off (User Selectable) / Programmable	
Video Output:	1.0Vp-p, 75Ω	
Lens Mount:	Micro Lens Lock Mount	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power Supply:	+ 7V ~ +13V DC	
Power Consumption:	1.0W, 83mA at 12V	
Operating Temperature:	-10° ~ 50° C (14° F ~ 122° F)	
Storage Temperature:	-30° ~ 65° C (-22° F ~ 149° F)	
Dimensions:	26 (W) x 26 (H) x Var. (D) mm (1.04" x 1.04" x Var.)	
Weight:	12g (0.42 oz.) (without lens)	



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STC-DN64/DP64

Analog Color Board Cameras



STC-DN64 (NTSC, 470 TVL)
STC-DP64 (PAL, 470 TVL)

The STC-DN64 (NTSC) and the STC-DP64 (PAL) are super small color cameras with the CCD located on a flexible ribbon cable. The CCU for these units is only 10mm(W) x 48.5mm(L). This camera was designed to fit inside of an instrument the size of a fat ball point pen.

FEATURES

- 1/4" CCD COLOR
- CCD REMOTE ON FLEX CABLE
- NTSC OR PAL FORMATS
- 480 TV LINES
- PROGRAMMABLE DSP
- FIELD INTEGRATION
- C-MOUNT, CS-MOUNT ON MICRO LENS
- CCU BOARD: 48.5(W) x 10(H) mm (1.94" x 0.4")
- CCD HEAD: 13.8(W) x 10(H) mm (0.55" x 0.4")

Accessories

Cables

CAB-3BNC
CAB-6BNC

Power Supplies

45-601
45-752A

Lenses (Lens mount not included)

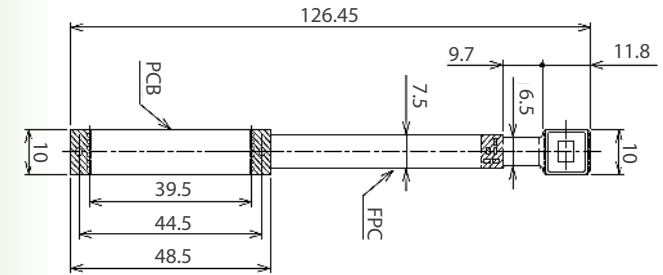
Model No.	Focal Length
LEN-C2.3	2.3mm
LEN-C2.7-C	2.7mm
LEN-C4-C	4mm
LEN-C6-C	6mm
LEN-C8-C	8mm
LEN-P3.2	3.2mm
LEN-P3.7	3.7mm

Programming Jig

Jig-ColorUSB

ANALOG COLOR BOARD

NTSC & PAL



Models	STC-DN64	STC-DP64
Image Sensor:	1/4" IT CCD Color	
Horizontal Resolution:	470 TV Lines	
Signal Format:	NTSC	PAL
Scanning Method:	2:1 Interlace	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Chip Size (mm):	4.34 (H) x 3.69 (V)	
Cell Size (µm):	4.75 (H) x 5.55 (V)	4.85 (H) x 4.65 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain:	On/Off (User Selectable) / Programmable	
S/N Ratio:	>48dB	
Gamma:	0.45 / 1.0 (Set via DSP)	
Sync:	Internal	
Communication:	I ² C	
Minimum Illumination:	0.52 Lux @ F1.2, 20 IRE 1.81 Lux @ F1.2, 50 IRE	0.24 Lux @ F1.2, 20 IRE 0.71 Lux @ F1.2, 50 IRE
White Balance:	Auto White Balance (Manual Via DSP)	
Electronic Iris:	1/60 ~ 1/100,000	1/50 ~ 1/100,000
Mirror Image:	On/Off (User Selectable)	
Aperture (Sharpness):	On/Off (User Selectable) / Programmable	
Power Supply:	+4.8 ~ +11V	
Power Consumption:	0.65W, 130mA (@ +5V)	
Operating Temperature:	-10°C ~ 45°C (23°F ~ 113°F)	
Dimensions:	CCU Board: 48.5 (W) x 10 (H) mm (1.94" x 0.4") CCD Head: 11.8 (W) x 10 (H) mm (0.55" x 0.4")	
Weight:	3 g (0.105 oz)	

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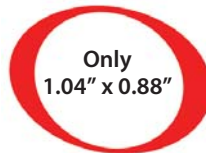
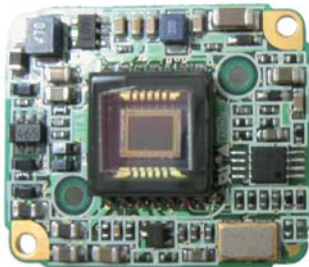
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STL-N64L2.3

STC-N/P54 and N/P64

Analog Color Board Cameras



STC-N54 (NTSC) / STC-P54 (PAL) Low Res 1/4"
STC-N64 (NTSC) / STC-P64 (PAL) High Res 1/4"

The STC-N54 (NTSC), STC-P54 (PAL), STC-N64 (NTSC) and STC-P64 (PAL) cameras are low cost, high performance, color board cameras. The size is only 26 x 22mm. Targeted for low cost, high performance color applications where size is critical.

FEATURES

- 1/4" CCD COLOR
- 2.1 INTERLACE
- NTSC & PAL FORMATS
- 10-BIT DSP - USER PROGRAMMABLE
- INTERNAL SYNC SYSTEM
- ELECTRONIC FIXED SHUTTER - AVAILABLE VIA DSP
- FIVE LENS OPTIONS AVAILABLE
- AS WELL AS CS MOUNT (C-MOUNT W/ADAPTER)
- DIMENSIONS: 26 (W) x 22 (H) x VAR. (D) mm

Accessories

Cables

CAB-3BNC
CAB-6BNC
CAB-6Y/C
12W-3.6PS

Power Supplies

45-601
45-752A

STC-N54 & STC-N64 Series

Model No.	Focal Length
LEN-N64L2.0	2mm
LEN-N64P2.3	2.3mm
LEN-N64P3.0	3mm

STC-N54/P54 Series

Model No.	Focal Length
LEN-N54P2.9	2.9mm
LEN-N54P3.7	3.7mm

Lens Mount

C-Mount Adapter

Programming Jig

Jig-ColorUSB

ANALOG COLOR BOARD

NTSC & PAL



Models	STC-N54 (NTSC) STC-P54 (PAL)	STC-N64 (NTSC) STC-P64 (PAL)
Image Sensor:	1/4" IT CCD Color	
Horizontal Resolution:	330 TV Lines (NTSC)	480 TV Lines (PAL)
Signal Format:	NTSC or PAL	
Scanning Method:	2.1 Interlace	
Effective Picture Element:		
- NTSC	512 (H) x 492 (V)	768 (H) x 494 (V)
- PAL	512 (H) x 582 (V)	752 (H) x 582 (V)
Horizontal Frequency:	15.734kHz (NTSC)	15.625kHz (PAL)
Vertical Frequency:	59.94Hz (NTSC)	50.00Hz (PAL)
Gain:	AGC / Manual (via DSP)	
S/N Ratio:	>48dB	
Gamma:	0.45 (Adjustable via DSP)	
Sync:	Internal	
Minimum Illumination:	0.5 Lux @ F1.2, 20 IRE (NTSC) 0.3 Lux @ F1.2, 20 IRE (PAL)	0.52 Lux @ F1.2, 20 IRE (NTSC) 0.24 Lux @ F1.2, 20 IRE (PAL)
White Balance:	ATW / (Fixed via DSP)	
Electronic Shutter:	Fixed (via DSP)	
Electronic Iris:	1/60 (1/50) ~ 1/100,000	
DSP:	User Programmable 10 bit DSP	
Mirror Image:	Normal/Mirror Selectable	
Video Output:	VBS 1.0Vp-p, 75Ω	
Lens Mount:	No Lens / Fixed Lens / CS Mount / C Mount Adaptor	
Power Supply:	5V DC ~ 12V DC	
Power Consumption:	0.6W, 120mA at 5V ~ 50mA at 12V	
Operating Temperature:	-10°C ~ 45°C (14°F ~ 113°F)	
Storage Temperature:	-30°C ~ 60°C (-22°F ~ 140°F)	
Dimensions:	26 (W) x 22 (H) x Var. (D) mm (1.04" x 0.88" x Var.)	
Weight:	6g (0.21 oz.)	



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LEN-C8

Accessories

Cables

CAB-3BNC
CAB-6BNC
CAB-6Y/C
12W-3.6PS

Power Supplies

45-601
45-752A

Lenses (For 1/3" & 1/4" CCD)

Model No.	Focal Length
LEN-C2.3	2.3mm
LEN-C2.7-C	2.7mm
LEN-C4-C	4mm
LEN-C8-C	8mm
LEN-P3.2	3.2mm
LEN-P3.7	3.7mm

Lens Mount

C-Mount Adapter

Programming Jig

Jig-ColorUSB

STC-N63/P63

Analog Color Board Cameras



STC-N63 (NTSC, 480 TVL)
STC-P63 (PAL, 480 TVL)

The STC-N63 (NTSC) & STC-P63 (PAL) series offers high-resolution, 1/3" color CCD (480 TV lines) in a very compact board configuration (32 x 32 mm). These low-cost cameras offer user programmable DSP and setup.

FEATURES

- 1/3" CCD COLOR
- NTSC & PAL FORMATS
- 480 TV LINES
- 10-BIT DIGITAL SIGNAL PROCESSING
- WHITE BALANCE - AUTO, MANUAL OR PUSH-TO-SET
- GAMMA 0.45 (OTHER VALUES VIA DSP)
- ELECTRONIC SHUTTER / FIXED SHUTTER
- SEVEN LENS OPTIONS AVAILABLE
- INCLUDING CS (C MOUNT w/ADAPTER)
- DIMENSIONS: 32 (W) x 32 (H) x VAR. (D) mm

ANALOG COLOR BOARD

NTSC & PAL



Models	STC-N63	STC-P63
Image Sensor:	1/3" IT CCD Color	
Horizontal Resolution:	480 TV Lines	
Signal Format:	NTSC	PAL
Scanning Method:	2.1 Interlace	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain:	AGC / Fixed (via DSP)	
S/N Ratio:	>48dB (AGC Off)	
Gamma:	0.45 (Adjustable via DSP)	
Sync:	Internal / External (Model Dependent)	
Communication:	RS-232C Serial I/O Port (On select models)	
Minimum Illumination:	0.06 Lux @ F1.2, 20 IRE "H" Version on pg136 0.29 Lux @ F1.2, 50 IRE	
White Balance:	ATW / Manual (via DSP) / Push to set white (Select Models)	
Electronic Shutter:	1/60 Fixed (Programmable via DSP)	
Electronic Iris:	1/60 (1/50) ~ 1/100,000	
Auto Iris Lens:	Direct Drive Control (DC) (Model Dependent)	
Back Light:	On / Off	
DSP:	10 bit DSP (User Programmable)	
Mirror Image:	Normal / Mirror	
Video Output:	Composite Video or Y/C Out (On select models)	
Lens Mount:	CS Mount (C-Mount w/ Adapter)	
Power Supply:	DC 12V	
Power Consumption:	1.80W, 150mA	
Operating Temperature:	-10°C ~ 45°C (14°F ~ 113°F)	
Storage Temperature:	-30°C ~ 60°C (-22°F ~ 140°F)	
Dimensions:	32 (W) x 32 (H) x Var. (D) mm (1.28" x 1.28" x Var.)	
Weight:	10g (0.35 oz.)	

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LEN-C2.7

Accessories

Cables

CAB-3BNC
CAB-6BNC
CAB-6Y/C
12W-3.6PS

Power Supplies

45-601
45-752A
PWR-PSI450-6
PWR-PSISP-6YC6

Lenses (Lens mount not included)

Model No.	Focal Length
LEN-C2.3	2.3mm
LEN-C2.7-C	2.7mm
LEN-C4-C	4mm
LEN-C6-C	6mm
LEN-C8-C	8mm

Lens Mount

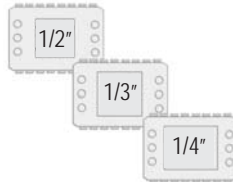
C-Adapter

Programming Jig

Jig-ColorUSB

STC-600 Series

Analog Color Board Cameras



STC-620 (NTSC) / STC-625 (PAL) 1/2" CCD
STC-630 (NTSC) / STC-635 (PAL) 1/3" CCD
STC-640 (NTSC) / STC-645 (PAL) 1/4" CCD

Sentech's most popular and powerful cased cameras are also available in a board level. The STC-600 series board cameras are available with high resolution 1/4" 1/3" and 1/2" CCDs. These cameras also feature a user programmable 10 bit DSP.

FEATURES

- 1/2", 1/3" OR 1/4" CCD COLOR
- 10 BIT DSP, 3RD GENERATION, USER ACCESSIBLE
- GAMMA 0.45, 1.0 OR OTHER VALUES VIA DSP ADJUSTMENTS
- INTERNAL / EXTERNAL SYNC (MODEL DEPENDENT)
- Y/C (MODEL DEPENDENT)
- GAIN: MANUAL / AGC (0 - 30dB)
- NEGATIVE / POSITIVE IMAGE
- SEVEN LENS OPTIONS AVAILABLE INCLUDING CS MOUNT (C-MOUNT W/ADAPTER)

ANALOG COLOR BOARD NTSC & PAL



Models	STC-620 (NTSC) STC-625 (PAL)	STC-630 (NTSC) STC-635 (PAL)	STC-640 (NTSC) STC-645 (PAL)
Image Sensor:	1/2" IT CCD Color	1/3" IT CCD Color	1/4" IT CCD Color
Horizontal Resolution:	480 TV Lines		
Signal Format:	NTSC or PAL		
Scanning Method:	2:1 Interlace		
Frame Rate:	30 fps		
Effective Picture Element:	768(H) x 494(V) (NTSC)	752(H) x 582(V) (PAL)	
Horizontal Frequency:	15.734kHz (NTSC)	15.625kHz (PAL)	
Vertical Frequency:	59.94Hz (NTSC)	50.00Hz (PAL)	
Gain:	Manual / AGC (0 - 30dB)		
S/N Ratio:	> 48dB (AGC Off)		
Gamma:	0.45, 1.0 or other values via DSP Adjustments		
Sync:	Internal or External (Model Dependent)		
Minimum Illumination:			
- NTSC	0.42 Lux @ F1.2, 20 IRE	0.43 Lux @ F1.2, 20 IRE	0.56 Lux @ F1.2, 20 IRE
- PAL	0.24 Lux @ F1.2, 20 IRE	0.26 Lux @ F1.2, 20 IRE	0.7 Lux @ F1.2, 20 IRE
White Balance:	Auto / Manual		
Electronic Shutter:			
- Standard	1/60 (1/50), 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000		
- Extended	2, 4, 6, 8, 10, 12, 14, 16 fields		
Electronic Iris:	1/60 (1/50) ~ 1/10,000		
Back Light:	Back light compensation at electronic shutter		
Negative Positive	Selectable		
DSP:	10 bit, 3rd Generation, User Programmable		
Video Output:	1.0Vp-p, 75Ω		
Y/C Output:	0.7Vp-p, 75Ω (Select Models)		
Lens Mount:	CS Mount and C Mount		
Power:	12V DC		
Power Consumption:	3.0W, 250mA		
Operating Temperature:	-10°C ~ 45°C (14°F ~ 113°F)		
Storage Temperature:	-30°C ~ 60°C (22°F ~ 140°F)		
Dimensions:	45 (W) x 45 (H) x Var. (D) mm (1.8" x 1.8" x Var.)		
Weight:	45g (1.59oz.)		

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STC-N63/P63

Analog Color Cased Cameras



STC-N63 (NTSC, 480 TVL)
STC-P63 (PAL, 480 TVL)

In very compact housing, the STC-N63/P63 cameras employ a high resolution, 1/3" color CCD that produces 480 TV lines of horizontal resolution. The STC-N63/P63 series cameras are available in cased (with the option of five back panels — BJ, BT, CJ, CC or CT) and board level configuration.



BJ Model

- Power Jack for Power In
- BNC Connector (Video Out)
- Auto Iris Lens Connection (DC Driven)
- Auto Iris Level Adjustment



BT Model

- Terminal Block (Spring Loaded) for Power In
- BNC Connector (Video Out)
- Auto Iris Lens Connection (DC Driven)
- Auto Iris Level Adjustment



CC Model

- 12 Pin Hirose Power, Video Out, Y/C Out, EXT HD/VD Sync
- BNC Connector (Video Out)
- Push-to-Set/Auto White Balance
- RS-232C Serial I/O for User DSP Programming



CJ Model

- Power Jack for Power In
- BNC Connector (Video Out)
- Y/C Connector (Y/C Video Out)
- Push-to-Set / Auto White Balance
- RS-232C Serial I/O for User DSP Programming



CT Model

- Terminal Block (Spring Loaded) for Power In
- BNC Connector (Video Out)
- Y/C Connector (Y/C Video Out)
- Push-to-Set/Auto White Balance
- RS-232C Serial I/O for User DSP Programming

ANALOG COLOR CASED NTSC & PAL



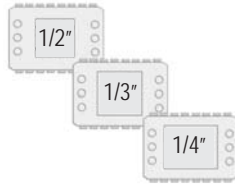
Models	STC-N63	STC-P63
Image Sensor:	1/3" IT CCD Color	
Horizontal Resolution:	480 TV Lines	
Signal Format:	NTSC	PAL
Scanning Method:	2.1 Interlace	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain:	AGC / Fixed (via DSP)	
S/N Ratio:	>48dB (AGC Off)	
Gamma:	0.45 (Adjustable via DSP)	
Sync:	Internal / External (Model Dependent)	
Communication:	RS-232C Serial I/O Port (On select models)	
Minimum Illumination:	0.06 Lux @ F1.2, 20 IRE 0.29 Lux @ F1.2, 50 IRE	
White Balance:	ATW / Manual (via DSP)	
Electronic Shutter:	1/60 Fixed (Programmable via DSP)	
Electronic Iris:	1/60 (1/50) ~ 1/100,000	
Auto Iris Lens:	Direct Drive Control (DC) (Model Dependent)	
Back Light:	On / Off	
DSP:	10 bit DSP (User Programmable)	
Mirror Image:	Normal / Mirror	
Video Output:	Composite Video or Y/C Out (On select models)	
Lens Mount:	CS Mount (C-Mount with Adapter)	
Power Supply:	DC 12V	
Power Consumption:	1.80W, 150mA	
Operating Temperature:	-10°C ~ 45°C (14°F ~ 113°F)	
Storage Temperature:	-30°C ~ 60°C (-22°F ~ 140°F)	
Dimensions:	36 (W) x 36 (H) x 37.35 (D) mm (1.44" x 1.44" x 1.49")	
Weight:	70g (2.46 oz.)	

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STC-600 Series

Analog Color Cased Cameras



The Sentech STC-600 high resolution color camera series is available in the following six standard configurations.

For example: To order the 620 series with the CC configuration, the model name would be STC-620CC. To order the 630 series with the CC Configuration, the model name would be STC-630CC, etc.



A Model

- Power Jack
- RCA Connector (Video Out)
- Manual Controls: Color, Brightness, Sharpness, Gamma



AS Model

- 12 Pin Hirose: Power, Y/C Out
- BNC Connector (Video Out)
- Manual Controls: Color, Brightness, Sharpness, Gamma



BJ Model

- Power Jack
- BNC Connector (Video Out)
- DC Auto Iris Lens Connector



BT Model

- Power Terminal
- BNC Connector (Video Out)
- Auto Iris Level Control
- DC Auto Iris Lens Connector



CC Model

- 12 Pin Hirose: Power, Y/C Out, HD/VD In
- BNC Connector (Video Out)
- Y/C Connector (Y/C Out)
- RS-232 Mini Jack DSP Set Up Camera Control



CT Model

- Power Terminal
- BNC Connector (Video Out)
- Y/C Connector (Y/C Out)
- RS-232 Mini Jack DSP Set Up Camera Control
- DC Auto Iris Lens Connector
- Auto Iris Level Control

ANALOG COLOR CASED NTSC & PAL



Models	STC-620 (NTSC) STC-625 (PAL)	STC-630 (NTSC) STC-635 (PAL)	STC-640 (NTSC) STC-645 (PAL)
Image Sensor:	1/2" IT CCD Color	1/3" IT CCD Color	1/4" IT CCD Color
Horizontal Resolution:	480 TV Lines		
Signal Format:	NTSC or PAL		
Scanning Method:	2:1 Interlace		
Frame Rate:	30 fps		
Effective Picture Element:	768(H) x 494(V) (NTSC)	752(H) x 582(V) (PAL)	
Horizontal Frequency:	15.734kHz (NTSC)	15.625kHz (PAL)	
Vertical Frequency:	59.94Hz (NTSC)	50.00Hz (PAL)	
Gain:	Manual / AGC (0 - 30dB)		
S/N Ratio:	> 48dB (AGC Off)		
Gamma:	0.45, 1.0 or other values via DSP Adjustments		
Sync:	Internal or External (Model Dependent)		
Minimum Illumination:	- NTSC 0.42 Lux @ F1.2, 20 IRE	- NTSC 0.43 Lux @ F1.2, 20 IRE	- PAL 0.26 Lux @ F1.2, 20 IRE 0.7 Lux @ F1.2, 20 IRE
White Balance:	Auto / Manual		
Electronic Shutter:	- Standard 1/60 (1/50), 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000 - Extended 2, 4, 6, 8, 10, 12, 14, 16 fields		
Electronic Iris:	1/60 (1/50) ~ 1/10,000		
Back Light:	Back light compensation at electronic shutter		
Negative Positive	Selectable		
DSP:	10 bit, 3rd Generation, User Programmable		
Video Output:	1.0Vp-p, 75Ω		
Y/C Output:	0.7Vp-p, 75Ω (Select Models)		
Lens Mount:	CS Mount and C Mount		
Power Supply:	12V DC Power		
Power Consumption:	3.0W, 250mA		
Operating Temperature:	-10°C ~ 45°C (14°F ~ 113°F)		
Storage Temperature:	-30°C ~ 60°C (22°F ~ 140°F)		
Dimensions:	51 (W) x 51 (H) x 55.5 (D) mm (2.4" x 2.4" x 2.2")		
Weight:	190g (6.70oz.)		

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LEN-B3.6

Accessories

Cables

CAB-3BNC
CAB-6BNC
CAB-6Y/C
12W-3.6PS

Power Supplies

45-601
45-752A

Lenses (For 1/3" & 1/4" CCD)

Model No.	Focal Length
LEN-B2.5	2.5mm
LEN-B3.6	3.6mm
LEN-B6	6mm
LEN-B8	8mm
LEN-B16	16mm

Lens Mount

C-Mount Adapter

Programming Jig

Jig-ColorUSB

STC-E631/C631

Analog B/W Board Cameras



Programmable
B/W DSP

1" x 1"
Single Board

STC-E631 (EIA, 570 TVL)
STC-C631 (CCIR, 570 TVL)

The STC-E631 (EIA) and the STC-C631 (CCIR) cameras are small inexpensive monochrome cameras especially designed for rugged environments. The cameras are extremely small at 1" x 1".

FEATURES

- 1/3" CCD MONOCHROME
- DESIGNED FOR RUGGED ENVIRONMENT
- 570 TV LINES
- EIA OR CCIR FORMATS
- PROGRAMMABLE DSP
- FIELD INTEGRATION
- CS AND C MOUNT (w/ADAPTER) OR MICRO LENS MOUNT
- SIZE: 26 (H) x 26 (W) mm (1" x 1")

ANALOG MONOCHROME BOARD

EIA & CCIR



Models	STC-E631	STC-C631
Image Sensor:	1/3" IT CCD Monochrome	
Horizontal Resolution:	570 TV Lines	
Signal Format:	EIA	CCIR
Scanning Method:	2:1 Interlace	
Integration Mode:	Field	
Frame Rate:	30 fps	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Chip Size (mm):	5.59 (H) x 4.68 (V)	
Cell Size (µm):	6.35 (H) x 7.40 (V)	6.50 (H) x 6.25 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain:	AGC / Fixed (Software Selectable)	
S/N Ratio:	>56dB (Gain 0dB)	
Gamma:	0.45 / 1.0 (Software Selectable)	
Sync System:	Internal	
Communication:	Programmable DSP via I ² C	
Minimum Illumination:	0.19 Lux @ F1.2, AGC On, 20IRE 0.6 Lux @ F1.2, AGC On, 50IRE	0.19 Lux @ F1.2, AGC On, 20IRE 0.56 Lux @ F1.2, AGC On, 50IRE
Electronic Shutter:	- Standard 1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1,000, 1/2,000, 1/5,000, 1/10,000, 1/20,000, 1/50,000, 1/100,000 - Extended 1/7.5, 1/15, 1/30 1/6.25, 1/12.5, 1/25	
Electronic Iris:	1/60 ~ 1/100,000	1/50 ~ 1/100,000
Mirror Image:	Normal / Mirror (Software or Hardware Selectable)	
Aperture (Sharpness):	On/Off (User Selectable) / Programmable	
Video Output:	1.0Vp-p, 75Ω	
Lens Mount:	CS Mount, C Mount (w/ adapter), Micro Lens Mount	
Optical Filter:	No IR Filter	
Power Supply:	+ 7V ~ +13V DC	
Power Consumption:	1.0W, 83mA at 12V	
Operating Temperature:	-10° ~ 45° C (14° F ~ 113° F) -30° ~ 65° C (-22° F ~ 149° F)	
Dimensions:	26 (W) x 26 (H) x Var. (D) mm (1" x 1" x Var.)	
Weight:	12g (0.42 oz.) (w/o lens)	



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STC-130/135 Series

Analog B/W Board Cameras



STC-130 (EIA, 570 TVL)
STC-135 (CCIR, 570 TVL)



LEN-B16

Accessories

Cables

CAB-3BNC
CAB-6BNC

Power Supplies

45-601
45-752A

Lenses (For 1/3" & 1/4" CCD)

Model No.	Focal Length
LEN-B2.5	2.5mm
LEN-B3.6	3.6mm
LEN-B6	6mm
LEN-B8	8mm
LEN-B16	16mm

Lens Mount

C-Mount Adapter

The STC-130 series is an inexpensive, compact camera that can adapt to almost any standard resolution industrial application. This 1/3" monochrome camera series comes in board and cased versions. Excellent for low light applications.

FEATURES

- 1/3" CCD MONOCHROME
STC-130 (EIA) 510 (H) x 492 (V)
STC-135 (CCIR) 500(H) x 582 (V)
- 380 TV LINES HORIZONTAL RESOLUTION
- AGC: ON (0-20dB)
- FIELD INTEGRATION
- CS MOUNT, C MOUNT (W/ADAPTER) OR MICRO LENS
- SIZE: 35 (W) x 35 (H) x VAR. (D) mm

ANALOG MONOCHROME BOARD

LOW LIGHT EIA & CCIR



(with a 2.5mm Lens)

Models	STC-130	STC-135
Image Sensor:	1/3" IT CCD Monochrome	
Horizontal Resolution:	380 TV Lines	
Signal Format:	EIA	CCIR
Scanning System:	2.1 Interlace	
Integration Mode:	Field	
Frame Rate:	30 fps	
Effective Picture Element:	510 (H) x 492 (V)	500 (H) x 582 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain:	AGC (0-20dB)	
S/N Ratio:	>48dB (AGC Off)	
Gamma:	0.6	
Sync:	Internal	
Minimum Illumination: "H" Version on pg136	0.06 Lux @ F1.2, 20 IRE 0.18 Lux @ F1.2, 50 IRE	0.06 Lux @ F1.2, 20 IRE 0.2 Lux @ F1.2, 50 IRE
Electronic Shutter:	1/60	1/50
Electronic Iris:	1/60 ~ 1/100,000	1/50 ~ 1/100,000
Video Out:	1.0Vp-p, 75Ω	
Lens Mount:	CS Mount, C Mount (w/ adapter), Micro Lens Mount	
Power Supply:	12V DC ± 10%	
Power Consumption:	1.2W, 100mA	
Operating Temperature:	-10° ~ 45° C (14° F ~ 113° F)	
Storage Temperature:	-30° ~ 60° C (-22° F ~ 140° F)	
Dimensions:	35 (W) x 35 (H) x Var. (D) mm (1.37" x 1.37" x Var.)	
Weight:	15g (0.53oz)	

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LEN-B2.5

Accessories

Cables

CAB-3BNC
CAB-6BNC

Power Supplies

45-601
45-752A

Lenses (For 1/3" & 1/4" CCD)

Model No.	Focal Length
LEN-B2.5	2.5mm
LEN-B3.6	3.6mm
LEN-B6	6mm
LEN-B8	8mm
LEN-B16	16mm

Lens Mount

C-Mount Adapter

STC-160/165 Series

Analog B/W Board Cameras



STC-160 (EIA, 570 TVL)
STC-165 (CCIR, 560 TVL)

The STC-160 & STC-165 is a 1/3" high-resolution analog machine vision camera series in a single board. Small in size, this camera offers many features and functions not found on most board-level cameras. Like most Sentech cameras, the STC-160 & STC-165 series comes in board-level and cased version cameras.

FEATURES

- 1/3" CCD MONOCHROME
- GAMMA 0.45 OR 1.0 SWITCHABLE
- 570 TV LINES (EIA) OR 560 TV LINES (CCIR)
- >48dB S/N RATIO (AGC OFF)
- FIELD INTEGRATION
- INTERLACE / NON-INTERLACE
- INTERNAL / EXTERNAL SYNC
- CS MOUNT OR MICRO LENS MOUNT
- DIMENSIONS: 45 (W) x 45 (H) x VAR. (D) mm

ANALOG MONOCHROME BOARD

EIA & CCIR



Models	STC-160	STC-165
Image Sensor:	1/3" IT CCD Monochrome	
Horizontal Resolution:	570 TV Lines	560 TV Lines
Vertical Resolution:	350 TV Lines	410 TV Lines
Signal Format:	EIA	CCIR
Scanning System:	2.1 Interlace	
Integration Mode:	Field	
Frame Rate:	30 fps	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Chip Size (mm):	5.59 (H) x 4.68 (V)	
Cell Size (μm):	6.35 (H) x 7.40 (V)	6.50 (H) x 6.25 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain:	AGC / Manual (0-20dB)	
S/N Ratio:	>56dB (AGC Off)	
Gamma:	0.45 / 1.0	
Sync:	Internal / External (HD/VD), Auto Switching by HD Input	
Minimum Illumination:	0.18 Lux @ F1.2, 20 IRE	0.17 Lux @ F1.2, 20 IRE
"H" Version on pg136	0.44 Lux @ F1.2, 50 IRE	0.44 Lux @ F1.2, 50 IRE
Electronic Shutter:	1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000	
Electronic Iris:	1/60 ~ 1/100,000	1/50 ~ 1/100,000
Video Out:	1.0Vp-p, 75Ω	
Lens Mount:	CS Mount, C Mount (w/ adapter), Micro Lens Mount	
Power Supply:	12V DC ± 10%	
Power Consumption:	1.68W, 140mA	
Operating Temperature:	-10° ~ 45° C (14° F ~ 113° F)	
Storage Temperature:	-30° ~ 60° C (-22° F ~ 140° F)	
Dimensions:	45 (W) x 45 (H) x VAR. (D) mm (1.77" x 1.77" x VAR.)	
Weight:	20g (0.71oz)	

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STC-170/175 Series

Analog B/W Board Cameras



STC-170 (EIA, 570 TVL)
STC-175 (CCIR, 560 TVL)



LEN-B6

Accessories

Cables

CAB-3BNC
CAB-6BNC

Power Supplies

45-601
45-752A

Lenses (For 1/3" & 1/4" CCD)

Model No.	Focal Length
LEN-B2.5	2.5mm
LEN-B3.6	3.6mm
LEN-B6	6mm
LEN-B8	8mm
LEN-B16	16mm

Lens Mount

C-Mount Adapter

FEATURES

- 1/3" CCD MONOCHROME
- EIA OR CCIR FORMATS
- INTERNAL / EXTERNAL SYNC. (HD/VD)
- 570 TV LINES (EIA) OR 560 TV LINES (CCIR)
- FIELD / FRAME INTEGRATION
- INTEGRATION HOLD
- INTERLACE / NON-INTERLACE
- CS MOUNT OR MICRO LENS MOUNT



STC-R170

The STC-R170 has the same features as the STC-170 with a remote CCD

ANALOG MONOCHROME BOARD

EIA & CCIR



with micro lens

Models	STC-170	STC-175
Image Sensor:	1/3" IT CCD Monochrome	
Horizontal Resolution:	570 TV Lines	560 TV Lines
Vertical Resolution:		
- Field	350 TV Lines	410 TV Lines
- Frame	485 TV Lines	575 TV Lines
Signal Format:	EIA	CCIR
Scanning System:	2.1 Interlace / Non-Interlace (w/external sync)	
Integration Mode:	Field / Frame Switchable	
Frame Rate:	30 fps	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Integration Hold:	Yes, via Start/Stop TTL Signal, Vertical Reset	
Gain:	AGC / Fixed, Manual (POT Adjustable)	
S/N Ratio:	>56dB (AGC Off)	
Gamma:	0.45 or 1.0 Switchable	
Sync:	Internal / External (HD/VD), Auto Switching by HD Input	
Minimum Illumination:	0.01 Lux @ F1.2, 20 IRE (AGC On) 0.04 Lux @ F1.2, 50 IRE (AGC On)	
Electronic Shutter:	1/30, 1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000	
Electronic Iris:	N/A	
Video Out:	1.0Vp-p, 75Ω	
Lens Mount:	CS Mount, C Mount (w/ adapter), Micro Lens Mount	
Power Supply:	12V DC ± 10%	
Power Consumption:	1.32W, 110mA ± 20%	
Operating Temperature:	-10° ~ 45° C (14° F ~ 113° F)	
Storage Temperature:	-30° ~ 60° C (-22° F ~ 140° F)	
Dimensions:	45 (W) x 45 (H) x Var. (D) mm (1.77" x 1.77" x Var.)	
Weight:	45g (1.58oz)	

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STC-172/177 Series

Analog B/W Board Cameras



STC-172 (EIA, 570 TVL)
STC-177 (CCIR, 560 TVL)



LEN-B16

Accessories

Cables

CAB-3BNC
CAB-6BNC

Power Supplies

45-601
45-752A

Lenses

Various C-Mount Lenses

The STC-172/177 series is a board level machine vision camera. These cameras feature a 1/2" CCD available in either EIA or CCIR. These cameras offer an integration HOLD feature for low light applications, field/frame integration, Internal/External sync and an Interlace/Non-Interlace output.

FEATURES

- 1/2" CCD MONOCHROME
- EIA OR CCIR FORMATS
- EXTERNAL SYNC (HD/VD)
- FRAME / FIELD INTEGRATION
- INTEGRATION HOLD FEATURE
- INTERLACE / NON-INTERLACE
- C-MOUNT
- SIZE: 45(W) x 45 (H) x VARIABLE (D) mm

ANALOG MONOCHROME BOARD

EIA & CCIR



Models	STC-172	STC-177
Image Sensor:	1/2" IT CCD Monochrome	
Horizontal Resolution:	570 TV Lines	560 TV Lines
Vertical Resolution:		
- Field	350 TV Lines	410 TV Lines
- Frame	485 TV Lines	575 TV Lines
Signal Format:	EIA	CCIR
Scanning System:	2.1 Interlace / Non-Interlace (w/external sync)	
Integration Mode:	Field / Frame Switchable	
Frame Rate:	30 fps	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Integration Hold:	Yes, via Start/Stop TTL Signal, Vertical Reset	
Gain:	AGC / Fixed, Manual (POT Adjustable)	
S/N Ratio:	>56dB (AGC Off)	
Gamma:	0.45 or 1.0 Switchable	
Sync:	Internal / External (HD/VD), Auto Switching by HD Input	
Minimum Illumination:	0.01 Lux @ F1.2, 20 IRE (AGC On) 0.04 Lux @ F1.2, 50 IRE (AGC On) <i>"H" Version on pg136</i>	
Electronic Shutter:	1/30, 1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000	
Electronic Iris:	N/A	
Video Out:	1.0Vp-p, 75Ω	
Lens Mount:	C Mount	
Power Supply:	12V DC ± 10%	
Power Consumption:	1.32W, 110mA	
Operating Temperature:	-10° ~ 45° C (14° F ~ 113° F)	
Storage Temperature:	-30° ~ 60° C (-22° F ~ 140° F)	
Dimensions:	45 (W) x 45 (H) x Var. (D) mm (1.77" x 1.77" x Var.)	
Weight:	45g (1.58oz)	

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STC-42A/43A Series

Analog B/W Cube Cameras



STC-E42A (EIA) / STC-C42A (CCIR) 1/2"
STC-E43A (EIA) / STC-C43A (CCIR) 1/3"

The STC-42A/43A series cameras are analog cube cameras designed for machine vision. These are available with a 1/2" or 1/3" CCD in either EIA or CCIR formats. They feature either field/frame integration, internal or external sync and RS232 communications. The small configuration allows them to be utilized in very tight spaces.

FEATURES

- 1/2" OR 1/3" CCD MONOCHROME
- AVAILABLE IN EIA & CCIR FORMATS
- 570 (EIA) AND 560 (CCIR) TV LINES
- FIELD / FRAME INTEGRATION
- INTERNAL / EXTERNAL SYNC
- GAMMA 0.45 OR 1.0
- C MOUNT
- DIMENSIONS: 28(W) x 28(H) x 46.3(D) mm
- 12V DC POWER

Accessories

Cables

12W-02, 03, 05
12W-2P

Power Supplies

45-752A
PWR-PSI450-6

Lenses

Various C-Mount Lenses
Various Telecentric Lenses

ANALOG MONOCHROME CUBE EIA & CCIR



Models	STC-E42A (EIA) STC-C42A (CCIR)	STC-E43A (EIA) STC-C43A (CCIR)
Image Sensor:	1/2" IT CCD Monochrome	1/3" IT CCD Monochrome
Horizontal Resolution:	570 TV Lines (EIA)	560 TV Lines (CCIR)
Scanning Method:	2:1 Interlace	
Integration Mode:	Field / Frame	
Frame Rate:	30 fps	
Effective Picture Element:	795 (H) x 595 (V) (EIA)	752 (H) x 582 (V) (CCIR)
Active Picture Element:	768 (H) x 494 (V) (EIA)	752 (H) x 582 (V) (CCIR)
Chip Size (mm):	7.40 (H) x 5.95 (V)	5.59 (H) x 4.68 (V)
Cell Size (µm):	8.4 (H) x 9.8 (V) (EIA) 8.6 (H) x 8.3 (V) (CCIR)	6.35 (H) x 7.40 (V) (EIA) 6.50 (H) x 6.25 (V) (CCIR)
Pixel Clock (HD freq.):	14.318MHz (EIA)	14.1875MHz (CCIR)
Horizontal Frequency:	15.734kHz (EIA)	15.625kHz (CCIR)
Vertical Frequency:	59.94Hz (EIA)	50.00Hz (CCIR)
Gain:	0 to 27dB	
S/N Ratio:	56dB (GAIN 0dB)	
Gamma:	1.0 / 0.45	
Sync:	Internal / External (Automatic Switching)	
Communication:	RS232 via 12 pin connector	
Minimum Illumination:	0.04 Lux @ F1.2, 27dB Gain, 20 IRE 0.11 Lux @ F1.2, 27dB Gain, 50 IRE	
Electronic Shutter:	Dip Switch: 1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/8,000, 1/10,000, 1/20,000, 1/100,000 Via RS232: 1/60 (1/50) ~ 1/100,000 (Variable at every H and clock)	
Video Output:	1.0Vp-p 75Ω, DC coupling	
Lens Mount:	C Mount	
Optical Filter:	No IR cut filter	
Optical Center Accuracy:	Positional accuracy in H and V directions: ± 0.31mm Rotational accuracy of H and V: ± 2.1 deg.	
Shock and Vibration:	Vibration: 10G (20 to 200Hz) Shock: 70G (3 directions, 3 times each)	
Power Supply:	12V DC ± 10%	
Power Consumption:	< 1.8W, 150mA	
Operating Temperature:	-5° ~ 50° C	
Storage Temperature:	-30° ~ 65° C	
Dimensions:	28 (W) x 28 (H) x 46.3* (D) mm (1.1" x 1.1" x 1.8") *(Including lens mount and connector)	
Weight:	52g (2.08oz)	

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STC-131BJ



STC-131BT

Accessories

Cables

CAB-3BNC
CAB-6BNC

Power Supplies

45-601
45-752A

Lenses

Various CS-Mount Lenses
Various C-Mount Lenses

STC-131/136 Series

Analog B/W Cased Cameras



STC-131 (EIA, 380 TVL)
STC-136 (CCIR, 380 TVL)

The STC-131/136 cased series is an inexpensive, compact camera series. This camera has auto gain control and is available w/ an EXview CCD. The STC-131 camera comes with a CS-Mount (C-Mount with an adapter) and a composite video output.

FEATURES

- 1/3" CCD MONOCHROME
- AVAILABLE IN EIA & CCIR FORMATS
- 380 TV LINES HORIZONTAL RESOLUTION
- AGC: ON (0-20dB)
- MINIMUM ILLUMINATION 0.05 LUX @ F1.2, 50 IRE
- CS MOUNT (C-MOUNT WITH ADAPTER)
- SIZE: 40 (W) x 40 (H) x 45 (D) mm

Note: DC Auto Iris Lens Control is Disabled

ANALOG MONOCHROME CASED EIA & CCIR



Models	STC-131	STC-136
Image Sensor:	1/3" IT CCD Monochrome	
Horizontal Resolution:	380 TV Lines	
Signal Format:	EIA	CCIR
Scanning System:	2.1 Interlace	
Integration Mode:	Field	
Frame Rate:	30 fps	
Effective Picture Element:	510 (H) x 492 (V)	500 (H) x 582 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain:	AGC (0-20dB)	
S/N Ratio:	>48dB (AGC Off)	
Gamma:	0.6	
Sync:	Internal	
Minimum Illumination:	0.06 Lux @ F1.2, 20 IRE "H" Version on pg136 0.18 Lux @ F1.2, 50 IRE	0.06 Lux @ F1.2, 20 IRE 0.2 Lux @ F1.2, 50 IRE
Electronic Shutter:	1/60	1/50
Electronic Iris:	1/60 ~ 1/100,000	1/50 ~ 1/100,000
Video Out:	1.0Vp-p, 75Ω	
Lens Mount:	CS Mount, C Mount (w/ adapter)	
Power Supply:	12V DC ± 10%	
Power Consumption:	1.2W, 100mA	
Operating Temperature:	-10° ~ 45° C (14° F ~ 113° F)	
Storage Temperature:	-30° ~ 60° C (-22° F ~ 140° F)	
Dimensions:	40 (W) x 40 (H) x 45 (D) mm (1.57" x 1.57" x 1.77")	
Weight:	100g (3.53oz)	

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STC-160BC



STC-160BT

Accessories

Cables

CAB-3BNC
CAB-6BNC
12W-02, 03, 05
12W-2P

Power Supplies

45-601
45-752A
PWR-PSISP-6

Lens Mount

C-Adapter

STC-160/165 Series

Analog B/W Cased Cameras



STC-160 (EIA, 570 TVL)
STC-165 (CCIR, 560 TVL)

The STC-160 & STC-165 Cased series is a low-cost, high resolution machine vision camera, which offers users a high-resolution 1/3" CCD, fixed shutter speeds from 1/60th (1/50th) to 1/100,000th sec, external sync (HD/VD), and much more.

FEATURES

- 1/3" CCD MONOCHROME
- AVAILABLE IN EIA & CCIR FORMATS
- 570 TV LINES HORIZONTAL RESOLUTION
- GAMMA 0.45 OR 1.0 SWITCHABLE
- SYNC: INT. OR EXT. (HD / VD) (BC MODEL ONLY)
- FIELD INTEGRATION
- ELECTRONIC IRIS
- ELECTRONIC SHUTTER
- CS-MOUNT LENS MOUNT (C-MOUNT WITH ADAPTER)
- SIZE: 51(W) x 51(H) x 55.5(D) mm

ANALOG MONOCHROME CASED EIA & CCIR



Models	STC-160	STC-165
Image Sensor:	1/3" IT CCD Monochrome	
Horizontal Resolution:	570 TV Lines	560 TV Lines
Vertical Resolution:	350 TV Lines	410 TV Lines
Signal Format:	EIA	CCIR
Scanning System:	2.1 Interlace	
Integration Mode:	Field	
Frame Rate:	30 fps	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Chip Size (mm):	5.59 (H) x 4.68 (V)	
Cell Size (μm):	6.35 (H) x 7.40 (V)	6.50 (H) x 6.25 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain	AGC / Manual (0-20dB)	
S/N Ratio:	>56dB (AGC Off)	
Gamma:	0.45 / 1.0	
Sync:	Internal / External (HD/VD), Auto Switching by HD Input	
Minimum Illumination:	0.18 Lux @ F1.2, 20 IRE	0.17 Lux @ F1.2, 20 IRE
"H" Version on pg136	0.44 Lux @ F1.2, 50 IRE	0.44 Lux @ F1.2, 50 IRE
Electronic Shutter:	1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000	
Electronic Iris:	1/60 ~ 1/100,000	1/50 ~ 1/100,000
Video Out:	1.0Vp-p, 75Ω	
Lens Mount:	CS Mount, C Mount (w/ adapter), Micro Lens Mount	
Power Supply:	12V DC ± 10%	
Power Consumption:	1.68W, 140mA	
Operating Temperature:	-10° ~ 45° C (14° F ~ 113° F)	
Storage Temperature:	-30° ~ 60° C (-22° F ~ 140° F)	
Dimensions:	51 (W) x 51 (H) x 55.5 (D) mm (2.0" x 2.0" x 2.18")	
Weight:	180g (6.35oz)	

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STC-170BC



STC-170BT

Accessories

Cables

CAB-3BNC
CAB-6BNC
12W-02, 03, 05
12W-2P

Power Supplies

45-601
45-752A
PWR-PSISP-6

Lens Mount

C-Adapter (not for 172 or 177)

STC-170/175 Series

Analog B/W Cased Cameras



STC-170/172 (EIA, 570 TVL)
STC-175/177 (CCIR, 560 TVL)

The STC-170/175 and 172/177 cased camera series is a very low cost series of machine vision cameras. These cameras feature a 1/3" CCD available in either EIA or CCIR. These cameras offer an integration HOLD feature for low light applications, field/frame integration, Internal/ External sync and an Interlace/Non-Interlace output.

FEATURES

- 1/3" OR 1/2" CCD MONOCHROME
- AVAILABLE IN EIA & CCIR FORMATS
- 570 TV LINES HORIZONTAL RESOLUTION
- FIELD / FRAME INTEGRATION
- INTEGRATION HOLD FEATURE
- EXTERNAL SYNC (170/175 BC MODEL)
- INTERLACE / NON-INTERLACE
- CS-MOUNT LENS MOUNT (C-MOUNT WITH ADAPTER)
- SIZE: 51(W) x 51(H) x 55.5(D) mm

ANALOG MONOCHROME CASED EIA & CCIR



Models	STC-170 (EIA) STC-175 (CCIR)	STC-172 (EIA) STC-177 (CCIR)
Image Sensor:	1/3" IT CCD Monochrome	1/2" IT CCD Monochrome
Horizontal Resolution:	570 TV Lines (EIA)	560 TV Lines (CCIR)
Vertical Resolution:		
- Field	350 TV Lines (EIA)	410 TV Lines (CCIR)
- Frame	485 TV Lines (EIA)	575 TV Lines (CCIR)
Signal Format:	EIA or CCIR	
Scanning System:	2.1 Interlace / Non-Interlace (w/external sync)	
Integration Mode:	Field / Frame Switchable	
Frame Rate:	30 fps	
Effective Picture Element:	768 (H) x 494 (V) (EIA)	752 (H) x 582 (V) (CCIR)
Horizontal Frequency:	15.734kHz (EIA)	15.625kHz (CCIR)
Vertical Frequency:	59.94Hz (EIA)	50.00Hz (CCIR)
Integration Hold:	Yes, via Start/Stop TTL Signal, Vertical Reset	
Gain:	AGC / Fixed, Manual (POT Adjustable)	
S/N Ratio:	>56dB (AGC Off)	
Gamma:	0.45 or 1.0 Switchable	
Sync:	Internal / External (HD/VD), Auto Switching by HD Input	
Minimum Illumination:	0.01 Lux @ F1.2, 20 IRE (AGC On) 0.04 Lux @ F1.2, 50 IRE (AGC On) <i>"H" Version on pg136</i>	
Electronic Shutter:	1/30, 1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000	
Electronic Iris:	N/A	
Video Out:	1.0Vp-p, 75Ω	
Lens Mount:	CS and C Mount (w/ adapter)	C Mount
Power Supply:	12V DC ± 10%	
Power Consumption:	1.68W, 140mA	
Operating Temperature:	-10° ~ 45° C (14° F ~ 113° F)	
Storage Temperature:	-30° ~ 60° C (-22° F ~ 140° F)	
Dimensions:	51 (W) x 51 (H) x 55.5 (D) mm (2.04" x 2.04" x 2.22")	
Weight:	180g (6.35 oz)	

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STC-700 Series

Analog B/W Cased Cameras



STC-700 (EIA) / 705 (CCIR) 2/3"
STC-720 (EIA) / 725 (CCIR) 1/2"
STC-730 (EIA) / 735 (CCIR) 1/3"

The real workhorse of the area scan CCD machine vision cameras is the STC-700 series. The STC-700 is a compact, full-featured CCD camera that comes in 2/3", 1/2", and 1/3" CCD formats. Features trigger functionality, Field / Frame Integration, Internal / External Sync and much more.

FEATURES

- 1/3", 1/2" OR 2/3" CCD MONOCHROME
- 2.1 INTERLACE / NON-INTERLACE
- EIA OR CCIR FORMATS
- 570 TV LINES
- INTERNAL OR EXTERNAL SYNC (HD/VD)
- FRAME AND FIELD INTEGRATION
- FULL TRIGGER FUNCTION
- C-MOUNT
- SIZE: 44(W) x 29(H) x 60(D) mm

Accessories

Cables

12W-0.45
12W-02, 03, 05
CAB-3BNC
CAB-6BNC

Connectors

Hirose: HR10-10P-12S
Hirose: HR10-10R-12P

Power Supplies

PWR-PSISP-6

Lenses

Various C-Mount Lenses
Various Telecentric Lenses

Tripod Mount

TP-700

ANALOG MONOCHROME CASED



Models	STC-700 (EIA) STC-705 (CCIR)	STC-720 (EIA) STC-725 (CCIR)	STC-730 (EIA) STC-735 (CCIR)
Image Sensor (Monochrome):	2/3" IT CCD	1/2" IT CCD	1/3" IT CCD
Horizontal Resolution:	570 TV Lines (EIA) 560 TV Lines (CCIR)		
Vertical Resolution:	Field: 320 TV Lines; Frame: 490 TV Lines (EIA) Field: 380 TV Lines; Frame: 580 (CCIR)		
Signal Format:	EIA or CCIR		
Scanning Method:	2.1 Interlace		
Integration Mode:	Field / Frame		
Effective Picture Element:	768 (H) x 494 (V) (EIA) 752 (H) x 582 (V) (CCIR)		
Chip Size (mm):	10.25 (H) x 8.5 (V)	7.95 (H) x 4.65 (V)	6.00 (V) x 4.96 (V)
Cell Size (µm):	- EIA 11.6 (H) x 13.5 (V)	8.4 (H) x 9.8 (V) 8.6 (H) x 8.3 (V)	6.35 (H) x 7.40 (V) 6.50 (H) x 6.25 (V)
Horizontal Frequency:	15.734kHz		
Vertical Frequency:	59.94Hz		
Trigger Method:	Switch Setting Random Shutter Trigger, Variable Integration Random Trigger (Single or Dual Pulse), Reset / Restart (Integration time controlled by external VD)		
Trigger Mode:	Non-Reset / Reset Mode		
WEN:	Active High, H Level = 3~5V, L Level 0~0.6V		
Gain:	Fixed / Manual (0 - 27dB)		
S/N Ratio:	56dB (Gain 0dB)		
Gamma:	0.45 / 1.0		
Sync:	Internal / External (Automatic Switching)		
Minimum Illumination:	0.44 Lux @ F1.2 (AGC: ON), 50 IRE	0.12 Lux @ F1.2 (AGC: ON), 50 IRE	0.16 Lux @ F1.2 (AGC: ON), 50 IRE
Electronic Shutter:	1/30, 1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000		
Video Output:	1.0Vp-p, 75Ω		
Connectors:	12 Pin Hirose, BNC		
Lens Mount:	C Mount		
Optical Filter:	No IR Filter		
Shock and Vibration:	Shock: 70G (3 directions, 3 times each), Vibration: 10G (20 to 200Hz)		
Operation Temperature:	-10°C ~ 45°C (14°F ~ 113°F)		
Storage Temperature:	-30°C ~ 60°C (-22°F ~ 140°F)		
Power Supply:	12V DC		
Dimensions:	44 (W) x 29 (H) x 60 (D) mm (1.76" x 1.16" x 2.4")		
Weight:	97g (3.42 oz.)		

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STL-5150/7400

Digital Line Scan Cameras



STL-7400RCL



STL-7400RCL
STL-5150UCL



The new STL-7400RCL is a very compact, low cost, accurate, high speed 7.4K line scan camera which features CameraLink® digital output.

Accessories

Cables

CAB-UFD3M
CAB-UFD10M

FEATURES

- HIGH RESOLUTION OF 5150 OR 7400 PIXELS
- 40 OR 100 MHZ HIGH SPEED VIDEO RATE LINE SENSOR
- DIGITAL CAMERA LINK® OUTPUT (MEDIUM CONFIGURATION 8 x 10 BIT)
- SMALL SIZE, LIGHT WEIGHT
- NIKON F LENS MOUNT

LINE SCAN CASED 5,150 AND 7,400 PIXELS CAMERALINK®



Model	STL-5150UCL	STL-7400RCL
Number of Pixels:	5150	7,400
Pixel Pitch:	7µm x 7µm	4.7µm x 4.7µm
CCD Effective Element Size:	36.05 mm	34.8 mm
Video Rate:	40MHz (Max)	100MHz (MAX)
Scanning Rate (Scan/Sec.):	7.45kHz	12.7kHz
Line Transfer Pulse Input:	134.2µsec (MIN) 100Ω terminated	79µsec (MIN) 100Ω terminated
Digital Video Output:	Base Configuration 2 x 8 bit	Medium Config. 4 x 8 bit
Sensitivity (V/Lux sec):	50	
Saturation Exposed (Lux Sec):	0.23 (On an Element)	0.13 (On an Element)
Lens Mount:	Standard: Nikon F (Option: Asahi K)	Standard: Nikon F-Mount (Option: Asahi K)
Dynamic Range:	Dynamic Range	2,000 (Standard, On an Element)
Output Uniformity:	Standard 3% at 50% Saturation (On an Element)	
Power Capacity:	+12V ± 0.5V (400mA)	+12V +/- 0.5V (600mA)
Dimensions:	64 (W) x 64 (H) x 80.3 (D) mm (2.56" x 2.56" x 3.21")	
Weight:	360g (12.7 oz.)	

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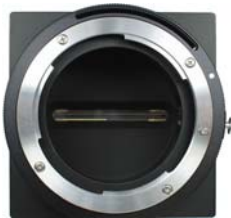
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STL-2048/5150/7450

Digital Line Scan Cameras



STL-5150UFD



STL-7450UFD

Sentech offers three line scan models, featuring 2K, 5K and 7K Sensors from 100 to 9,300 scans/sec

Accessories

Cables

CAB-UFD3M
CAB-UFD10M

Sentech has designed and manufactured line scan cameras on an OEM basis since 1988. In 2002, we introduced our line scan products under our own name for the first time. Our product offerings include state-of-the-art 2K, 5K, and 7K line scan cameras, which feature both analog and digital LVDS outputs. Sentech offers three models:

STL-2048FD 2K Line Scan Camera

- Two Signal Output: 10-bit Digital LVDS and Analog
- 2048 pixel, 20MHz linear sensor
- RS-644 input for driving clock and line transfer pulse signals

STL-5150UFD 5K Line Scan Camera

- Two Signal Output: 10-bit Digital LVDS and Analog
- 5150 pixel, 40MHz linear sensor
- RS-644 input for driving clock and line transfer pulse signals

STL-7450UFD 7K Line Scan Camera

- Two Signal Output: 10-bit Digital LVDS and Analog
- 7450 pixel, 40MHz linear sensor
- RS-644 input for driving clock and line transfer pulse signals

LINE SCAN CASED 2048, 5150 & 7400 PIXELS LVDI OUTPUT



Model	STL-2048FD	STL-5150UFD	STL-7450UFD
Number of Pixels:	2048	5150	7450
Pixel Pitch x Aperture:	14 x 14µm	7x 7µm	4.7 x 4.7µm
CCD Effective Element Size:	28.67mm	36.05mm	35mm
Video Rate:	10 ~ 20MHz	10 ~ 40MHz	
Scanning Rate (Scan/Sec.):	250 ~ 9,300 times	100 ~ 7,500 times	100 ~ 5,000 times
External Clock Video:	2:1	1:1	
Driving Clock Input:	Max.40MHz, RS644 100Ω terminal built in	10 ~ 40MHz, RS644 100Ω terminal built in	
Data Clock Input:	10 ~ 20MHz, RS644	10 ~ 40MHz, RS644	
Line Transfer Pulse Input:	0.11 ~ 4msec, RS644	0.133 ~ 10msec, RS644	0.2 ~ 10msec, RS644
Video Output - Analog:	0 ~ 2.5V 75Ω terminal		
Video Output - Digital:	RS644 Standard Based, (D0 ~ D9+, D0 ~ D9-)		
Sensitivity V/Lux Second:	100	50	
Saturation Exposed (Lux Sec):	0.06	0.125	0.08
Dynamic Range:	2000 (Standard)	5000 (Standard)	1300 (Standard)
Output Uniformity:	Max. 10% at 50% of Saturation Output		
Power Capacity:	+12V ± 0.5V, (450mA Output at No Load)		
Operation Temperature:	0°C ~ 40°C		
Operation Humidity Range:	85% Max.		
Storage Temperature:	-10°C ~ 65°C		
Lens Mount:	Nikon F		
Dimensions:	64(H) x 64(W) x 148(D) mm (2.56" x 2.56" x 5.82")		
Weight:	400g	500g	500g

2K, 5K and 7K Sensors from 100 to 9,300 scans/sec

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STC-R640 Series Cased
Camera Back Panels:



STC-R640AS



STC-R640CC



STC-R640CT

STC-R640/R645

Remote Head Cased Cameras



These cameras offer a remote head micro-packaged 1/4" color CCD in a variety of cable lengths and head orientations. Best of all, Sentech's remote head cameras are only a fraction of what conventional remote head cameras cost.

R640AS

- Analog Control Knobs for DSP Control
 - Gain, Color, Sharpness and Gamma
- BNC for Video Out
- 12 Pin Hirose
 - Power & Y/C Out

R640CC

- Push to Set White Balance Switch
- RS232 Serial I/O for DSP Programming
- BNC for Video Out & Y/C Connector for Y/C Out
- 12 Pin Hirose
 - Power In, Y/C Out & HD/VD In

R640CT

- Terminal Strip Power
- Push to Set White Balance Switch
- RS232 Serial I/O for DSP Programming
- BNC for Video Out & Y/C Connector for Y/C Out
- BNC for VS Sync



REMOTE MICRO HEAD COLOR



NTSC & PAL (2, 3, 5, 10 Meter Cables)

Models	STC-R640	STC-R645
Image Sensor:	1/4" IT CCD Color	
Horizontal Resolution:	480 TV Lines	
Signal Format:	NTSC	PAL
Scanning Method:	2:1 Interlace	
Frame Rate:	30 fps	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain:	AGC / Manual	
S/N Ratio:	> 48dB (AGC:Off)	
Gamma:	0.45 (default), DSP Adjustable (32 steps)	
Sync:	Internal/External VS (CT model) / HD/VD (CC model)	
Minimum Illumination:	1.99 Lux @ F1.2, 50 IRE	2.15 Lux @ F1.2, 50 IRE
White Balance:	Manual / Full Auto / Push-to-Set (CC and CT models only)	
Serial I/O:	RS-232C Controllable (for DSP)	
Electronic Shutter:	1/60 (1/50) ~ 1/10,000 (8 steps)	
Electronic Iris:	1/60 (1/50) ~ 1/10,000	
DSP:	10-Bit, User Programmable	
Video Output:	Composite and Y/C (available on select models)	
Video Output Level:	1.0Vp-p 75 Ω	
Y/C Output Level:	0.7Vp-p 75 Ω	
Lens Mount:	Micro and C-Mount (w/ adapter)	
Power Supply:	DC + 12V ± 10%	
Power Consumption:	2.64W, 220mA	
Operating Temperature:	-10°C ~ 45°C (14°F ~ 113°F)	
Dimensions:	51 (W) x 51 (H) x 55.5 (D) mm (2.04" x 2.04" x 2.22")	
	- Cased Camera CCU - Straight Finished Head 10mm Ø	
Weight:	Cased Camera CCU: 190g (6.7 oz.)	

Accessories

Cables	Power Supplies	Lens Mount	Lenses
CAB-3BNC	45-601	LEN-R640-CL	Model No.
CAB-6BNC	45-752		LEN-R640-L2.7
CAB-6Y/C	45-752A		LEN-R640-L4
12W-3.6PS	PWR-PSISP-6		LEN-R640-L8
	PWR-PSISP-6Y/C6		LEN-R640-L16
			LEN-R640-L1611
			LEN-R640-L2511
			Focal Length
			2.7mm
			4mm
			8mm
			16mm
			16mm
			25mm

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STC-R640/R645

OEM Board Cameras



STC-R640 OEM Module (without cable)

The STC-R640 is the base module for the STC-R640 series cameras. The camera control unit (CCU) is a compact 45 (W) x 45 (H) x 14 (D) mm; whereas the CCD board is 22 (L) x 8 Ø mm. The STC-R640 is offered *without* a mating cable between the CCU and CCD board.



LEN-R640-L8

For many applications, what our customers really want is the CCD and processing module of the camera. This makes it easier for them to put the camera inside of their system or to build a speciality camera for their specific application. In order to support this, Sentech provides these various board level OEM color cameras.

Accessories

Cables

CAB-3BNC
CAB-6BNC
CAB-6Y/C
12W-3.6PS

Power Supplies

45-601
45-752A
PWR-PSI450-6
PWR-PSISP-6Y6C

Lenses

Model No.	Focal Length
LEN-R640-L2.7	2.7mm
LEN-R640-L4	4mm
LEN-R640-L8	8mm
LEN-R640-L16	16mm
LEN-R640-L611	16mm
LEN-R640-L2511	25mm

Lens Mount

LEN-R640-LC

Programming Jig

Jig-ColorUSB

STC-R640C OEM Module

The STC-R640C is the same as the STC-R640 except it is offered with a cable between the CCU and CCD board. The cable length can be 2, 3, 5, or 10 meters and there are a variety of head configurations available.



STC-R640MC & STC-R640HD2

The STC-R640MC with the STC-R640HD2 have the same features as the R640C except that it features a Hirose connector that can be used for OEM applications that require the disconnection of the camera head.

OEM COLOR CAMERAS

NTSC & PAL (2, 3, 5 Meter Cables)

Models	STC-R640	STC-R645
Image Sensor:	1/4" Color CCD	
Horizontal Resolution:	480 TV Lines	
Signal Format:	NTSC	PAL
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Vertical Frequency:	59.94Hz	50.00Hz
Horizontal Frequency:	15.734kHz	15.625kHz
Scanning System:	2:1 Interlace	
Sync System:	Internal/External VS (CT mode) / HD/VD (CC model)	
Serial I/O:	RS-232C Controllable (for DSP)	
Electronic Iris:	1/60 (1/50) ~ 1/10,000	
Shutter Speed:	1/60 (1/50) ~ 1/10,000 (8 steps)	
Minimum Illumination:	1.99 Lux @ F1.2, 50 IRE	2.15 Lux @ F1.2, 50 IRE
Gain:	AGC / Manual	
S/N Ratio:	> 48dB (AGC:OFF)	
Gamma:	0.45 (default), DSP Adjustable (32 steps)	
Lens Mount:	Micro and C-Mount (w/ adapter)	
Video Output (s):	Composite and Y/C (available on select models)	
Video Output Level:	1.0Vp-p 75 Ω	
Y/C Video Output Level:	0.7Vp-p 75 Ω	
DSP:	10-Bit, User Programmable	
White Balance:	Manual / Full Auto / Push-to-Set	
Operating Voltage:	DC + 12V ± 10%	
Power Consumption:	2.64W, 220mA	
Operating Temperature:	-10°C ~ 45°C (14°F ~ 113°F)	
Dimensions:	45 (W) x 45 (H) x 14 (D) mm (1.8" x 1.8" x 0.56")	
	- Board Version CCU - Straight Finished Head 8mm Ø	
Weight:	190g (6.7 oz.) 45g (1.58 oz.)	
	- Cased Camera CCU - Board Version CCU	

STC-R640 Series Board Heads:



Mod# STC-R640L



Mod# STC-R640U



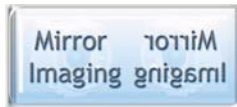
Straight Head
Mod# STC-R640
or
Mod# STC-R40C

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STC-R920/R925

OEM Board Cameras



STC-R920M (EIA, 570 TVL)
STC-R925M (CCIR, 560 TVL)

The STC-R920M is a board level B/W DSP camera specifically developed for silicon wafer inspection. This camera features a 10 bit DSP which is programmable by Sentech for your application. The STC-R920M is a single compact board, slightly larger than a credit card, with a remote head CCD. The CCD board is 25 (W) x 20 (H) mm with a 67mm (2.7") or 120mm (4.7") wire harness separating it from the CCU board.

FEATURES

- 1/2" MONOCHROME CCD FORMAT
- 2:1 INTERLACE
- 570 TV LINES
- DSP PROGRAMMABLE
- MIRROR IMAGING
- FIELD OR FRAME ACCUMULATION
- EIA OR CCIR FORMATS
- CABLE LENGTH:
 - STC-R920/925M (2.9" HEAD CABLE)
 - STC-R920/925MB (4.7" HEAD CABLE)

Accessories

Cables

12W-0.45
12W-02, 03, 05
CAB-3BNC
CAB-6BNC

Connectors

Hirose: HR10-10P-12S
Hirose: HR10-10R-12P

Power Supplies

45-601
45-752
45-752A
PWR-PSISP-6
PWR-PSISP-6YC6

Lenses (Mount not Included)

Various CS-Mount Lenses
Various C-Mount Lenses
Various Telecentric Lenses

OEM CAMERAS MONOCHROME EIA & CCIR



Models	STC-R920M	STC-R925M
Image Sensor:	1/2" Monochrome CCD	
Horizontal Resolution:	570 TV Lines	560 TV Lines
Vertical Resolution:	350 TVL (Field Integration) 485 TVL (Frame Integration)	410 TVL (Field Integration) 575 TVL (Frame Integration)
Signal Format:	EIA	CCIR
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Chip Size (mm):	7.40 (H) x 5.95 (V)	
Cell Size (µm):	8.4 (H) x 9.8 (V)	8.6 (H) x 8.3 (V)
Vertical Frequency:	59.94Hz	50.00Hz
Horizontal Frequency:	15.734kHz	15.625kHz
Scanning Systems:	2:1 Interlace	
Electronic Shutter:	1/30 (EIA Default Setting)	1/25 (CCIR Default Setting)
Minimum Illumination:	0.05 Lux @ F1.2, 50 IRE	
Gain:	Sentech Programmable	
S/N Ratio:	56 dB (Gain Minimum)	
Gamma:	1.0 Sentech Programmable	
Integration Mode:	Field / Frame (DSP Selectable)	
DSP:	10 bit DSP	
Video Output:	1.0 vpp, 75 Ω	
Connections:	10-pin wire harness (Power, Syn, Video)	
Power Supply:	DC + 12V ± 10%	
Power Consumption:	1.76W, 147mA	
Operating Temperature:	-10° C ~ 45° C (14°F ~ 113°F)	
Storage Temperature:	-30° C ~ 60° C (-22°F ~ 140°F)	
Dimensions:	Main Board: 50(W) x 12.2(H) x 75(D) mm CCD Board: 25(W) x 20(H) x 9(D) mm (not including connectors)	
Weight:	23g (0.81 oz.)	

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LEN-C2.7

Accessories

Cables

CAB-3BNC
CAB-6BNC
CAB-6Y/C
12W-3.6PS

Power Supplies

45-601
45-752A

Lenses (No mount provided)

Model No.	Focal Length
LEN-C2.3	2.3mm
LEN-C2.7	2.7mm
LEN-C4	4mm
LEN-C8	8mm
LEN-P3.2	3.2mm
LEN-P3.7	3.7mm

Lens Mount

C-Mount Adapter

Programming Jig

Jig-ColorUSB
Jig-630

EGE-F22/32/42 Series

OEM Board Cameras



EGE-F22N/P (1/2")
EGE-F32N/P (1/3")
EGE-F42N/P (1/4")

The EGE-F series is based on high-resolution 1/4", 1/3" and 1/2" CCDs. With a flexible printed circuit cable (FPC) connecting the main camera boards and the CCD board, the EGE-F offers very flexible integration to almost any application. Sentech also offers a two-headed version of this camera for very special applications.

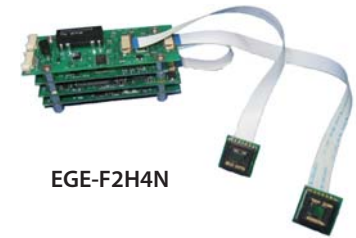
FEATURES

- 1/4", 1/3" & 1/2" COLOR IT CCDs
- NTSC & PAL FORMATS
- PROGRAMMABLE 10BIT DSP
- 480 TV LINES
- EXTENDED INTEGRATION
- 2 BIT STATUS OUTPUT
- AVAILABLE IN A TWO-HEADED CCD CONFIGURATION
- AUTO, MANUAL, PUSH TO SET WHITE BALANCE
- 6 - 8V DC POWER
- COMPACT SIZE:
CCU: 26 (W) x 19 (H) x 60 (D) mm
HEAD: 12 (W) x 12 (H) x VAR. (D) mm

OEM CAMERAS

COLOR

NTSC & PAL



EGE-F2H4N

Models	EGE-F22N EGE-F22P	EGE-F32N EGE-F32P	EGE-F42N EGE-F42P
Image Sensor:	1/2" Color IT CCD	1/3" Color IT CCD	1/4" Color IT CCD
Signal Formats:	Available in NTSC & PAL formats		
Effective Picture Elements:	NTSC: 768 (H) x 494 (V) PAL: 752 (H) x 582 (V)		
Connection to CCU:	Flex Ribbon Cable (length can vary 1 to 6 inches)		
Special Configuration:	Available in a two-headed CCD configuration		
Vertical Frequency:	NTSC: 59.94Hz PAL: 50.00Hz		
Horizontal Frequency:	15.734kHz		
Horizontal Resolution:	480 TV Lines		
Sync System:	Internal		
Electronic Iris:	1/60 to 1/10,000 second		
Shutter Speed:	Extended Integration: 2FLD to 16 FLD (8 Steps)		
High Speed:	1/60 (1/50) to 1/10,000 second (8 Steps)		
Negative/Positive:	DSP Selectable		
Minimum Illumination:	- NTSC 0.42 Lux @ F1.2, 20 IRE - PAL 0.24 Lux @ F1.2, 20 IRE	0.43 Lux @ F1.2, 20 IRE 0.26 Lux @ F1.2, 20 IRE	0.41 Lux @ F1.2, 20 IRE 0.7 Lux @ F1.2, 20 IRE
S/N Ratio:	< 48dB (AGC Off)		
Gamma:	0.45 (DSP Adjustable)		
AGC:	On/Off (0 to 18 dB)		
Video Out:	1.0 Vp-p, 75 Ω		
Y/C Out:	0.7 Vp-p, 75 Ω		
White Balance:	Auto / Manual / Push-to-Set		
Aperture Gain:	Off / On (On has 2 levels - user definable)		
Status Feedback:	2-Bit status output		
Back Light:	Back light compensation at electronic shutter		
Power Required:	6 - 8 V DC		
Power Consumption:	1.89W, Approximately 240 mA, variation is CCD dependent		
CCU Dimensions:	26 (W) x 19 (H) x 60 (D) mm (1.04" x 0.8" x 2.4")		
CCD Head Dimensions:	12 (W) x 12 (H) mm (0.48" x 0.48")		
Weight:	26 g (0.91 oz.)		

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LEN-R640-L16

Accessories

Cables

CAB-3BNC
CAB-6BNC
CAB-6Y/C
12W-3.6PS

Power Supplies

45-601
45-752A

Lenses

Model No.	Focal Length
LENPT47M1	4.7mm
LEN-R640-L2.7	2.7mm
LEN-R640-L4	4mm
LEN-R640-L8	8mm
LEN-R640-L16	16mm
LEN-R640-L611	16mm
LEN-R640-L2511	25mm

Lens Mount

LEN-R640-LC

Programming Jig

Jig-ColorUSB
Jig-630

EGE-W45 Series

OEM Board Cameras



EGE-W45N

EGE-W45N (NTSC, 480 TVL)

EGE-W45P (PAL, 480 TVL)

The EGE-W series utilizes a 1/4" high resolution, micro-package CCD. The CCD is connected to the processing boards with a wire harness. This provides better reliability in applications requiring frequent flexing or repositioning of the CCD head.

FEATURES

- 1/4" COLOR CCD FORMAT
- NTSC & PAL FORMATS
- PROGRAMMABLE 10BIT DSP
- 480 TV LINES
- EXTENDED INTEGRATION
- 2 BIT STATUS OUTPUT
- AUTO, MANUAL, PUSH TO SET WHITE BALANCE
- 6 - 8V DC POWER
- COMPACT SIZE
- CCU: 26 (W) x 19 (H) x 60 (D) mm
- CCD: 8 mm Ø

OEM CAMERAS COLOR NTSC & PAL



Models	EGE-W45N	EGE-W45P
Image Sensor:	1/4" Color IT CCD	
Horizontal Resolution:	480 TV Lines	
Signal Format:	NTSC	PAL
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 494 (V)
Vertical Frequency:	59.94Hz	50.00Hz
Horizontal Frequency:	15.734kHz	
Connection to CCU:	Wiring harness (length can vary 1 to 6 inches)	
Sync System:	Internal	
Electronic Shutter:	1/60 to 1/10,000 second	
Fixed Shutter:	Low Speed: 2FLD to 16FLD (8 steps) High Speed: 1/60 to 1/10,000 (8 Steps)	
Minimum Illumination:	0.46 Lux @ F1.2, 20 IRE	
S/N Ratio:	< 48dB (AGC Off)	
Gamma:	0.45 (DSP Adjustable)	
AGC:	On/Off (0 to 18 dB)	
Video Out:	1.0 Vp-p, 75 Ω	
Y/C Out:	0.7 Vp-p, 75 Ω	
White Balance:	Auto / Manual / Push-to-Set	
Aperture Gain:	Off / On (On has 2 levels - user definable)	
Status Feedback:	2-Bit status output	
Negative/Positive:	DSP Selectable	
Back Light:	Back light compensation at electronic shutter	
Power Required:	6 - 8 V DC	
Power Consumption:	1.89W, 270 mA, variation is CCD Dependent	
CCU Dimensions:	26 (W) x 19 (H) x 60 (D) mm (1.04" x 0.8" x 2.4")	
CCD Head Dimensions:	8mm Ø	
Weight:	35g (1.23 oz.)	

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*Monochrome
Board CCD
Cameras*



STC-E631



See Pages 98-99

Lenses

Sentech Camera Lenses



Monochrome Board-Level Micro Lenses STC-130, 160, 170, E631

Model	Focal Length	F-Stop
LEN-B2.5	2.5mm	F3.5
LEN-B3.6	3.6mm	F5.0
LEN-B6	6.0mm	F3.5
LEN-B8	8.0mm	F2.0
LEN-B16	16.0mm	F1.8



Color Board-Level Camera Micro Lenses STC-600, N/P63, N/P631, N/P632

Model	Focal Length	F-Stop
LEN-C2.3	2.3mm	F3.5
LEN-C2.7-C	2.7mm	F2.0
LEN-C4-C	4mm	F3.5
LEN-C6-C	6mm	F2.0
LEN-C8-C	8mm	F2.0
LEN-P3.2	3.2mm	F4.5
LEN-P3.7	3.7mm	F4.5



Color Board-Level Camera Micro Lenses STC-N64/P64, N54/P54

Model	Focal Length	F-Stop
LEN-N64 L2.0	2.0mm	F2.0
LEN-N64 L2.3	2.3mm	F2.7
LEN-N64 L3.0	3.0mm	F3.0
LEN-N54 P2.9	2.9mm	F2.9
LEN-N54 P3.7	3.7mm	F3.7

Lenses



Remote Head CameraLink® Micro Lenses STC-RCL33A Series

Model	Focal Length
LEN-RCL33A-L3	3mm
LEN-RCL33A-L6	6mm
LEN-RCL33A-L16	16mm
LEN-RCL33A-L30	30mm



Color Remote Micro Head Camera Micro Lenses STC-R640 Series

Model	Focal Length	F-Stop
LEN-R640-L2.7	2.7mm	F2
LEN-R640-L4	4.0mm	F2.5
LEN-R640-L8	8.0mm	F2.5
LEN-R640-M6.8	6.8 mm Macro Lens	F15.2
LEN-R640-L16	16mm	F2.5
LEN-R640-L611	16mm	F11
LEN-R640-L2511	25mm	F11

Speciality Remote Micro Head OEM Micro Lenses STC-R640 Series

LEN-PT47M1	F2.3, 4.7mm Super Micro Lens with Manual Iris
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Lens Adapters

C-ADPTR	C-Mount Adapter Ring for CS-Mount Cameras (5mm)
LEN-R640-LC	C-Mount Adapter for STC-R640 Series Micro Lens Mounts



Custom OEM Micro Lenses Available.

Contact Sentech America for more details.

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*Remote
Micro-Head Color
CCD Cameras*



STC-R640CT

See Page 122-123

Accessories for Cameras

Sentech Camera Accessories



Camera Cables

CameraLink® Cables

CAB-CL2M-MINI	2m Standard to Mini Connector
CAB-CL3M-MINI	3m Standard to Mini Connector
CAB-CL5M-MINI	5m Standard to Mini Connector
CAB-CL10M-MINI	10m Standard to Mini Connector
CAB-CL2M-M2M	2m Mini to Mini Connector
CAB-CL3M-M2M	3m Mini to Mini Connector
CAB-CL5M-M2M	5m Mini to Mini Connector
CAB-CL10M-M2M	10m Mini to Mini Connector

Line Scan Cables

CAB-UFD3M	3m Digital Cable for Line Scan Cameras
CAB-UFD10M	10m Digital Cable for Line Scan Cameras

MV Hirose Cables

12W-2P	Power Cable with a 12 Pin Hirose and +/- Power Spades
12W-02	2m Cable w/ two 12 Pin Hirose Connectors
12W-03	3m Cable w/ two 12 Pin Hirose Connectors
12W-05	5m Cable w/ two 12 Pin Hirose Connectors
12W-0.45	18" cable w/ two 12 Pin Hirose Connectors, male & female

USB Cables

CAB-6USB A-B	6' USB 2.0 Cable, A & B Connector
CAB-6USB A-B Lock	6' USB 2.0 Lock Cable, A & B Connector
CAB-6USB A-M	6' USB 2.0 Cable, A & M (Mini Connector)
CAB-6USB A-M Lock	6' USB 2.0 Lock Cable, A & M (Mini Connector)

Video Cables

12W-3.6PS	12 Pin Hirose (Camera Side) & splits to Y/C Out and Power on a Y split
CAB-3BNC	3' BNC to BNC, Shielded
CAB-6BNC	6' BNC to BNC, Shielded
CAB-6Y/C	6' Y/C to Y/C (S-Video), Shielded

Custom Cables Available - Contact Sentech America for more details.

Accessories for Cameras

Connectors

COM-HR10A-10P-12S	12-Pin Hirose Connector, Cable
COM-HR10-10R-12P	12-Pin Hirose Connector, Panel Mount



Digital Signal Processing (DSP) Communication Accessories

JIG-COLORUSB	DSP Interface Jig for DSP Programming of all Sentech cameras, connects via USB ports
--------------	--



Power Supplies

45-601	Regulated 12V DC, 1.5amps, 100-240V AC Input a/ Jack Connector
45-752	Regulated 12V DC, 1.2 amps with Jack Connector
45-752A	Regulated 12V DC, 1.2 amps, spade attachment
PW-DC12-500R	12V DC Supply 500mA with Jack Connector
PW-PSI450-6	12V DC Supply w/ 6 Pin Hirose Connector for CameraLink®
PW-PSISP-6	12V DC Supply with 12 Pin Hirose
PW-PSISP-6YC6	12V DC Supply with 12 Pin Hirose Connector In, Y/C Connector Out



Tripod Mounts:

TP-300	Tripod Mount for STC-400 and STC-1000 Series Cameras
TP-700	Tripod Mount for STC-700 Series Cameras
TP-HCA	Camera Mount for Analog Cube Cameras and CameraLink® Cameras, includes 6 mounting screws



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High Sensitivity Cameras

EXview Low Light CCD

Many Sentech cameras are available with EXview High Sensitivity CCDs. If your application or system could benefit by having an excellent image quality with significantly less light, this product set will be interesting to you.

Board Level, Monochrome CCD Cameras (EIA or CCIR)

Models	Minimum Illumination	See Pages
STC-H130/H135	0.04 Lux @ F1.2, 20 IRE	100 - 101
STC-H160/H165	0.11 Lux @ F1.2, 20 IRE	102 - 103
STC-H170/H175	< 0.01 Lux @ F1.2, 20 IRE	104 - 105
STC-H172/H177	< 0.01 Lux @ F1.2, 20 IRE	106 - 107

Board Level, Color CCD Cameras (NTSC or PAL)

Models	Minimum Illumination	See Pages
STC-HN63/HP63	0.26 Lux @ F1.2, 20 IRE	90 - 91
STC-H620/H625	0.34/0.23 Lux @ F1.2, 20 IRE	92 - 93
STC-H630/H635	0.26/0.22 Lux @ F1.2, 20 IRE	92 - 93

Cased Level, Monochrome CCD Cameras (EIA or CCIR)

Models	Minimum Illumination	See Pages
STC-HE42A/HC42A	0.04/0.01 @ F1.2, 20 IRE	108 - 109
STC-HE43A/HC43A	0.01/0.01 @ F1.2, 20 IRE	108 - 109
STC-H131/H136BT	0.04 Lux @ F1.2, 20 IRE	110 - 111
STC-H160/H165BC	0.11 Lux @ F1.2, 20 IRE	112 - 113
STC-H170/H175BC	< 0.01 Lux @ F1.2, 20 IRE	114 - 115
STC-H172/H177BC	< 0.01 Lux @ F1.2, 20 IRE	114 - 115

Cased Level, Color CCD Cameras (NTSC or PAL)

Models	Minimum Illumination	See Pages
STC-HN63/HP63	0.26 Lux @ F1.2, 20 IRE	94 - 95
STC-H620/H625	0.34/0.23 Lux @ F1.2, 20 IRE	96 - 97
STC-H630/H635	0.26/0.22 Lux @ F1.2, 20 IRE	96 - 97

OEM Color CCD Cameras (NTSC or PAL)

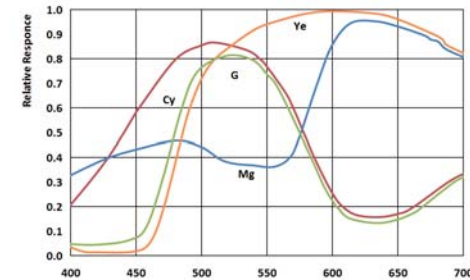
Models	Minimum Illumination	See Pages
EGE-HF22N	0.34/0.23 Lux @ F1.2, 20 IRE	128 - 129
EGE-HF32N	0.26/0.22 Lux @ F1.2, 20 IRE	128 - 129

Remote Head Monochrome CCD Cameras (NTSC or PAL)

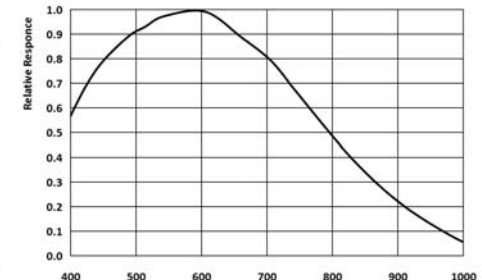
Models	Minimum Illumination	See Pages
STC-HR170	0.01 Lux @ F1.2, 20 IRE	104 - 105

CCD Spectral Response Charts

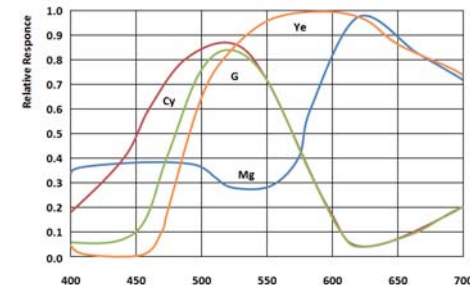
1/2" Color CCD: ICX248AKL



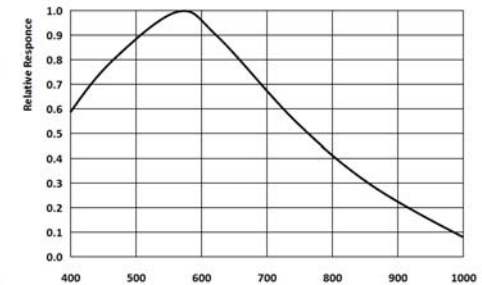
1/2" B/W CCD: ICX248ALL



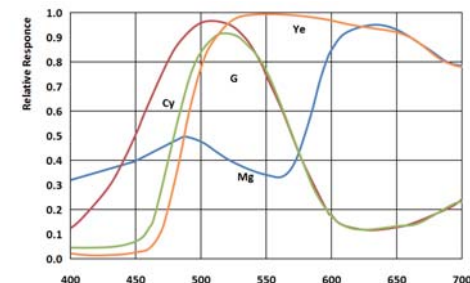
1/3" Color CCD: ICX258AK



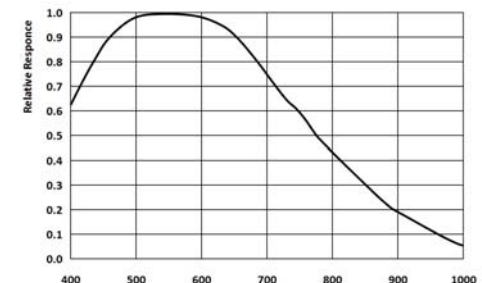
1/3" B/W CCD: ICX258AL



1/4" Color CCD: ICX278AK



1/4" B/W CCD: ICX278AL



New! Sentech

e-Commerce

Sentech is excited to announce the launch of the new e-Commerce section of our website.

Our goal is to help you streamline and simplify the way to access product data which includes price quotes, inventory stock, and technical documentation.

New Features Will Include:

- EFFORTLESS USABILITY
- MORE STREAMLINED QUOTING
- PRODUCT SEARCH PAGE THAT IS EASIER TO USE AND MORE ROBUST.
- STORE SETTINGS ARE BETTER
- ORGANIZED AND EASIER TO FIND
- ACCESS TO STOCK AVAILABILITY



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Coming Fall 2009

Visit us at
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