

Sentech America
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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)

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

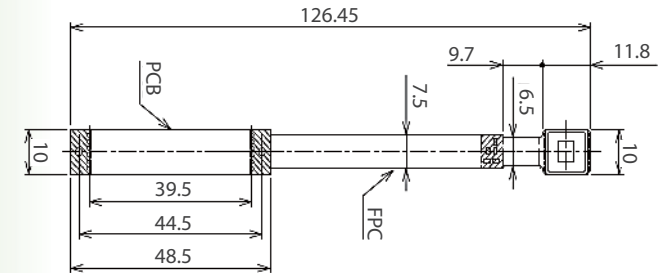
The STC-DN64 (NTSC) and the STC-DP64 (PAL) are super small color cameras with the CCD located on a flexible ribbon cable. The CCU for these units is only 10mm(W) x 48.5mm(L). This camera was designed to fit inside of an instrument the size of a fat ball point pen.

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")

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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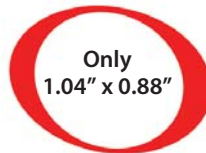
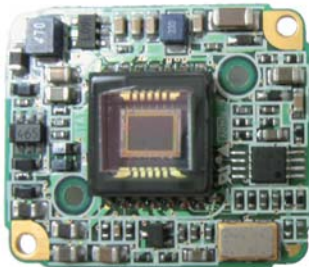
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STL-N64L2.3

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 Adaptor

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

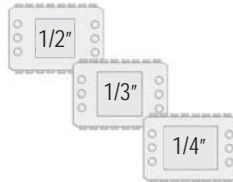
C-Adapter

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



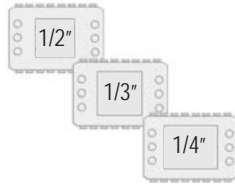
Models	STC-N63	STC-P63
Image Sensor:	1/3" IT CCD Color	
Horizontal Resolution:	480 TV Lines	
Signal Format:	NTSC	PAL
Scanning Method:	2.1 Interlace	
Effective Picture Element:	768 (H) x 494 (V)	752 (H) x 582 (V)
Horizontal Frequency:	15.734kHz	15.625kHz
Vertical Frequency:	59.94Hz	50.00Hz
Gain:	AGC / 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	
"H" Version on pg136	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 - PAL 0.24 Lux @ F1.2, 20 IRE	0.43 Lux @ F1.2, 20 IRE 0.26 Lux @ F1.2, 20 IRE	0.56 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.)		