

## STC-400HOL

The STC-400 Series is a collection of products to fit a wide variety of applications. The STC-400 Series comes in 1/3" and 1/2" CCD formats and in compact, remote head, and "L" shaped camera housings. With selectable shutter speeds from 1/60 to 1/10,000 of a second, the STC-400 Series cameras can capture scenes and virtually any speed crisply and clearly.



**STC-400HOL**  
Available with or without I/R Filter  
Image shown not actual size

### Features

- 1/2" IT CCD
- Monochrome
- EIA & CCIR Formats
- Field/Frame Integration
- Compact
- Integration HOLD Feature
- Fixed Shutter
- Pixel Clock Out
- C-Mount Lens Mount
- Selectable Shutter Speeds

### Specifications >>

<b>Image Sensor:</b>	Black & White: 1/2" Interline CCD (ICX418ALL)
<b>Effective Picture Element:</b>	768 (H) x 494 (V)
<b>Signal Format:</b>	EIA (Also Available in CCIR Format - STC-405HOL)
<b>Cell Size:</b>	8.4 (H) x 9.8 (V) $\mu$ m
<b>Vertical Frequency:</b>	15.734 kHz $\pm$ 1%
<b>Horizontal Frequency:</b>	14.31818 MHz
<b>Horizontal Resolution:</b>	570 TV Lines
<b>Vertical Resolution:</b>	Frame Charge: 485 TV Lines Field Charge: 350 TV Lines
<b>Chip Size:</b>	7.95 (H) x 6.45 (V)
<b>Scanning Area:</b>	6.45 (H) x 4.84 (V) mm
<b>Scanning System:</b>	2:1 Interlace or Non-Interlace
<b>Optical Black:</b>	43 Elements On Each Horizontal Line 14 Elements On Each Vertical Line
<b>Electronic Shutter:</b>	8 steps to 1/10,000
<b>Sync System:</b>	Internal or External (HD/VD) Automatically / HOLD
<b>Minimum Illumination (Standard):</b>	0.05 Lux @ F 1.4 (AGC: On), 50 IRE
<b>Minimum Illumination (H Version):</b>	0.03 Lux @ F 1.4 (AGC: On), 50 IRE
<b>S/N Ratio:</b>	>56dB (AGC Off)
<b>Gamma:</b>	0.45 or 1.0 switchable
<b>Lens Mount:</b>	C- Mount
<b>Gain:</b>	Fixed/Manual (0 - 25dB) Selectable
<b>Video Out:</b>	Composite Video 1.0Vp-p 75 $\Omega$
<b>Charge Accumulation:</b>	Field/Frame Integration
<b>Clock Out:</b>	14.31818 MHz (Internal HD/VD)
<b>Power Supply:</b>	12V DC
<b>Power Consumption:</b>	180mA
<b>Operating Temperature:</b>	-10°C ~ 45°C (14°F ~ 113°F)
<b>Storage Temperature:</b>	-30°C ~ 60°C (-22°F ~ 140°F)
<b>Vibration Resistance:</b>	7G (20Hz - 220Hz)
<b>Dimensions:</b>	31 (W) x 29 (H) x 65 (D) mm (1.24" x 1.16" x 2.6")
<b>Weight:</b>	85g (3 oz.)

Sensor Technologies America, Inc.

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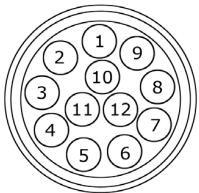
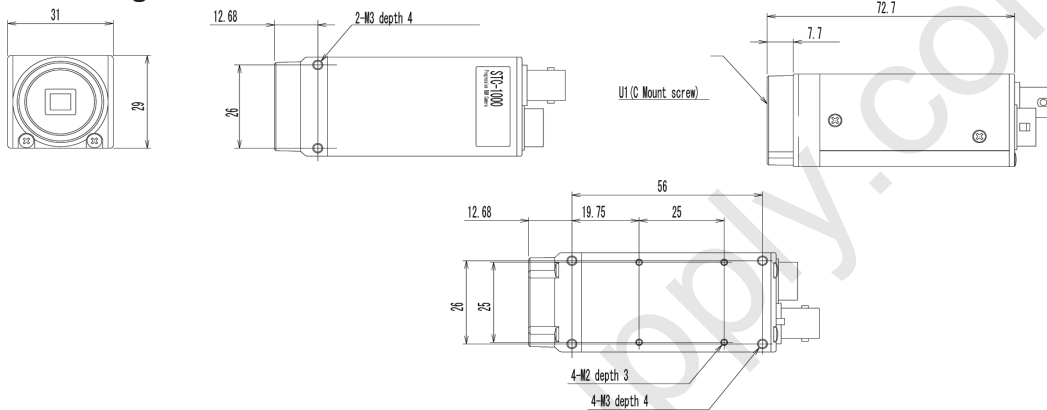
For design help, accessories or pricing, please contact:  
sales@avsupply or call: 1-858-565-1101

## >> STC-400HOL

Back Panel



## Mechanical Drawings



### 12 Pin Connector

	Internal	External
1	GND	GND
2	+12V	+12V
3	Video GND	Video GND
4	Video Out	Video Out
5	HD GND	HD GND
6	HD Out	HD Out
7	VD Out	VD In
8	GND	GND
9	Hold In	Hold In
10	Hold GND	Hold GND
11	+12V	+12V
12	VD GND	VD GND

Camera side connector - HR10A-10R-12PB (Hirose)  
Mating connector- HR10A-10P-12S (Hirose)

**Note:** (Dimensions are given in mm)

### Internal Switches

#### a) Frame Integration Mode

Shutter Speed	Switch Settings				
	SW1	SW2	SW3	SW4	SW5
1/30	Either	Either	Either	ON	ON
1/60	OFF	OFF	OFF	OFF	ON
1/100	ON	OFF	OFF	OFF	ON
1/250	OFF	ON	OFF	OFF	ON
1/500	ON	ON	OFF	OFF	ON
1/1000	OFF	OFF	ON	OFF	ON
1/2000	ON	OFF	ON	OFF	ON
1/4000	OFF	ON	ON	OFF	ON
1/10000	ON	ON	ON	OFF	ON

#### b) Field Integration Mode

Shutter Speed	Switch Settings				
	SW1	SW2	SW3	SW4	SW5
1/30	Either	Either	Either	ON	ON
1/60	OFF	OFF	OFF	OFF	ON
1/100	ON	OFF	OFF	OFF	ON
1/250	OFF	ON	OFF	OFF	ON
1/500	ON	ON	OFF	OFF	ON
1/1000	OFF	OFF	ON	OFF	ON
1/2000	ON	OFF	ON	OFF	ON
1/4000	OFF	ON	ON	OFF	ON
1/10000	ON	ON	ON	OFF	ON

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