

STC-1100A

The STC-1100 was so popular with our customers, we expanded the series into another set of product offerings. Utilizing the basic features and functions of the STC-1000 series, Sentech developed the STC-1100 series cameras. The STC-1100 series cameras come in four different versions to fit a wide variety of progressive scan applications.



STC-1100A

Single or double pulse variable integration shutter trigger, new standard for pin assignment (M-trig: Pin#11)

Image shown not actual size

Features

- 1/3" CCD Formats
- Monochrome
- Double-Speed Progressive Scan
- Random Shutter Trigger
- Internal or External (HD/VD)

- **STC1100B** - Single or double pulse variable integration shutter trigger, traditional standard for pin assignment (M-trig: Pin#7)
- **STC1100C** - Single pulse variable integration shutter trigger (positive "+" polarity input) - (M-trig: Pin#9)
- **STC1100D** - Single pulse variable integration shutter trigger (negative "-" polarity input) - (M-trig: Pin#9)

Specifications >>

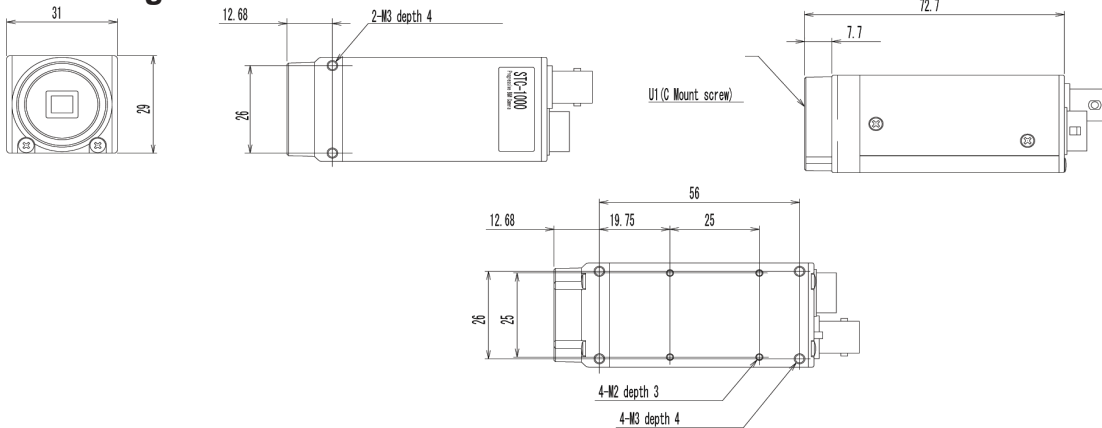
Image Sensor:	B/W 1/3" 659 (H) x 494 (V) Interline CCD (ICX424AL)
Scanning System:	VGA Progressive Scan / EIA 2:1 Interlace
Chip Size:	5.79 (H) x 4.89 (V) mm
Cell Size:	7.4 (H) x 7.4 (V) μ m
Scanning Area:	4.88 (H) x 3.66 (V) mm
CCD V Drive Frequency:	Double Speed = 31.468 KHz, Normal = 15.734 KHz
CCD H Drive Frequency:	Double Speed = 24.5454 KHz, Normal = 12.2727 KHz
Horizontal Resolution:	495 TV Lines
Vertical Resolution:	495 TV Lines
Normal Speed Scan Modes:	30 frames per second
Double Speed Scan Modes:	60 frames per second
Gamma:	0.45 or 1.0
Sync System:	Internal or External (HD/VD)
Gain:	AGC/Fixed/Manual (0 - 25dB)
Minimum Illumination:	Normal Speed: 0.34 Lux @ F 1.2 (AGC: ON), 50 IRE Double Speed: 1.0 Lux @ F1.2, (AGC:ON), 50 IRE
Shutter Speed:	Normal Speed: (8 steps) 1/60 to 1/10,000 second Double Speed: (8 steps) 1/120 to 1/20,000 second
S/N Ratio:	>56dB (AGC Off)
Trigger Modes:	Single or Double Pulse Variable Integration Vertical Drive Reset
Random Trigger Shutter:	Shutter Speed: 16.7ms -50 μ s
Video Out:	VS 1.0Vp-p 75 Ω
Power Supply:	12V DC
Power Consumption:	Normal Speed: 180mA, Double Speed: 210mA
Operating Temperature:	-10°C ~ 45°C (14°F ~ 113°F)
Storage Temperature:	-30°C ~ 60°C (-22°F ~ 140°F)
Weight:	85g (3 oz.)
Dimensions:	31 (W) x 29 (H) x 73 (D) mm

>> STC-1100A

Back Panel

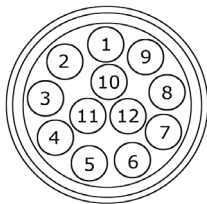


Mechanical Drawings



1. Connector Pin Assignment

Pin No.	Internal	External	
		HD/VD	Trigger Shutter
1	GND	GND	GND
2	+12V	+12V	+12V
3	Video GND	Video GND	Video GND
4	Video Out	Video Out	Video Out
5	HD GND	HD GND	HD GND
6	HD Out	HD IN	HD IN
7	VD Out	VD IN	-
8	-	-	S-Trig GND
9	-	-	S-Trig IN
10	GND	GND	GND
11	-	-	M-Trig In
12	VD GND	VD GND	M-Trig GND



2. DIP Switch Setting

SW No.	Switch Position	Function
1	On	Progressive Mode
	Off	2:1 Interlace Mode
2	On	Internal/External Sync. Mode
	Off	Bulb Trigger Mode
3	On	Normal Speed
	Off	Double Speed
4	On	Manual or Fixed Gain Control
	Off	AGC
5		Shutter Speed Setting (See the Next Chart)
6		
7		
8		
9		
10		
10	On	Two - pulse Bulb Trigger Mode
	Off	One - pulse Bulb Trigger Mode

Mode	Shutter Speed		Switch No.				
	Normal Speed	Double Speed	5	6	7	8	9
FlickerLess	1/100	1/200	ON	ON	-	-	-
OFF	Shutter Off (Note 1)	Shutter Off (Note 2)	OFF	OFF	-	-	-
	1/60	1/120	ON	OFF	OFF	OFF	OFF
	1/125	1/250	ON	OFF	ON	OFF	OFF
	1/250	1/500	ON	OFF	OFF	ON	OFF
	1/500	1/1000	ON	OFF	ON	ON	OFF
	1/1000	1/2000	ON	OFF	OFF	OFF	ON
	1/2000	1/4000	ON	OFF	ON	OFF	ON
	1/4000	1/8000	ON	OFF	OFF	ON	ON
	1/10000	1/20000	ON	OFF	ON	ON	ON

Note: (Dimensions are given in mm)

Note 1: 1/30sec in Normal speed progressive mode, 1/60 sec in Normal speed interlace mode
 Note 2: 1/60sec in Double speed progressive mode, 1/120sec in Double speed interlace mode

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