

STC-1001

The STC-1000 Series progressive scan CCD cameras come in two basic models, the STC-1000 and STC-1001. These full-featured, double-speed progressive scan cameras offer exceptional value for excellent quality. These may be the most inexpensive feature rich double speed progressive scan cameras on the market today. These cameras feature double speed or standard scanning switch setting random shutter trigger, and field and frame integration.



STC-1001

Image shown not actual size

Features

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

Specifications >>

Image Sensor:	B/W 1/3" 659 (H) x 494 (V) Interline CCD (ICX424AL)
Scanning System:	VGA Progressive Scan / EIA 2:1 Interlace
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
Optical Black:	Horizontal: 33pixel Vertical: 10pixel
Gamma:	0.45 or 1.0
Lens Mount:	C Mount
Sync System:	Internal or External (HD/VD)
Gain:	AGC/Fixed/Manual (0 - 25dB)
Minimum Illumination:	Normal Speed: 0.2 Lux @ F 1.2 Double Speed: 0.8 Lux @ F 1.2
Shutter Speed:	Normal Speed: (8 steps) 1/60 to 1/10,000 second Double Speed: (8 steps) 1/120 to 1/20,000 second
Clock Out:	12.2727 MHz
Video Out:	VS 1.0Vp-p 75 Ω
S/N Ratio:	>56dB (AGC Off)
Trigger Modes:	DIP Switch based random shutter trigger with HD Sync, No WEN output (write inhibit)
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 45 (H) x 73 (D) mm (1.24" x 1.8" x 2.92")

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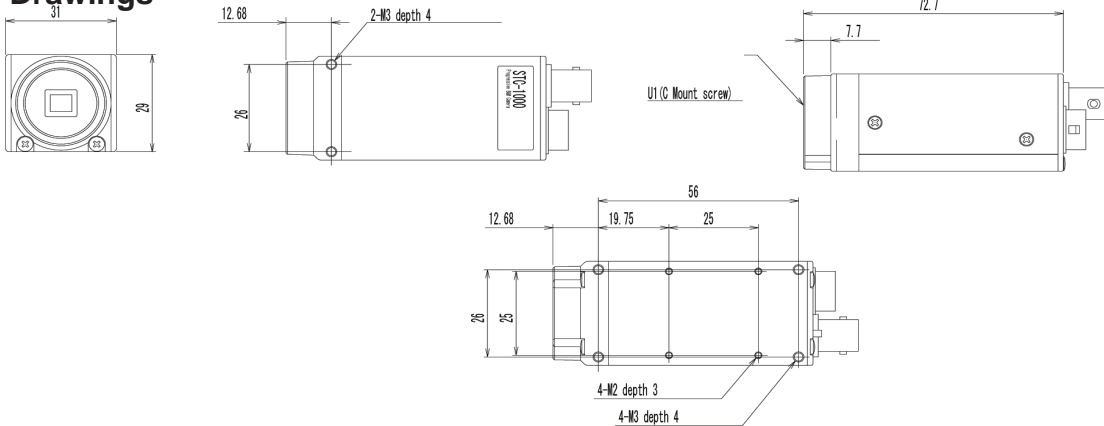
>> STC-1001

Image Sensor: ICX424AL

Back Panel



Mechanical Drawings

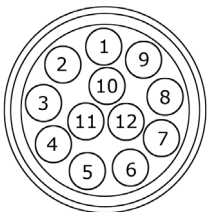


1. Connector Pin Assignment

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	Trig In
8	Clock GND	Clock GND	Clock GND
9	Clock Out	Clock Out	Clock Out
10	GND	GND	GND
11	-	-	-
12	VD GND	VD GND	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	Random Trigger Shutter 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		Not Used



Mode	Shutter Speed		Switch No.				
	Normal Speed	Double Speed	5	6	7	8	9
FlickerLess	1/100	1/200	ON	ON	-	-	-
OFF	Shutter Off	Shutter Off	OFF	OFF	-	-	-
	(Note 1)	(Note 2)					
	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