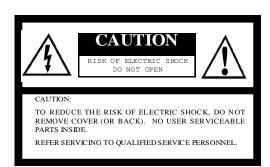
STC-POCL500A STC-POCLC500A Product Specification

Small Cubic Type
5.0 Mega Pixel CCD
Color / Monochrome PoCL Camera Link Camera



Safety Precautions



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The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Warning:

This equipment generates and uses radio frequency energy and if not installed and used properly, I.e., in strict accordance with the instruction manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

For Canada

For U.S.A.

Warning:

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Product Precautions

- Handle the camera with care. Do not abuse the camera. Avoid striking or shaking it. Improper handling
 or storage could damage the camera.
- Do not pull or damage the camera cable.
- During camera use, do not wrap he unit in any material. This will cause the internal temperature of the unit to increase.
- Do not expose the camera to moisture, or do not try to operate it in wet areas.
- Do not operate the camera beyond its temperature, humidity and power source ratings.
- While the camera is not being used, keep the lens or lens cap on the camera to prevent dust or contamination from getting in the CCD or filter area and scratching or damaging this area.
- Do not keep the camera under the following conditions:
 - In wet, moist, and high humidity areas
 - Under hot direct sunlight
 - In high temperature areas
 - Near an object that releases a strong magnetic or electric field
 - Areas with strong vibrations
- Use a soft cloth to clean the camera. Use pressured air spray to clean the surface of the glass. DO not scratch the surface of the glass.



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I. Electronic Specifications / Mechanical Specifications / Environmental Conditions

Product			STC-POCLC500A	STC-POCL500A		
Electronic	Imager		2/3" Interline 5.0 Mega Pixel color	2/3" Interline 5.0 Mega Pixel monochrome		
Specifications			progressive: ICX625AQ progressive: ICX625AL			
	Total Picture E		2456 (H) x 2058 (V)			
	Effective Pictur		2456 (H) x 2058 (V)			
	Active Picture	Elements	2448 (H) x 2058 (V)			
	Chip Size		9.93 (H) x 8.70(V) mm			
	Scanning System Scanning Method		3.45 (H) x 3.45 (V) μm			
			Progressive			
			Full Scanning, Partial Full Scanning, ½ Partial Scanning, ¼ Partial Scanning,	Full Scanning, Partial Full Scanning, ½ Partial Scanning, ¼ Partial Scanning, Variable Partial Scanning, Binning Partial Scanning,		
			Variable Partial Scanning	Binning ½ Partial Scanning, Binning ¼ Partial Scanning, Binning Variable Partial Scanning		
	Vertical Frequency (Frame Rate)			16 Hz		
	Horizontal Free		33	3.264 kHz		
	Pixel Frequenc			64 MHz		
	S/N Ratio	@ 8bit output	<= 4 Di	git (Gain 0 dB)		
	(Standard	@ 10bit output	<= 15 D	igit (Gain 0 dB)		
	Deviation)	@ 12bit output	<= 60 D	igit (Gain 0 dB)		
	Minimum Scene Illumination		0.32 Lux at F1.2	0.24 Lux at F1.2		
	Sync. System			nal / External		
	Video Output		Digital 8, 10, or 12 bit Camera Link (Base Configuration)			
	Тар		2 Taps			
	Shutter Speed			c. (Variable at every H and clock)		
	Gain		0 to 16.3 dB			
	Gamma		DO 421/1 422/	1.0		
	Power Supply	Input Voltage		Camera Link connector		
	Trigger Mode	Consumption Less than 4.0 W				
	Trigger Mode Edge Preset Trigger (V-reset, Non-reset); Pulse Width Trigger (V-reset Communication RS232 via Camera Link connector					
Mechanical Specifications	Dimensions		35 (W) x 35 (H) x 30.2 (D) mm (NOT including lens mount and the connector 35 (W) x 35 (H) x 40.7 (D) mm (NOT including the connector)			
,	Optical Filter		No IR cut filter			
	Materials		Aluminum (AC)			
	Lens Mount		C mount			
	Interface Connector		HR 10A-7R-6PB (Hirose) or equivalent			
	Weight		Approximately 80g			
Environmental	Temperature	Operational	Temperature: -5 to 40°C; Relative Humidity: 0 to 85% (No condensation)			
Conditions	and Humidity	Storage	Temperature: -30 to 65°C; Relative Humidity: 0 to 90% (No condensation)			
	Vibration		20Hz to 200Hz to 20Hz (5min./cycle); Acceleration 10G, 3 directions 30 min. each			
Shock				Acceleration 38G, half amplitude 6ms, 3 directions 3 times each		
	Standard Compliancy		EMS: EN61000-6-2, EMI: EN55022 (Class B)			
	RoHS		RoHS Compliant			



II. Connector Specifications

A. Camera Link Connector: SDR (3M) equivalent

CAUTION: This product is a PoCL type. Therefore, please use this camera with a cable and frame grabber board for a PoCL model.

B. Interface Connector: HR10A-7R-6PB (Hirose) or equivalent. This connector is the input and output signals.

Trigger input and sync input/output signals can be assigned through the camera setting

communication.

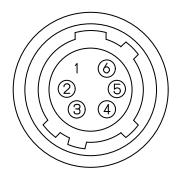
III. Pin Assignment

A. Camera Link Connector

Pin No.	Signal Name	Pin No.	Signal Name
1	+12V	14	GND
2	Х0-	15	X0+
3	X1-	16	X1+
4	X2-	17	X2+
5	Xclk-	18	Xclk+
6	Х3-	19	X3+
7	SerTC+	20	SerTC-
8	SerTFG-	21	SerTFG+
9	CC1-(TRG)	22	CC1+(TRG)
10	CC2+	23	CC2-
11	CC3-	24	CC3+
12	CC4+	25	CC4-
13	GND	26	+12V

B. Interface Connector

Pin No.	Signal Name	IN / OUT	Voltage		
Pin No. Signal Name		IN / OUT		Low Voltage	High Voltage
1	GND	IN	0V		
_	1/0 – 1	IN / OUT	IN	0 to +0.99V	+2.3 to +3.3V
2			OUT	0V	+3.3V
2	3 1/0-2	IN / OUT	IN	0 to +0.99V	+2.3 to +3.3V
3			OUT	0V	+3.3V
4	1/0 - 3	IN / OUT	IN	0 to +0.99V	+2.3 to +3.3V
		IN / OUT	OUT	0V	+3.3V
5	TRG OUT	OUT	OUT	0V	+3.3V
6	+12V	IN	+12V		

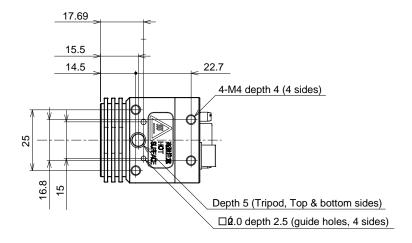


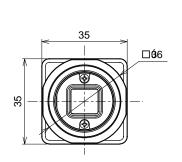
Note 1: Trigger input signal can be assigned either on Camera Link connector (CC1) or on the No. 2 pin of the interface connector through the camera setting communication.

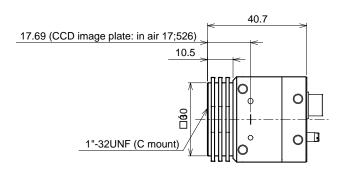


IV. Dimensions

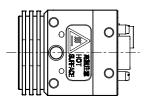
A. Camera Dimensions











Unit: mm



Revisions

Rev	Date	Changes	Notes
1.0	2008/3/26	New Document	
	2009/6/3	Created English Doc.	
1.1	2009/6/30	Update:	
		Electronic specification (Changed S/N ratio (standard deviation))	
1.2	2009/7/6	Update:	
		Electronic specification (Changed the minimum scene illumination)	
		Electronic specification (Changed the gain)	
		Electronic specification (Changed the power consumption)	
1.3	2009/8/18	Update:	Rev 1.3 ~ 1.4 was sent by
		Mechanical Spec (Change the description of the dimensions)	STJ to STA on the 2 nd
1.4	2009/8/26	Update:	week of September 2009.
		Dimensions (Change exterior of the camera)	