

I. Specifications

A. Electronic Specifications / Mechanical Specifications / Environmental Conditions

Product			STC-C42A	STC-C43A	
Electronic Specifications	Imager		¹ ⁄ ₂ " Interline CCIR CCD: ICX419AL	1/3" Interline Monochrome CCIR CCD: ICX409AL	
	Total Picture Element		795 (H) x 596 (V)		
	Active Picture Element		752 (H) × 582 (V)		
	Chip Size		7.40 (H) x 5.95 (V) mm	5.59 (H) x 4.68 (V) mm	
	Cell Size		8.6 (H) x 8.3 (V) μm	6.50 (H) x 6.25 (V) μm	
	Scanning S	System	2:1 Interlace		
	Vertical Frequency		50.00 Hz		
	(Frame Rate)				
	Horizontal Frequency		15.625 kHz		
	Pixel Frequency		14.1875 MHz		
	Resolution		560 TV		
	S/N Ratio		56 dB (GA		
	Minimum Scene		0.04 Lux at F		
	Illumination		0.1 Lux at F1		
	Sync. System Video Output		Internal / External 1.0 Vp-p / 75Ω, DC coupling		
	video Outp	บนเ			
	Shutter	DIP Switch	OFF; 1/50; 1/100; 1/120; 1/250; 1/500; 1/1000; 1/2000; 1/4000; 1/8000; 1/10,000; 1/20,000; 1/100,000 second		
	Speed	Communication	OFF; 1/50 to 1/100,000 second (
	Integration		Field / Frame		
	Gain		0 to 27 dB		
	Gamma		1/ 0.45		
	Power Input Voltage Consumption		DC12V +/- 10%		
			Less than 1.8W		
	Communication		RS232 via 12pin connector		
Mechanical	Dimension	6	28 (X) 28 (H) x 46.3 (D) mm includi		
Specifications	Optical Filter		No IR cut filter		
	Optical Center Accuracy		Positional accuracy in H and V directions: +/- 0.31 mm Rotational accuracy of H and V: +/- 2.1 deg.		
		Case	Front, base and rear: Alum	ninum die cast (ADC12)	
	Material	Case	Cover: Steel sheet of	covered with zinc	
		Tripod	Polycarbon	ate ABS	
	Lens Mount		C mount		
	Interface Connector		HR10A-10R-12PB (Hirose) or equivalent		
	Tripod		Tripod can be attached to 4 plates		
			(4 screws on the bottom plate, 3 screws on the other 3 plates)		
En in an tal	Weight		Approximately 52g (Camera 43g, Tripod: 9g)		
Environmental Conditions	Temperature Operational		Temp.: -5 to 50°C; Relative Humidity: 0 to 90% (No condensation)		
Conditions	& Humidity Storage		Temp.: -30 to 50°C; Relative Humidity: 0 to 90% (No condensation)		
Conditionio	Vibration		20Hz to 200Hz to 20Hz (5min./cycle), acceleration 10G, 3 directions 30 min. each		
Conditione	Vibration		accoloration 10C 2 div	actions 20 min aach	
Conditione					
Conditione	Vibration Shock Standard 0	Compliancy	acceleration 10G, 3 dire Acceleration 70G, half amplitude EMS: EN61000-6-2, EM	6ms, 3 directions 3 times each	

Product Specification

4 For design help, accessories or pricing, please contact:

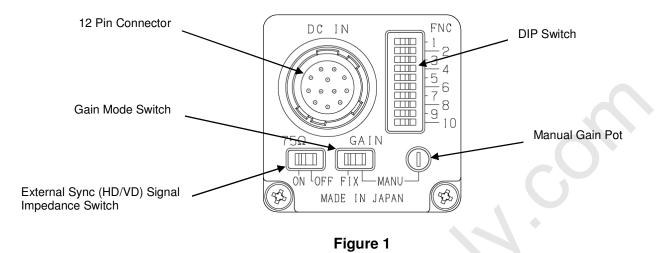
sales@avsupply or call: 1-858-565-1101

1-800-284-2288 sales@avsupply.com www.avsupply.com



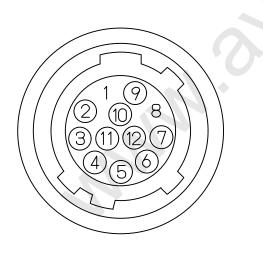
B. Rear Panel Specifications

1. Connector Pin Assignment



12 Pin Connector Assignment

The connector type: HR10A-10R-12PB (Hirose) or equivalent



	Signal types		
No.	Internal sync	External sysnc	
1	GND	GND	
2	+12V DC	+12V DC	
3	VIDEO GND	VIDEO GND	
4	VIDEO OUT	VIDEO OUT	
5	HD GND	HD GND	
6	HD OUT	HD IN	
7	VD OUT	VD IN	
8	GND	GND	
9	TXD	TXD	
10	_	-	
11	_	-	
12	RXD (Note)	RXD (Note)	

Figure 2

*Note: Pin No.12 can be connected to GND

The camera settings can change by RS232C communication with No. 9 and 12. Please refer the detail for the user's guide.

Pin Assignment



2. DIP Switch Settings (Refer to **Dip Switch** in Figure 1)

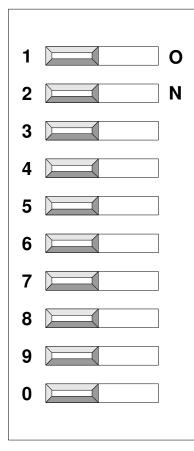


Figure 3

DIP Switch No. 1 to 4: Shutter Speed

Shutter Spee	No. 1	No. 2	No. 3	No. 4
OFF	OFF	OFF	OFF	OFF
1/50 sec.	ON	OFF	OFF	OFF
1/100 sec.	OFF	ON	OFF	OFF
1/120 sec.	ON	ON	OFF	OFF
1/250 sec.	OFF	OFF	ON	OFF
1/500 sec.	ON	OFF	ON	OFF
1/1,000 sec.	OFF	ON	ON	OFF
1/2,000 sec.	ON	ON	ON	OFF
1/4,000 sec.	OFF	OFF	OFF	ON
1/5,000 sec.	ON	OFF	OFF	ON
1/8,000 sec.	OFF	ON	OFF	ON
1/10,000 sec.	ON	ON	OFF	ON
1/20,000 sec.	OFF	OFF	ON	ON
1/100,000 sec	ON	OFF	ON	ON
OFF	OFF	ON	ON	ON
OFF	ON	ON	ON	ON

DIP Switch No. 5 to 7 : No Function

DIP Switch No. 8: Gamma

Gamma	No. 8
1.0	OFF
0.45	ON

DIP Switch No.9: Sync. System

Sync. System	No. 9	
External	OFF	
Internal	ON	

DIP Switch No.10: Integration

Integration	No. 10
Frame	OFF
Field	ON

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- 3. External Sync. (HD/VD) signal impedance setting (See External Sync. in Figure 1)
 - ON: 750hm termination
 - OFF: High impedance
- 4. Gain Mode Setting (See Gain Mode Switch in Fig. 1)
 - FIX: Fixed gain

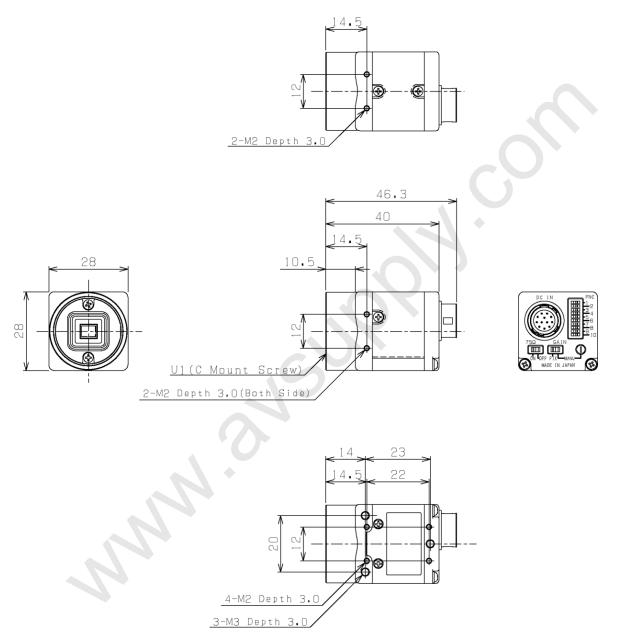
MAN: Manual gain

The gain can be adjustable by the manual gain pot (See Manual Gain Pot in Fig. 1).



II. Dimensions

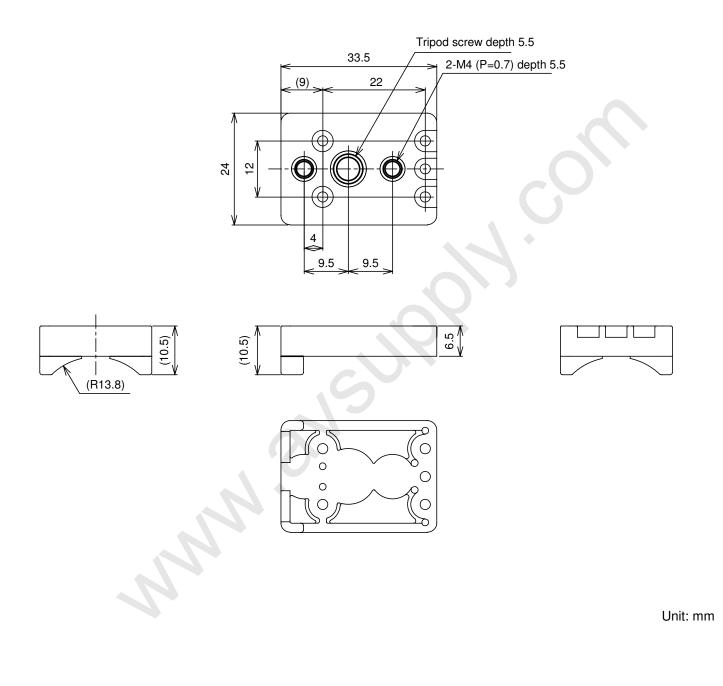
A. Camera Dimensions



Unit: mm

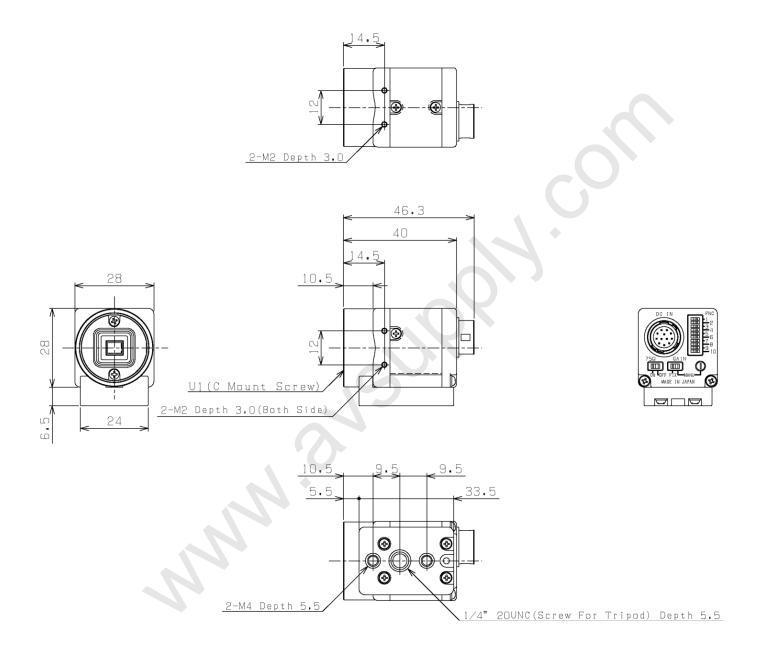


B. Tripod Dimensions





C. Camera with Tripod Dimensions



Unit: mm



Revisions

Revision	Date (D/M/Y)	Changes	Name	Changes
1.0	26/10/2006	New Document	Sam Aimono	
1.1	12/05/2008	Edited English	Michelle Campbell	
	15/06/2010	Corrected the Minimum Scene Illumination as follows: 0.75 Lux at F1.2 \rightarrow 0.04 Lux at F1.2, 20 IRE; 0.1 Lux at F1.2, 50 IRE		