

I. Specifications

A. Electronic Specifications / Mechanical Specifications / Environmental Conditions

Product		STC-A152A	
Electronic Specifications	Imager	1/2" Interline SXGA Monochrome Progressive CCD: ICX205AL	
	Total Picture Elements	1434 (H) x 1050 (V)	
	Effective Picture Elements	1392 (H) x 1040 (V)	
	Active Picture Elements	SXGA: 1360 (H) x 1024 (V)	
	Chip Size	7.6 (H) x 6.2 (V) mm	
	Cell Size	4.65 (H) x 4.65 (V) μm	
	Scanning System	Progressive	
	Scanning Method	Full Scanning, Partial Full Scanning, 1/2 Partial Scanning, 1/4 Partial Scanning, Variable Partial Scanning, Binning, Binning Partial Scanning, Binning 1/2 Partial Scanning, Binning 1/4 Partial Scanning, Binning Variable Partial Scanning	
	Vertical Frequency (Frame Rate)	15.28 (15fps) / 19.3 (19fps) Hz	
	Horizontal Frequency	15.998 (15fps) / 20.57 (19fps) kHz	
	Pixel Frequency	28.6363 (15fps) / 36.8181 (19fps) MHz	
	S/N Ratio (Standard Deviation)	56 dB (GAIN 0 dB)	
	Minimum Scene Illumination	1 Lux at F1.4	
	Sync. System	Internal / External	
	Video Output	1.0 Vp-p / 75Ω, DC coupling (0V)	
	Shutter	DIP Switch	OFF; 1/200; 1/500; 1/1000; 1/2000; 1/4000; 1/8000; 1/20,000 second
	Speed	Communication	OFF; 1/2 to 1/100,000 sec. (Variable at every H and Clock)
	Gain		0 to 27 dB
	Gamma		1.0 / 0.45
	Power Supply	Input Voltage	DC 12V ± 10%
	Consumption	Less than 2.5 W	
Trigger Mode		Edge Preset Trigger (V-reset, Non-reset) Pulse Width Trigger (V-reset, Non-reset)	
Communication		RS232 via 12 Pin Connector	
Mechanical Specifications	Dimensions	28 (W) x 28 (H) w 46.3 (D)mm including lens mount and the connector	
	Optical Filter	No IR Cut Filter	
	Optical Center Accuracy	Positional Accuracy in H and V Directions: +/- 0.31 mm	
	Material	Case	Front, Base, and Rear: Aluminum Die Cast (ADC 12) Cover: Steel Sheet Covered with Zinc
		Tripod	Polycarbonate 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)	
Weight	Approximately 52g (Camera: 43g, Tripod: 9g)		
Environmental Conditions	Temperature and Humidity	Operational	Temperature: -5 to 45°C, Relative Humidity: 0 to 85% (No Condensation)
		Storage	Temperature: -30 to 65°C, Relative Humidity: 0 to 90% (No Condensation)
	Vibration	20 Hz to 200 Hz (5 min./cycle), Acceleration 10G, 3 Directions 30 Minutes Each	
	Shock	Acceleration 70G, Half Amplitude 6ms, 3 Directions 30 Minutes Each	
	Standard Compliancy	EMS: EN61000-6-2, EMI: EN55011 (Class B)	
	RoHS	RoHS Compliant	

B. Rear Panel Specifications

1. Connector Pin Assignment

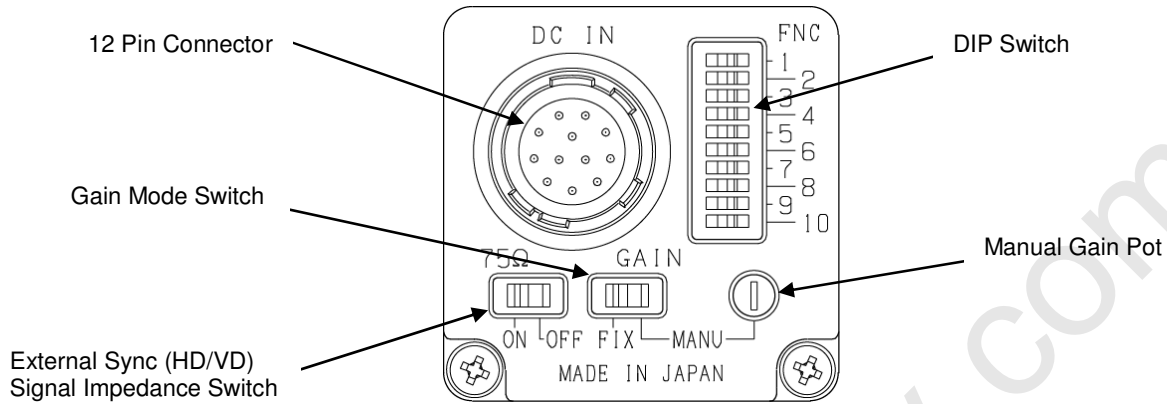


Figure 1

12 Pin Connector Assignment

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

Pin Assignment

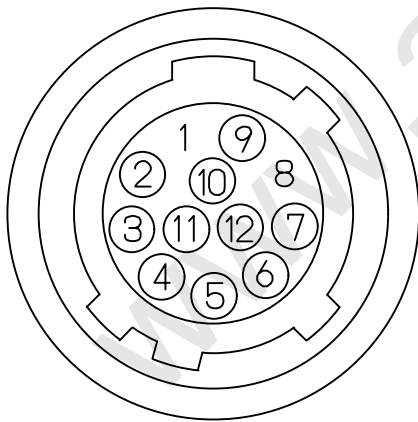


Figure 2

No.	Signal types	
	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	WEN OUT	WEN OUT
11	TRG IN	TRG IN
12	RXD (Note)	RXD (Note)

*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.

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

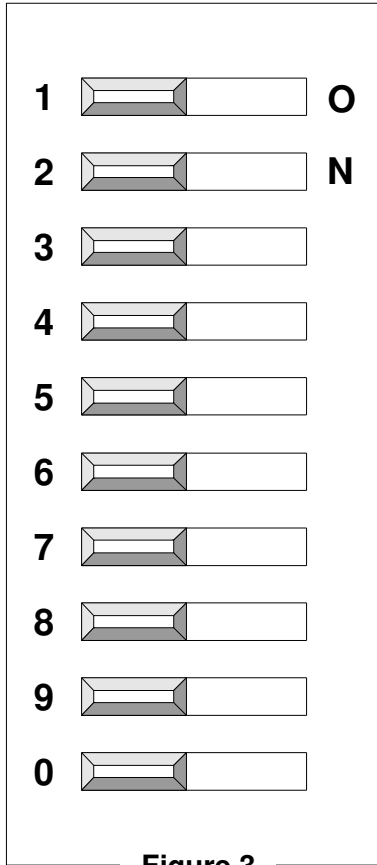


Figure 3

DIP Switch No. 1 to 3: Shutter Speed

Shutter Speed	No. 1	No. 2	No. 3
OFF/Plus width	OFF	OFF	OFF
1/200 sec.	ON	OFF	OFF
1/500 sec.	OFF	ON	OFF
1/1,000 sec.	ON	ON	OFF
1/2,000 sec.	OFF	OFF	ON
1/4,000 sec.	ON	OFF	ON
1/8,000 sec.	OFF	ON	ON
1/20,000 sec.	ON	ON	ON

DIP Switch No. 4 to 5: Reset Mode

Reset mode	No. 4	No. 5
Non-reset	OFF	OFF
V-reset	ON	OFF

DIP Switch No. 6: Trigger Polarity

Trigger polarity	No. 6
Positive	OFF
Negative	ON

DIP Switch No.7 to 8: Scanning Method

Scanning method	No. 7	No. 8
Full	OFF	OFF
Full	ON	OFF
1/2 partial	OFF	ON
1/4 partial	ON	ON

DIP Switch No.9: Sync. System

Sync. System	No. 9
External	OFF
Internal	ON

DIP Switch No.10: Binning

Binning	No. 10
OFF	OFF
ON	ON

3. External Sync. (HD/VD) signal impedance setting (See **External Sync** in **Figure 1**)

ON: 75Ohm termination
OFF: High impedance

4. Gain Mode Setting (See **Gain Mode Switch** in **Fig. 1**)

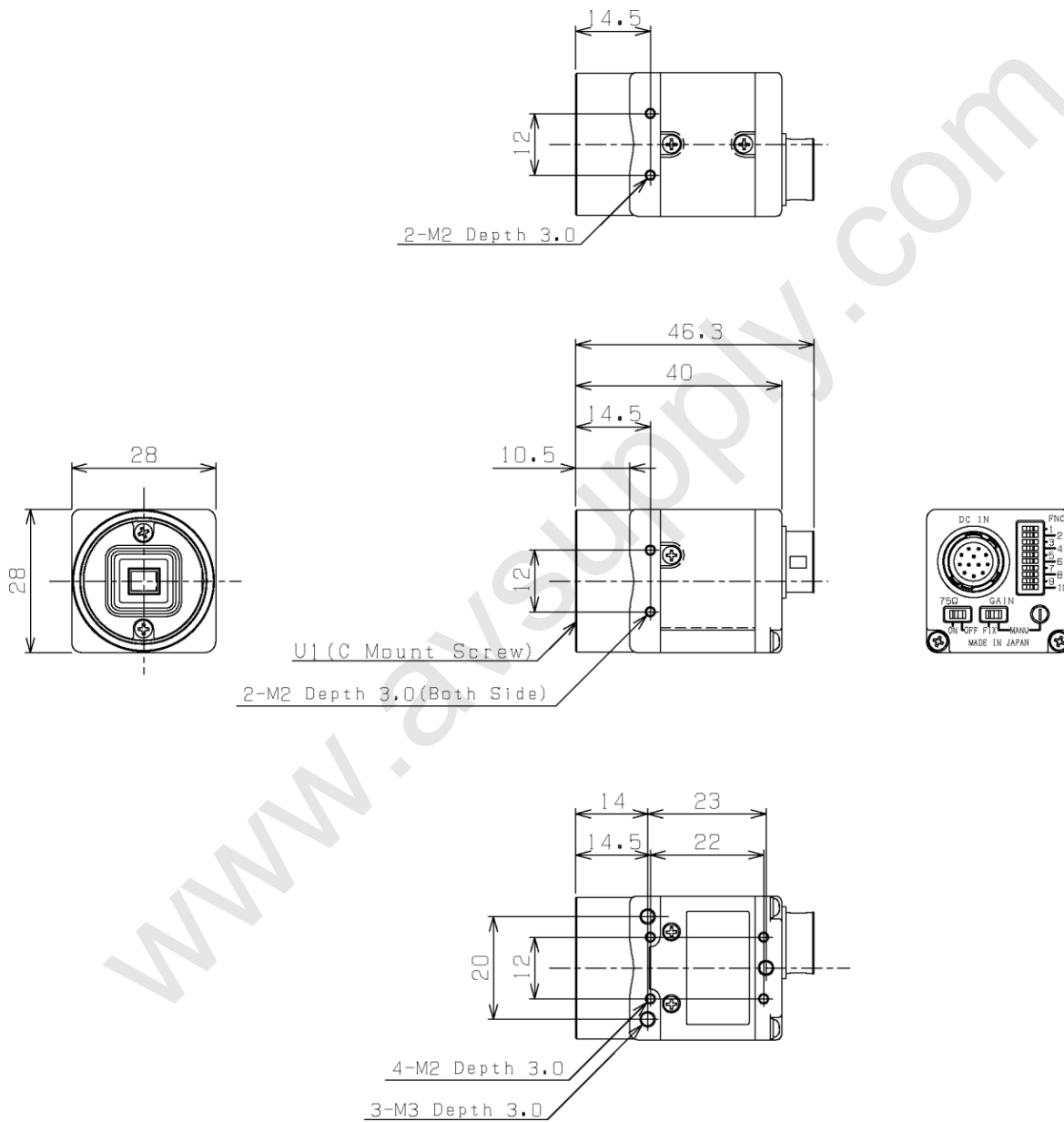
FIX: Fixed gain
MAN: Manual gain
The gain can be adjustable by the manual gain pot (See **Manual Gain Pot** in **Fig. 1**).

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II. Dimensions

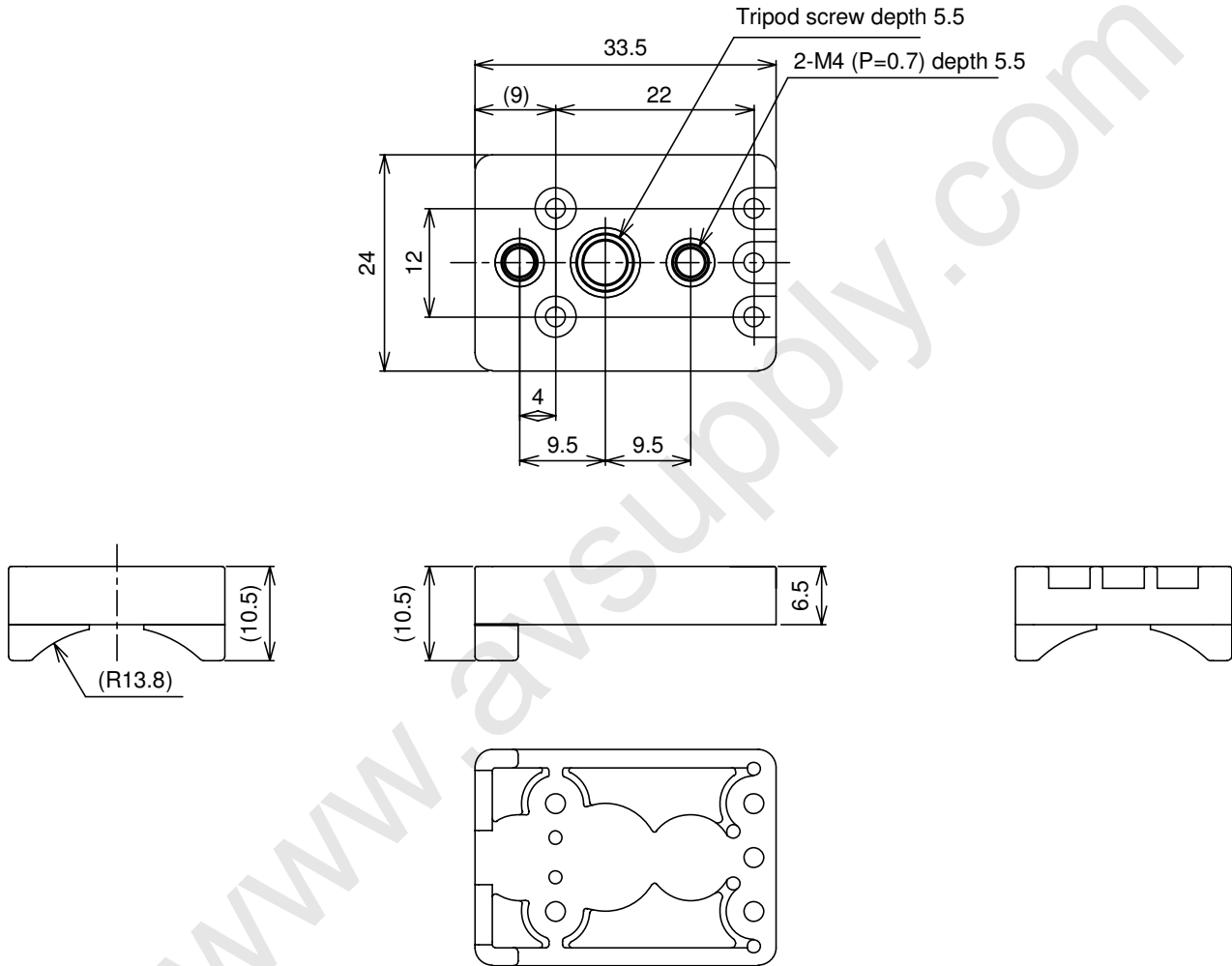
A. Camera Dimensions



Unit: mm

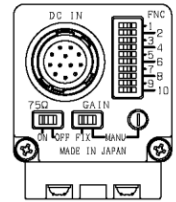
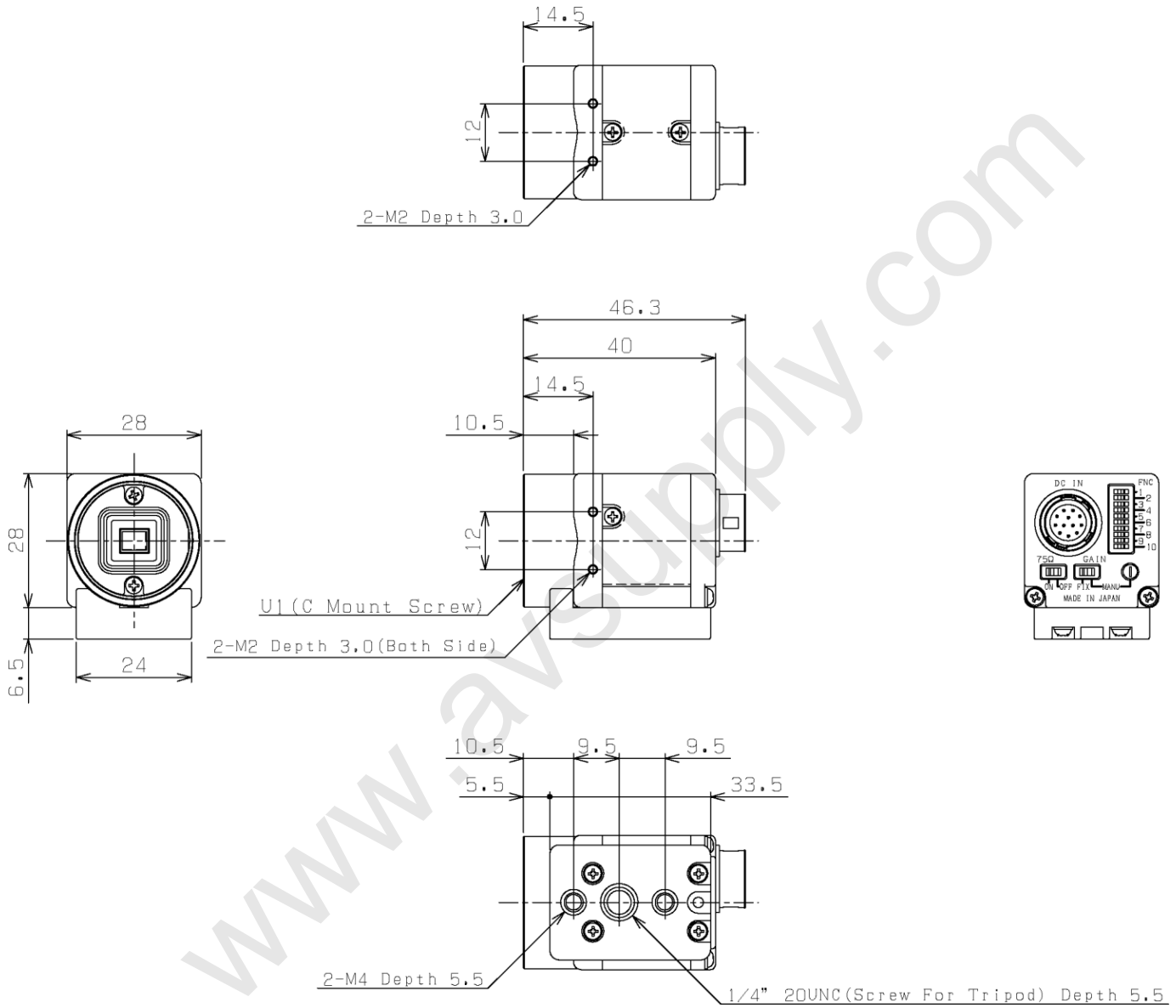
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B. Tripod Dimensions



Unit: mm

C. Camera with Tripod Dimensions



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Unit: mm

Revisions

Revision	Date (D/M/Y)	Changes	Name	Changes
1.0	23/08/2006	Created Document	Sam Aimono	
1.1	22/08/2006	Update 1) Mechanical Specifications (optical center accuracy) 2) Communication Specifications (add the initial data and the data range) 3) Tripod drawing (Change Japanese to English)	Sam Aimono	
2.0	16/04/2007	Separate document from "Specification" to "Specification" and "User's Guide"	Sam Aimono	
2.1	12/05/2008	Edited English	Michelle Campbell	