

3 Specifications

3.1 Electronic specifications / Mechanical specifications / Environmental specifications

Bold: Initial Value

Product		STC-AF243*	
Electronic	Imager	1/2.8" 2.3Mega pixel CMOS (SONY: IMX136), Rolling Shutter	
	Active picture elements	1936 (H) x 1096 (V)	
	HD active picture elements	1920 (H) x 1080 (V)	
	Optical size	5.44 (H) x 3.09 (V) mm	
	Cell size	2.8 (H) x 2.8 (V) μ m	
	Sync system	Progressive	
	Minimum scene illumination	1.4 Lux @F1.6, with IRC filter, Exposure time 1/60 sec	
	Sync. System	Internal	
	Video output	LVDS Model	1080P60/50/30, 720P60/50 Default :1080P60
		SDI Model	3G-SDI(Physical layer: SMPTE 424M, Data Mapping: SMPTE 425M Level-A Compliant), 4:2:2 YCbCr 10bit 1080P60/50HD-SDI (SMPTE292M Compliant) 4:2:2 YCbCr 10bit 1080P30/25,720P60/50 Default : 1080P60
	Camera functions	ALC	Electrical shutter / AGC / Mechanical IRIS linkage Default : ALC ON
		Shutter speed	1/60~1/10,000 seconds Default :fixed 1/100
		Gain	AGC / Fixed gain 0 to 45 dB Default : AGC
		Gamma	Selectable gamma through 5 preset (one preset is manual, / 0.45 / 0.6 / 0.8 / 1) Default : Manual
		White balance	Auto white balance / Manual white balance / Push to set white balance Default : Auto white balance
		Mirror image	Normal image / Horizontal flip / Vertical flip / Horizontal vertical flip(180 degree rotation) Default: Normal image
		DSP Preset	8 user preset mode Default : Preset 0
		Line generator	Both horizontal and vertical with all available colors (Line number: 2) Default : Disable
		Shadow mask generator	Both horizontal and vertical with shading level adjustment Default : Disable
		Privacy mask	8 windows with all available colors, width, position Default : Disable
		Communication	UART communication (RS232C +3.3V,RS485 +5V) (Boudrate: 115,200bps,38,400bps, 19,200bps, 9,600bps)
		Character generator	Built-in character generation function via the UART communication
		Another	Pixel blemish collection, WDR, Defog, Hue, Brightness, Contrast etc. ※Above functions can be configurable through UART
Lens control		Working Distance Wide:Infinity to 1cm / Tele:Infinity to 1m	
	Optical zoom	UART communication(LVDS model / SDI model), Zoom function can be controlled through External control (SDI model)	
	Focus	Auto focus / Manual focus / Push set focus (Selectable control via the UART communication) Default : Auto focus	
	IRIS	Auto IRIS / Manual IRIS / Push set IRIS (Selectable control via the UART communication) Default : Auto IRIS	
	ICR (IR Cut filter Removable)	Selectable IR cut filter Auto / Manual (Selectable control via the UART communication) Default : Manual	
	Power	Input voltage	+9 to +15 Vdc (Typical: +12 Vdc)
Consumption		Zoom and Focus: 3.5W, Zoom and Disable-focus: 3.2W	
Mechanical	Dimensions	53 (W) x 60 (H) x 89.5(D) mm	
	Auto focus lens	20x auto focus zoom lens, Demountable IR cut filter Optical zoom range: from 4.7mm to 94mm (F No.1.6~3.0)	
	Optical filter	OPLF on	
	Interface connector	Video output	LVDS model : CN02(USL00-30L-C,KEL),SDI model : RF(MM9329-2700 cable Murata)
		Power input, External control UART communication	LVDS model : CN02(USL00-30L-C,KEL) SDI model : CN06(SM14B-SRSS-TB,JST)
Weight	LVDS: Approximately 300g, SDI: Approximately 300g		
Environmental	Operational temperature	0 to 45 deg. C	
	Storage temperature	-30 to 65 deg. C	
	Vibration	5Hz to 25Hz to 5Hz (4min./cycle), amplitude 2mm , XYZ 3 directions 60 min. each) to	