

SONY

CCD B/W VIDEO CAMERA MODULE

XC-ST50/ST50CE XC-ST30/ST30CE

Component / OEM



OUTLINE

The XC-ST50/ST50CE and XC-ST30/ST30CE incorporate the latest CCD and signal processing technologies into a compact black and white camera module. A new external trigger design allows the electronic shutter speed to be freely specified by the width of an external trigger pulse or by a switch setting on the rear panel of the camera. These cameras are also user-friendly, with all switch settings located on the rear panel. Moreover, the XC-ST50/ST50CE 1/2" CCD and XC-ST30/ST30CE 1/3" CCD models have the exact same dimensions, simplifying space requirements and making it easy to interchange them if necessary. These features, along with high picture quality and high shock and vibration tolerance make the XC-ST50/ST50CE and XC-ST30/ST30CE cameras ideal for demanding machine vision applications.

FEATURES

- XC-ST50/50CE: 1/2" IT CCD
- XC-ST30/30CE: 1/3" IT CCD
- Small and light weight: 44(W) x 29(H) x 57.5(D) mm, 110 g
- High sensitivity: 0.3 lx (F1.4)
- High S/N ratio: 60 dB (XC-ST50), 56 dB (XC-ST30)
- Electronic shutter function (1/100 to 1/10,000 s)
- Flexible trigger shutter functions
 - simple trigger with internally generated HD/VD and Write Enable (WEN)
 - exposure control with switches or trigger pulse width
- Readout on command (with HD/VD input)
- 2:1 interlace/non-interlace
- Frame/field exposure
- Restart/Reset function
- Synchronization: internal/external (HD/VD, VS)
- High shock and vibration tolerance

ACCESSORIES

Compact camera adaptor (CE standard)

DC-700/700CE

- Compact, lightweight
- Two video outputs
- External sync IN/OUT
- Trigger input/WEN output
- New EIAJ standard 12 pin assignment
- Dimensions: 110(W) x 53(H) x 160(D) mm



12 pin camera cable (CE standard)

- CCXC-12P02N (2m)
- CCXC-12P05N (5m)
- CCXC-12P10N (10m)
- CCXC-12P25N (25m)



Tripod adaptor

VCT-ST70I

- Isolated type
- Approx. 14 g
- Dimensions: 40(W) x 6(H) x 59(D) mm

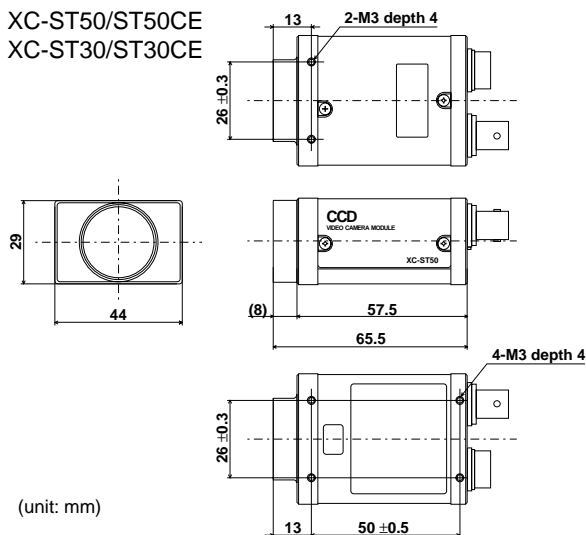


SPECIFICATIONS

	XC-ST50	XC-ST30	XC-ST50CE	XC-ST30CE
Image device	1/2" IT CCD	1/3" IT CCD	1/2" IT CCD	1/3" IT CCD
Effective picture elements	768(H) x 494(V)		752(H) x 582(V)	
Signal system	EIA standard		CCIR standard	
Horizontal frequency	15.734 kHz +/-1%		15.625 kHz +/-1%	
Vertical frequency	59.94 Hz		50 Hz	
Lens mount	C mount			
Flange back	17.526 mm			
Sync system	Internal / External (auto)			
External Sync system	HD / VD (2 ~ 5 Vp-p), VS			
External Sync frequency	Horizontal sync frequency +/- 1%			
Jitter	less than +/- 50 nsec			
Scanning system	525 lines, 60 fields/s, 2:1 Interlaced		625 lines, 50 fields/s, 2:1 Interlaced	
Video output	1.0 Vp-p, negative, 75 Ω unbalanced			
Horizontal resolution	570 TV lines		560 TV lines	
Sensitivity	400 lx, F8 (g compensation ON, 0 dB)			
Minimum illumination	0.3 lx (F1.4, AGC ON, without IR cut filter)			
S/N ratio	60 dB	56 dB	58 dB	54 dB
Gain	AGC (0-18 dB) / Manual (0-18 dB) / Fixed (0 dB) Selectable			
Gamma	ON / OFF			
Normal shutter	1/100 ~ 1/10,000 s		1/120 ~ 1/10,000 s	
External trigger shutter	1/4 ~ 1/10,000 s		1/4 ~ 1/8,000 s	
Power requirements	DC12 V +/-10%			
Power consumption	2.0 W	1.9 W	2.0 W	1.9 W
Dimensions	44(W) x 29(H) x 57.5(D) mm			
Mass	110 g			
Operation temp./mois.	-5°C ~ +45°C/20 ~ 80%			
Storage temp./mois.	-30°C ~ +60°C/20 ~ 95%			
Vibration	10 G (20 ~ 200 Hz)			
Shock resistance	70 G			
MTBF	70,600 hrs.			
Regulations	UL1492, FCC Class A Digital Device, CE (EN50081-2 + EN50082-2), AS4251.1 + AS4252.2			
Supplied accessories	Lens mount cap (1), Operating instructions (1)			

DIMENSIONS & REAR PANEL

XC-ST50/ST50CE
XC-ST30/ST30CE



Product information is available on the
ISP Home Page

Click!

Sony online <http://www.generex.co.th/>

Product Information

Information including product features and catalogs

Document & Software

Product document information and sample software downloads

[Product catalog](#)

[Application Guide](#)

[Command List](#)

[User's Guide](#)
XC-ST50/30

[Instruction Manual](#)

[Sample software](#)

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