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CS 8600 SERIES

MONOCHROME INTERLACED
CCD VIDEO CAMERA SERIES

NEW ELECTRONIC TECHNOLOGY

TECHNICAL DATA

CS 8600 SERIES

- 1/3" or 1/2" Interlaced CCD Sensor
- CCIR: 768(H) x 494(V) pixel
- EIA: 752(H) x 582(V) pixel
- Ultra compact and light weight
- Restart/reset, internal/external sync
- Random Trigger Shutter (RTS)
- Frame/field integration

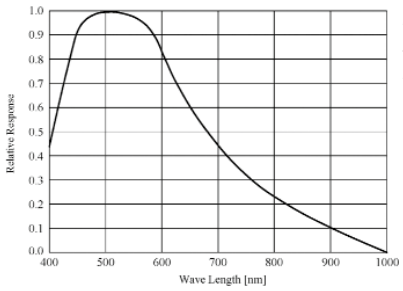
APPLICATION

- Machine vision
- Factory automation
- Quality control

	CS8620i, CS8620Ci	CS8620Hi, CS8620HCi	CS8630i, CS8630Ci	CS8630H, CS8630HC
TV system	EIA /CCIR (suffix "C")			
Sensor	interline CCD			
Image sensor	ICX418ALL, ICX419ALL	ICX428AL-7, ICX429AL-7	ICX408AL, ICX409AL	
Active pixel	EIA: 768 (H) x 494 (V) / CCIR: 752 (H) x 582 (V)			
Pixel size	8.40 (H) x 9.80 (V) µm, 8.60 (H) x 8.30 (V) µm	8.40 (H) x 9.80 (V) µm, 8.60 (H) x 8.30 (V) µm	6.35(H) x 7.40 (V) µm, 6.50 (H) x 6.25(V) µm	6.35(H) x 7.40 (V) µm, 6.50 (H) x 6.25(V) µm
Image area	6.0 5(H) x 4.85(V) mm	6.50 (H) x 4.85(V) mm	4.80 (H) x 3.60 (V) µm	4.80 (H) x 3.60 (V) µm
Scanning lines	525 (EIA) / 625 (CCIR)			
Scanning format	2:1 interlaced			
Sync system	internal/external synchronization			
Aspect ratio	4:3			
Illumination	min.: GAIN MAX, gamma=0.45 0.2 Lux, F1.4	min.: GAIN MAX, gamma=0.45 0.1 Lux, F1.4	min.: GAIN MAX, gamma=0.45 0.2 Lux, F1.4	min.: GAIN MAX, gamma=0.45 0.2 Lux, F1.4
Sensitivity setting	AGC (Automatic Gain Control), manual			
Gamma	1.0 / 0.45 selectable			
Video output	VS: 1.0V(p-p)/75 Ohm terminated			
Resolution	EIA 570TV lines (H), 485 lines (TV lines)(V), CCIR 560TV lines (H), 575 lines (410TV lines)(V)			
S/N	60dB(p-p)/rms (GAIN: FIX, Gamma=0)			
Input signal	external sync signal HD, VD/SYNC (2 to 6V(p-p)) / VS: 1.0V(p-p) SYNC 0.3V(p-p)			
ELECTRONIC SHUTTER SPEC				
Normal shutter	shutter speed in 8 steps 1/50,1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10.000 s			
Random Trigger Shutter (RTS)	shutter timing defined by external trigger signal			
Restart/reset	available via external VD signal			
SHUTTER TRIGGER SPEC				
Input level	VL= 0.0 to 0.5V, VH= 2 to 5V			
Input impedance	high impedance			
White-clip	clip-level: 820mV(p-p) (excluding SYNC)			
CCD storage mode	field/frame storage (integration), switch-able by inner SW selection (initial factory setting: frame storage)			
Lens mount	C-Mount			
Power supply	DC 12 V -/+10% [ripple level: less than 10 mV(p-p)]/ approx 140 mA			
Ambient condition	operation: -10 °C to 50 °C, humidity: 20 to 80 %			
Dimension	29 (H) x 29 (W) x 32 (D) mm (excluding protruding part)			
Weight	approx. 50g			
Options	power supply 0.8A: PS-A05C1-12MT-K, power supply 1.3A: PS-A15D3-12MP-K tripod mount: CA-base-plate CS8600			

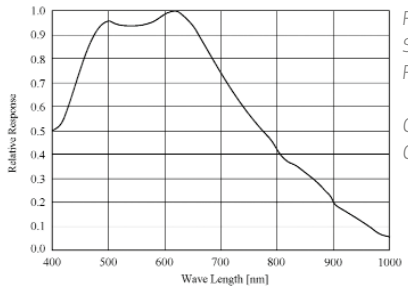
TECHNICAL DATA

CS 8600 SERIES



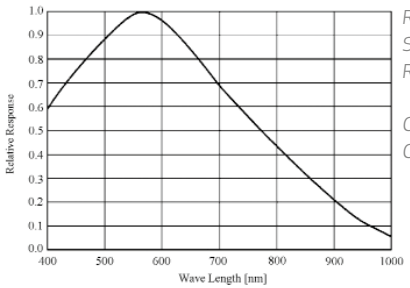
Relative Spectrum Response

CS8620i
CS8620Ci
CS8630i
CS8630Ci



Relative Spectrum Response

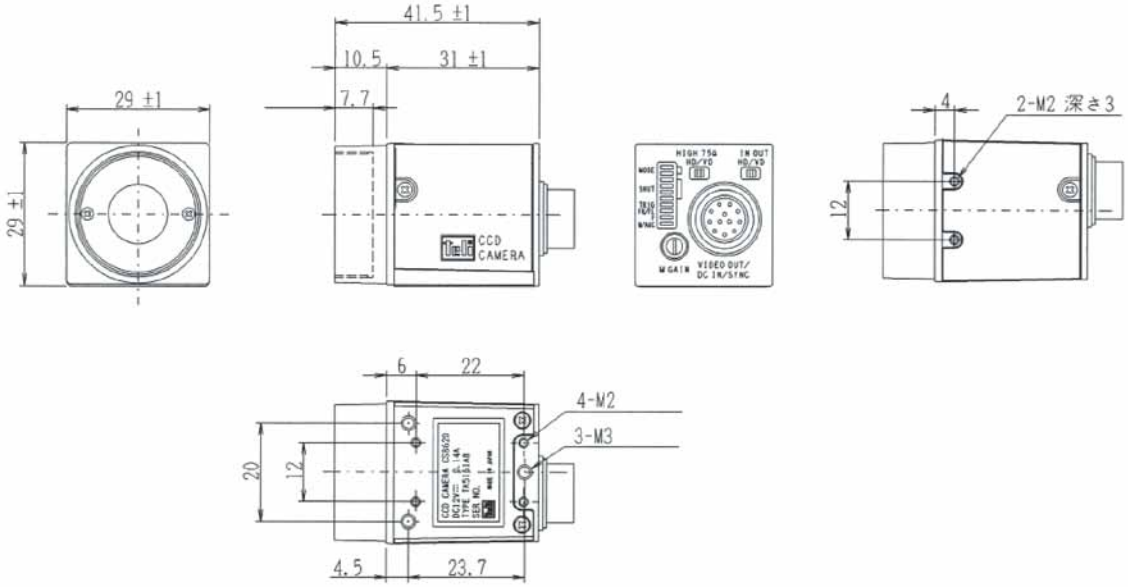
CS8620Hi
CS8620HCi



Relative Spectrum Response

CS8630H
CS8630HC

Outline



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