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TECHNOLOGY GROUP

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CS 8300 Series

Monochrome Standard-Video CCD Camera Series



- 1/3“, 1/2“ or 2/3“ Interlaced CCD Sensor
- CCIR: 768(H) x 494(V) pixel

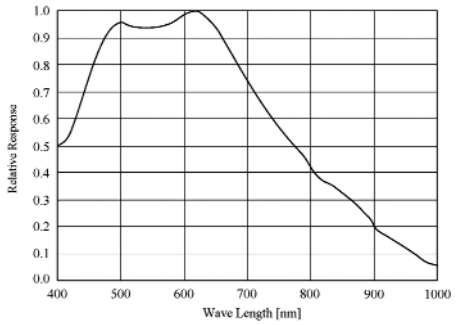
  EIA: 752(H) x 582(V) pixel
- Restart/Reset, Internal/External Sync
- Random Trigger Shutter (RTS)
- Frame/Field Integration
- Application
  - Machine vision
  - Factory automation
  - Quality control

Technical Data

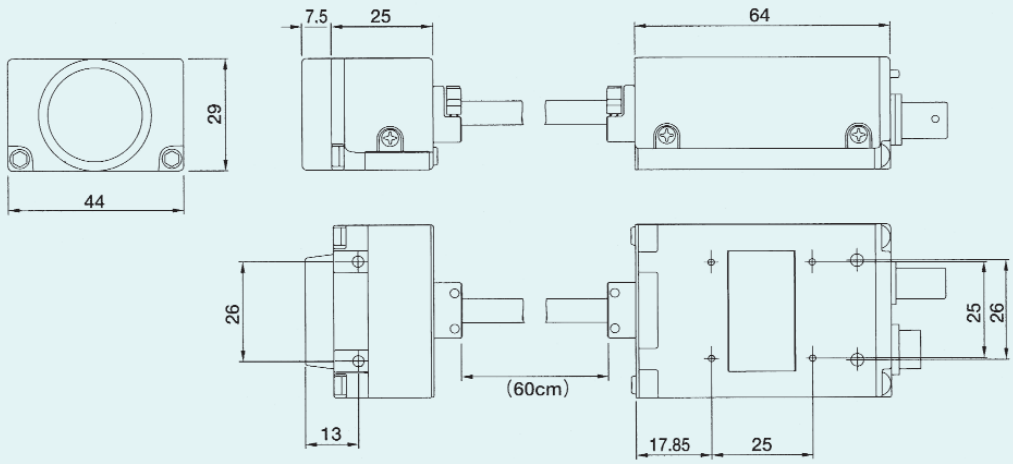
Type		*CS 8300 series*
TV system		EIA /CCIR (suffix “C“)
Image sensor		Interline CCD
CS8310B, CS8311B		ICX082AL
CS8310BC, CS8311BC		ICX083AL
CS8320Bi		ICX418ALL
CS8320BCi		ICX419ALL
CS8330Bi		ICX408AL
CS8330BCi		ICX409AL
Active pixel		EIA: 768 (H) x 494 (V) / CCIR: 752 (H) x 582 (V)
Pixel size		
CS8310B, CS8311B		11.6(H) x 13.5(V) µm
CS8310BC, CS8311BC		11.6(H) x 11.2(V) µm
CS8320Bi		8.4(H) x 9.8(V) µm
CS8320BCi		8.6(H) x 8.3(V) µm
CS8330Bi		6.35(H) x 7.4(V) µm
CS8330BCi		6.5(H) x 6.25(V) µm
Image Area		
CS8310B, CS8310BC		8.8(H) x 6.6(V) mm
CS8311B, CS8311BC		8.8(H) x 6.6(V) mm
CS8320Bi, CS8320BCi		6.5(H) x 4.85(V) mm
CS8330Bi, CS8330BCi		4.8(H) x 3.6(V) mm
Scanning lines		525 (EIA) / 625 (CCIR)
Scanning format		2:1 Interlace
Sync system		Internal/External synchronization
Aspect ratio		4:3
Illumination		Minimum: GAIN MAX, Gamma=0.45
CS8310B, CS8311B		0.5 Lux, F1.4
CS8310BC, CS8311BC		0.5 Lux, F1.4
CS8320Bi, CS8320BCi		0.2 Lux, F1.4
CS8330Bi, CS8330BCi		0.2 Lux, F1.4
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		56dB(p-p)/rms (GAIN: FIX, Gamma=0)
Input Signal		
External Sync signal		HD, VD/SYNC (4.0 to 2.0V(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, 1/10000s
Random Trigger Shutter (RTS)		Shutter timing defined by external trigger signal
Restart/Reset		Available via external VD signal
Output Signals		HD / VD, Clock
White-clip		Clip-level: 820mV(p-p) (Excluding SYNC)
CCD integration mode		Field/Frame storage (integration), Switch-able by inner SW selection
Lens mount		C-Mount
Power supply		DC12V -/+10%
		CS8310B/C approx. 220mA
		CS8311B/C approx. 270mA
		CS8320B/C approx. 230mA
		CS8330B/C approx. 230mA
Ambient condition		Temperature: -10°C to 40°C, Humidity: Less than 90%
Dimension and weight		
CS8310, CS8320, CS8330		29(H) x 44(W) x 78(D)mm, 130g
CS8311		Camera head: 29(H) x 44(W) x 32.5(D)mm, 70g
		Camera unit: 29(H) x 29(W) x 64(D)mm, 90g
		Camera cable: 600mm

Relative Spectrum Response

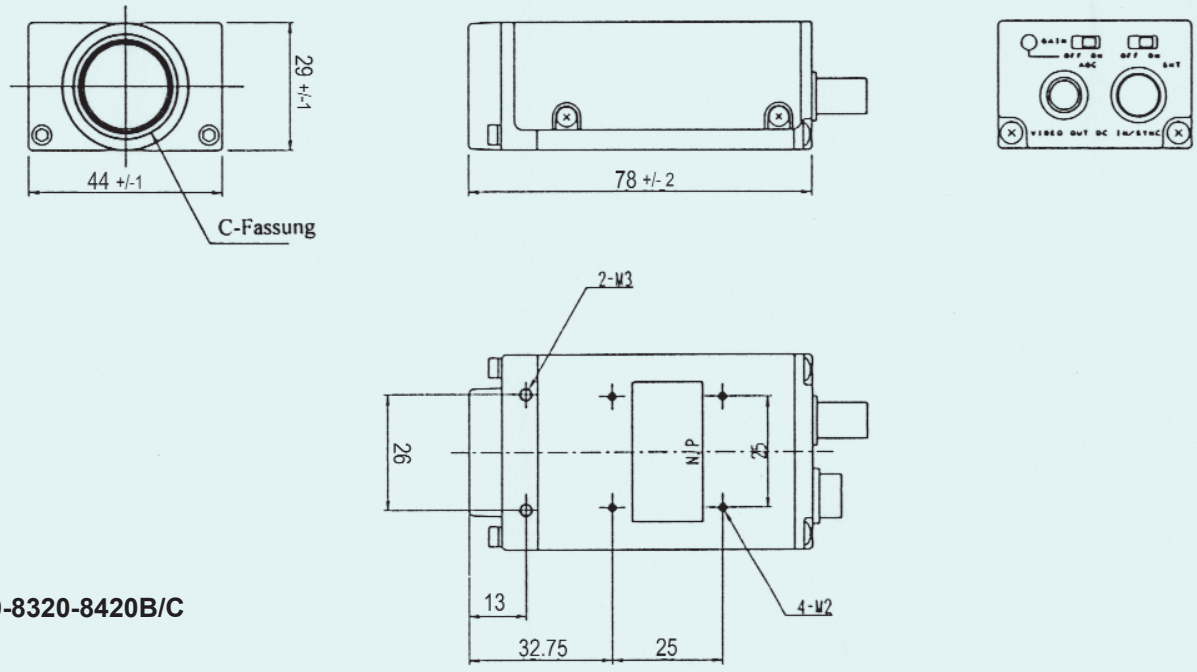
CS8320, CS8330



CS8311B/C



CS8310-8320-8420B/C



Artisan Technology Group is an independent supplier of quality pre-owned equipment

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