CS 8550i

Single Speed B/W
Progressive Scan CCD Video Camera

- 1/3“ Progressive Scan CCD Sensor with Square pixel
- Single Speed 30 fps
- Ultra Compact and Light Weight
- Restart / Reset, Internal/External Sync
- Random Trigger Shutter (RTS)
- Multiple Shutter
- Partial Scan Mode
- Application
  - Machine vision
  - Factory automation
  - Quality control

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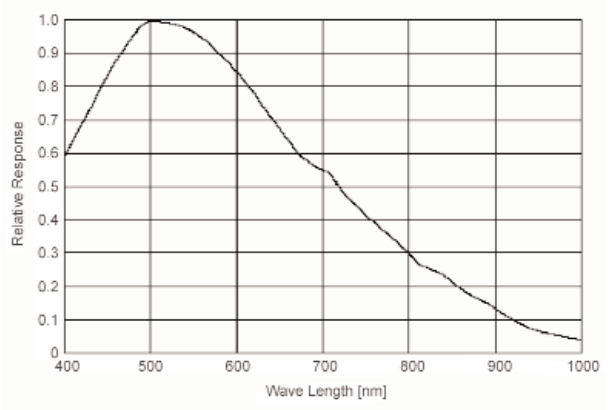
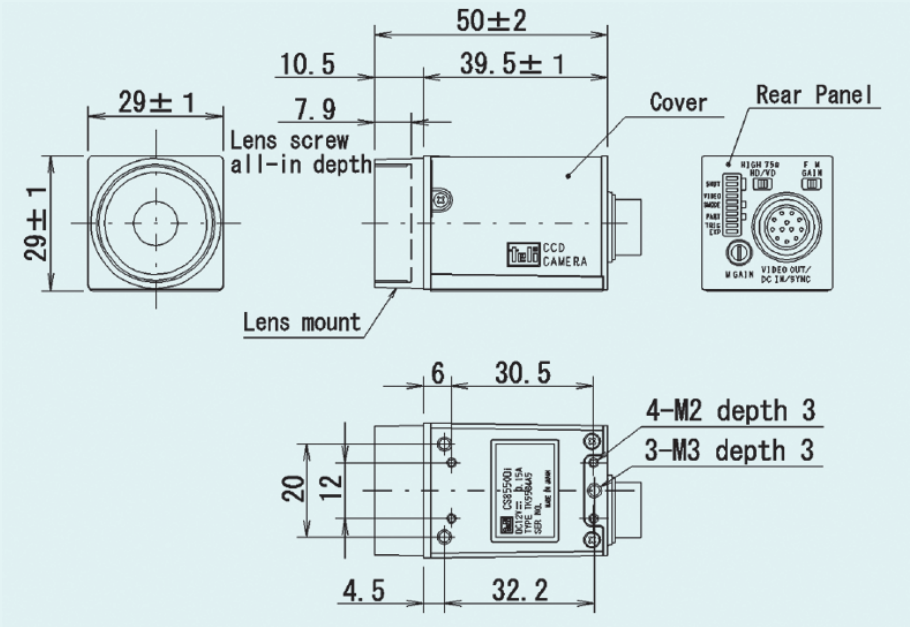
Technical Data

Type	***CS 8550i***
Image sensor	Progressive Scan Interline CCD
	Type: ICX 424 AL
Total pixel	692 (H) x 504 (V)
Video output pixels	640 (H) x 480 (V)
Scanning area	4.88(H) x 3.66(V) mm (=equivalent to 1/3“ type)
Unit pixel size	7.4 (H) x 7.4 (V) µm (Square grid array)
Image Area	4.8 (H) x 3.6 (V) mm
Scanning lines	525 lines
TV system	Conform to EIA
Video output format	1/30s Non-interlace mode
	1/60s 2:1 Interlace mode
Partial Scan	1/2 or 1/4 screen with increased frame rate
Sync system	Internal/External automatic switch-over
Aspect ratio	4:3
Illumination	4 Lux (F1.4)
Video output	VS 1.0V(p-p)/75 Ohm
Resolution	485 TV lines (H)
S/N	Standard: 52 dB(p-p)rms
Illumination	Standard 400 Lux (F5.6)
	Minimum 2 Lux (F1.4) (GAIN MAX. approx. 50% video output)
Gain	Fix (Fixed) gain
	MANU (Manual) gain
Gamma correction	Gamma = 1
White-clip level	Approx. 860mV(p-p)
Power source	DC12V +/-10%, Ripple voltage: <50mV(p-p)
Power consumption	Approx. 1.3W
Internal sync spec	
Base clock frequency	12.273MHz (1CLK) +/-200ppm
H sync frequency	16.734kHz (1H=780CLK)
V sync frequency	29.97Hz (non-interlace), 59.94Hz (interlace)
External sync spec	
Ext. sync input signal	HD/VD
Input level	2~4V(p-p)/10kOhm
Input impedance	75Ohm/High impedance
Interlace	1/30s non-interlace or 1/60s 2:1 interlace
Polarity	Negative
Pulse width	HD: 6.4 +/- 2µs (LOW), VD: From 250 through 800µs (LOW)
Repeating frequency	f_H= 17.734 kHz +/-1%, f_V= f_H/262.5 or f_H/525
Phase difference	HD/VD: 0 +/-5.0µs, 1/FH/2 +/-5.0µs
Trigger spec	
Input level	LOW level: 0-0.5V(p-p), HIGH level: 4-5V(p-p)
Input impedance	High impedance (10k Ohm)
Capture timing	Rising edge detection (Positive) / Falling edge detection (Negative)
Pulse width	Minimum 4µs, Maximum 1/4s
Electronic shutter spec	
Normal Shutter	Shutter speed setting via rear-panel SW (Initial:OFF)
	8 steps selectable (=OFF, 1/100,1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000s)
RTS (Random Trigger Shutter)	Operation mode, Multiple shutter
Restart / Reset	Restart/reset available
Mechanical spec	
External dimension	29 x 29 x 39.5(D)mm
Weight	App. 50g
Lens mount	C-Mount
Ambient condition	Performance guaranteed: Temperature from 0 through 40°C / Humidity from 30 through 90% (no condensing)
Operation	-5°C to 50°C / Humidity 10% to 90%
Storage	-20°C to 60°C / Humidity 10% to 90%
EMI	Conform to EN50081-2
Output Connector	HR10A-10P-12S

Relative Spectrum Response
****Including lens characteristics, excluding light source characteristics***



Outline



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