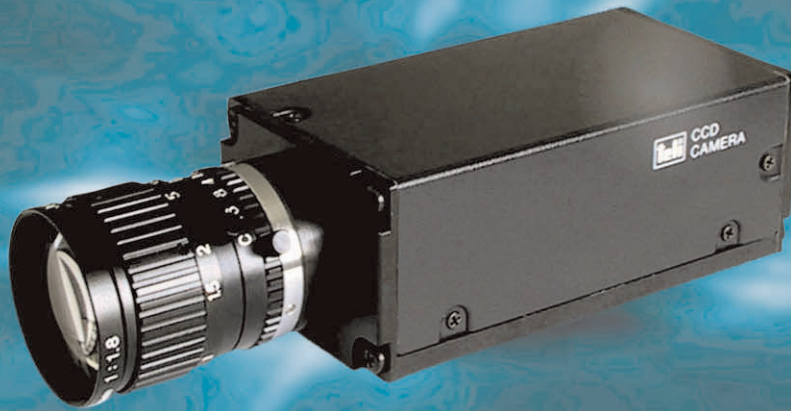


CS 3950DiF

BIW Progressive Scan CCD Video Camera



- **1/3" Progressive Scan CCD Image Sensor with Square Pixel ICX204AL-6**
- **High Resolution 1024 (H) x 768 (V) XGA**
- **High Frame Rate 30fps**
- **IEEE1394 Interface**
- **Electronic Shutter**
- **Compact and Light Weight**

- **Application**
 - Machine vision
 - Factory automation
 - Quality control

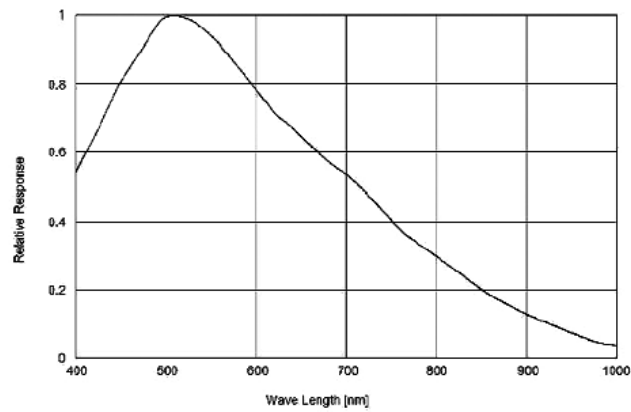


Technical Data

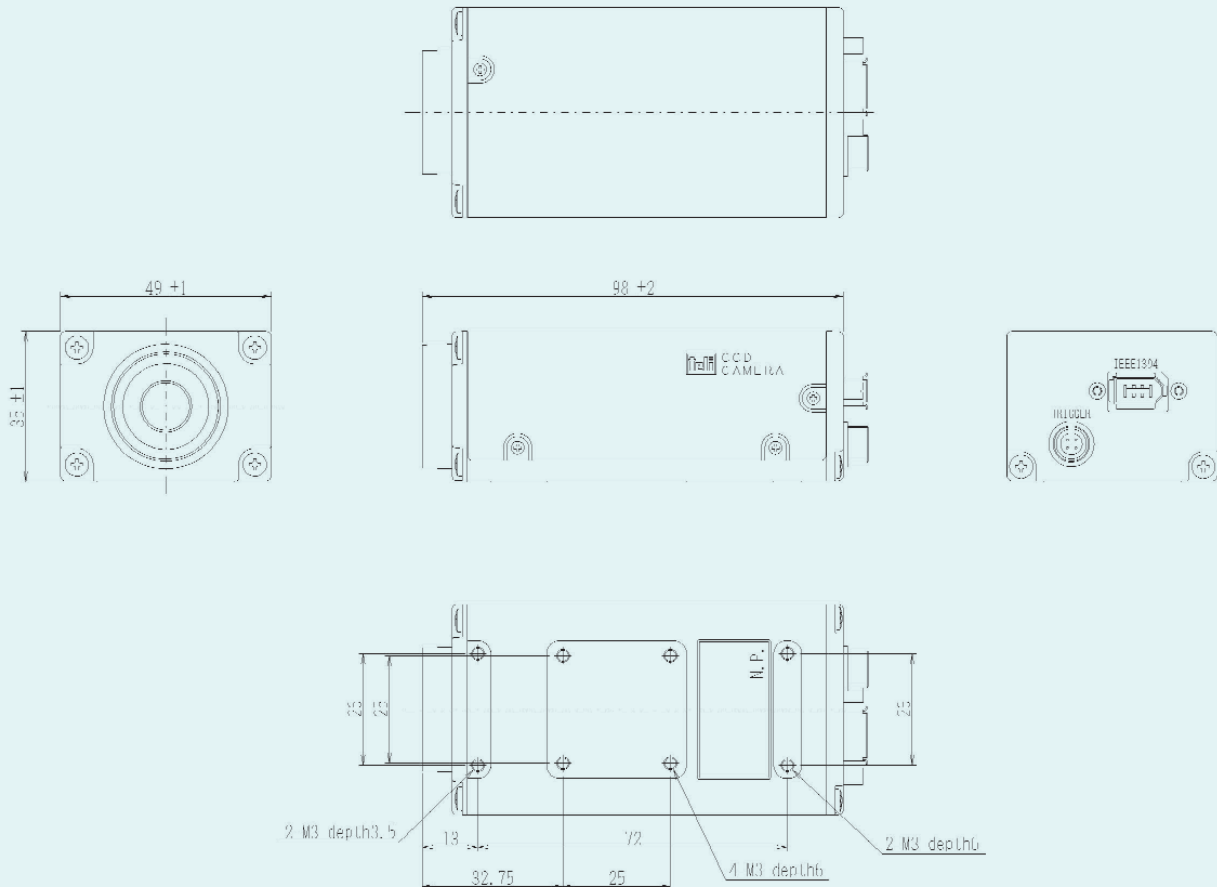
Type	CS 3950DiF
Image sensor	1/3" Interline CCD Type: ICX204AL-6 1024 (H) x 768 (V) 4.65 (H) x 4.65 (V) μm (Square grid array) 5.8 (H) x 4.92 (V) mm
Video output pixels	30 fps
Unit pixel size	Standard: 400lx, F 5.6
Image Area	Minimum: 4lx (F 1.4) (GAIN MAX. approx. 50% video output)
Frame rate	VS 1.0V(p-p)/75 Ohm, DC coupled
Illumination	+/- 6dB
Video output	Fixed at 1.0
Gain	DC8V +30VDC (supplied via the IEEE1394 cable)
Gamma correction	Approx. 220mA
Power source	
Power consumption	
Interface spec	
Interface	Compliant with IEEE Std.1394a-2000
Transfer rate	400 Mbps
Video mode	Format _1 Mode_5; 1024x768 Mono 8bit Can be switched between 30, 15, 7.5, and 3.75 fps (factory setting: 30fps) Format _7 Mode_0 (when the scalable function is used)
Protocol	Compliant with IIDC1394-based Digital Camera Specification Ver.1.31
Trigger spec	
Input level	LOW level: 0-0.5V(p-p), HIGH level: 2-5V(p-p)
Input impedance	High impedance (100k Ohm)
Capture timing	Can be switched between rising edge/ falling edge detection (Factory setting: falling edge detection)
Pulse width	Minimum 1 μs , Maximum 2s
Electronic shutter spec	
Normal Shutter	Set via the IEEE1394 interface
RTS (Random Trigger Shutter)	Set via the IEEE1394 interface
Mechanical spec	
External dimension	49(W) x 35(H) x 98(D) mm
Weight	Approx. 170g
Lens mount	C-Mount
Ambient condition	
Operation	Performance guaranteed: Temperature from 0 through 40°C / Humidity from 30 through 70% (no condensing)
Storage	-5°C to 45°C / Humidity 30% to 90% (no condensing)
EMI	-20°C to 60°C / Humidity 10% to 90% (no condensing) Conform to EN61000-6-4
Output Connector	HR25-7TP-4S

Relative Spectrum Response

**Including lens characteristics, excluding light source characteristics*



Outline



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