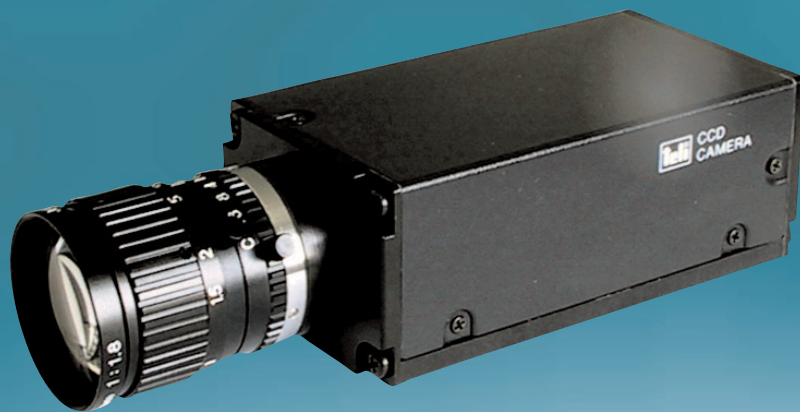


CS 8550DiF

**Double Speed B/W Progressive Scan
CCD Video Camera**



- **1/3" Progressive Scan CCD Sensor Square pixel**
- **IEEE 1394 Interface**
- **Partial Scan with block read out**
- **Hard- / Software Trigger**
- **Double Speed Video Output (60fps)**
- **Normal Electronic and Random Trigger Shutter (RTS)**
- **Camera parameter setting via IEEE1394 Interface**
- **Application**
 - Machine vision
 - Factory automation
 - Quality control



Technical Data

Type

CS 8550DiF

Image sensor

Total pixel

Scanning area

Unit pixel size

Video output pixels

Resolution

Subject illumination

Minimum illumination

Sensitivity setting

Gamma

Power supply

Power consumption

Progressive Scan Interline CCD

Type: ICX 424 AL

692 (H) x 504 (V)

4.88(H) x 3.66(V) mm (=equivalent to 1/3" type)

7.4 (H) x 7.4 (V) μm (Square grid pattern)

640 (H) x 480 (V)

485 TV lines (H)

400 Lux (F5.6)

4 Lux (F1.4) (GAIN Max., approx. 50% video output)

Setting is available as follows via communication command GAIN: -/+ 6dB

1.0 fixed

From DC +8V through DC +30V (IEEE 1394 cable power supply)

3.2W (at +12V)

Interface

Transfer speed

Video mode

Protocol

Input signal

Grabbing timing

Pulse width

Partial scan

Conform to IEEE Std.1394a-2000

400Mbps

Format_0 Mode_5 (60fps 640 x 480 Mono 8bit)

Conforms to 1394-based Digital Camera Specification ver. 1.3

(Shutter Trigger) VL= 0 to 0.5V (100kOhm), VH = 2 to 5V (100kOHM)

Falling edge detection

Minimum: 2 micro s / Maximum: 1 s

Partial scan function with random access to 16 blocks

Electronic Shutter Spec

Normal

Random Trigger Shutter

Initial: Normal electronic shutter

Setting via IEEE1394 interface

Selection among 8 steps: 1/20000, 1/8000, 1/4000, 1/2000, 1/1000, 1/500, 1/200s, OFF (Initial:OFF)

Setting via IEEE1394 interface

Selection among 8 steps:

1/20000, 1/8000, 1/4000, 1/2000, 1/1000, 1/500, 1/200, 1/60s

Ambient condition

Performance guaranteed

Operation guaranteed

Storage

EMI

Temperature: 0°C through 40°C

Humidity: 30% to 70%

Temperature: -5°C to 45°C

Humidity: 30% to 90%

Temperature: -20°C to 60°C

Humidity: 10% to 90%

Conform to EN 50081-2

Mechanical Spec

Lens Mount

Dimension

Weight

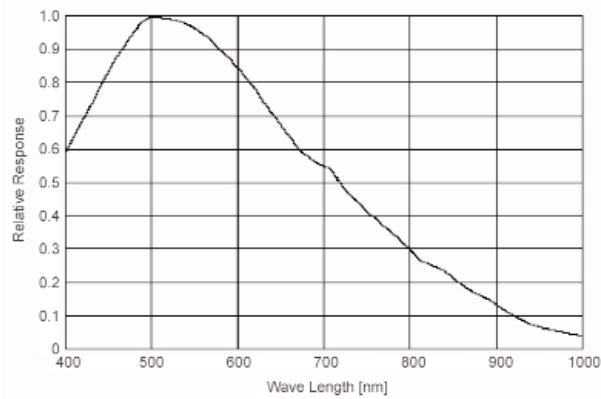
C-mount

35 (H) x 49 (W) x 98 (D)mm

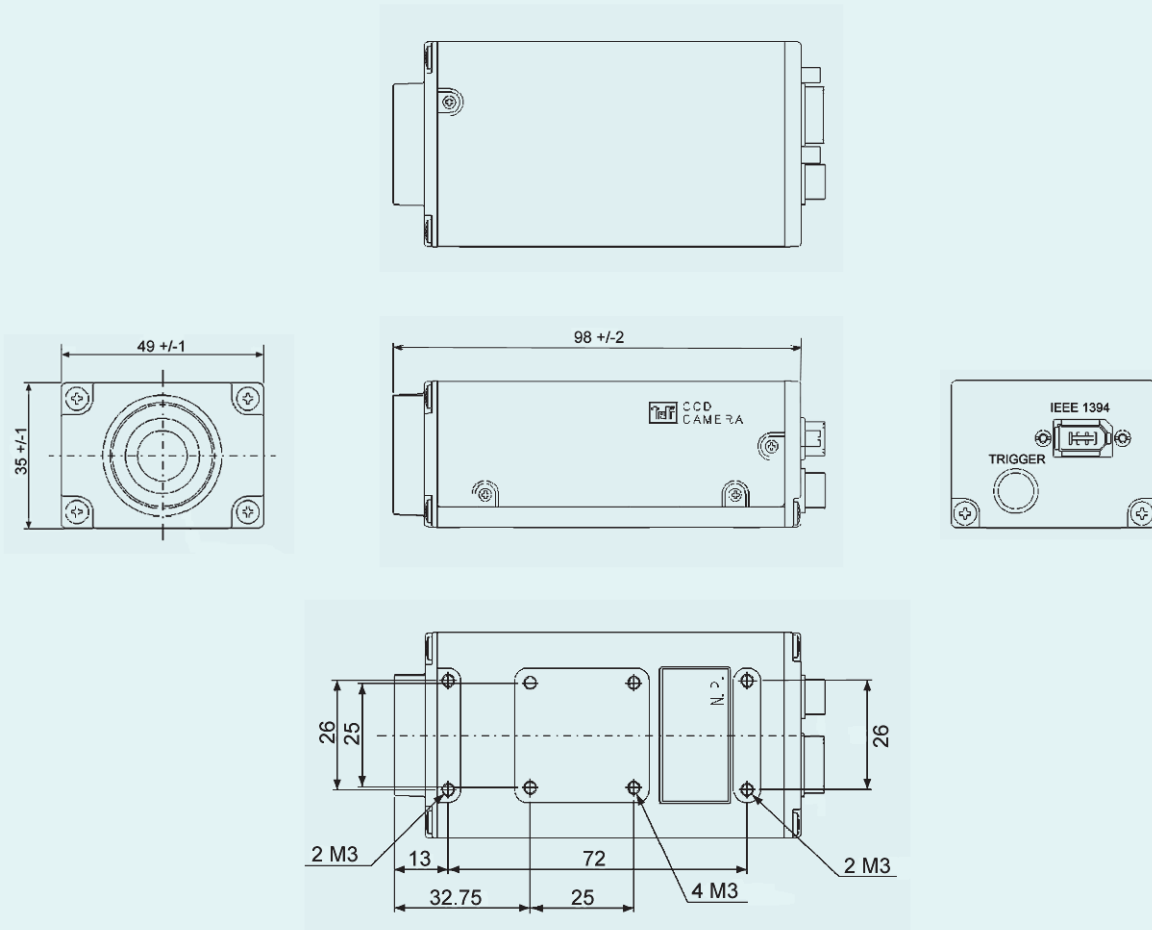
170g

Relative Spectrum Response

**Including lens characteristics, excluding light source characteristics*



Outline



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