

Technical Data

Type

Image sensor

Video output pixels

Unit pixel size

Image Area

Scanning lines

TV system

Video output format

Sync system

Aspect ratio

Illumination

Video output

Resolution

S/N

Gain

Gamma correction

White-clip level

Power source

Power consumption

Internal sync signal spec

Base clock frequency

H sync frequency

V sync frequency

External sync signal spec

Ext. sync input signal

Input level

Input impedance

Interlace

Polarity

Pulse width

Repeating frequency

Phase difference

Trigger spec

Input level

Input impedance

Capture timing

Pulse width

Electronic shutter spec

Normal Shutter

RTS (Random Trigger Shutter)

CS 8570D

1/2" Progressive Scan Interline CCD

Type: ICX 414 AL-6

648 (H) x 494 (V)

9.9 (H) x 9.9 (V) μm (Square grid array)

6.4 (H) x 4.8 (V) mm

525 lines

Special format (Non-conforming to EIA)

1/60s Non-interlace mode

1/120s 2:1 interlace mode. Switching via rear-panel DIP SW

Internal/External automatic switch-over

4:3

Standard: 400lx, F 5.6

Minimum: 4lx (F 1.4) (GAIN MAX. approx. 50% video output)

VS 1.0V(p-p)/75 Ohm, DC coupled

485 TV lines (H)

Standard: 52 dB(p-p)rms

FIX (fixed) gain: Factory-shipped preset level

MANU (manual) gain: Setting through GAIN VR

FIX/MANU switching via rear-panel DIP SW

Fixed at 1.0

Approx. 840mV(p-p) (Excluding SYNC)

DC12V +/-10%, Ripple voltage: 50mV(p-p) or less

Approx. 125mA

24.545MHz (1CLK) +/-200ppm

31.468kHz (1H=780CLK)

59.94Hz (Under non-interlace), 119.88Hz (Under 2:1 interlace)

HD/VD

2 ~ 5V(p-p) / 2 ~ 4V(p-p) / 75Ohm

75Ohm/High impedance, 10k Ohm (switching via rear-panel SW), (Initial factory setting: High)

1/60s non-interlace or 1/120s 2:1 interlace

Negative

HD: 3.2 +/- 1 μs (LOW), VD: From 125 through 400 μs (LOW)

$f_H = 31.468 \text{ kHz} \pm 1\%$, $f_V = f_H/262.5$ or $f_H/525$

HD/VD: 0 +/-5.0 μs , 1/ $f_H/2$ +/-5.0 μs

LOW level: 0-0.5V(p-p), HIGH level: 4-5V(p-p)

High impedance (10k Ohm)

Rising edge detection (Positive)

Minimum 2 μs , Maximum 1/8s

Shutter speed setting via rear-panel SW (Initial:OFF)

8 steps selectable (=OFF, 1/200, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/20000s)

No.	Reset	Exposure	Sync
1	Non-reset	Rear SW (FIX mode)	Internal
2			Consecutive HD / Consecutive VD IN
3			Consecutive HD / Single VD IN
4		Internal	
5	V reset	TRIG pulse width (PULSE width mode)	Consecutive HD / Consecutive VD IN
6			Consecutive HD / Single VD IN
7			Internal
8	SYNC reset	Rear SW (FIX mode)	Consecutive HD IN
9			Internal
10	V reset	TRIG pulse width (PULSE width mode)	Internal
11			Consecutive HD IN

Technical Data

Type

CS 8570D

Multiple Shutter Restart / Reset

Multiple shutter via ext. trigger signal and ext. VD signal
Restart / reset available via ext. VD signal (Switching via rear panel DIP SW, Initial OFF)

Partial Scan

No.	Scan mode	Sync	Reset	E-shutter Normal	E-shutter RTS
1	1/2 partial	Internal	Non-reset	Enabled [Option]	Enabled
2			V-reset	Disabled	
3		Consecutive HD VD IN	Non-reset	Enabled [Option]	Enabled
4		Consecutive HD (VD) IN	V-reset	Disabled	
5	1/4 partial	Internal	Non-reset	Enabled [Option]	Enabled
6			V-reset	Disabled	
7		Consecutive HD VD IN	Non-reset	Enabled [Option]	Enabled
8		Consecutive HD (VD) IN	V-reset	Disabled	
9	programmable	Consecutive HD VD IN	Non-reset	Enabled [Option]	Enabled [Option]

Reset mode

Non-reset

	1/2 partial scan	1/4 partial scan
1/60s non-interlace	525 H	525 H
1/120s interlace	262.5 H	262.5 H

V-reset

	1/2 partial scan	1/4 partial scan
1/60s non-interlace	265 H	131 H
1/120s interlace	131.5 H	65.5 H

Partial signal

Input level

Input impedance

Polarity

Option
LOW level: 0-0.5V(p-p), HIGH level: 4-5V(p-p)
High impedance (10k Ohm)
Positive (Hi : High-speed transfer)

Mechanical spec

External dimension

Weight

Lens mount

29(W) x 29(H) x 39.5(D) mm
Approx. 42g
C-Mount

Ambient condition

Operation

Storage

EMI

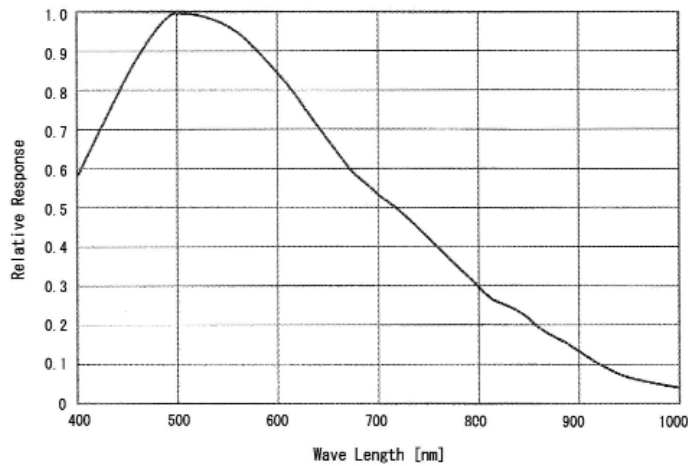
Performance guaranteed: Temperature from 0 through 40°C / Humidity from 30 through 90% (no condensing)
-5°C to 45°C / Humidity 10% to 90% (no condensing)
-20°C to 60°C / Humidity 10% to 90% (no condensing)
Conform to EN61000-6-4

Output Connector

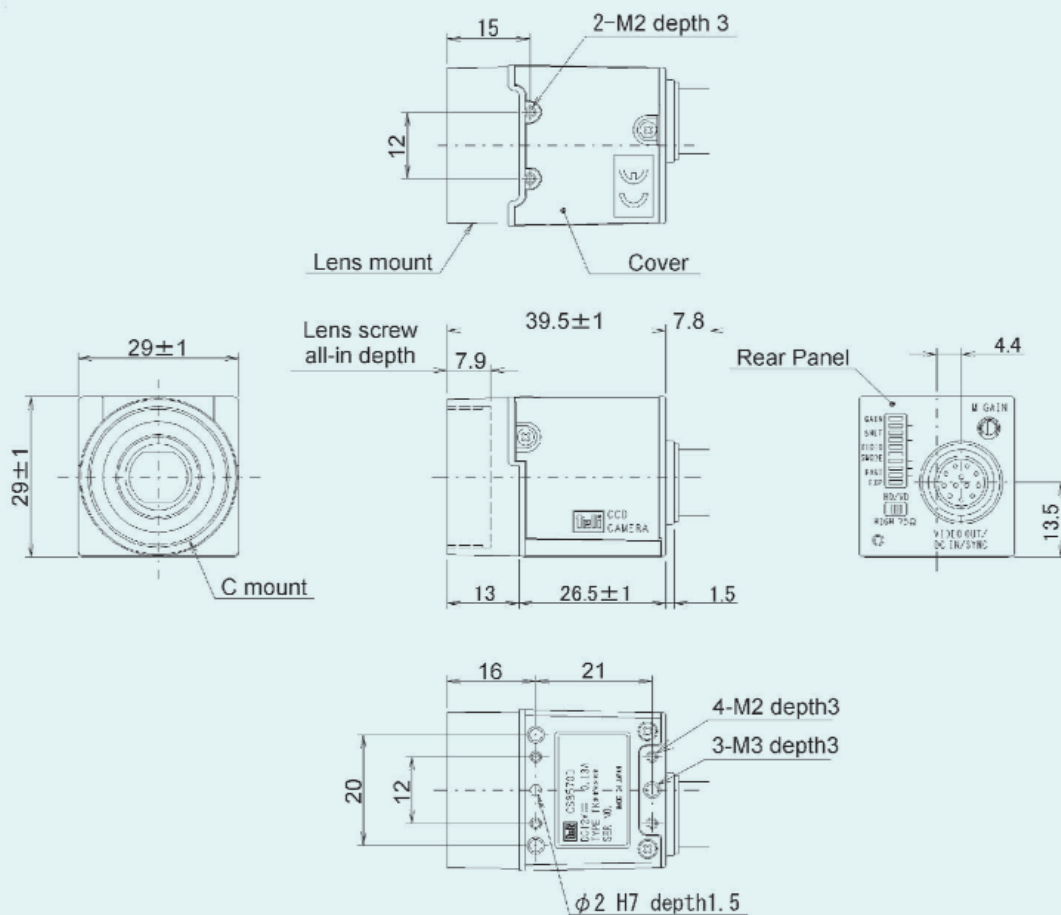
HR10A-10P-12S

Relative Spectrum Response

*Including lens characteristics, excluding light source characteristics



Outline



NEW ELECTRONIC TECHNOLOGY Vertriebs-GmbH

Lerchenberg 7 • D 86923 Finning, Germany • Phone: +49(0)88 06 - 92 34-0 • Fax: +49(0)88 06 - 92 34-77

E-mail: info@net-gmbh.com

NET USA, Inc.

3037-45th Street • Highland, IN 46322 • Phone: (219) 934-9042 • Fax: (219) 934-9047

E-mail: info@net-usa-inc.com

www.net-gmbh.com