

## Product Description

LXR is short for the **ELIXIR** sensor ... or **Enhanced Light Integrity for Extended Infra-Red** spectral response. This new generation CCD marks a quantum advance in photonic response, IR response and dynamic range. The **benefits are clear**: no blooming, no streaking, no smearing. The applications are extremely interesting: night vision, vehicle monitoring, high speed surveillance, license plate reading.

These 1/2" CCDs are high performance, LXR extended-infrared board cameras designed for use in covert, night-time or dark room installations. Their low light capability rivals that of other high-performance cameras with military spec performance.

LXR boards also have low smear characteristics made possible by its wide dynamic range. Excellent bright light performance allows for use without mechanical auto-iris lenses.

## Specifications

Model	SX800 Series	CX800 Series	CZ800 Series
LXR 1/2" CCD	Standard	Standard	Standard
Mono / Color / IR	Mono / IR	Color only	Dual pass Color / IR
Image Sensor	1/2" Interline	1/2" Interline	1/2" Interline
Video Signal Output	1 V p-p, 75 ohm	1 V p-p, 75 ohm	1 V p-p, 75 ohm
CCD Effective Pixels	811 (H) x 508 (V) – EIA 795 (H) x 596 (V) - CCIR	811 (H) x 508 (V) – EIA 795 (H) x 596 (V) - CCIR	811 (H) x 508 (V) – EIA 795 (H) x 596 (V) - CCIR
Sync System	DC: Internal	DC: Internal	DC: Internal
Min. Illumination	0.01 lux @ F1.2 (SAGC on)	0.1 lux @ F1.2 (SAGC on)	0.1 lux @ F1.2 (SAGC on)
IR Sensitivity	Zero (0) lux from 780 nm – 1050 nm	N/A	Zero (0) lux from 780 nm – 1050 nm
Resolution	600 TVL	480 TVL	480 TVL
S/N Ratio	> 48 dB	> 48 dB	> 48 dB
Electronic Shutter	1/60 to 1/100,000 – EIA 1/50 to 1/100,000 – CCIR	1/60 to 1/100,000 – EIA 1/50 to 1/100,000 – CCIR	1/60 to 1/100,000 – EIA 1/50 to 1/100,000 – CCIR
Gamma Correction	0.45 / 1	0.45 / 1	0.45 / 1
Backlight Compensation	Auto Detect On/off; Histogram plus 225 area window weight		
Gain Control	AGC 30 dB; SAGC 36 dB	AGC 30 dB; SAGC 36 dB	AGC 30 dB; SAGC 36 dB
Operational Range	-10°C to + 50°C 14°F to 122°F	-10°C to + 50°C 14°F to 122°F	-10°C to + 50°C 14°F to 122°F
Humidity Range	Up to 80% RH	Up to 80% RH	Up to 80% RH
Power Supply	12 VDC ± 10%	12 VDC ± 10%	12 VDC ± 10%
Power Draw	2.9 W @ 12 VDC	2.9 W @ 12 VDC	2.9 W @ 12 VDC
Lens (standard)	C/CS Mount Type Lenses	C/CS Mount Type Lenses	C/CS Mount Type Lenses
Lens (available)	Video Drive Lenses	Video Drive Lenses	Video Drive Lenses
Dimensions	57mm x 51mm x 38mm 2.2" x 2.0" x 1.5"	57mm x 51mm x 38mm 2.2" x 2.0" x 1.5"	57mm x 51mm x 38mm 2.2" x 2.0" x 1.5"
Weight	4 oz (110 g)	4 oz (110 g)	4 oz (110 g)

## Product Image



### Lenses shown (from left):

1. VA550 1/3" Varifocal Auto Iris 5 – 50 mm
2. VA358 1/3" Varifocal Auto Iris 3.5 – 8.0 mm
3. VA8551 1/2" Varifocal Auto Iris 8.5 – 51 mm