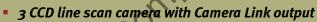
3 CCD RGB Line Scan Camera





- Dichroic RGB beam splitter prism with 3 sensors
- 3 sensors with 512 pixels, 14 μm x 14 μm
- 7.168 mm scanning width
- Video output in Camera Link: 24 bit in base configuration. 30 bit in medium
- Scan rate up to 70922 lines per second at 40 MHz pixel clock
- Edge pre-select and pulse width trigger modes
- One-push auto white balance
- Two point flat-field and shading correction
- Knee and binning functions for extended dynamic
- Built-in diagnostics
- Lens adapter for Nikon F-mount or P-mount (M42x1)
- Short ASCII commands set-up via RS 232C or Camera Link
- Setup by Windows NT/2000/XP software





See the possibilities

Front view Ø4⁺0.012 depth 3.5

4-M3 depth 3.5

Specifications	CV-L108 CL
Scanning system	Line sensor with internal clock
Pixel clock	40.00 MHz
Sensor	3 line sensors mounted on RGB beam splitter prism
Sensor scanning width	7.168 mm
Cell size	14 (h) x 14 (v) μm
Active pixels	3 x 512 (h)
	3 x 256 (h) with 2:1 binning
Sensitivity	Radiometric 7.5 mV/nJ/cm ² (Gain o dB, 600 μs exp., 100% video on G)
Sensitivity	Photometric 162 Lux (4000 K)
S/N ratio	58 dB on green with gain = -3 dB
Video output	24 bit in CL base configuration 30 bit in CL medium configuration
Gain	Master (G)3 dB to +12 dB R and B6 dB to +6 dB
White balance	Manual, fixed or one-push Adjustable range 2800 K to 9000 K Fixed: 4000 K, 4600 K or 5600 K
Knee function	Individual RGB knee point and slope
Shading correction	Individual RGB flat or RB to G (One-push. Range -20%)
Flat-field correction	Two point pixel-to-pixel correction
Synchronization	Internal X-tal or external trigger
Trigger modes	No-shutter, shutter-select and pulse width control
Scan rate Standard Programmable	14.1µs (no shutter/internal trigger) 14.1µs~14.938ms (1024L), 25ns (internal trigger)
Programmable exposure	50 nsec. to 14.483 msec. in 25 ns increments
Functions controlled by RS 232C or CL	Trigger modes, scan rate, exposure time, gain/ black level, shading correction, flat-field correction, white balance, knee-function, diagnostics
Diagnostics	Test pattern. (Color bar, gray pattern and white) LED for power
Lens mount	Nikon F-mount. (Standard) P-mount (M42x1) (Factory option)
Sensor allignment	Better than ±0.1 pixel
Operating temperature	-5°C to +45°C
Humidity	20 – 80% non-condensing
Storage temp./humidity	-25°C to +60°C/20 – 80% non-condensing
Vibration	3G (20Hz to 200Hz, XYŽ direction)
Shock	506
Regulations	CE (EN61000-6-2 and EN61000-6-3) IEC61000-4-2 Conforming level 4 FCC Part15 Class B ROHS
Power	12V DC ± 10%. 15W
Dimensions (H x W x D)	90 mm x 90 mm x 90 mm
Weight	830 g

CV-L108 CL 3 CCD RGB Line Scan Camera. F-mount.

CV-L108 CL 3 CCD RGB Line Scan Camera. P-mount (M42 x 1 thread).

DC In / Trigger ① ⑨ ② 8 100 3 19 7 (S) (O) 4 HIROSE HR10A-10R-12PB-01 Ground +12V DC Ground Reserved Ground RXD RS 232C* TXD RS 232C* Ground **XEEN** output Trigger input (TTL)* +12V DC 12 Ground **Camera Link Interface** Function **CL Data CL** Data X2-/X2+ CL Data Xclk-/Xclk+ CL Clk X3-/X3+ CL Data 19 SerTC+/SerTC- Serial in * 20 SerTFG-/SerTFG+ Serial out * CC1-/CC1+ 22 Trigger * CC2-/CC2+ Reserved 10 23 CC3-/CC3+ Not used 11 24 CC4-/CC4+ Not used 12 25 GND 13 26 *) In Camera Link or 12 pin Hirose Note: Camera Link base configuration shown. For medium configuration refer to Camera Link specifications or operation manual. B

Relative transmission 0.2 500 Wavelength (nm)

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