CV-L108 CL

3 CCD RGB Line Scan Camera





- 3 CCD line scan camera with Camera Link output
- 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





4-M3 depth 3.5

Specifications CV-Lto8 CL Scanning system Line sensor with internal 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/nl/cm² (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 30 bit in CL medium configuration 40 manual, fixed or one-push Adjustable range 2800 K to 9000 K Knee function Shading correction Individual RGB flat or RB to G (One-push. Range -20%) Flat-field correction Flat-field correction Synchronization Trigger modes No-shutter, shutter-select and pulse width control Scan rate Standard Programmable Programmable exposure 14.1µs (no shutter/internal trigger) 14.1µs (no shutter/internal trigger) 14.1µs (no shutter/internal trigger) 15 nsec. to 14.483 msec. in 25 ns increments Functions controlled by RS 232C or CL Nike ablance, knee-function, white balance, knee-function, 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 Derating temperature 1-5°C to 445°C Humidity 20 -80% non-condensing Storage temp./humidity 22°C to +60°C/20 - 80% non-condensing Vibration 30 g (20Hz to 200Hz, XYZ direction) Shock 50G Regulations CC-Line Sensor mm 12 V DC ± 10%. 15W Dimensions (H x W x D) 90 mm x 90 mm x 90 mm Weight			
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IEC61000-4-2 Conforming level 4 FCC Part15 Class B RoHS	Shock	50G	
Dimensions (H x W x D) 90 mm x 90 mm x 90 mm	Regulations	IEC61000-4-2 Conforming level 4 FCC Part15 Class B	
	Power	12V DC ± 10%. 15W	
Weight 830 g	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 x1 thread).

Connection Pin-out

DC In / Trigger

Front view Ø4^{+0.012} depth 3.5

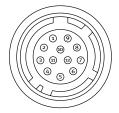
Side view

Bottom view

4-M3 depth 5

Rear view

(3.25)



HIROSE HR10A-10R-12PB-01

Ground

- +12V DC
- Ground 3
- Reserved Ground
- RXD RS 232C*
- TXD RS 232C*
- Ground XEEN output
- Trigger input (TTL)*
 +12V DC
 Ground
- 12

Camera Link Interface



Pin		Signal	Function
1	14	GND	
2	15	Xo-/Xo+	CL Data
3	16	X1-/X1+	CL Data
4	17	X2-/X2+	CL Data
5	18	Xclk-/Xclk+	CL Clk
6	19	X3-/X3+	CL Data
7	20	SerTC+/SerTC- Serial in *	
8	21	SerTFG-/SerTFG+ Serial out *	
9	22	CC1-/CC1+	Trigger *
10	23	CC2-/CC2+	Reserved
11	24	CC3-/CC3+	Not used
12	25	CC4-/CC4+	Not used
13	26	GND	

*) In Camera Link or 12 pin Hirose Note:

Camera Link base configuration shown. For medium configuration refer to Camera Link specifications or operation manual.

