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
## Specifications for CV-L108 CL

### Scanning system
- **CV-L108 CL**: 3 CCD RGB Line Scan Camera. F-mount.

### Sensor
- **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 Sensitivity**: 7.5 mV/nJ/cm² (Gain 0 dB, 600 μs exp., 100% video on G)
- **Photometric Sensitivity**: 162 Lux (4000 K)

### Gain
- **Gain**: Master (G) -3 dB to +12 dB, R and B -6 dB to +6 dB

### White balance
- **White balance**: Manual, fixed or one-push

### Knee function
- **Knee function**: Individual RGB knee point and slope

### Shading correction
- **Shading correction**: Individual RGB flat or RB to G (One-push. Range -20%)

### Flat-field correction
- **Flat-field correction**: Two point pixel-to-pixel correction

### Synchronization
- **Synchronization**: Internal X-tal or external trigger

### Trigger modes
- **Trigger modes**: No-shutter, shutter-select and pulse width control

### Scan rate
- **Scan rate**: Standard Programmable

### Functions controlled by RS 232C or CL
- **Functions**: Trigger modes, scan rate, exposure time, gain/black level, shading correction, flat-field correction, white balance, knee-function, diagnostics

### Diagnostics
- **Diagnostics**: Test pattern. (Color bar, gray pattern and white) LED for power

### Lens mount
- **Lens mount**: Nikon F-mount. (Standard) P-mount (M42x1) (Factory option)

### Sensor alignment
- **Sensor alignment**: Better than ±0.1 pixel

### Operating temperature
- **Operating temperature**: -5°C to +45°C

### Humidity
- **Humidity**: 20 – 80% non-condensing

### Storage temp./humidity
- **Storage temp./humidity**: -25°C to +60°C/20 – 80% non-condensing

### Vibration
- **Vibration**: 3G (20Hz to 200KHz, XYZ direction)

### Shock
- **Shock**: 5G

### Regulations
- **Regulations**: CE (EN61000-6-2 and EN61000-6-3), IEC61000-6-1, FCC Part15 Class B, RoHS

### Power
- **Power**: 12V DC ± 10%, 15W

### Dimensions (H x W x D)
- **Dimensions**: 90 mm x 90 mm x 90 mm

### Weight
- **Weight**: 830 g

### Spectral Response

### Ordering Information
- **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).