



BV-C3120CL

SWIR Line Scan Camera

BTO

The BV-C3120CL is an exclusive SWIR line scan camera with sensor having the sensitivity from 1100nm to 1900nm.



The BV-C3120CL uses a sensor having 25 micron pixel size and sensitivity from 1100nm to 1900nm. The interface used is Camera Link Base Configuration and lens mount can be selected from C mount or M52 mount. BV-C3120CL is a build-to-order product.

M52 mount type: BV-C3120CL-M

C mount type: BV-C3120CL-C (photo)

Item	Specifications
Line Sensor	Effective Pixel: 512pixels, Pixel size: 25 μ m x 25 μ m Effective image length: 12.8mm x 1 Anti-Ghost type InGaAs sensor is employed
Wave length	1100nm ~ 1900nm
Synchronization	Internal, External trigger
Pixel clock cycle	200ns ~ 10 μ s (Setting is 12.5ns/step)
Line rate	123.2 μ s (Pixel clock period: 200ns, at Shutter time: 17.8 μ s)
Line frequency	8.117kHz (Pixel clock period: 200ns, at Shutter time: 17.8 μ s)
Sensor Conversion Efficiency	0.93 μ V/e ⁻
S/N	55dB (Gain=0dB)
Electronic shutter	Range: 17.8 μ s ~ 100ms (Setting Unit: 12.5ns)
Gain	0dB ~ +30dB (0x ~ 31x, 1/512 step)
Black level	-127 ~ 127LSB (10bit output)
Blemish Compensation	Black defect compensation: ON/OFF
Shading Compensation	Flat Shading Compensation
Video Output	Camera Link 8/10 bit Base Configuration x 1
Operating mode	Shutter mode (Internal, External trigger)
Trigger input	Hirose12P: TTL(Max. voltage: Power voltage), Camera Link: LVDS(CC1,CC2)
Sync output	XEEN(Hirose12P), LVAL,DVAL,EEN(Camera Link)
Communication interface	Camera Link: EIA644 9600bps,115200bps selectable
Lens mount	M52 mount: Flange back 46.5mm Tolerance: 0 ~ - 0.05mm or C mount: Flange back 17.526mm Tolerance: 0 ~ - 0.05mm
Power supply	DC12V \pm 10%
Operating temperature / humidity	-5 $^{\circ}$ C ~ +45 $^{\circ}$ C / 20% ~ 80% (no condensing)
Dimensions (W x H x D)	95 x 95 x 95mm (excluding protrusion)
Weight	820g

Associated product: M52 mount SWIR Lens (20mm/24mm/28mm/35mm/50mm/105mm)

C mount SWIR Lens (20mm/24mm/28mm/35mm/50mm/105mm)

- Specifications are subject to change without notice.
- This product is in the scope of Export Trade Control Order and requires Export License etc.

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