



BV-C3100 SWIR Line Scan Camera

BV-C3100 is an exclusive NIR line scan camera with sensor having the sensitivity from 950nm to 1700nm.



BV-C3100 uses a sensor having 25 micron pixel size and sensitivity from 950nm to 1700nm. The interface used is Camera Link Base Configuration and lens mount can be selected C mount or M52 mount.

M52 mount type: BV-C3100-M

C mount type: BV-C3100-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
Wave length	950nm ~ 1700nm
Synchronization	Internal, External trigger
Pixel clock cycle	200ns ~ 10 μ s (Setting is 12.5ns/step)
Line rate	123 μ s (Pixel clock period: 200ns, at Shutter time: 17.8 μ s)
Line frequency	8.13KHz (Pixel clock period: 200ns, at Shutetr 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 ~ +24dB (x1 ~ x16, 1/16 step)
Black level	-127 ~ 127LSB (10bit output)
Blemish Compensation	Black defect : ON/OFF
Shading Compensation	Flat Shading Compensation
Video Output	Camera Link 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 inteface	Camera Link: EIA644 9600bps,115200bps selectable
Lens mount	M52 mount: Flange back 46.5mm - 0.05mm or C mount: Flange back 17.526mm - 0.05mm
Power supply	DC12V \pm 10%
Operating Ambient Temperature	-5 $^{\circ}$ C ~ +45 $^{\circ}$ C / 20% ~ 80% (non condensing)
Dimensions (WxHxD)	95 x 95 x 95mm (excluding protrusion)
Weight	820g

Associated product: Lens for BV-C3100-M (BV-L1028-SWIR, BV-L1035-SWIR, BV-L1050-SWIR)

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