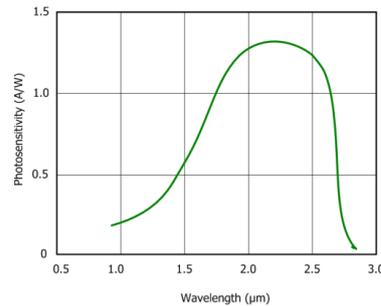




BV-C3101 Short Wave Infrared(SWIR) Line Scan Camera



The BV-C3101 is a dedicated camera for SWIR wavelength using InGaAs sensor with the sensitivity from 1,200nm to 2,600nm. As the wavelength extends to further longer wavelength, it is possible to detect more materials. BV-3101 has two types due to its using sensor, one is BV-C3101R and the other is BV-C3101S. The interface is Camera Link and the lens mount can be selected from M52 mount or C mount. The BV-C3101 is BTO product.

Specifications	BV-C3101R	BV-C3101S <i>NEW</i>
Line sensor	Effective pixel:512 pixels、 Pixel size : 25μm x 250μm Effective image length : 12.8mm x 1	Effective pixel:512 pixels、 Pixel size : 25μm x 25μm、 Peltier element built-in
Sensor wavelength range	1,200 nm to 2,600 nm (Maximum sensitivity at 2,300 nm)	
Synchronization	Internal, External trigger	
Pixel clock	4 MHz (250 ns)	5 MHz z (200ns)
Total clock number	2064 clocks ((16 + (8x256)) clocks): excluding exposure time	
Line rate	516 μs: excluding exposure time Variable range: 526 μs to 100 ms	72μs: excluding exposure time
Line frequency	1,938 KHz: in case the exposure time is not included 659.6 Hz: in case the exposure time is 1 ms	13.88KHz: in case the exposure time is not included 9.328KHz: in case the exposure time is 1 ms
Conversion efficiency	16nV/ e ⁻ (Standard) / 320nV/e ⁻	160nV/e ⁻
Signal to noise ratio	50dB (Gain=0dB)	
Electronic shutter	Variable range:10μs ~ 10ms (Variable step unit : 12.5ns)	
Gain	0dB to +24dB (x1 to x16、 1/16 step)	0dB to +12dB
Black level	-127 to 127LSB (10bit output)	
Peltier temperature setting	—	-10°C Fixed (Room temperature)
Blemish compensation	Blemish compensation (Black) : ON/OFF	
Shading compensation	Flat shading compensation	
Video output	Camera Link , Base Configuration, 10 bit x 1	
Operation mode	Shutter select mode (Internal/External)	
Trigger input	Hirose12P: TTL(Max: Power Voltage), Camera Link: LVDS(CC1,CC2)	
Sync output	XEEN(Hirose12P), LVAL,DVAL,EEN(Camera Link)	
Communication interface	Camera Link	9600bps or 115200bps selectable
Lens mount	M52 mount, C mount	
Power supply	DC12V ± 10%	
Operating ambient	-5°C ~ +45°C / 20% ~ 80% (No-condensing)	
Dimensions (WxHxD)	95 x 95 x 115mm (excluding protrusion)	
Weight	960g	960g

Associated product:

Lenses 20mm,24mm, 28mm, 35mm, 50mm, 105mm (M52 mount / C mount)

- This product is in the scope of Export Trade Control and required the export license to export.
- Specifications are subject to change without prior notice.

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