



BV-C3105CL SWIR Line Scan Camera

BV-C3105CL is an exclusive SWIR line scan camera using tall pixel sensor and having the sensitivity from 950nm to 1700nm.



BV-C3105CL uses a sensor having 25x500 micron pixel size and high sensitivity from 950nm to 1700nm. The interface used is Camera Link Base Configuration and lens mount can be selected from C mount or M52 mount.

Item	Specifications
Line Sensor	Effective Pixel: 512pixels, Pixel size: 25μm x 500μm Effective image length: 12.8mm Anti-Ghost type InGaAs sensor is employed
Wave length	950nm ~ 1700nm
Synchronization	Internal, External trigger
Pixel clock cycle	125ns/200ns (Setting is 12.5ns/step)
Line rate	83.75μs (Pixel clock period: 125ns, at Shutter time: 17.8μs)
Line frequency	11.94kHz (Pixel clock period: 125ns, at Shutter time: 17.8μs)
Sensor Conversion Efficiency	0.16μV/e- or 0.93μV/e- (sensitivity selectable)
S/N	55dB (Gain=0dB)
Electronic shutter	Range: 17.8μs ~ 100ms (at Pixel Clock Period:125ns) Setting Unit: 12.5ns
Gain	0dB ~ +31.0dB (x0 ~ x31, 1/512 step)
Black level	-127 ~ 127LSB (10bit output)
Blemish Compensation	Black defect: ON/OFF
Shading Compensation	Flat Shading Compensation
Video Output	8bit, 10 bit or 12bit, Configuration Mono x 1 Channel
Operating mode	Shutter mode (Internal, External trigger)
Trigger input	Hirose12P: TTL (However max. voltage: Camera's 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	C mount: Flange back 17.526mm - 0.05mm M52 mount (BTO) : Flange back 46.5mm - 0.05mm
Power supply	DC12V ± 10%
Operating temperature / humidity	-5°C ~ +45°C / 20% ~ 80% (no condensing)
Dimensions (W x H x D)	95 x 95 x 95mm (excluding protrusion)
Weight	820g

Product code: 9200007

Associated product: Lens for BV-C3105CL (BV-L1020-SWIR, BV-L1024-SWIR, BV-L1028-SWIR, BV-L1035-SWIR, BV-L1050-SWIR, BV-L1105-SWIR)

- 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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