

**BV-C3500 Wide Spectral Range Line Scan Camera**

BV-C3500 is a wide spectral range line scan camera covering wave length from visible area to NIR area (Patent pending).



BV-C3500 uses an exclusively designed beam splitter and equips two line scan sensors, one for visible wave length and the other for Near Infrared area. BV-C3500 covers wide range of wave length from 400nm to 1600nm.

It is possible to inspect objects in wide wave length with the same optical axis.

Item		Specifications
Line sensor	Visible	Effective Pixel: 4096pixels、 Pixel size: 7 μ m x 7 μ m、 Effective image length: 28.672mm x 1
	NIR	Effective Pixel: 512pixels、 Pixel size: 25 μ m x 25 μ m Effective image length: 12.8mm x 1
Optical system		Beam splitter (F 2.8)
Wave length		400nm ~ 1600nm
Synchronization		Internal / External trigger
Pixel clock	Visible	80MHz
	NIR	5MHz
Line rate	Visible	55.45 μ s (Internal trigger), Adjusting range: 55.45 μ s ~ 1sec
	NIR	123 μ s (Max.), Exposure time + 105.2 μ s
S/N		55dB (Gain=Low)
Electronic shutter	Visible	Adjusting range: 10 μ s ~ 100ms
	NIR	Adjusting range: 17.8 μ s ~ 100ms
Gain	Visible	-3dB ~ +12dB
	NIR	0dB ~ +24dB
Shading compensation		Flat shading compensation
Video output		Camera Link 10bit x 2, Base configuration x 1
Operating mode		Shutter mode (Internal / External trigger)
Trigger input		Hirose12P: TTL, Camera Link: LVDS(CC1)
Sync output		XEEN(Hirose12P), LVAL,DVAL,EEN(Camera Link)
Communication interface		Camera Link: EIA644, 9600bps, 115200bps selectable
Lens mount		M52, Flange back: 46.5mm - 0.05mm
Power supply		DC12V \pm 10%
Operating Ambient Temperature		-5 $^{\circ}$ C ~ +45 $^{\circ}$ C / 20% ~ 80% (No Condensing)
Dimensions (WxHxD)		95 x 95 x 95mm (excluding protrusion)
Weight		820g

Associated lens: BV-L1020, BV-L1024, BV-L1035, BV-L1028, BV-L1050, BV-L1105

- Specifications are subject to change without notice
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