



BV-C3300 P & S wave separation line scan camera

The BV-C3300 is a camera to separate P wave and S wave components from natural light respectively and to output each image independently.



The BV-C3300 employs a special prism optics to separate P wave and S wave components and each image is captured by 4K line sensor respectively. The BV-C3300 outputs P wave image and S wave image at the same time. It is effective to inspect both sides of transparent materials with thickness. The interface is Camera Link and the lens mount is M52 mount.

Item	Specifications
Line sensor	Effective pixel: 4096 pixels, Pixel size: 7 μ m x 7 μ m, Effective image length: 28.672mm x 2
Optical system	Beam splitter (F 2.8)
Wavelength range	400nm to 700nm
Synchronization	Internal / External trigger
Pixel clock	80 MHz
Line frequency	18.03 KHz (Internal trigger)
Line rate	55.45 μ s (Internal trigger), Variable range : 55.45 μ s~100msec Variable unit : 12.5ns
Minimum illumination	3500Lx (Gain=0dB, Shutter=OFF, Iris=F2. 100% output)
S/N	55dB (Gain=Low)
Electronic shutter	Variable range : 9.52 μ s ~ 100ms, Variable unit:12.5ns
Gain	Ch1,Ch2 Both : -3dB ~ +12dB
Black level	Ch1, Ch2 Both : 0 LSB ~127 LSB (at 10-bit output)
Shading compensation	Flat shading compensation: ON-OFF
PRNU/DSNU	Built in
Video output	Camera Link 10bit Base configuration x 1
Operating mode	No shutter mode (Internal / External trigger) Shutter select 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, 9600bps or 115200bps selectable
Lens mount	M52, Flange back:46.5mm Tolerance:0 to -0.05mm
Power supply	DC12V \pm 10%
Operating ambient temp./Humidity	-5 $^{\circ}$ C ~ +45 $^{\circ}$ C / 20% ~ 80% (Non-condensing)
Dimensions (WxHxD)	95 x 95 x 95mm (excluding protrusion)
Weight	820g

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

- Specifications are subject to change without a prior notice