



## 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. This is very effective for inspecting front and back of the transparent materials with thickness such as detecting scratches on the both sides of the glass, electric parts inspection on the board and contaminants inspection for raw materials.

The interface is Camera Link and the lens mount is M52 mount.

| Item                             | Specifications   |
|----------------------------------|--|
| Line sensor                      | Effective pixel: 4096 pixels, Pixel size: 7 $\mu$ m x 7 $\mu$ m<br>Effective image length: 28.672mm x 2pcs |
| 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)   |
| Line rate                        | 55.45 $\mu$ s (Internal), Variable range : 55.45 $\mu$ s~100msec<br>Variable unit : 12.5ns                 |
| Standard illumination            | 3500lx (Gain=0dB, Shutter=OFF, Iris=F2. 100% output)   |
| S/N                              | 55dB (Gain=Low)  |
| Electronic shutter               | Variable range : 9.52 $\mu$ s ~ 100ms, Variable unit:12.5ns  |
| Gain                             | Ch1, Ch2 Both : 0 ~ 31x (1/512 step)   |
| 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 8/10bit Base configuration x 1   |
| Operating mode                   | No shutter mode (Internal / External trigger)<br>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: EIA644, 9600bps or 115200bps selectable   |
| Lens mount                       | M52, Flange back:46.5mm Tolerance:0 to -0.05mm   |
| Power supply                     | DC12V $\pm$ 10% Typical:700 mA Max:800 mA  |
| Operating temperature / 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.

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