

New

BVC3340/3320LM Polarized Line Scan Camera

BVC3340/3320LM are polarized line scan cameras which separate P wave and S wave components from natural light and output each image independently.



BVC3340LM and BVC3320LM employ special prism optics (exclusively designed beam splitter) to separate P wave and S wave components, which are captured by newly developed 4K or 2K high-speed line sensor. These two cameras can output P wave image and S wave image of the same optical axis 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.

Its interface is Camera Link Base Configuration, and the lens mount is M52 mount.

Key Features

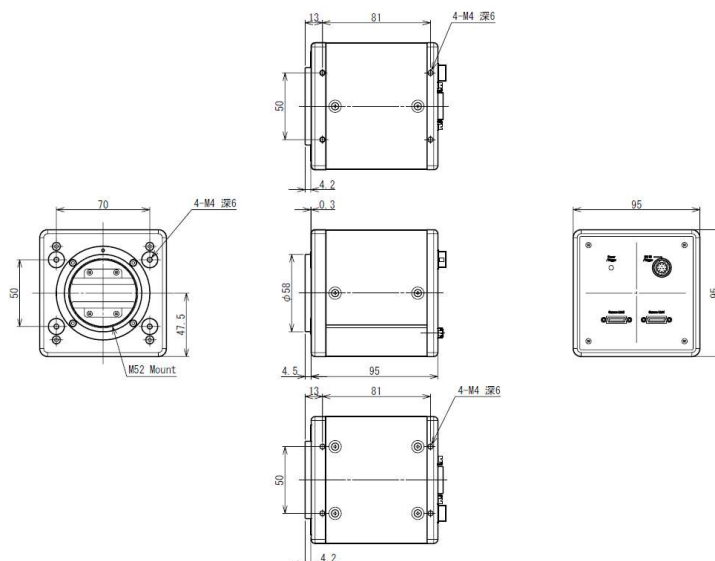
- ◆ Exclusively designed beam splitter optics
- ◆ BVC3340LM
 - Newly developed high-speed CMOS ×2 with 4096 pixels, 7μm square pixel sensor
 - Pixel clock cycle of 80MHz/4MHz and line rate of maximum 34.602kHz
- ◆ BVC3320LM
 - Newly developed high-speed CMOS ×2 with 2048 pixels, 14μm square pixel sensor
 - Pixel clock cycle of 80MHz/4MHz and line rate of maximum 64.308kHz
- ◆ Variable electronic shutter from 1.475μs to 100ms
- ◆ Camera Link Base Configuration and Medium Configuration (8/10/12 bit)
- ◆ Gain setting from x0.7 to x3.98
- ◆ Internal or External trigger for synchronization
- ◆ Various compensation functions are installed (see back page)
- ◆ Three electronic shutter modes (No Shutter, Shutter Select, Pulse Width)
- ◆ Communication interface by Camera Link, Baud rate of 115200bps
- ◆ Field update function
- ◆ Camera Control Tool is available

Specifications

	BVC3340LM	BVC3320LM
Optical system	Beam splitter F2.8	
Image sensor (Line sensor ×2)	Effective pixels : 4096 pixels Pixel size : 7μm × 7μm Image effective line length : 28.672mm	Effective pixels : 2048 pixels Pixel size : 14μm × 14μm Image effective line length : 28.672mm
Camera Link pixel clock frequency	80MHz / 40MHz selectable	
Bandwidth	400nm ~ 700nm	
Line rate / Line frequency	28.90μs / 34.602kHz (Internal)	15.55μs / 64.308kHz (Internal)
Image output	Camera Link Base Configuration, Camera Link Medium Configuration 8/10/12 bit	
Standard illumination	2600 lx (7800K, Gain=x1, Exposure Time=1ms, Lens F2.8, 100% output)	
S/N	More than 52dB (8bit gradation)	
Line rate variable range	28.90μs ~ 100ms	15.55μs ~ 100ms
Electronic shutter	Variable range 1.475μs ~ 100ms in 0.025μs unit	
Gain	x0.7 ~ x3.98 (each channel)	
Black level	0LSB ~ 127LSB	
Synchronization	Internal / External trigger	
Trigger input	Camera Link LVDS (CC1) DCIN/Trigger	
Electronic shutter mode	1. No Shutter mode (Internal/External trigger) 2. Shutter Select mode (Internal/External trigger) 3. Pulse Width Control (External trigger)	
Compensation	DSNU, Flat shading compensation, Lens aberration compensation (ON/OFF)	
Communication interface	Camera Link : EIA644, 115200bps	
Input voltage / Current consumption	DC 10V~26.4V, Standard 0.64A / Max 0.70A (at DC12V input)	DC 10V~26.4V, Standard 0.64A / Max 0.70A (at DC12V input)
Lens mount	M52 mount	
Flange back	46.5mm Tolerance : 0 ~ -0.05mm	
Operating temperature/humidity	-5°C ~ +45°C / 20% ~ 80% (No condensing)	
Storage temperature/humidity	-25°C ~ +60°C / 20% ~ 80% (No condensing)	
Dimensions (W×H×D)	95mm × 95mm × 95 mm (excluding protrusion and lens mount)	
Weight	793g	

● Specifications are subject to change without prior notice.

Dimensions



BlueVision Co., Ltd.

3-17-2 Shin-Yokohama, Kohoku-ku
Yokohama-shi, Kanagawa 222-0033 Japan
TEL: +81-(0)45-471-4595 / FAX: +81-(0)45-471-4598
URL: <https://www.bluevision.jp> / Email: sales@bluevision.jp

