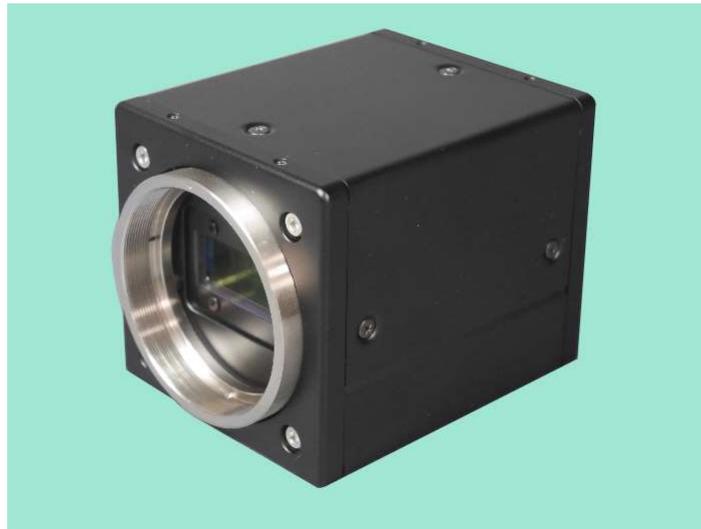


NEW

BVC5410 3CMOS 4K RGB Line Scan Camera

BVC5410 equips newly developed prism optics for line sensors in lightweight and compact body, and uses newly developed three 4K high-speed CMOS line sensors to capture R, G and B wavelength simultaneously.



Key features

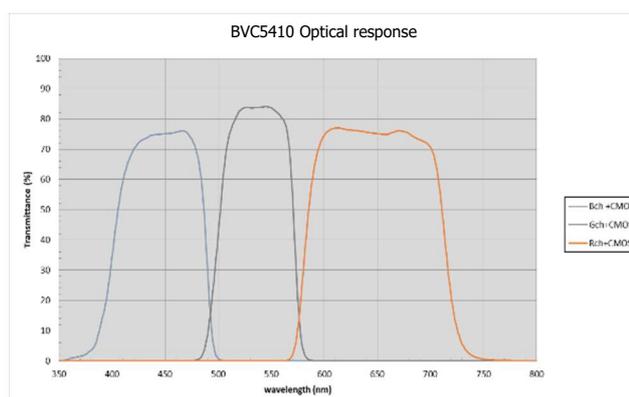
- ◆ Newly developed RGB Dichroic prism for line scan camera
- ◆ Newly developed three CMOS, 4096 pixels, 7 μ m square pixel sensors to be used
- ◆ Small size, light in weight, compact body design
- ◆ Pixel clock cycle of 80MHz/40MHz and line rate of maximum 34.602kHz
- ◆ Variable electronic shutter from 1.475 μ s to 100ms in 0.025 μ s unit
- ◆ Image output through 4K full resolution mode
- ◆ Camera Link Base configuration (8bit) and Medium configuration (8/10/12 bit)
- ◆ Gain setting from x0.32 to x20.17
- ◆ Internal or External trigger for synchronization
- ◆ Various compensation functions are installed (see back page)
- ◆ Three electronic shutter modes (No Shutter mode, Shutter Select mode, Pulse width)
- ◆ Communication interface by Camera Link, Baud rate of 115200bps
- ◆ Field update function
- ◆ Camera Control Tool is available

Specifications

	BVC5410
Optical system	RGB dichroic prism
Image sensor	4096 pixels, 7 μ m square pixel, CMOS line sensor \times 3
Effective image length	28.672mm
Synchronization	Internal / External trigger
Camera Link Pixel clock	80MHz / 40MHz selectable
Line rate/ Line frequency	28.90 μ s / 34.602kHz (2tap)
Image output	Camera Link, Base configuration 8bit \times 3, Medium configuration 10/12bit \times 3 & 8bit \times 3 (2tap)
Standard illumination	2000 lx (7800K, Gain= \times 1, Exposure Time=1ms, Lens F2.8, 100% output)
S/N	More than 52dB (8bit gradation)
Line rate variable range	28.90 μ s \sim 100ms
Electronic shutter	Variable range 1.475 μ s \sim 100ms in 0.025 μ s unit
Gain	\times 0.32 \sim \times 20.17 (0dB= \times 1 : setting value = 1600)
Black level	0LSB \sim 127LSB
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/Color shading compensation, Lens aberration compensation
Communication interface	Camera Link EIA644, Baud rate 115200bps
Lens mount	M52 mount / F mount
Input voltage /Current consumption	DC 10V \sim 26.4V, Typical 0.82A / Max. 0.95A (in case of DC12V input)
Operating temperature/humidity	-5 $^{\circ}$ C \sim +45 $^{\circ}$ C / 20% \sim 80% (non-condensing) Note: Internal temperature sensor of the camera must be 90 $^{\circ}$ C or less when the camera is operating.
Storage temperature/humidity	-25 $^{\circ}$ C \sim +60 $^{\circ}$ C / 20% \sim 80% (non-condensing)
Dimensions (W \times H \times D)	70 \times 70 \times 85mm (excluding protrusion)
Weight	580g

Specifications are subject to change without prior notice.

Optical response



Caution

(Operation guarantee temperature)

Please use this camera in the environment which fulfills the following temperature condition.
Internal temperature sensor of this camera must be 90 $^{\circ}$ C or less when the camera is operating.
 Please consider measures for heat radiation in accordance with your installation status if the temperature exceeds the above condition.

BlueVision Co., Ltd.

3-17-2 Shin-Yokohama, Kohoku-ku, Yokohama

Kanagawa, 222-0033 Japan

TEL: 045-471-4595 FAX: 045-471-4598

URL: www.bluevision.jp / Contact: sales@bluevision.jp

