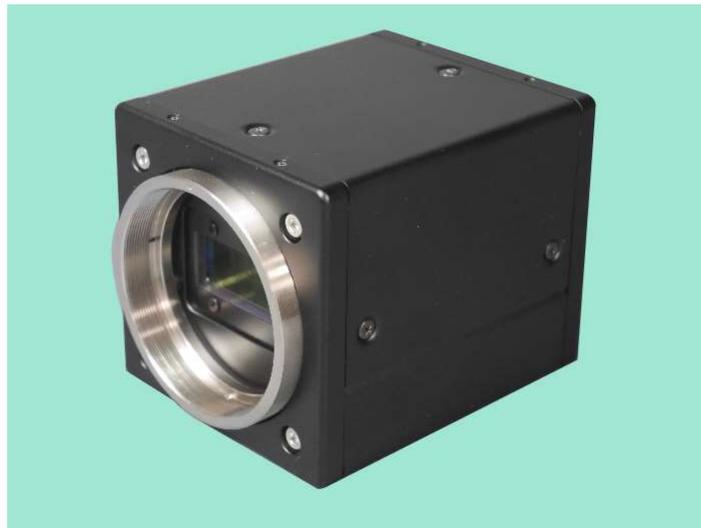


**NEW**

## **BVC5210 3CMOS 2K RGB Line Scan Camera**

**BVC5210 equips newly developed prism optics for line sensors in lightweight and compact body, and uses newly developed three 2K 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, 2048 pixels, 14 $\mu$ 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 64.308kHz
- ◆ Variable electronic shutter from 1.475 $\mu$ s to 100ms in 0.025 $\mu$ s unit
- ◆ Image output through 2K 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

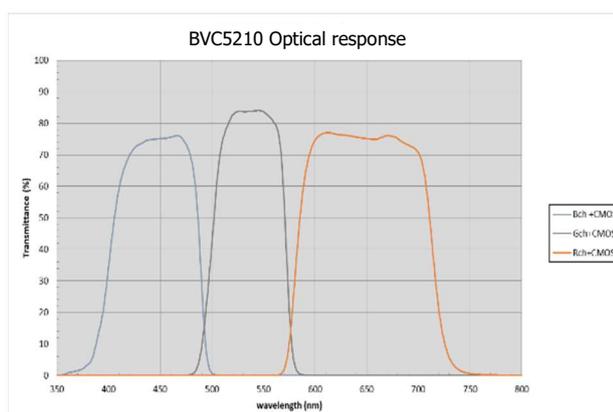
**BlueVision Co., Ltd.**

## Specifications

	BVC5210
Optical system	RGB dichroic prism
Image sensor	2048 pixels, 14μm square pixel, CMOS line sensor × 3
Effective image length	28.672mm
Synchronization	Internal / External trigger
Camera Link Pixel clock	80MHz / 40MHz selectable
Line rate / Line frequency	15.38μs / 64.308kHz (Internal, Full resolution)
Image output	Camera Link, Base configuration 8bit × 3, Medium configuration 10/12bit × 3 & 8bit×3 (2tap)
Standard illumination	2000 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
Electronic shutter	Variable range 1.475μs ~ 100ms in 0.025μs unit
Gain	x0.32~x20.17 (0dB=x1 : setting value = 1600)
Black level	0LSB ~ 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~26.4V, Typical 0.82A / Max. 0.95A (in case of DC12V input)
Operating temperature/humidity	-5°C ~ +45°C / 20%~80% (non-condensing) Note: Internal temperature sensor of the camera must be 90°C or less when the camera is operating.
Storage temperature/humidity	-25°C ~ +60°C / 20%~80% (non-condensing)
Dimensions (W×H×D)	70 × 70 × 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°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.

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