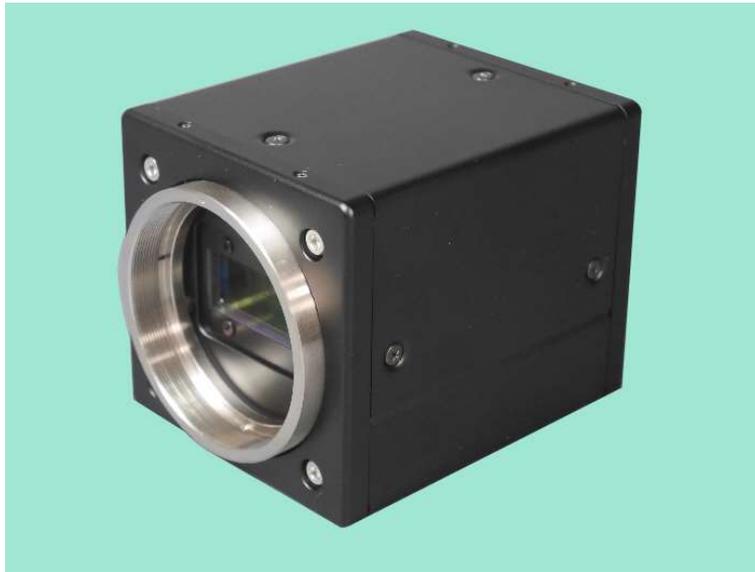


BVC5204 3CMOS 2K RGB Line Scan Camera

BVC5204 equips newly developed prism optics for line sensors in lightweight and compact body and uses three 2K CMOS line sensors to capture R, G and B wavelength simultaneously.



Key features

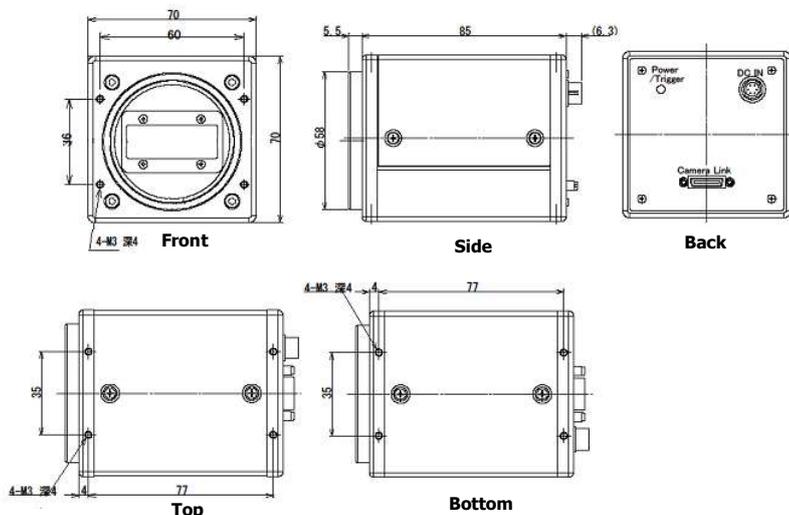
- ◆ Newly developed RGB Dichroic prism for line scan camera
- ◆ Three CMOS, 2048 pixels, 14 μ m square pixel sensors to be used
- ◆ Small size, light in weight, compact body design
- ◆ Pixel clock cycle of 80MHz/40MHz and line rate of 32,050 lines/second
- ◆ Variable electronic shutter from 9.52 μ s to 100ms in 12.5ns unit
- ◆ Image output through 2K full resolution mode, Binning 1K mode or Window 1K mode can be selected
- ◆ Camera Link Base configuration, 8bit \times 3 output
- ◆ Gain setting from -3dB to +12dB
- ◆ 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

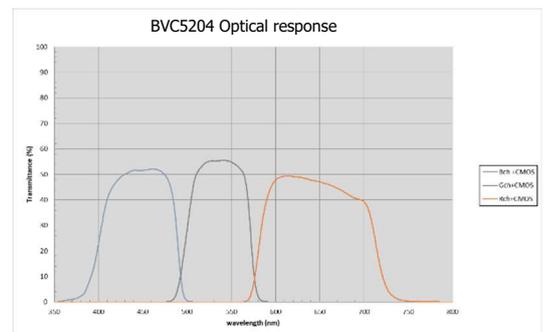
BVC5204	
Optical system	RGB Dichroic prism
Image sensor	2048 pixels, 14μm square pixel, CMOS line sensor × 3
Effective image length	28.672 mm
Synchronization	Internal / External trigger
Camera Link Pixel clock cycle	80MHz / 40MHz selectable
Line rate / Line frequency	31.2μs / 32.05 kHz (Internal, Full resolution)
Image output	2K full resolution mode / 2 pixels binning 1K mode / Window 1K mode selectable Camera Link, Base configuration, 8bit ×3 output
Standard illumination	3500lx (Color temp. 7800K equivalent, Gain Low, Shutter OFF, F2.8, Line rate 270μs, 100% video)
S/N	8bit gradation (S/N: more than 48dB)
Line rate variable range	31.2μs ~ 100ms in 12.5ns unit
Electronic shutter	Variable range 9.52μs ~ 100ms in 12.5ns unit
Gain	R/G/B -3 dB ~ +12dB
Black level	R/G/B 0LSB ~ 31LSB
Trigger input	Camera Link LVDS (CC1)
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 (ON/OFF)
Communication interface	Camera Link EIA644, Baud rate 115200bps
Lens mount	M52 mount / F mount(option)
Input voltage / Current consumption	DC 12V~24V, Typical 0.42A / Max. 0.5A (in case of DC12V input)
Operating Temp. / Humidity	-5°C~+45°C / 20%~80% (non-condensing)
Storage Temp. / Humidity	-25°C~+60°C / 20%~80% (non-condensing)
Dimensions (W×H×D)	70 × 70 × 85mm (excluding protrusion)
Weight	570g

Specifications are subject to change without prior notice.

Dimensions



Optical response



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