



## **BVC8350LC 5M RGB CMOS Prism Area Scan Camera**

**BVC8350LC is 3CMOS “RGB” area scan camera which equips our original designed “3 spectroscopic prism” and 1/ 1.8inch, 5megapixel global shutter CMOS area sensors to cover visible wavelength range for high quality image capturing. Full size readout is 33.85fps. By using binning and partial readout (ROI) mode, faster frame rate up to 231fps for VGA size is accomplished. C mount and Camera Link interface are featured. (GigE I/F is under development)**



### **Key Features**

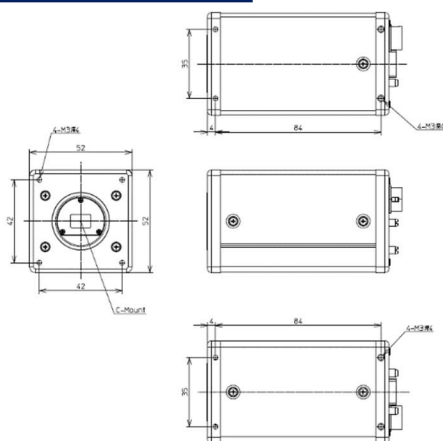
- ◆ Newly developed prism optics
- ◆ Fastest-class prismatic RGB camera at 5 megapixels
- ◆ 3 x 2448(H) x 2048(V) pixels, 2.74 $\mu$ m size, Global shutter CMOS are used
- ◆ Full resolution readout (33.85fps), binning mode (129fps)
- ◆ Small size and light weight, Compact enclosure
- ◆ Precise shutter setting of 1 $\mu$ sec unit (10 $\mu$ s ~ “frame rate-603 $\mu$ s”)
- ◆ Gain adjustment from 0dB to 24dB
- ◆ Partial scan readout (ROI) is available for faster capturing (by using binning + ROI, Max. 231fps at VGA size readout)
- ◆ Shading compensation, Image enhancement and LUT
- ◆ Internal mode or external trigger mode
- ◆ Three electronic shutter modes (No Shutter mode, Shutter Select mode, Pulse width)
- ◆ Camera Link Base Configuration (8bit x 3), Medium Configuration (10/12bit x 3)
- ◆ BV camera control tool is available

## Specifications

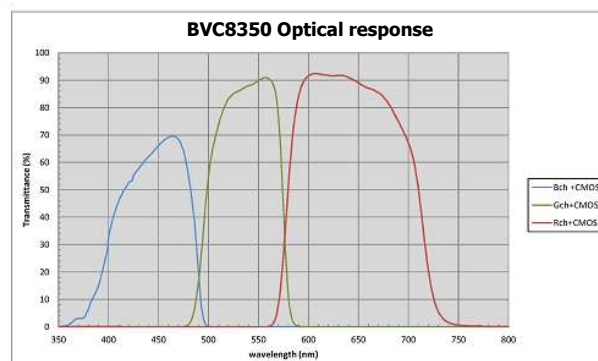
Item & Function	BVC8350LC
Optical system	RGB dichroic prism
Image sensor	1/1.8-inch Global shutter, 2.74μm, Progressive scan CMOS
Sensor effective pixel	2448(H) x 2048(V), Pixel size 2.74μm square pixel
Synchronization	Internal or External trigger
Pixel clock cycle	84MHz
Frame rate	Full pixels mode : 2448(H) x 1840(V) 33.85fps Binning mode : 1224(H) x 920(V) 129fps Binning+Partial mode : 640(H) x 480(V) 231fps
Image output	Camera Link Base config (8bit x 3) Medium config (10/12bit x3)
Standard sensitivity	Full readout: 2000lx (F8.0, Shutter 1/45s, Gain 0dB, G ch)
S/N	8bit gradation (More than 48dB)
Partial scan (ROI)	Full readout: Width 8 ~ 2448 / Offset X: 8 ~ 2440 Height 8 ~ 1840 / Offset Y: 0 ~ 1832
Electronic shutter	Range: 10μs~framerate-603μs, 1μsec unit
Gain	G: 0dB~+24dB, R/B: -6dB~+30dB
Auto white balance	One push, R/B gain adjustment range: -6dB~+30dB
Black level	R/G/B 0LSB ~ 127LSB (corresponds to 8bit)
LUT	Arbitrary setting by customer (LUT) Gamma by control tool 1.0/0.6/0.45
Image enhancement	1)Edge enhancement 2)High Frequency MTF compensation 3)Edge enhancement & High Frequency MTF compensation
Trigger input	Camera Link LVDS (CC1) / GPIO Trigger in
Electronic shutter mode (Exposure Mode)	1. No Shutter mode (Internal trigger) 2. Shutter Select mode (Internal/External trigger) 3. Pulse Width Control (External trigger)
Shading Compensation	ON/OFF function: RGB Flat shading compensation
Communication interface	Camera Link EIA644 Baud rate (bps, selectable) 115200/38400/19200/9600
Lens mount	C mount
IR cut filter	Not built-in (※1)
Power supply	DCIN (Hirose12pin) or PoCL
Input voltage / Current consumption	DC 10V~26.4V, Typical 0.4A / Max. 0.5A (at DC12V input), PoCL Compatible
Operating temperature / humidity	-5°C ~ +45°C / 20%~80% (non-condensing)
Storage temperature / humidity	-25°C ~ +60°C / 20%~80% (non-condensing)
Dimensions (W x H x D)	52 x 52 x 92 mm (excluding protrusion)
Weight	295g

(※1) As this camera is designed based on LED illumination, if Halogen lamp or etc. are used, it is recommended to use IR cut filter.

## Dimensions



## Optical Response



Specifications are subject to change without prior notice.

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