

## **BVC6100LM 4CMOS 4K RGB/NIR Line Scan Camera**

**BVC6100LM is 4CMOS prism spectroscopic color line scan camera using newly developed prism to cover both RGB and NIR wavelength with M52 mount.**



### **Features**

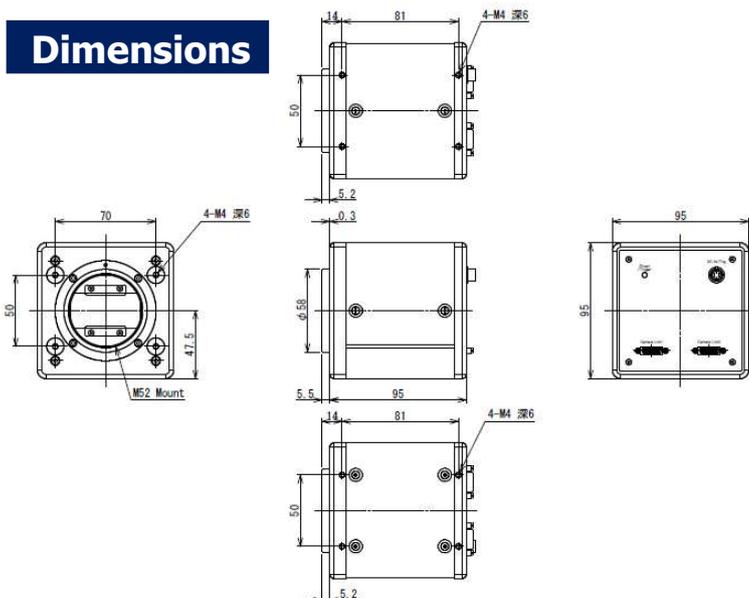
- ◆ Newly designed prism for 4 line scan sensors  
(Selecting 4 different arbitrary wavelengths between 400nm~1000nm is possible by utilizing filter bonding technology, as a customized option.)
- ◆ CMOS sensors -- 4096pixels, 7 $\mu$ m square pixel x 4
- ◆ Compact size, Light weight
- ◆ Pixel clock 80MHz, Line rate 18034 lines/second
- ◆ Variable shutter speed setting for Electric shutter (9.52 $\mu$ s~100ms by 1 $\mu$ s step)
- ◆ Image out 4K and 2K (binning mode), Camera Link medium configuration 8bit x 4
- ◆ Gain level setting -3dB~+12dB
- ◆ Internal/ External trigger
- ◆ Various compensation functions are installed (see back page)
- ◆ 3 operation modes (No Shutter mode, Shutter Select mode, Pulse width trigger)
- ◆ Camera Link, Baud rate 115200bps
- ◆ Field update (Remote update) function
- ◆ Original camera control tool is bundled

## Specifications

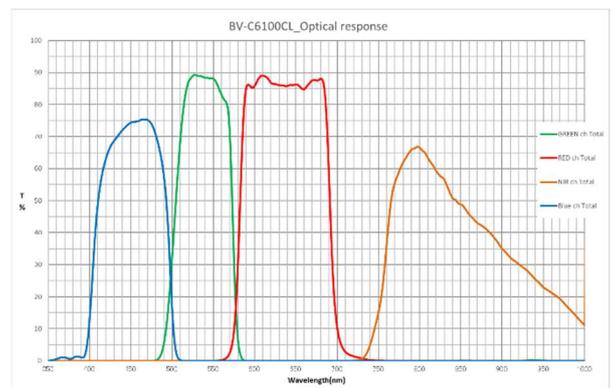
Functions	BVC6100LM
Optical structure	4 sensors prism (400nm~1000nm)
Image sensor	CMOS line sensor 4096 pixels, 7μm square, CMOS x 4
Effective capture length	28.672mm
Synchronization	Internal / External trigger
Pixel clock frequency	80MHz
Line rate / Line frequency	55.45μs / 18.03kHz (Internal, Full resolution)
Image output	Full resolution 4K mode, 2pixels binning 2K mode selectable Camera Link, Midium configuration, 8bit x4
Standard Illuminance	3500lx (Color temperature 7800K, Gain-low, Shutter-off, F2.0)
S/N	More than 48dB (by 8bit gradation)
Line rate (Variable)	55.45μs ~ 100ms (by 12.5ns step)
Electric shutter (Variable)	9.52μs ~ 100ms (by 1μs step)
Gain	R/G/B/NIR - 3 dB ~ +12dB
Black level	R/G/B/NIR 0LSB ~ 31LSB
Trigger input	Camera Link LVDS (CC1)
Operation mode	1. No Shutter mode (Internal/External trigger) 2. Shutter Select mode (Internal/External trigger) 3. Pulse Width Control (External trigger)
Compensation	PRNU, DSNU, Flat/Color shading compensation, Lens aberration compensation (ON/OFF)
Communication Interface	Camera Link EIA644, 115200bps
Lens mount	M52
Input voltage / Current consumption	DC 12V~24V, Std- TBD / Max- TBD
Operation temperature / Humidity	-5°C ~ +45°C / 20%~80% (No condensing)
Storage temperature / Humidity	-25°C ~ +60°C / 20%~80% (No condensing)
Dimensions (W x H x D)	95 x 95 x 95 mm
Weight	840g

\* Spec data maybe updated for goods improvement.

## Dimensions



## Optical Response



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