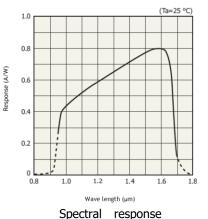


BV-C2903 SWIR (Short Wave Infrared) QVGA Camera

BV-C2903 is SWIR (Short Wave Infrared) camera using one InGaAs QVGA sensor having the sensitivity from 950nm to 1700nm.



The used sensor is QVGA resolution, 20 micron pixel size and has the sensitivity from 950nm to 1700nm. The interface is Camera Link or Gigabit Ethernet (1000BASE-T). Lens mount is conventional C mount and lenses of more than 2/3-inch format should be used. Bluevision SWIR series lenses, 20mm, 24mm, 28mm, 35mm, 50mm and 105mm C mount type are available.



Specifications BV-C2903-CL BV-C2903-GE 2 step Peltier cooling InGaAs sensor x 1 Image sensor Effective pixel: 320(H) x 256(V), Pixel size: 20µm x 20µm Effective image size: 6.4 mm x 5.12 mm 950nm ~1700nm Wave length 1μV/e-Conversion efficiency Synchronization Internal / External trigger Pixel clock interval Exposure time =1 clock (1µsec): 226 fps (maximum) Frame rate S/N 55dB Video output 8/10/12/14-bit Electronic shutter Global shutter system 0dB ∼ +12dB Gain Black level 0LSB ~ 127LSB (at 10-bit output) Blemish compensation Built in circuit Flat shading compensation ON/OFF Shading compensation PRNU Compensate non uniformity of luminance level between pixels Compensate non uniformity of dark level between pixels DSNU Gigabit Ethernet (1000BASE-T) Communication interface Camera Link (Base configuration) SDK-TransFlyer(Aval Data) is included C mount (Applicable C mount is 2/3 inch type or larger) Lens mount RoHS, CE Regulation Power $DC + 12V \pm V$, TBD Operation Temperature/humidity 0° to $+45^{\circ}$ / 20 to 80% (Non-condensing) -15°C to +65°C/ 20 to 80% (Non-condensing) Storage Temperature/Humidity $58(W) \times 58(H) \times 95(D) \text{ mm (excluding protrusion)}$ Dimensions (WxHxD) 560 a Weiaht

- Specifications are subject to change without prior notice
- This product is in the scope of Export Trade Control Order and required Export license.
- This product is developed jointly with Aval Data.

Optional Unit

■ BVA-AC06P AC Power adaptor



BV-AC06P is an AC power adaptor for BV-C2903.

Input: AC100V to AC240V, 5oHz/60Hz

Output: DC12V \pm 3%, 1A

Weight: 120 g

■ SWIR lenses



This is for SWIR C mount lens for BV-C2903. 20mm, 24mm, 28mm, 35mm, 50mm and 105 mm are available.

Applicable image size: 15mm (H)

■ BVA-TB03 Tripod base



This is a tripod base and used when BV-C2903 is attached to a tripod.
(2 screws are used)

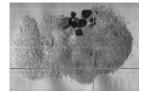
Sample images

Images on the right side are tea and green tea including foreign materials taken by visible camera and BV-C2903.

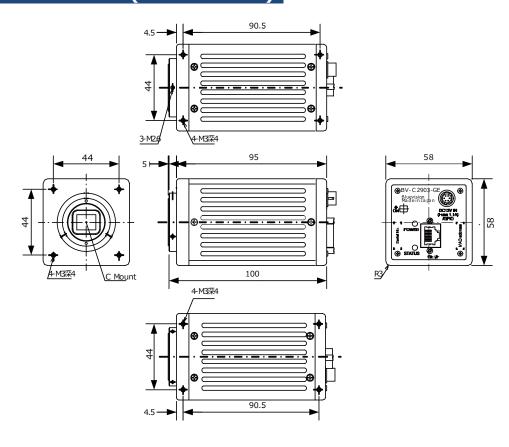
Visible light



SWIR light



Outlook Dimensions (BV-C2903-GE)



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