

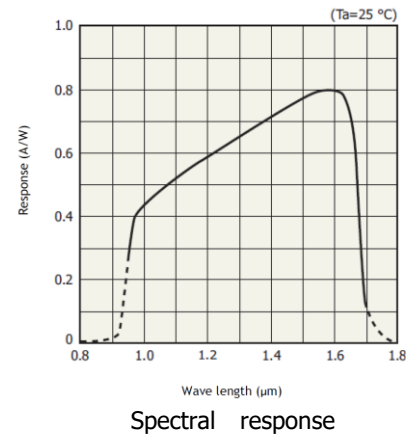


## BV-C2900 SWIR (Short Wave Infrared) VGA Camera

BV-C2900 is SWIR (Short Wave Infrared) camera using one InGaAs VGA sensor having the sensitivity from 950nm to 1700nm.



The used sensor is VGA 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 1-inch or more format should be used. Bluevision SWIR series lenses, 20mm, 24mm, 28mm, 35mm, 50mm and 105mm lenses C mount type are available.



Specifications	BV-C2900-CL	BV-C2900-GE
Image sensor	G12242-0909W 2 steps Peltier cooling InGaAs sensor Effective pixel: 640(H) x 512(V), Pixel size: 20μm x 20μm Effective image size: 12.8mm x 10.24mm	
Wave length	950nm ~1700nm	
Conversion efficiency	1μV/e-	
Synchronization	Internal/External Trigger	
Pixel clock interval	25MHz Data rate:6.25MHz	
Frame rate	4 ports readout Exposure time =1 clock (1μsec): 62fps Exposure time =16msec: 31fps	
S/N	55dB	
Video output	8/10/12/14-bit	
Electronic shutter	Global shutter system	
Gain	0dB ~ +12dB	
Black level	0LSB ~ 127LSB (at 10-bit output)	
Blemish compensation	Built in circuit. Pixel defect specification is a cluster defect of up to 15 pixels	
Shading compensation	Flat shading compensation ON/OFF	
PRNU	Compensate non uniformity of luminance level between pixels	
DSNU	Compensate non uniformity of dark level between pixels	
Communication interface	Camera Link (Base configuration)	Gigabit Ethernet (1000BASE-T)
Lens mount	C mount (Applicable C mount is 1 inch or more)	
Regulation	RoHS, CE	
Power	DC +12V ± 10%, Less 7W	
Operation Temperature/Humidity	-5°C to +45°C/ 20 to 80% (Non-condensing)	
Dimensions (WxHxD)	58(W) x 58(H) x 120(D) mm (excluding protrusion)	
Weight	675 g	665 g
Software	General purapose RS-232C tool	SDK-TransFlyer (Aval Data)

- 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 supply



BVA-AC06P is AC power adaptor dedicated to BV-C2900.

Input: AC100V to AC240V, 50Hz/60Hz

Output: DC12V  $\pm$  3%, 1A

Weight: 120 g

### BVA-TB03 Tripod Base



BVA-TB03 is a tripod base to install BV-C2900 on tripod.

### SWIR Lens



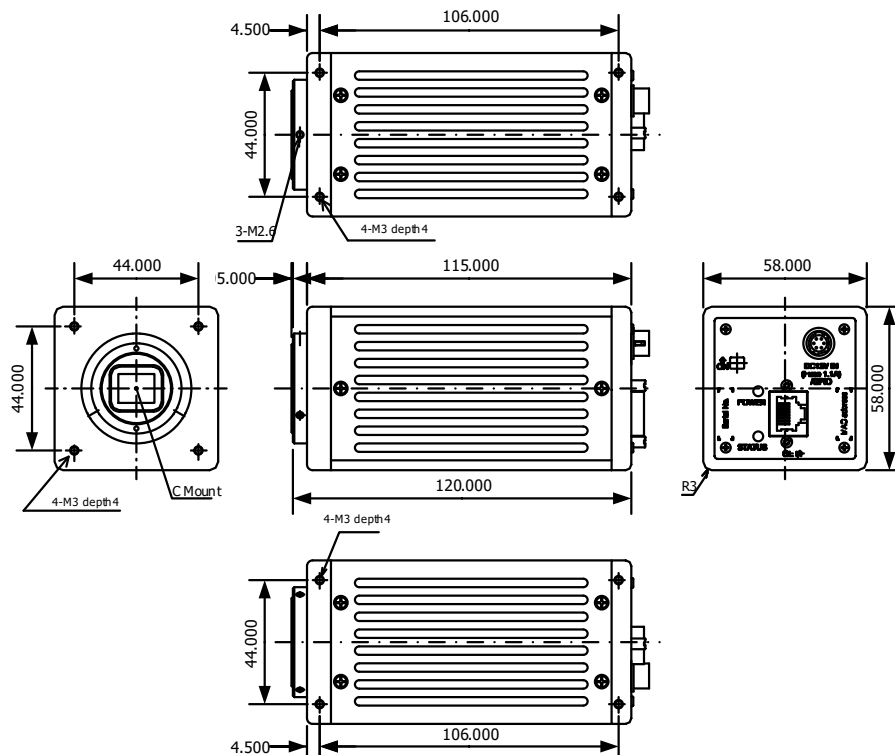
For BV-C2900, 6 SWIR lenses are available. They are 20mm, 24mm, 28mm, 35mm, 50mm and 105mm with C mount.

Image size: 15mm (H)

Iris: F2.8 to F22

Photo: BV-L1050-SWIR-C(50mm)

### Outlook (BV-C2900-GE)



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