

# Lens for Prism Optics Based SWIR Cameras

These lens series are developed specially for prism optics based SWIR camera and correspond to the resolution of pixel size 12 μm and the image size of 15mm. As a line up, 20mm, 24mm,28mm, 35mm, 50mm and 105mm are available.

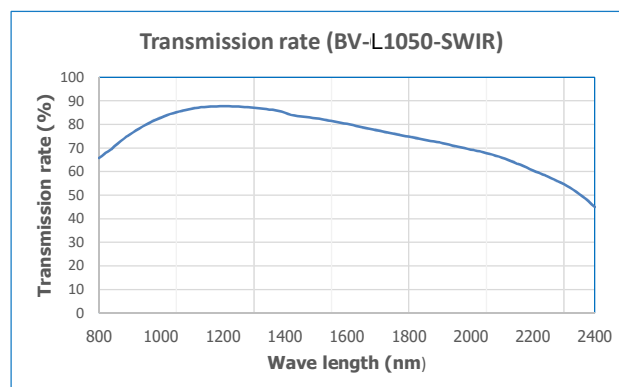


## Specifications

Model	BV-L1020 -SWIR	BV-L1024 -SWIR	BV-L1028 -SWIR	BV-L1035 -SWIR	BV-L1050 -SWIR	BV-L1105 -SWIR
Image size	15mm					
Flange back	46.5mm (in air)					
Focal length	f=20mm	f=24mm	f=28mm	f=35mm	f=50mm	f=105mm
Iris range	F2.8 to F22					
MOD	0.3m (from the front of lens)					
Angle of view	35.79° (Image height:7.5 mm, WD 2m)	31.94° (Image height :7.5 mm, WD 2m)	27.61° (Image height :7.5 mm, WD 2m)	23.11° (Image height :7.5 mm, WD 2m)	16.04° (Image height :7.5 mm, WD 2m)	7.92° (Image height :7.5 mm, WD 2m)
Wavelength	900nm ~ 1800nm					
Exit pupil	-348.54mm (From image focus point, WD 2m)	-391.68mm (From image focus point, WD 2m)	-435.7mm (From image focus point, WD 2m)	-416.14mm (From image focus point, WD 2m)	-300.0mm (From image focus point, WD 2m)	-186.69mm (From image focus point, WD 2m)
Pixel Size	Applicable pixel size: 12μm					
Filter Φ	82mm/P0.75	67mm/P0.75	72mm/P0.75	62mm/P0.75	52mm/P0.75	72mm/P0.75
Mount	M52 mount					
Weight	660g	535g	550g	530g	315g	1010g

Note: Fixing for iris and focus by knobs of all the lenses it should be tightened by less than 3cN·m torque.

## Spectral Response



## BV Lens series — C mount Lens

C mount type in BV lens series is converted from current BV M52 mount lens series to C mount using conversion lens and there are two types according to their applications.

### BV-LXXXX-SWIR-C series



Photo is BV-L1050-SWIR-C

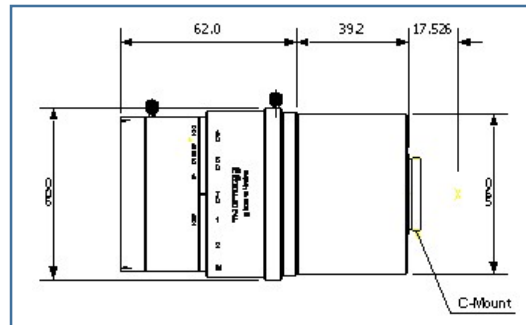
These are C-mount lens for prism spectroscopic SWIR cameras. Lineup is 6 types including 20mm, 24mm, 28mm, 35mm, 50mm and 105mm.

Image size: 15mm

Iris range: F2.8 to F22

Wavelength bandwidth: 900nm ~ 1800nm

Applicable cameras: BV-C29XX series and BV-C31XX series



Dimensions of BV-L1050-SWIR-C

### BV-LXXXX-C series



Photo is BV-L1050-C

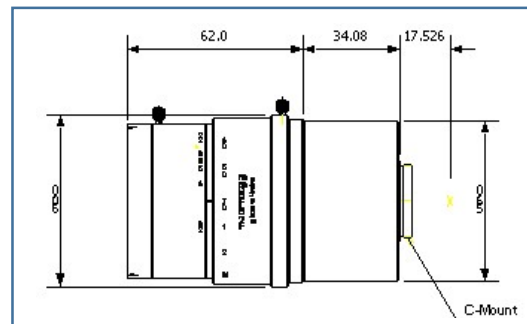
These are C-mount lens for prism spectroscopic visible light cameras. Lineup is 6 types including 20mm, 24mm, 28mm, 35mm, 50mm and 105mm.

Image size: 15mm

Iris range: F2.8 ~ F22

Wave length range: 400nm ~ 900nm

Applicable cameras: BV-C8XXX series



Dimensions of BV-L1050-C

\* Specifications are subject to change without prior notice.

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