



# Lens for Prism Optics Based SWIR Line Scan camera

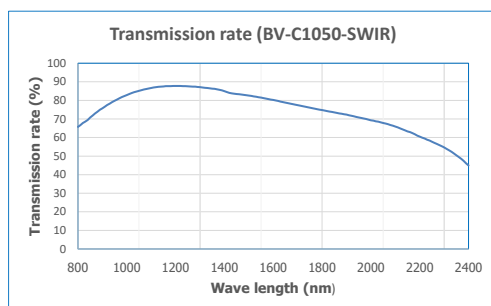
These lens series are developed specially for prism optics based SWIR line scan camera and correspond to the resolution of pixel size 25 μm and the image size of 15mm. As a line up, 20mm, 24mm, 28mm, 35mm, 50mm and 105mm are available.



## Specifications

| Model         | BV-L1020-SWIR                               | BV-L1024-SWIR                                 | BV-L1028-SWIR                                | BV-L1035-SWIR                                 | BV-L1050-SWIR                                | BV-L1105-SWIR                                |
|---------------|---|---|--|---|--|--|
| Image size    | 15 mm                                       |   |  |   |  |  |
| Flange back   | 46.5 mm (in air)                            |   |  |   |  |  |
| Focal length  | f=20 mm                                     | f=24 mm                                       | f=28.0 mm                                    | f=35 mm                                       | f=50 mm                                      | f=105mm                                      |
| Iris range    | F2.8 to F22                                 |   |  |   |  |  |
| MOD           | 0.3m (from the front of lens)               |   |  |   |  |  |
| Angle of view | 35.79°<br>(Image height :5m m, WD 2m)       | 31.94°<br>(Image height :.5m m, WD 2m)        | 27.61°<br>(Image height :.5m m, WD 2m)       | 23.11°<br>(Image height :.5m m, WD 2m)        | 16.04°<br>(Image height :.5m m, WD 2m)       | 7.92°<br>(Image height :.5mm , WD 2m)        |
| Wavelength    | 900nm ~ 1800nm                              |   |  |   |  |  |
| Exit pupil    | -348.54mm<br>(From mage focus point, WD 2m) | -391.68 mm<br>(From image focus point, WD 2m) | -435.7 mm<br>(From image focus point, WD 2m) | -416.14 mm<br>(From image focus point, WD 2m) | -300.0 mm<br>(From image focus point, WD 2m) | -186.69mm<br>(From image focus point, WD 2m) |
| Pixel Size    | Applicable pixel size :25 μm                |   |  |   |  |  |
| Filter dia.   | 82mm/P0.75                                  | 67mm/(P0.75                                   | 72mm/P0.75                                   | 62mm/P0.75                                    | 52mm/P0.75                                   | 72mm/P0.75                                   |
| Mount         | M52 mount                                   |   |  |   |  |  |
| Weight        | 660 g                                       | 530 g   | 550 g  | 530 g   | 310 g  | 1010 g                                       |

## Spectral Response



## Close up lens



**BV-CL52SWIR-No10**  
 No.10 (Focal length 100mm)  
 Filter diameter: 52mm  
 Spectral response: 800nm to 2500nm

**BV-CL52SWIR-No5**  
 No. 5 (Focal length: 200mm)  
 Filter diameter: 52mm

Transmission rate: 95% or more  
 : Note: Conversion ring from 52mm to 72mm is available.

## 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-L1020-SWIR-C series

This lens series is C mount type for single sensor type SWIR cameras. Lineup is 6 types including 20mm, 24mm, 28mm, 35mm, 50mm and 105mm.

Image size: 15mm

Iris range: F2.8 to F22

Wavelength band width: 900nm ~ 1800nm

Applicable camera: BV-C2900-CL, BV-C2900-GE, BV-C2905-CL, BV-C2905-GE, BV-C3100C

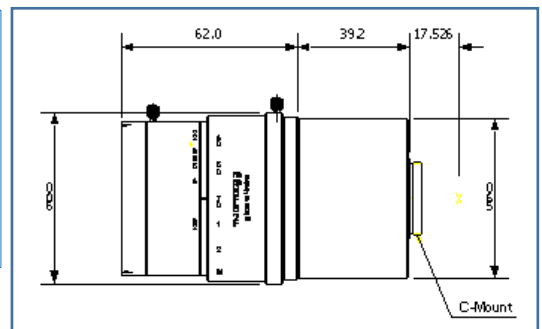
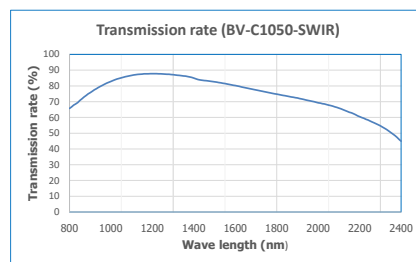


Photo is BV-L1050-SWIR-C

BV-C1050-SWIR-C Dimensions



### BV-L1020-C series

This series is designed for 1/3-inch or 1/2-inch 2 CCD/3CCD C Mount camera and has 6 types of lens, 20mm, 24mm, 28mm, 35mm, 50mm and 105mm.

Image size: 4.8mm (H) for 1/3-inch 2CCD/3CCD camera

6.4MM (H) for 1/2-inch 2CCD/3CCD camera

Iris range: F2.8 ~ F22

Wave length range: 400nm ~ 900nm

Applicable camera: 1/2-inch, 1/3-inch 2CCD or 3CCD C mount Camera

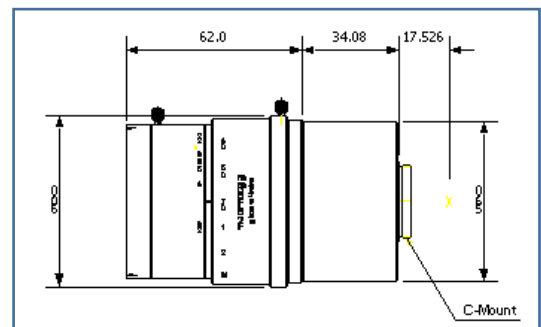


Photo is BV-C1050-C

BV-C1050-C Dimensions

\* Specifications are subject to change without prior notice

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