

# Computar SWIR Objektiv M5018-SW

f=50mm F1.8  
for 2/3 type SWIR (800nm~1700nm) Cameras  
C-Mount

|                                     |         |                       |       |                       |         |                       |      |
|-------------------------------------|---------|-----------------------|-------|-----------------------|---------|-----------------------|------|
| Model No.                           |         | M5018-SW              |       | Effective             | Front   | φ 25.5mm              |      |
| Focal Length                        |         | 50mm                  |       | Lens Aperture         | Rear    | φ 9.6mm               |      |
| Max. Aperture Ratio                 |         | 1:1.8                 |       | Distortion            | 2/3type | -0.3% (γ=5.5)         |      |
| Max. Image Circle                   |         | φ 12.3mm              |       |                       | 1/2type | -0.1% (γ=4.0)         |      |
| Operation Range                     | Iris    | F1.8- F16C            |       | Back Focal Length     |         | 13.6mm                |      |
|                                     | Focus   | 0.6m - Inf.           |       | Flange Back Length    |         | 17.526mm              |      |
| Control                             | Iris    | Manual                |       | Mount                 |         | C-Mount               |      |
|                                     | Focus   | Manual                |       | Filter Size           |         | M30.5 P=0.5mm         |      |
| Object Dimension<br>at M.O.D        | 2/3type | 10.4cm x 7.8cm        |       | Dimensions            |         | φ 33.5mm x 38.2mm     |      |
|                                     | 1/2type | 7.6cm x 5.7cm         |       | Weight                |         | 85g                   |      |
| Angle of View                       | D       | 2/3 type              | 13.0° | 1/2 type              | 9.5°    |                       |      |
|                                     | H       | H8.80mm x V6.60mm     | 10.4° | H6.40mm x V4.80mm     | 7.6°    |                       |      |
|                                     | V       |                       | 7.8°  |                       | 5.7°    |                       |      |
| Angle of View<br>( InGaAs Detector) | D       | 640 x 512             | 14.5° | 320 x 256             | 12.1°   | 320 x 256             | 9.7° |
|                                     | H       | (Pixel Pitch : 15 μm) | 11.3° | (Pixel Pitch : 25 μm) | 9.5°    | (Pixel Pitch : 20 μm) | 7.6° |
|                                     | V       | H9.60mm x V7.68mm     | 9.1°  | H8.00mm x V6.40mm     | 7.6°    | H6.40mm x V5.12mm     | 6.1° |
| Operating Temperature               |         | -10°C - +50°C         |       |                       |         |                       |      |

M.O.D : Minimum Object Distance

## Dimensions

