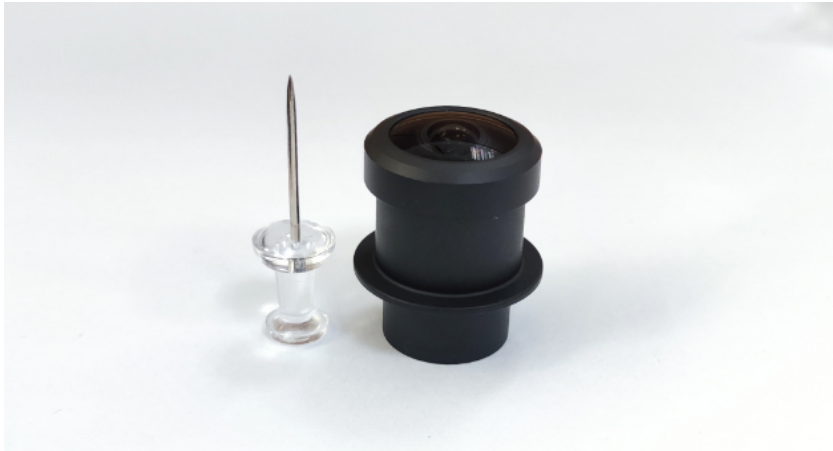


Low F/#, HDR lens



Description

The DSL678 is an all-glass lens designed for 1/1.8" image formats. The low-ghost HDR design, and big f/#, combined with the all-glass construction make this lens ideally- suited for outdoor applications.

Key Features

- HDR-Optimized for low flare and ghost
- All glass construction for thermal and environmental stability
- Equidistant projection

Optical Specifications

Sunex PN DSL678	
Description	HDR, all glass
Imager Format	1/1.8"
Nominal Imager Resolution	8MP
Focal Length	3.84mm
Relative Aperture (F/#)	1.65
Image Circle	9.25mm
Field of View	124.2° @8.064mm image circle 142.6° @9.25mm image circle
Total Track Length	30.1mm
Distortion(F-theta)	-2.9%@9.25mm
Chief Ray Angle	19.6°@9.25mm image circle
IR cut-off filter	680nm/650nm optional

Applications

- Automotive
- Computer Vision and Robotics
- Machine Vision

Technical drawing of the optical system showing dimensions and components. The drawing includes the following labels and dimensions:

- HP3**: Hyperbolic profile of the first lens.
- Sunex**: Sunex logo on the second lens.
- cover glass**: Label for the third lens.
- Image plane**: Label for the image plane.
- Dimensions**:
 - Overall diameter: $\phi 18.0 \pm 0.1$
 - Distance from HP3 to Sunex: 5.0 ± 0.1
 - Distance from Sunex to the center of the second lens: (3.0)
 - Distance from the center of the second lens to the center of the third lens: $\phi 14.0 \pm 0.1$
 - Distance from the center of the third lens to the image plane: (8.0)
 - Distance from the center of the third lens to the image plane: (1.0)
 - Distance from the center of the third lens to the image plane: (0.9)
 - Distance from the center of the third lens to the image plane: (3.0)
 - Distance from the center of the third lens to the image plane: (0.50)
 - Distance from the center of the third lens to the image plane: (2.80)
 - Distance from the center of the third lens to the image plane: $(TTL\ 30.1)$
 - Distance from the center of the third lens to the image plane: $\phi 11.3 \pm 0.1$
 - Distance from the center of the third lens to the image plane: $M12 \times 0.5-4h$

DSL678E-680-F1.6-HP3 Mechanical Dimensions [mm]:

