

Low F/#, HDR lens



Description

The DSL487 is an all-glass lens designed for 1/1.8" image formats. The low-ghost HDR design, and low f/#, combined with the all-glass construction make this lens ideally- suited for indoor or outdoor applications.

Key Features

- F/1.65
- HDR-Optimized for low flare and ghost
- All glass construction for thermal and environmental stability
- Fovea distortion

Optical Specifications

Sunex PN DSL487	
Description	HDR, all glass
Imager Format	1/1.8"
Nominal Imager Resolution	8MP
Focal Length	6.7mm
Relative Aperture (F/#)	1.65
Image Circle	9.4mm
Field of View	70° @8.064mm image circle 81° @9.25mm image circle
Total Track Length	28mm
Distortion (F-tan theta)	-19% @ 9.25mm
Chief Ray Angle	21.1° @9.25mm image circle
IR cut-off filter	Optional 660nm IR cutoff filter

Applications

- Automotive
- Computer Vision and Robotics
- Machine Vision

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

- Overall length: 28.01 ± 0.50
- Front lens diameter: $\phi 17.00 \pm 0.05$
- Intermediate lens diameter: $\phi 14.20 \begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$
- Image Plane diameter: $\phi 12.90 \begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$
- Cover glass diameter: $\phi 13.00 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
- Mounting hole diameter: $\phi 14.0 \times 0.5 - 4h$
- Distances from the front lens:
 - 4.42 ± 0.30
 - 10.92 ± 0.30
 - 16.22 ± 0.30
- Label (2.20) pointing to the cover glass.