

### 4K, Ultra Low-Light Imaging Lens



### Description

DSL166 is a high-performance lens with ultra-low F/# for superior low-light imaging in Automotive, Autonomous and Security applications. Low-Ghost HDR design provides excellent image quality. The all-glass construction makes it thermally stable and ideally-suited for indoor or outdoor applications in harsh environments.

### Key Features

- F/1.6
- All glass for environmental and thermal stability
- HDR-Optimized for Low flare and ghost
- 4K resolution and extremely low F/# for bright, sharp images.

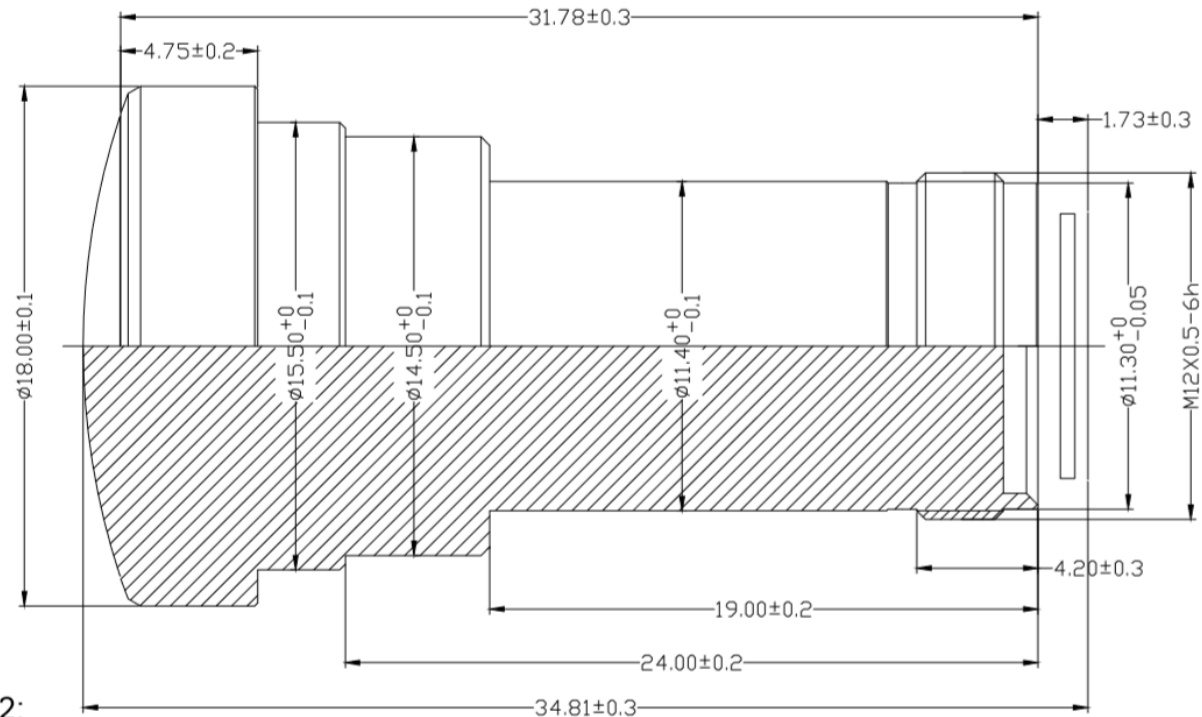
### Optical Specifications

Sunex PN DSL166	
Description	4K Low-Light Imaging Lens
Imager Format	1/1.8"
Nominal Imager Resolution	4k
Focal Length	4.1mm
Relative Aperture (F/#)	1.6
Nominal Image Circle	9.2mm minimum
Field of View	141 degrees at 9.2mm image circle
Total Track Length	34.8 mm
Distortion (F-Theta)	-8.3% at 9.2mm image circle
Chief Ray Angle	15 degrees at 9.2mm image circle
IR cut-off filter	Optional IR cut coating T=50% @ 700 +/- 20nm

### Applications

- Automotive cameras
- Autonomous and Robotic applications
- Security/Surveillance cameras
- Videoconferencing

### DSL166A-NIR-F1.6 and DSL166A-700-F1.6 Mechanical Dimensions [mm]:



Notes:

1. EFL=4.1±0.2;
2. F#=1.6±0.15;
3. Barrel Material: Anodized AL6061;  
Cap Material: Anodized AL6061;