

4K Miniature SuperFisheye™ Lens



Description

The DSL419 is an all-glass, miniature SuperFisheye™ lens designed for 4K sensors with up to 1/2" format size. The SuperFisheye™ design provides a FOV of 180° at design image circle of 4.54mm. The low F-number, compact size and thermal stability make this lens ideal for security and other high-quality indoor/outdoor imaging applications.

Key Features

- SuperFisheye FOV: 180°
- All-Glass Design
- Good low light performance: F/2.0 aperture
- Compact size

Optical Specifications

| Sunex PN DSL419 | |
|---------------------------|---|
| Description | All-Glass SuperFisheye™ |
| Imager Format | Up to 1/2" |
| Nominal Imager Resolution | Up to 14MP |
| Focal Length | 1.6mm |
| Relative Aperture (F/#) | F/2.0 |
| Image Circle | 4.54mm |
| Field of View | 135° at 3.6mm image circle 185° at 4.54mm image circle |
| Total Track Length | 27.8mm |
| Distortion | -10% from F- θ |
| Chief Ray Angle | 11° at 4.5mm image circle, linear |
| IR cut-off filter | Optional 650nm IR cutoff filter |

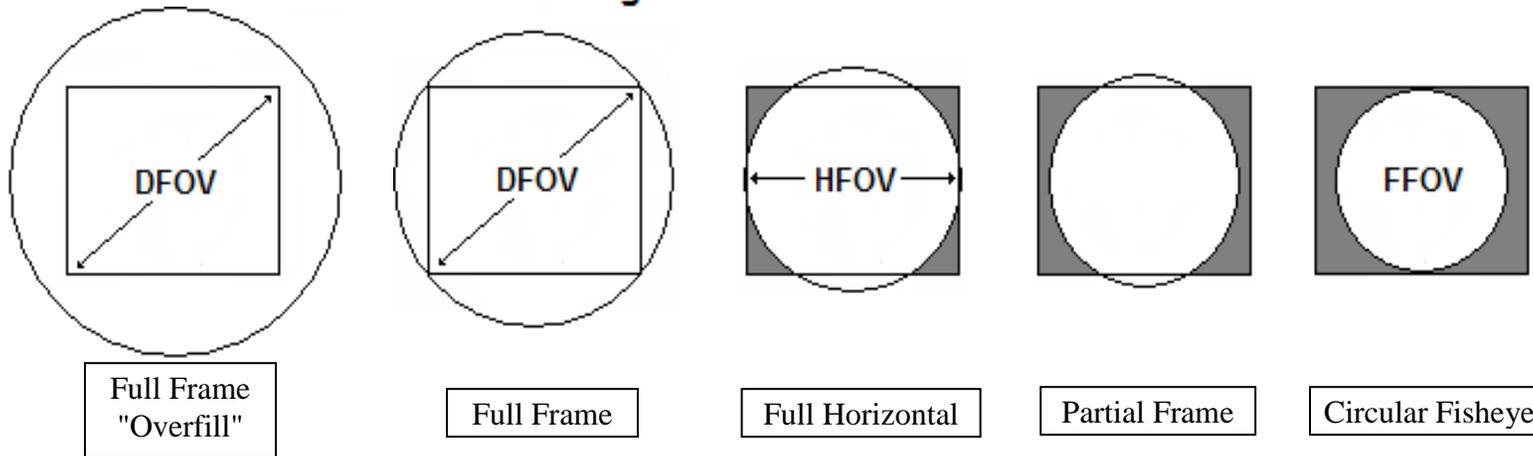
Applications

- Security and Surveillance
- Drones
- Immersive Imaging
- Video Communication
- Consumer Devices and IoT

Excellence in Digital Imaging Optics

Image circle format using a 4:3 aspect ratio imager:

Image Circle vs. Sensor Format



DSL419 on: 1/4" and smaller

~1/4"

~1/3.2"

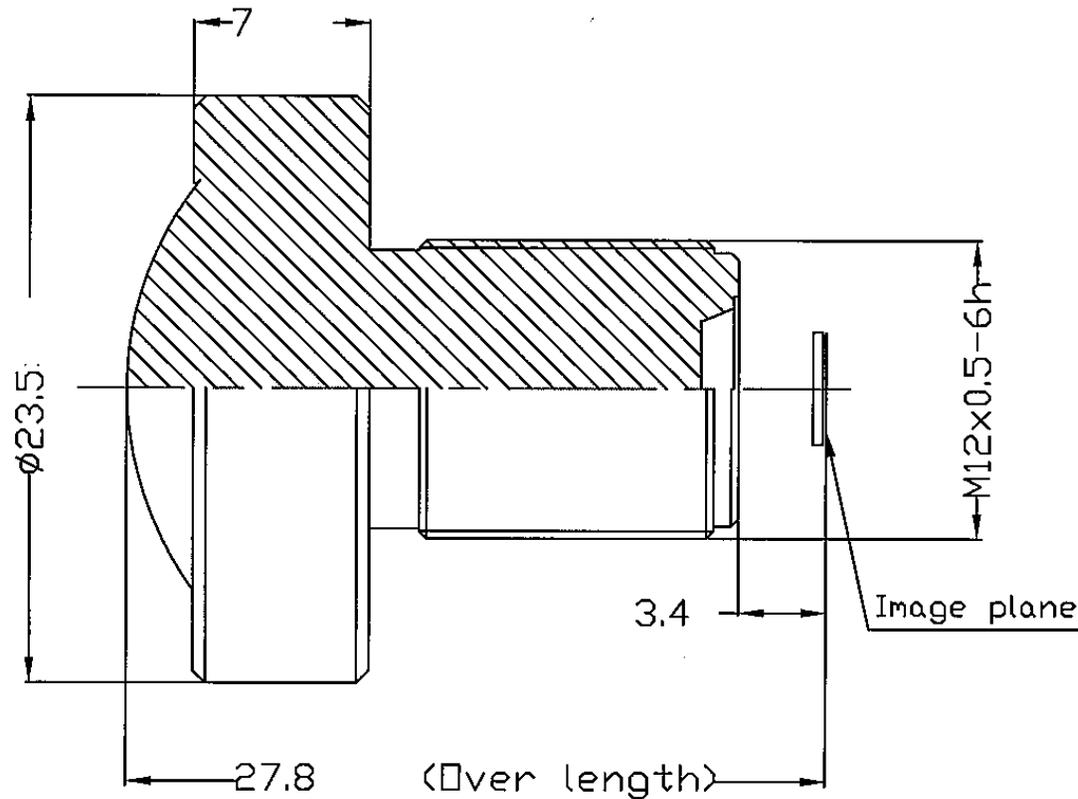
~1/2.5"

1/2.3" or larger

Excellence in Digital Imaging Optics

DSL419B-650-F2.0 and DSL419B-NIR-F2.0 Mechanical Dimensions [mm]:

Note: DSL419B is intended for use with Sunex CMT821, CMT822, CMT103 mounts



SUBJECT TO CHANGE WITHOUT NOTICE

Sunex, Inc.
Telephone: +1 760 597 2966
www.sunex.com