

4K Miniature SuperFisheye™ Lens



Description

The DSL219 lens is a miniature fisheye lens designed for 1/1.8" sensors with 4K resolution. It achieves a field of view of 180 degrees in a compact package. The DSL219 is suitable for automotive, security and surveillance applications.

Key Features

- Maximum field of view (FOV): 180°
- All glass design to optimize thermal stability
- F/2.0 for superior low-light performance

Optical Specifications

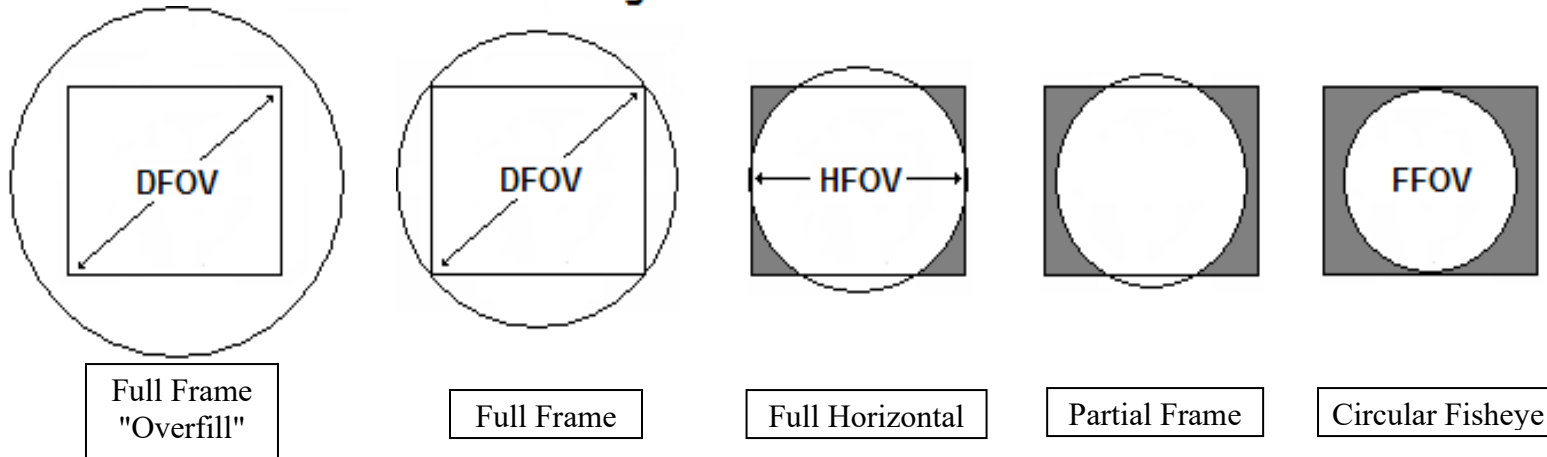
Sunex PN DSL219	
Description	Miniature SuperFisheye™
Imager Format	Up to 1/1.8"
Nominal Imager Resolution	Up to 8 MP
Focal Length	1.8mm
Relative Aperture (F/#)	F/2.0
Image Circle	5.2mm
Field of View	180° at 5.2mm image circle
Total Track Length	27.2mm
Distortion	-7.7% from F- θ
Chief Ray Angle	15.5° at 5.2mm image circle, linear
IR cut-off filter	Optional 650nm IR cutoff coating

Applications

- Security and Surveillance cameras
- Drone cameras
- Immersive Imaging cameras

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

Image Circle vs. Sensor Format



DSL219 on: 1/3.6" and smaller

~1/3.4"

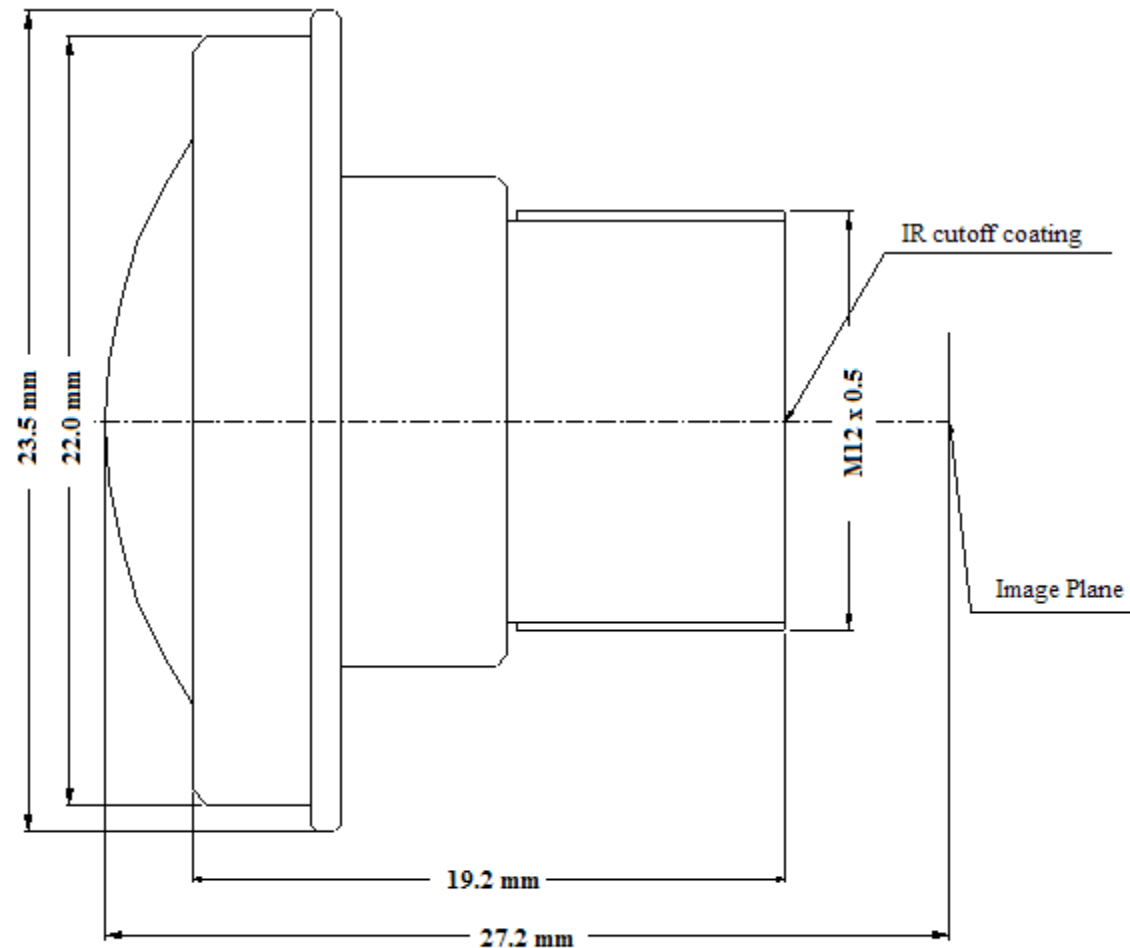
~1/2.8"

~1/2.5"

1/1.8" or larger

DSL219D-650-F2.0 and DSL219D-NIR-F2.0 Mechanical Dimensions [mm]:

Note: DSL219D is intended for use with Sunex CMT821 or CMT822 mounts.



DSL219E-670-F2.0 Mechanical Dimensions [mm]:

Note: DSL219E is intended for use with Sunex CMT821 or CMT822 mounts.

