

### 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	2.0mm
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- $\theta$
Chief Ray Angle	15.5° at 5.2mm image circle, linear
IR cut-off filter	Optional 650nm IR cutoff coating

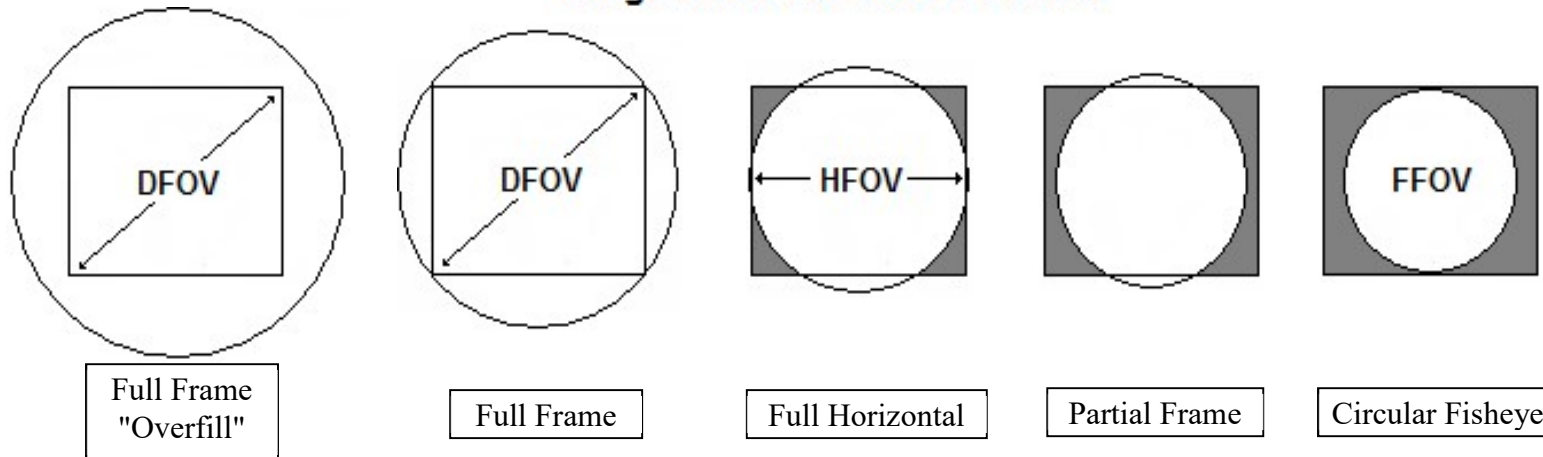
#### Applications

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

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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"*

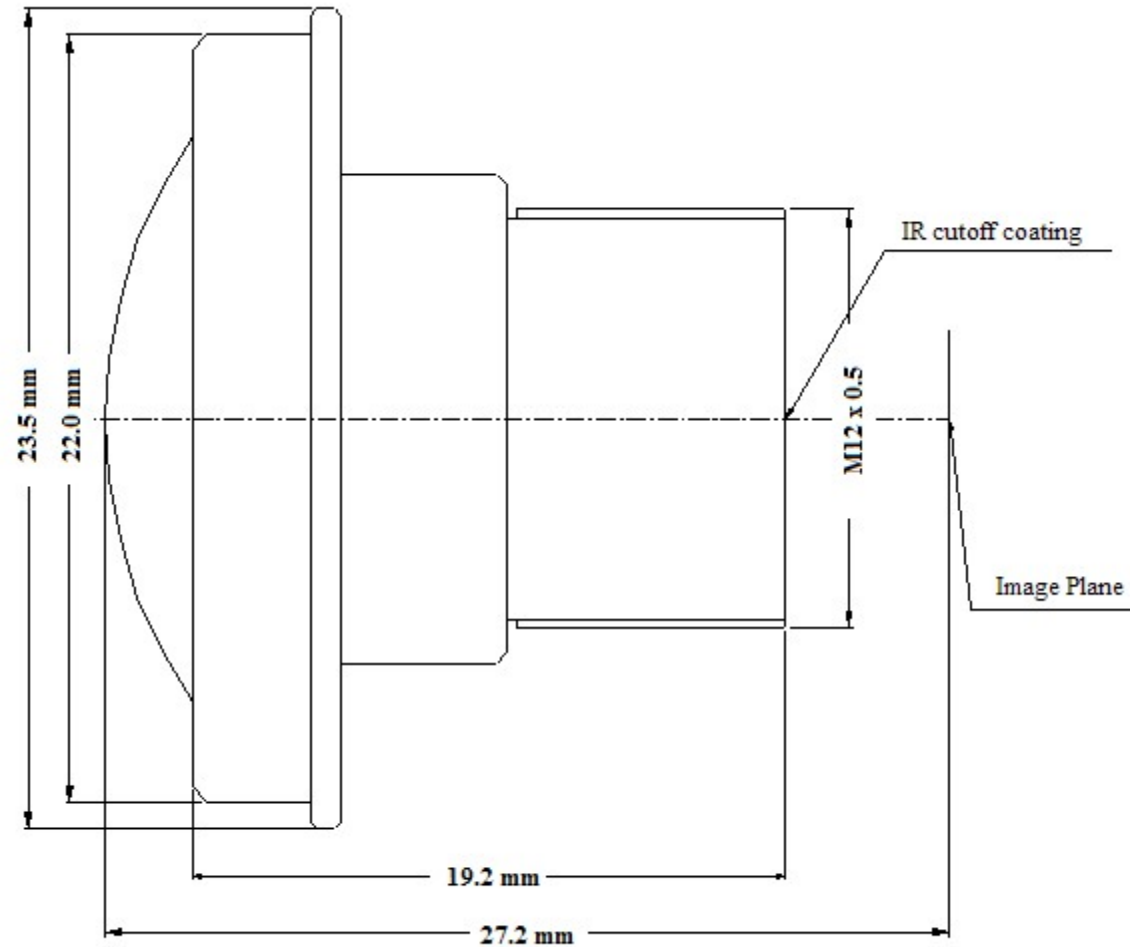
*~1/2.5"*

*1/1.8" or larger*

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

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



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

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

