

High Resolution Miniature SuperFisheye™ Lens



Description

DSL216 lens is a miniature, high-resolution SuperFisheye™ lens designed to give a fisheye image with a horizontal field of view greater than 180 degrees on a 1/3" format sensor making it ideal for security or emerging applications like 360° cameras. Additionally, the DSL216 has an all-glass all-metal design which gives it thermal stability.

Key Features

- Horizontal field of view: 187°
- Suitable for multi-megapixel resolution
- All glass elements to optimize thermal stability

Optical Specifications

Sunex PN DSL216	
Description	Miniature SuperFisheye™
Imager Format	Up to 1/3"
Nominal Imager Resolution	3MP-5MP
Focal Length	1.3mm
Relative Aperture (F/#)	F/2.0
Image Circle	3.6
Field of View	137° at 2.8 mm image circle 187° at 3.6 mm image circle
Total Track Length	18mm
Distortion	-13% from F- θ
Chief Ray Angle	6° at 3.6mm image circle, linear
IR cut-off filter	Optional 670nm cutoff coating

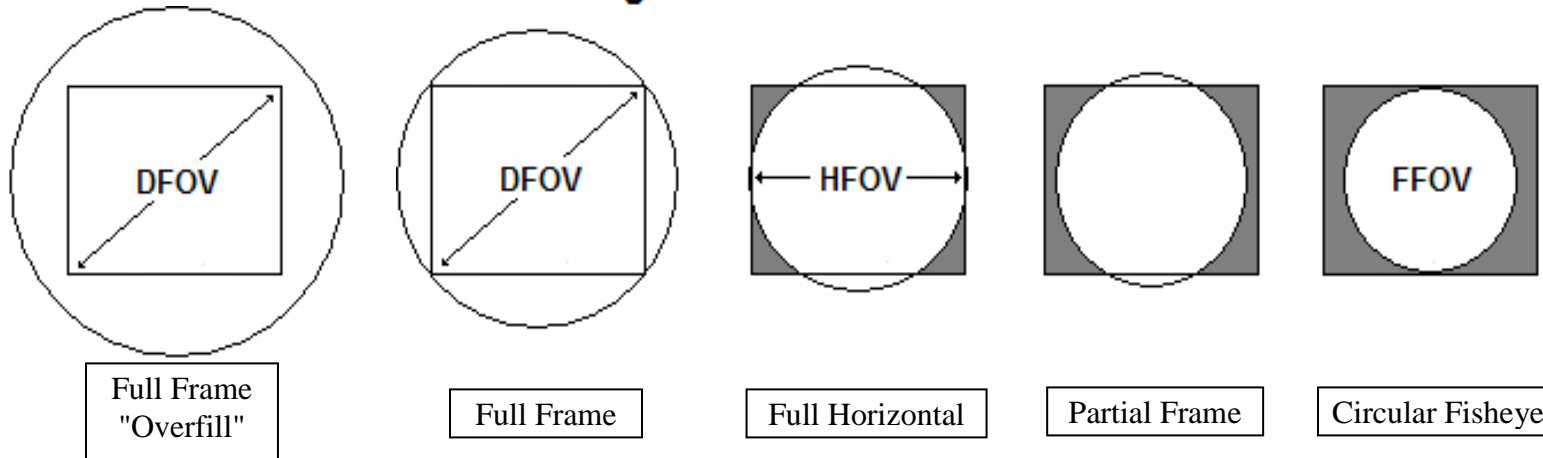
Applications

- Security/Surveillance
- 360° camera / Immersive Media / VR
- IoT cameras
- Automotive Surround View

Excellence in Digital Imaging Optics

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

Image Circle vs. Sensor Format



DSL216 on: 1/5" and smaller

~1/5"

~1/4"

~1/3.2"

1/3" or larger

DSL216A-NIR-F2.0 and DSL216A-670-F2.0 Mechanical Dimensions [mm]:

Note: DSL216A is intended for use with Sunex CMT821

