

HD/HDR Compact SuperFisheye



Description

The DSL189 is a cutting-edge, fully-featured fisheye targeted at demanding HD applications such as indoor/outdoor security, automotive, and other HDR, environmentally challenging applications. The DSL189 is a hybrid lens, designed to be athermal when used with the proper mounting. It also boasts best-in-class HDR performance and environmental ruggedization features.

Key Features

- HD/HDR Performance
- 195deg Full FOV
- Ruggedized and Athermal Hybrid Design

Optical Specifications

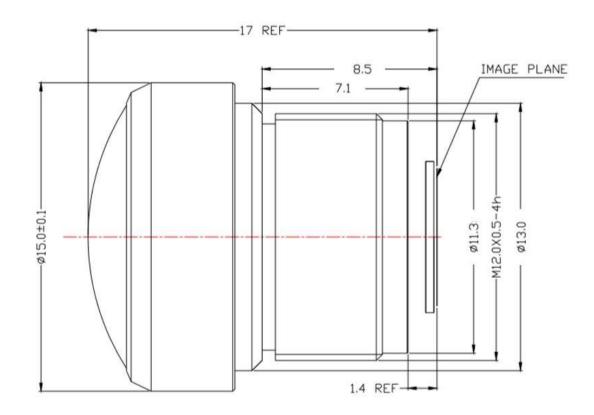
Sunex PN DSL189	
Description	HD/HDR Short TTL SuperFisheye
Imager Format	1/2.7"
Nominal Imager Resolution	2MP
Focal Length	1.4mm
Relative Aperture (F/#)	2.0
Image Circle	5.6mm
Field of View	217° at 5.6mm image circle
Total Track Length	17mm
Distortion (F-Theta)	7.9% max
Chief Ray Angle	16.8° at 5.6mm image circle
IR cut-off filter	-650, -850, -940, -NIR

Applications

- Security/Surveillance
- Automotive
- Robotics/Machine Vision



DSL189A-650-F2.0 Mechanical Dimensions [mm]:



Notes:

1.EFL:1.42±0.1

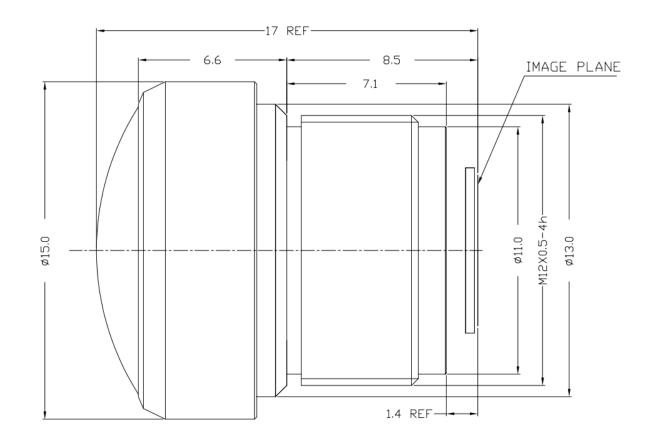
2.F#:2.0±0.1

3.Barrel material:Black anodized AL6061 Cap material:Black anodized AL6061

4.IR Cut Coating:T=50%@650±20nm



DSL189A-IRC42-F2.0 Mechanical Dimensions [mm]:



Notes:

1.EFL:1.42

2.F#:2.0

3.Barrel material:Black anodized AL6061 Cap material:Black anodized AL6061

4.IR Cut Coating:

430-620nm, Tmin>85%, Tavg>88%; T=50%@650±10nm

680-750nm,Tmax<5%,Tavg<2%

T=80%@800±10nm

830-870nm,Tmin>85%,Tavg>88%

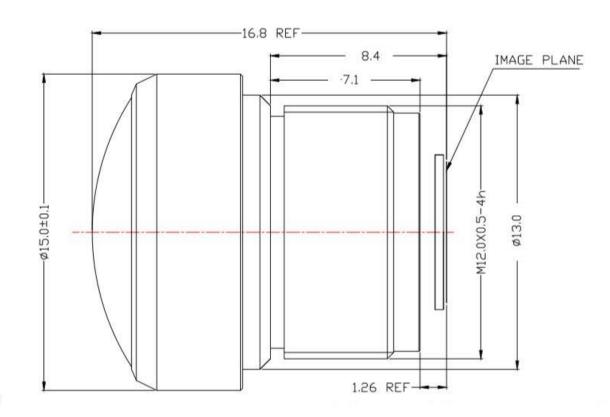
T=80%@900±10nm

930-1000nm,Tmax<5%,Tavg<2%;

5. Specialized SBBAR Coating:420-900nm,Rmax≤1.5%: (prototype phase) 6.Water tightness requirement:IP67/X9K(9K only for reference)



DSL189A-NIR-F2.0 Mechanical Dimensions [mm]:



Notes:

1.EFL:1.42±0.1 2.F#:2.0±0.1

 Barrel material: Black anodized AL6061 Cap material: Black anodized AL6061