

Miniature Wide Angle 4K/HDR Lens



Description

The DSL604 lens is a miniature 4K wide-angle, HDR lens designed for HDR or standard sensors up to 1/1.8" format size. The low F-number, thermal stability and Sunex LowGhost™ HDR characteristics make this lens ideal for security, wearable, drone and video-conferencing applications where high sharpness and environmental stability are required.

Key Features

- HFOV ~ 90° on 1/2" format sensors
- Sunex LowGhost™ HDR
- Excellent low light performance: F/2 aperture
- Compact Board-Mount size

Optical Specifications

Sunex PN DSL604	
Description	4K, HDR, Wide-Angle Lens
Imager Format	Up to 1/1.8"
Nominal Imager Resolution	8MP
Focal length	4.1mm
Relative Aperture (F/#)	2.0
Design Image Circle	8.0mm
Field of View	90° at 6.2mm image circle 120° at 8.0mm image circle
Total Track Length	33.5mm
Distortion	-9% from F-θ
Chief Ray Angle	13.7° at 8.0mm image circle, linear
IR cut-off filter	IR cutoff at 650nm optional

Applications

- Security and Surveillance cameras
- Wearable and Drone cameras
- Video Conferencing

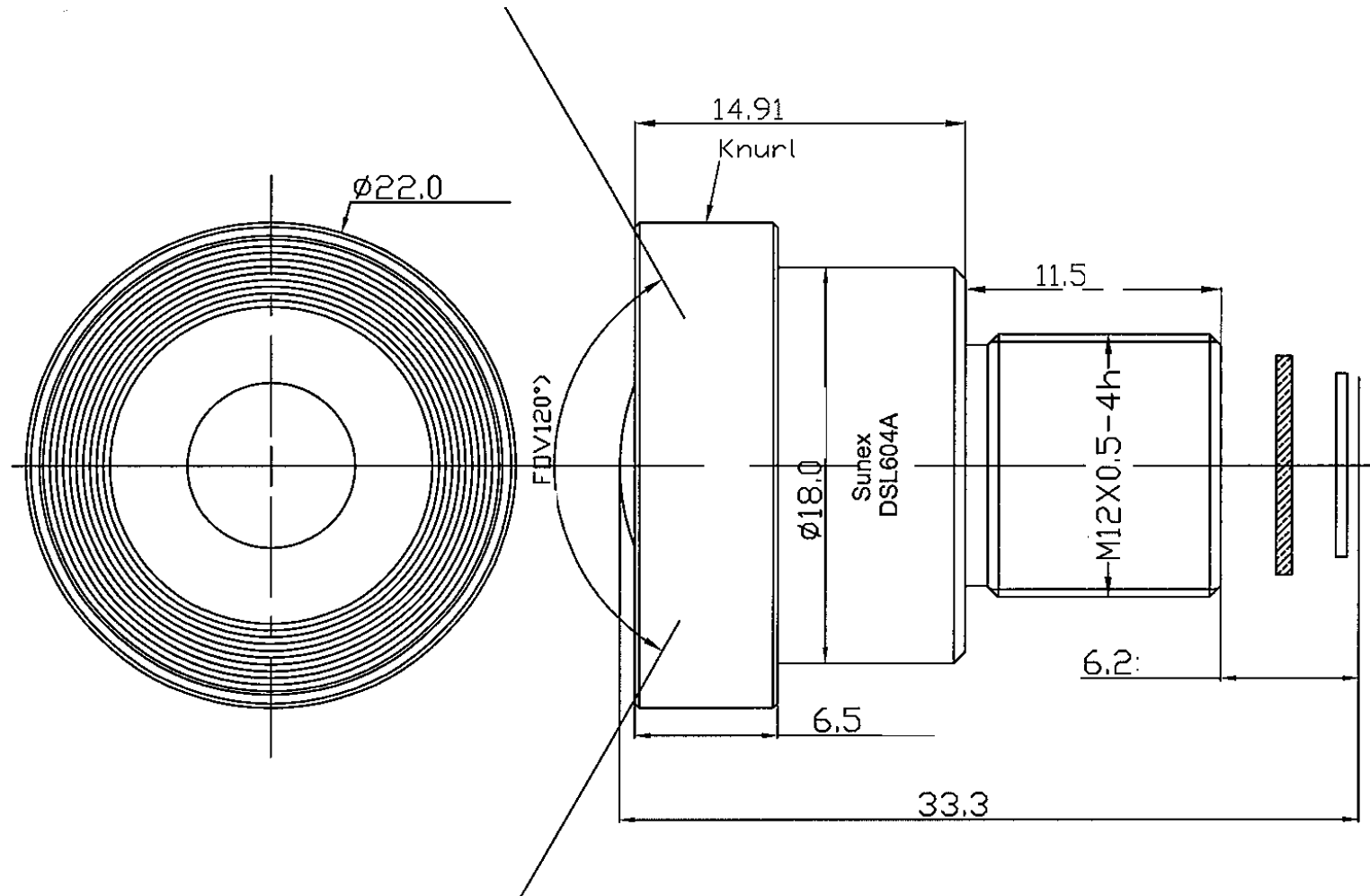
Technical drawing of a lens assembly. The left view is a top view showing a circular lens with a central hole and concentric rings. The right view is a cross-sectional side view showing the internal components and their dimensions.

Dimensions and labels in the side view:

- Overall width: 33,5
- Distance from left edge to the start of the lens element: 6,5
- Distance from the start of the lens element to the filter: 13,0
- Distance from the filter to the image plane: 4,9
- Overall height: $\phi 22,0$
- Inner diameter of the lens element: $\phi 18,0$
- Material label: Suprex DSL604A
- Filter label: Filter :T=50%@650:
- Image plane label: Image plane
- Knurl label: Knurl
- Thread label: M12X0,5-4h

DSL604A-NIR-F2.0 Mechanical Dimensions [mm]:

Note: DSL604A is intended for use with Sunex CMT103, CMT107, or CMT822 mounts



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