

Miniature IR Lens



Description

The DSL893 is designed for high precision infrared imaging. It uses advanced optical technology to ensure stability of the image. This lens has excellent infrared transmittance and can capture subtle thermal changes, which is widely used in DMS, industrial inspection, medical imaging and security monitoring. Its compact size and rugged construction make it ideal for portable devices that perform well in both laboratory and outdoor environments.

Key Features

- Hybrid Design for short TTL
- Stable thermal shift
- Lower flare and ghost

Optical Specifications

Sunex PN DSL893	
Description	Miniature DSC Lens
Imager Format	1/3.2"
Nominal Imager Resolution	Up to 2MP
Focal length	3.97mm
Relative Aperture (F/#)	F2.0
Design Image Circle	4.54mm at 61.2°
Field of View	52° at 3.84mm image circle 33.5° at 2.4mm image circle
Total Track Length	6.3mm
Distortion (F-theta)	-3.14% at 4.54mm (F·Tanθ)
Chief Ray Angle	27.4° at 4.54mm image circle,
IR cut-off filter	BP940

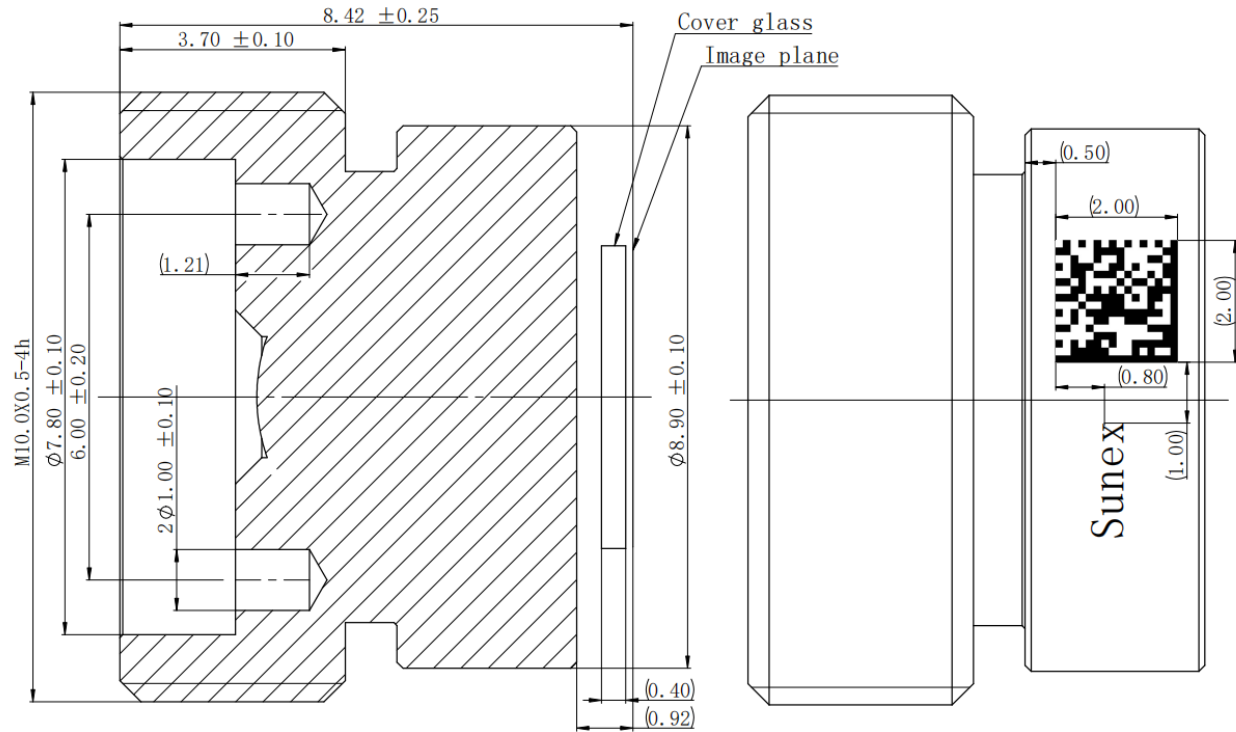
Applications

- DMS
- Biometric and Surveillance
- Scanner and Industrial

DSL893A-BP940-F2.0 Mechanical Dimensions [mm]:

Notes:

1. F# = 2.0 ± 5%
2. EFL = 3.97 ± 5%
4. Barrel material : Black anodized AL6061
The number of lettering digits is 13 digits,
and the lettering format is as follows:
893 A L D Y M D XXXX
Product series: 893
Version number: A
IR-cut: L, L mean BP940
F#: D, D mean 2.0
Year: Y, such as 2024 is 4;
Month : M, January to September is 1-9,
October to December is A-C;
Date : D, 1 to 9 day is 1-9, 10 to 31 Day is A-V;
Serial number: XXXX;
(0000-9999, and after exceeding it, A represents
10. For example, A000 is 10000, and so on, B-1)
6. Example of DMC format : 893ALD4870001
5. "Sunex": capital letter "S" font and height: Arial 0.6mm
small letters "unex" are set with the program;



Prototype