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## Visible, 0.5-2.5mm FL, Visible Metalens Array



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### Product Downloads

### General

**Note:**  
Black absorptive aperture applied to metasurface

### Physical & Mechanical Properties

0.70 ±0.07      **Thickness (mm):**

20.0 x 20.0      **Outer Dimensions (mm):**

1      **Inner Diameter (mm):**

## Optical Properties

### Effective Focal Length EFL (mm):

0.50 , 2.5 ±0.5%

### Substrate:

Eagle XG

### Coating:

Broadband 420-670nm AR Coating, backside  
Protective Overcoat, frontside

### Coating Specification:

Broadband 420-670nm AR-Coating (Back surface only)  
 $R_{\text{abs}} \leq 1\%$  from 420-670nm  
 $R_{\text{avg}} \leq 0.4\%$  from 420-670nm

### Design Wavelength DWL (nm):

532, 632

### Index of Refraction ( $n_d$ ):

1.5198 (435.8 nm), 1.5078 (643.8 nm)

### Transmission (%):

70 (2.5mm FL @ 532nm) 47.5 (0.5mm FL @ 532nm)  
60 (2.5mm FL @ 632nm) 46 (0.5mm FL @ 633nm)

### Numerical Aperture (NA) Range:

0.196 (2.5mm FL lenses), 0.707 (0.5mm FL lenses)

## Material Properties

### Thermal Expansion:

$31.7 \times 10^{-7} \text{ } ^\circ\text{C}^{-1}$  (0-300°C)

## Environmental & Durability Factors

### Environmental Durability:

$\geq 200\text{C}$ , 1000hrs

## Regulatory Compliance

### Certificate of Conformance:

[View](#)

## Product Details

- Flat, Space Saving Alternative to Traditional Lenses
- Nanostructure Design Enables Efficient Manipulation of Light
- Compact 0.7mm Thickness for Easy Integration into a Variety of Applications

Visible Metalens Plates are designed with an innovative nanostructure design to manipulate and focus light, offering a highly compact and high-performance alternative to traditional curved lenses. Featuring ultra-thin Eagle XG substrates, these lens plates are available for 532nm and 632nm design wavelengths in a range of focal lengths. These metalenses are available in a single lens construction, where an individual metalens is centered on the plate and surrounded by an absorptive aperture to reduce stray light, or an array construction, where one of each of the four smaller Metalenses are arranged on a single plate for versatility. Visible Metalens Plates are ideal for low SWaP, LIDAR, imaging, and beam shaping applications.

**Note:** The Metalens surface is very delicate, and contact should be avoided during cleaning and handling. Visible Metalens Plates should be cleaned only using compressed air.