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## NIR Wire Grid Polarizer, HT, 700-2500nm, 50mm Dia.



Photo shows 26-998 and 27-000 NIR Wire Grid Polarizers

Stock **#27-003** **1 In Stock**

⊖ 1 ⊕ A\$3,112<sup>00</sup>

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Volume Pricing	
Qty 1-5	A\$3,112.00 each
Qty 6+	A\$2,800.00 each
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### Product Downloads

### General

Linear Polarizer **Type:**

### Physical & Mechanical Properties

42 **Clear Aperture CA (mm):**

50.00 ±0.2 **Diameter (mm):**

**Thickness (mm):**

5.80 ±0.2 (with mount)

**Construction:**

Wire Grid

### Optical Properties

**Angle of Incidence (°):**

0° ±20°

**Coating:**

Uncoated

**Extinction Ratio:**

150:1@900nm  
500:1@1400nm  
800:1@1900nm  
1000:1@2400nm

**Substrate:**

Wire Grid on Display Grade Glass

**Surface Quality:**

80-50

**Transmission (%):**

>88.1@900nm  
>91.0@1400nm  
>91.3@1900nm  
>90.3@2400nm

**Wavelength Range (nm):**

700 - 2500

### Threading & Mounting

**Mount:**

Mounted 6061 Anodized Aluminium

### Material Properties

**Thermal Expansion:**

31.7 x 10<sup>-7</sup>/°C (0 - 300°C)

### Regulatory Compliance

**Certificate of Conformance:**

[View](#)

## Product Details

- Designed for 700 - 2500nm
- High Transmission and High Contrast Versions Available
- Ideal for Thermal Imaging

NIR Wire Grid Polarizers are broadband polarizers designed to provide high transmission from 700 - 2500nm. These polarizers are optimized as either a high contrast version, providing 5900:1 extinction ratio at 2400nm, or as a high transmission version providing up to 91% transmission at 1900nm. NIR Wire Grid Polarizers are manufactured on high-grade display glass, providing excellent heat resistance for NIR applications. When incident light strikes the wire grid, P-polarized light contacts a dielectric and is transmitted, while S-polarized light contacts a mirror and is reflected.

## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools