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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 ⊕ **\$2,723.00**

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Volume Pricing	
Qty 1-5	\$2,723.00 each
Qty 6+	\$2,450.00 each
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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 10⁻⁷/°C (0 - 300°C)

Regulatory Compliance

Certificate of Conformance:

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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