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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 ⊕ £1,556⁰⁰

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Volume Pricing	
Qty 1-5	£1,556.00 each
Qty 6+	£1,400.00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Linear Polarizer **Type:**

Physical & Mechanical Properties

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

50.00 ±0.2 **Diameter (mm):**

5.80 ±0.2 (with mount) **Thickness (mm):**

Wire Grid **Construction:**

Optical Properties

0° ±20° **Angle of Incidence (°):**

Uncoated **Coating:**

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

Wire Grid on Display Grade Glass **Substrate:**

80-50 **Surface Quality:**

>88.1@900nm
>91.0@1400nm
>91.3@1900nm
>90.3@2400nm **Transmission (%):**

700 - 2500 **Wavelength Range (nm):**

Threading & Mounting

Mounted 6061 Anodized Aluminium **Mount:**

Material Properties

31.7 x 10⁻⁷/°C (0 - 300°C) **Thermal Expansion:**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

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