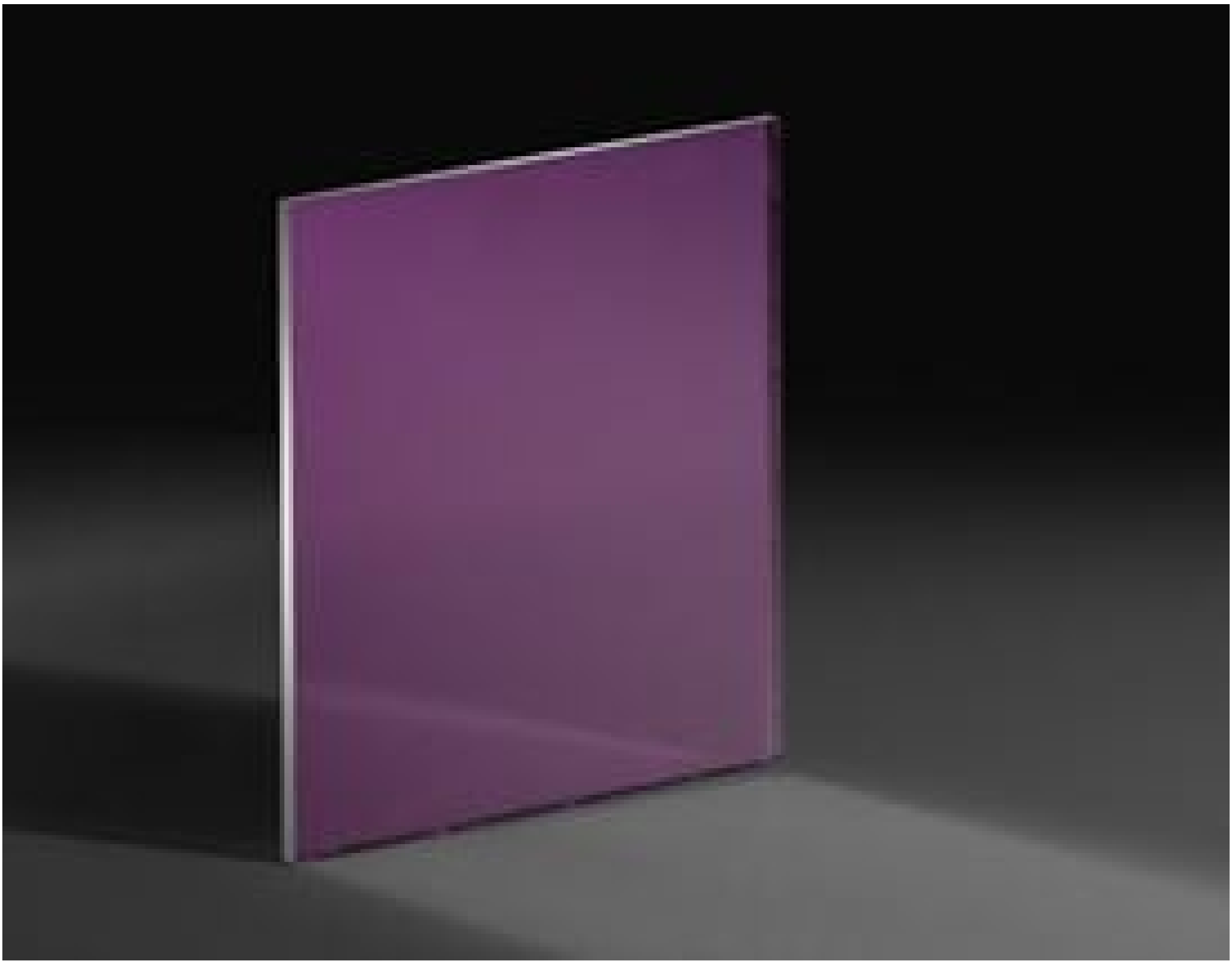
25 x 25mm, Protective Overcoat Wire Grid Polarizer



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Qty 1-10	**£268.00** each
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SPECIFICATIONS

General

Type:
Linear Polarizer

Note:
When the Reference Mark is orientated to the 3 or 9

o'clock position, the transmission axis runs left to right.

Physical & Mechanical Properties

Clear Aperture CA (mm): 23 x 23	
Length (mm): 25.00	
Dimensions (mm): 25.0 x 25.0	
Thickness (mm): 0.70 ±0.07	
Dimensional Tolerance (mm): ±0.2	
Construction: Wire Grid	
Alignment Tolerance (°): ±1.0	
Width (mm): 25.00	

Optical Properties

Angle of Incidence (°): 0 ±20	
Coating: BBAR (400-700nm)	
Extinction Ratio: 348:1 @ 450nm 885:1 @ 550nm 1229:1 @ 650nm	
Substrate: Corning Eagle XG	
Surface Quality: 80-50	
Transmission (%): 87	
Transmission Tolerance (%): ±2.5 @ 420 - 700nm	
Coating Specification: R_{avg} <1% @ 400 - 700nm (Back of Substrate)	
Wavelength Range (nm): 420 - 700	

Material Properties

Thermal Expansion: 31.7 x 10-7/°C	

Environmental & Durability Factors

Operating Temperature (°C): -40 to +200	

Regulatory Compliance

RoHS 2015: Compliant	
Reach 224: Compliant	
Certificate of Conformance: View	

PRODUCT DETAILS

- Reflect S-Polarized Light, Transmit P-Polarized Light
- Protective Overcoat for Easy Handling and Cleaning
- Lighter, Thinner Design than Traditional **Wire Grid Polarizers**
- Overcoat Temperature Stability up to 200°C

Protective Overcoat Wire Grid Polarizers are used to reflect s-polarized light while transmitting p-polarized light in the visible spectrum. These polarizers consist of a thin aluminum wire grid attached to a glass substrate that is treated with a hard, protective coating. The overcoat protects the wire grid structure from scratches or other damage due to mechanical stress while enabling lighter, thinner designs compared to traditional **Wire Grid Polarizers** that use cover glass. The protective coating on these polarizers allows for them to be easily handled and cleaned, unlike **bare wire grid polarizers** where handling and cleaning is not recommended. Protective Overcoat Wire Grid Polarizers can be used in environments with high temperatures up to 200°C for over 1000 hours with minimal impact on performance.

Note: Reference marks indicate the axis of polarization.