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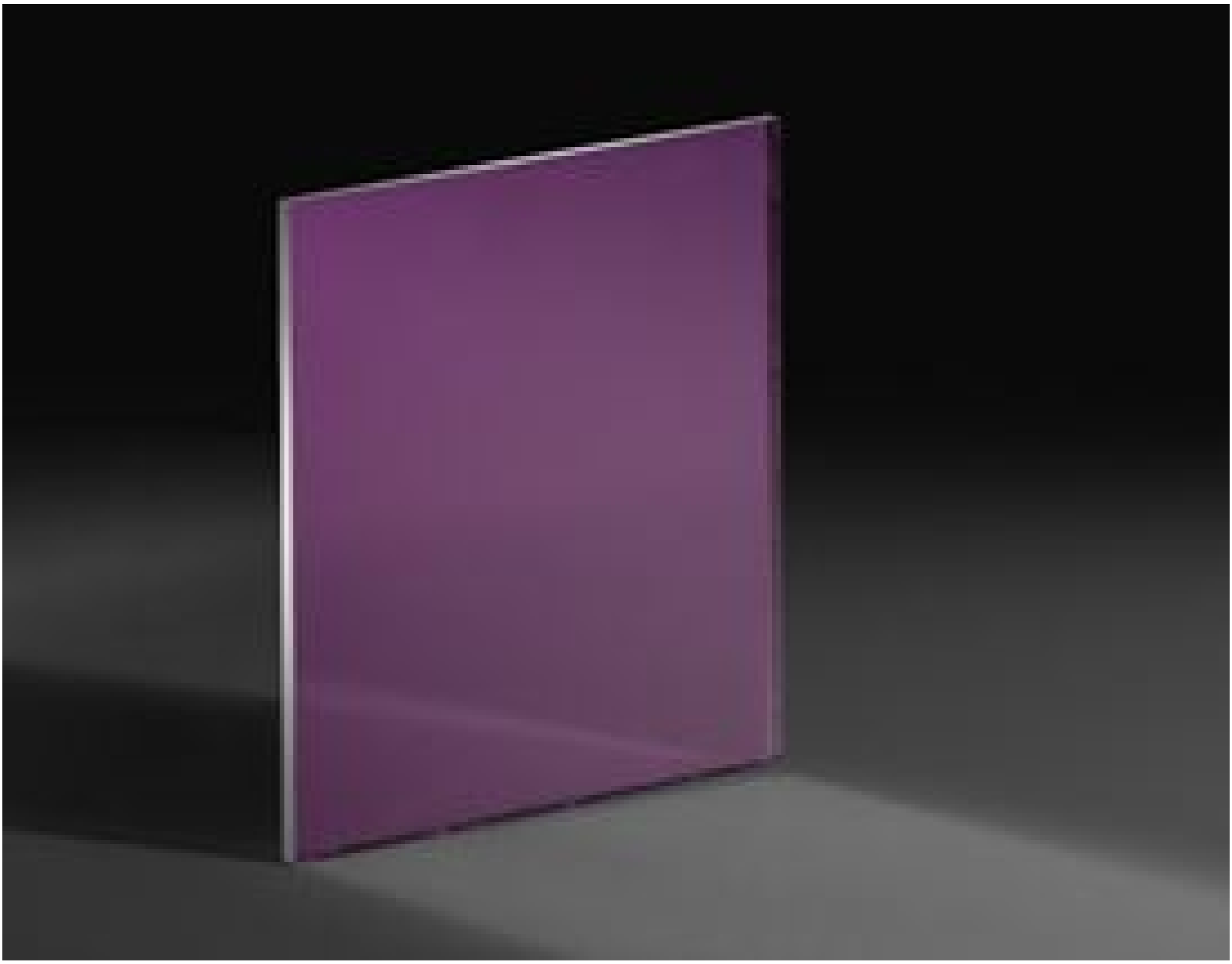
50 x 50mm, Protective Overcoat Wire Grid Polarizer



Stock **#12-647** **1 In Stock**

- 1 + **£820**.00

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Volume Pricing	
Qty 1-10	**£820.00** each
Qty 11+	**£724.00** each
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Product Downloads

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):

48 x 48

Length (mm):
50.00

Dimensions (mm):
50.0 x 50.0

Thickness (mm):
0.70 ±0.07

Dimensional Tolerance (mm):
±0.2

Construction:
Wire Grid

Alignment Tolerance (°):
±1.0

Width (mm):
50.00

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.

Compatible Mounts

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