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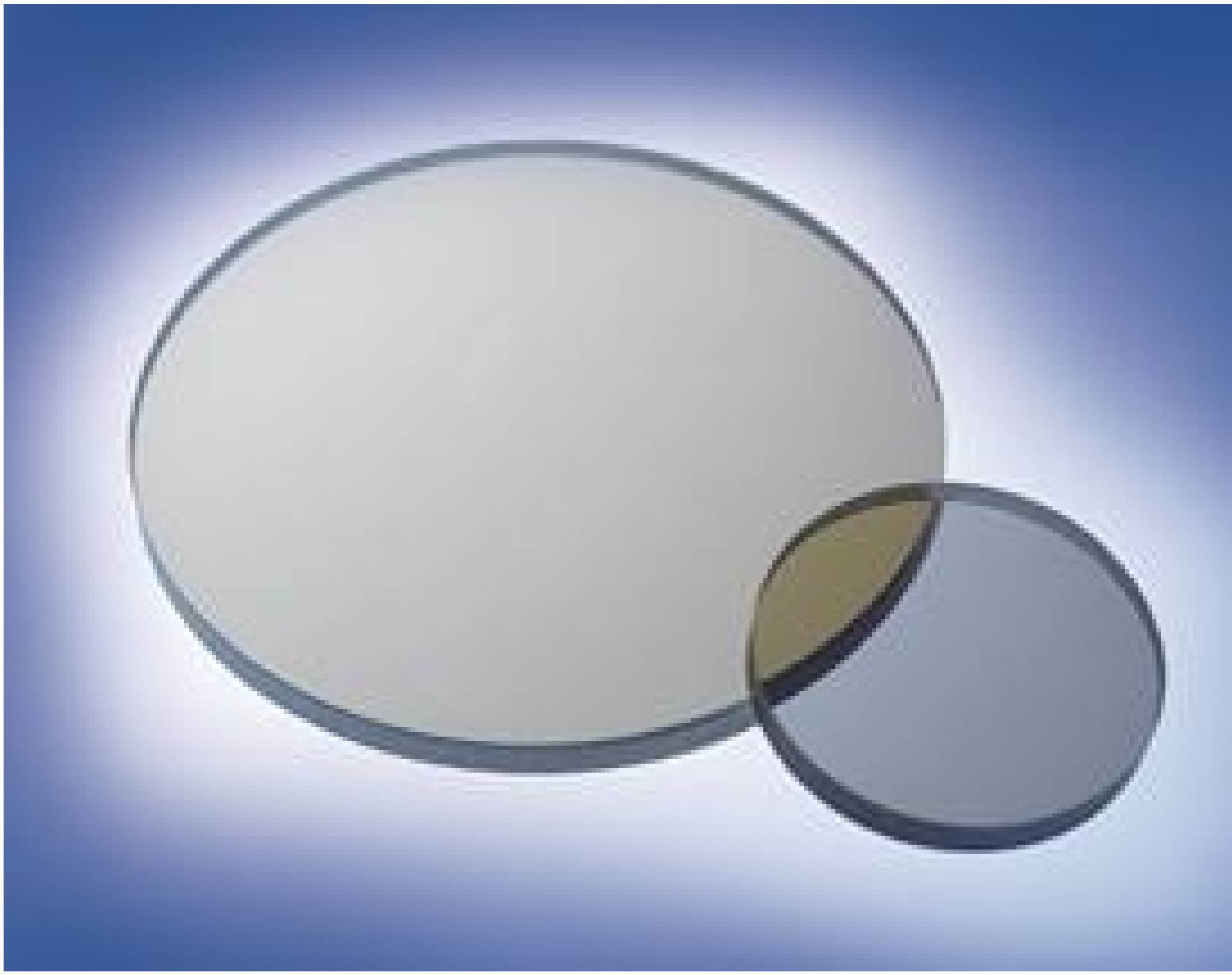
5mm Diameter High Contrast VIS-NIR Polarizer



Stock **#90-383** NEW **1 In Stock**

- 1 + **£220**.00

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Volume Pricing	
Qty 1-10	**£220.00** each
Qty 11+	**£208.00** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Linear Polarizer

Physical & Mechanical Properties

Clear Aperture CA (mm):

4.50

Diameter (mm):

5.00 +0.0/-0.2

Thickness (mm):
2.00 ±0.20

Construction:
Nanoparticle

Clear Aperture (%):
90

Optical Properties

Coating:
Double-Side AR Coat

Extinction Ratio:
>100,000:1 (700nm)
>10,000:1 (600 to 850nm)
>1,000:1 (600 to 1000nm)

Substrate:
Sodium Silicate Glass Doped with Glass Nanoparticles

Surface Quality:
40-20

Transmission (%):
>78%

Transmitted Wavefront, P-V:
<*N*4 @ 633nm per 1cm

Beam Deviation (arcmin):
<1

Polarization Axis Mark (%):
<0.5 (to indicated edge)

Wavelength Range (nm):
600 - 1000

Damage Threshold, By Design:
Continuous block
Continuous pass
Pulse peak power
Equivalent pulse power density
10 W/cm²
25 W/cm²
12 MW/cm²
1 µJ/cm²

Acceptance Angle (°):
±20

Threading & Mounting

Mount Thickness (mm):
Unmounted

Environmental & Durability Factors

Operating Temperature (°C):
-20 to +120

Regulatory Compliance

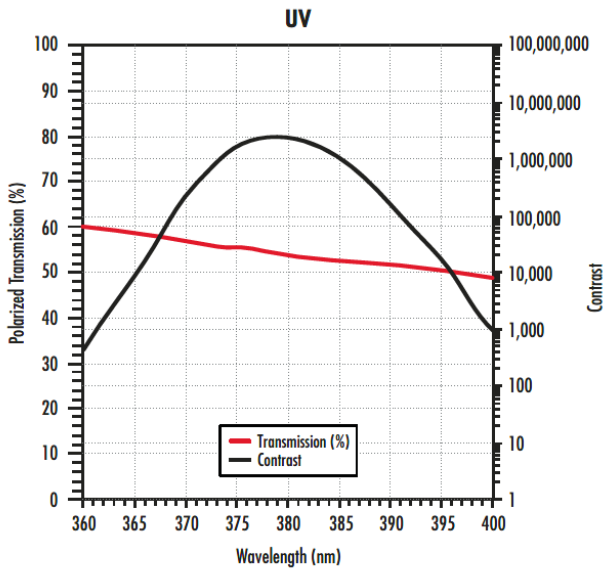
Certificate of Conformance:
View

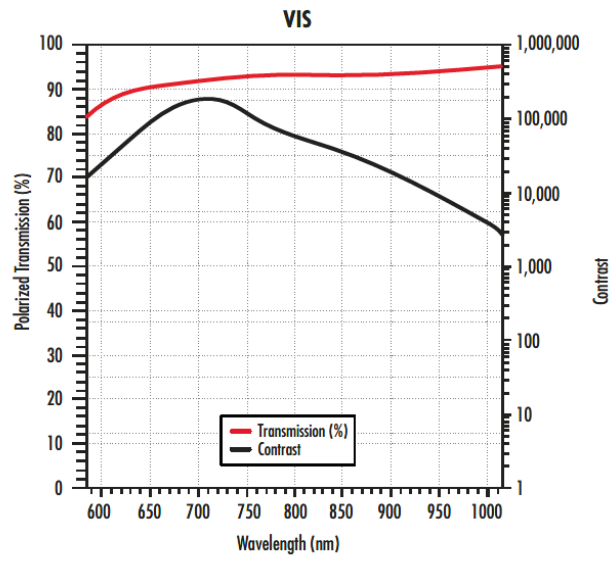
Product Details

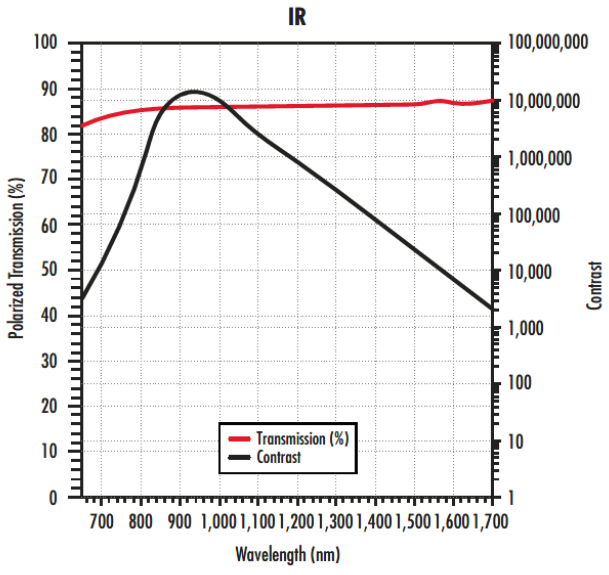
- Multiple Wavelength Ranges for UV, VIS and NIR
- >100,000:1 Contrast Ratios Available
- Ideal for Use in Harsh Environments

UV, VIS-NIR, and NIR High Contrast Polarizers offer both versatility and performance over a wide range of wavelengths. These polarizers contain uniformly stretched silver nano-particles in a 220 ±25µm thick soda-lime glass laminated on a thicker soda-lime substrate for increased durability. UV, VIS-NIR, and NIR High Contrast Polarizers are ideal for harsh environments, can withstand up to 120°C, are resistant to UV-radiation and chemicals, and can be safely used in humid environments.

Technical Information


UV
Polarized Transmission (%)
Contrast
Wavelength (nm)
Transmission (%)
Contrast
100
90
80
70
60
50
40
30
20
10
0
100,000,000
10,000,000
1,000,000
100,000
10,000
1,000
100
10
1
360
365
370
375
380
385
390
395
400


VIS
Polarized Transmission (%)
Contrast
Wavelength (nm)
Transmission (%)
Contrast
100
90
80
70
60
50
40
30
20
10
0
1,000,000
100,000
10,000
1,000
100
10
1
600
650
700
750
800
850
900
950
1000


IR
Polarized Transmission (%)
Contrast
Wavelength (nm)
Transmission (%)
Contrast
100
90
80
70
60
50
40
30
20
10
0
100,000,000
10,000,000
1,000,000
100,000
10,000
1,000
100
10
1
700
800
900
1,000
1,100
1,200
1,300
1,400
1,500
1,600
1,700

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