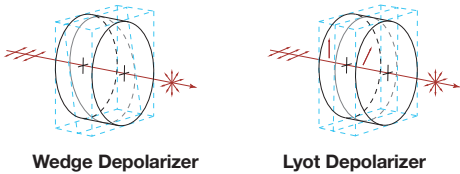
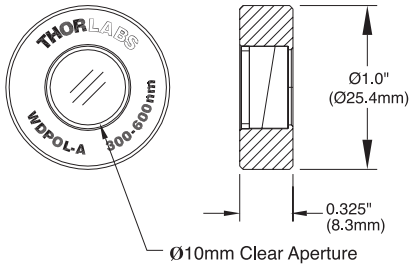
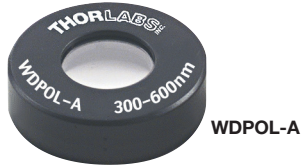


Depolarizers



- Convert Linear Polarization to Unpolarized Light
- Standard Lyot and Wedge Designs
- AR Coating Available
- Ø1" Mount Included

Depolarizers convert a polarized beam of light into a pseudo-random polarized beam of light. The pseudo-random polarization of the output beam may be more suitable to use with polarization sensitive devices than with linearly polarized light. Our depolarizers are cemented and AR coated for low-power operation.

Wedge Depolarizers

A variation in retardance across the aperture is created by the wedge-shaped crystalline quartz optic to scramble the polarization. A fused silica wedge is cemented to the quartz wedge to compensate for beam deviation. Wedge depolarizers are achromatic and can be used with any input beam.

Lyot Depolarizers

Lyot depolarizers consist of two quartz wave plates, one being exactly twice the thickness of the other and are assembled with their optic axes 45° apart. This combination creates various degrees of elliptical polarization as a function of wavelength, and therefore, Lyot depolarizers cannot be used with monochromatic beams.

Specifications

- Spectral Range:** 350-2600nm
- Transmission:** 92%
- Beam Deviation:** <3arcmin
- Flatness:** λ/8
- Surface Quality:** 20-10 Scratch-Dig
- Thickness:** 6mm Nominal

ITEM# WEDGE DEPOLARIZER	ITEM # LYOT DEPOLARIZER	AR COATING	\$	£	€	RMB
WDPOL	LDPOL	None	\$ 650.00	£ 409.50	€ 604,50	¥ 6,207.50
WDPOL-A	LDPOL-A	350-600nm	\$ 700.00	£ 441.00	€ 651,00	¥ 6,685.00
WDPOL-B	LDPOL-B	600-900nm	\$ 700.00	£ 441.00	€ 651,00	¥ 6,685.00
WDPOL-C	LDPOL-C	1250-1620nm	\$ 700.00	£ 441.00	€ 651,00	¥ 6,685.00

Achromatic Depolarizers

Specifications

- Spectral Range:** 190nm-2.5µm
- Damage Threshold:** 10W/cm² CW
- Clear Aperture:** >85% OD
- Outer Diameter:** 25.4mm
- Material:** Quartz Crystal



The proprietary design of the DPU-25 depolarizer results in a depolarizer that does not have a fast axis and is achromatic (i.e. no wavelength periodicity). The depolarizer consists of two crystal quartz wedges that are separated by a thin metal ring and epoxied outside of the clear aperture of the polarizer. The performance of the depolarizer is optimized when used with beams greater than 6mm in diameter.



ITEM #	AR COATING	\$	£	€	RMB
DPU-25	None	\$ 515.00	£ 324.50	€ 479.00	¥ 4,918.30
DPU-25-A	350-600nm	\$ 625.00	£ 393.80	€ 581,30	¥ 5,968.80
DPU-25-B	600-900nm	\$ 625.00	£ 393.80	€ 581,30	¥ 5,968.80
DPU-25-C	1250-1620nm	\$ 625.00	£ 393.80	€ 581,30	¥ 5,968.80

- Optical Systems
- Free Space Isolators
- E-O Devices
- Spherical Singlets
- Multi-Element Lenses
- Cylindrical Lenses
- Aspheric Lenses
- Mirrors
- Diffusers & Lens Arrays
- Windows
- Prisms
- Gratings
- Polarization Optics
- Beamsplitters
- Filters & Attenuators
- Gas Cells