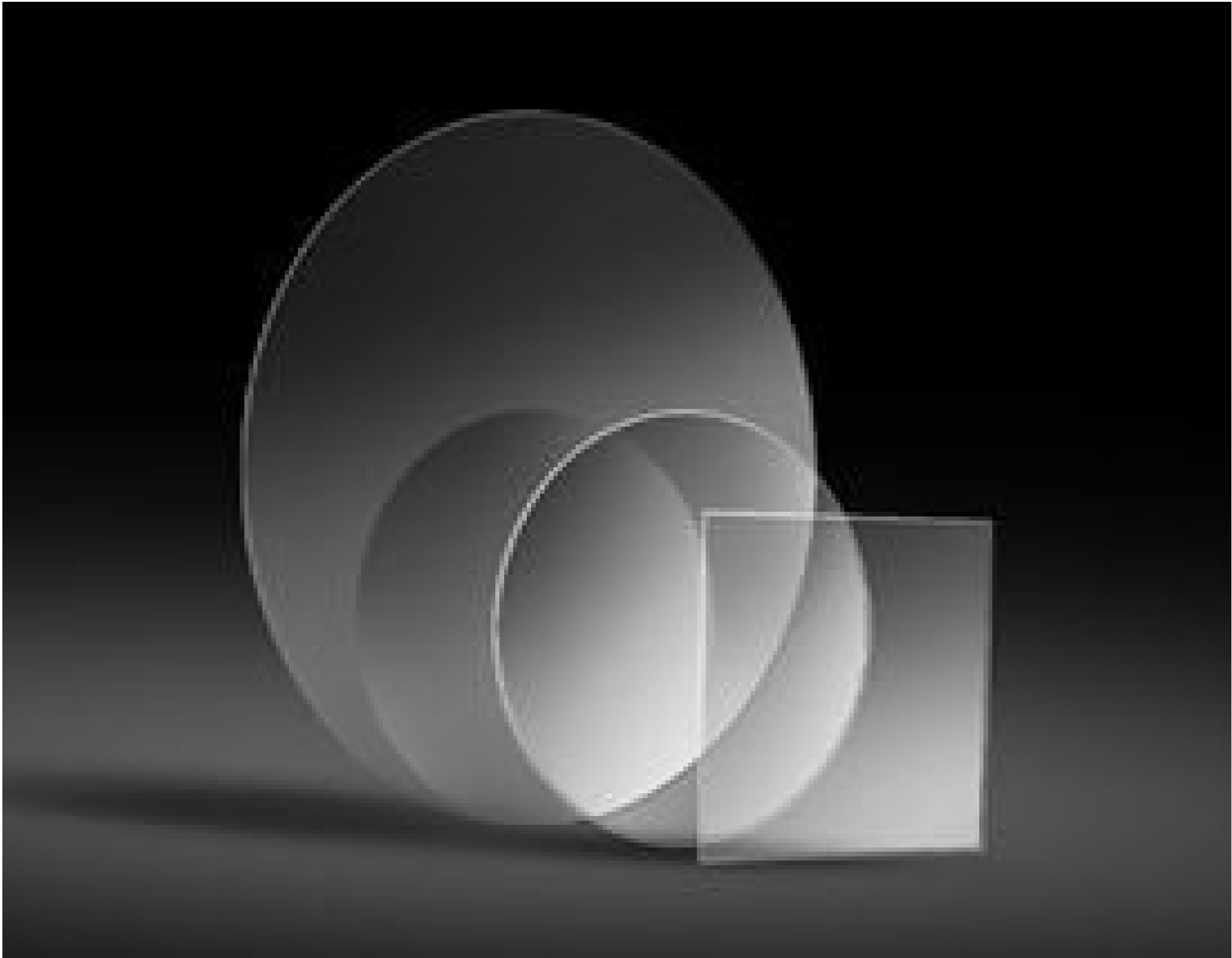


Ultra-Thin Nanoparticle Polarizer, 525-700nm, 10 x 10mm, Double-Sided AR Coated



Ultra-Thin Polarizers; 10x10, 12.5mm Dia, and 25mm Dia.

Stock **#90-256** NEW [CONTACT US](#)

-

1

+

€464⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	€464,00 each
Qty 11+	€371,00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:

Linear Polarizer

Physical & Mechanical Properties

Clear Aperture CA (mm):	
9.00	
Dimensions (mm):	
10.00 x 10.00 +0/-0.1	
Thickness (mm):	
0.09 ± 0.025	
Construction:	
Nanoparticle	
Clear Aperture (%):	
90	
Optical Properties	
Coating:	
Double-Side AR Coat	
Extinction Ratio:	
>1000:1	
Substrate: ☐	
Sodium Silicate Glass Doped with Glass Nanoparticles	
Surface Quality:	
40-20	
Transmission (%):	
>75	
Transmitted Wavefront, P-V:	
<3 wave	
Polarization Axis Mark (%):	
<0.5 (to indicated edge)	
Wavelength Range (nm):	
525 - 700	
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):	
-50 to +400	
Regulatory Compliance	
Certificate of Conformance:	
View	

PRODUCT DETAILS

- NEW LOWER PRICE!
 - Lightweight 90µm Thick Substrate
 - >10,000:1 Extinction Ratio
 - Excellent Resistance to Temperature, Chemicals, and Harsh Environments
 - Range of Standard Sizes, Coatings, and Custom Options Available
- Ultra-Thin Nanoparticle Polarizers are a lightweight 90µm thick alternative to traditional polarizers while providing a high transmission and an extinction ratio of >10,000:1. Constructed from sodium silicate glass substrate doped with prolate silver nanoparticles, these polarizers provide high temperature stability up to +400°C, chemical resistance, and resistance to UV radiation and bleaching. These polarizers are available uncoated, Single-Side AR coated, or Double-Side AR coated and cover wavelength ranges from 366-1600nm. Ultra-Thin Nanoparticle Polarizers design are ideal for use in telecom, medical, and aerospace applications as well as in optical isolators, polarization interferometry, and improving signal-to-noise ratio.

CUSTOM

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

