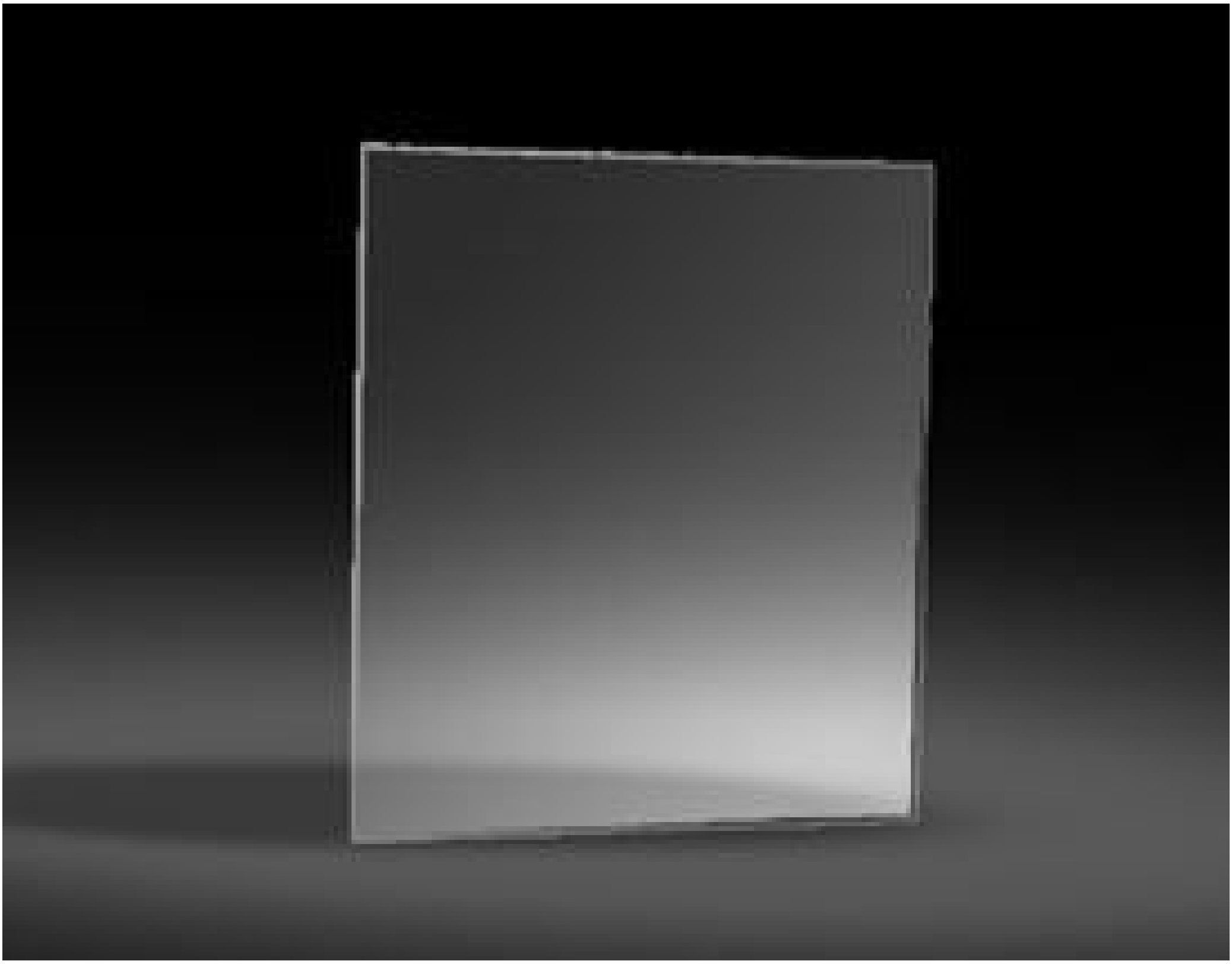
See all 22 Products in Family

Ultra-Thin Polarizer, 1310nm, 10 x 10mm, Single-Side AR Coated



Ultra-Thin Polarizer, Square

Stock **#26-638** **1 In Stock**

- 1 + **A$744**.00

ADD TO CART

Volume Pricing	
Qty 1+	**A$744.00** each
Need More?	Request Quote

Product Downloads

Physical & Mechanical Properties

Dimensions (mm):
10 x 10 +0/-0.1

Thickness (mm):
0.09 ± 0.025

Optical Properties

Coating:
Single-Side AR

Extinction Ratio:
>10,000:1

Substrate:
Sodium Silicate Glass Doped with Silver Nanoparticles

Surface Quality:
40-20

Transmission (%):
>91

Coating Specification:
Not available

Wavelength Range (nm):
1260 - 1360

Damage Threshold, By Design:
10 W/cm^2

Acceptance Angle (°):
± 20°

Transmitted Wavefront Error, RMS:
<3 λ

Environmental & Durability Factors

Operating Temperature (°C):
-50 to +400

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

REACH 241:
Compliant

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.

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.

;