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TECHSPEC®

10mm VIS 0° Coating Coated)

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Stock #84-506 20+ In Stock

1

€122^{.00}

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Volume Pricing	
Qty 1-5	€122,00 each
Qty 6-25	€98,00 each
Qty 26-49	€92,50 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	Download All

General

Type: Right Angle Prism

Note: Coating on Entrance/Exit Faces

Physical & Mechanical Properties

Dimensional Tolerance (mm): +0.00/-0.10

Bevel: Protective as needed

Clear Aperture (%): 90

Length of Hypotenuse (mm): 14.10

Length of Legs (mm): 10.00

Optical Properties

Angle Tolerance (arcsec): ±15

Coating: VIS 0° (425-675nm)

Substrate: [N-BK7](#)

Surface Quality: 40-20

Image Orientation: Left-Handed

Coating Specification: R_{avg} ≤0.4% @ 425 - 675nm

Ray Deviation (°): 90

Wavelength Range (nm): 425 - 675

Damage Threshold, Reference: Entrance/Exit Faces: 5 J/cm² @ 532nm, 10ns

Power (fringes) @ 632.8nm: 1.25

Irregularity (fringes) @ 632.8nm: 0.25

Regulatory Compliance

Certificate of Conformance: [View](#)

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Need different specifications?

Edmund Optics offers comprehensive custom manufacturing capabilities for your 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

- Ideal for Low Power Laser Sources
- Multiple BBAR Coatings Available
- Ray Deviation of 90°

TECHSPEC® Broadband Anti-Reflection (BBAR) Coated N-BK7 Right Angle Prisms (Leg Coated) are ideal for a range of low power laser line applications. These prisms feature tight angle tolerances and a precision N-BK7 substrate. The BBAR coating improves transmission efficiency when compared to uncoated right angle prisms. TECHSPEC® Broadband Anti-Reflection (BBAR) Coated N-BK7 Right Angle Prisms (Leg Coated) have their BBAR coating on entrance and exit faces. The prisms are available in lengths from 5 to 50mm.

Right angle prisms are generally used to bend image paths or redirect light at 90°. This produces a left-handed image and depending on the orientation of the prism, the image may be inverted or reverted. Right angle prisms can also be used in combination for image/beam displacement.

Technical Information

Right Angle Prism Ray Path

Right Angle Prism Ray Path

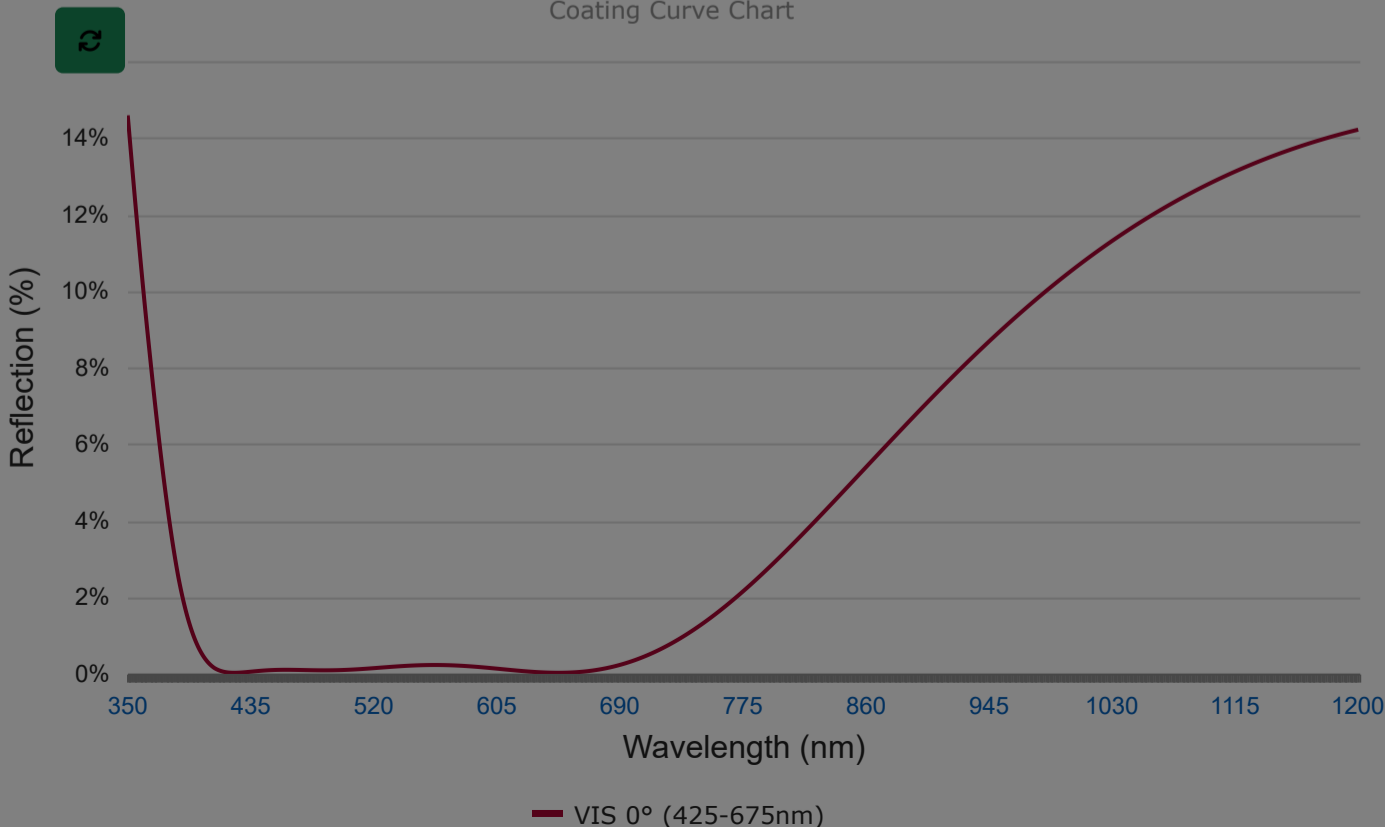
Right Angle Prism Tunnel Diagram

Right Angle Prism Tunnel Diagram

Coating Curves

VIS 0° (425-675nm)

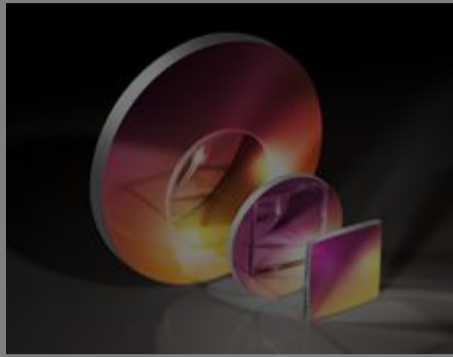
Coating Curve Chart



Please note that coating performance outside each product's specified design range is theoretical and may vary.

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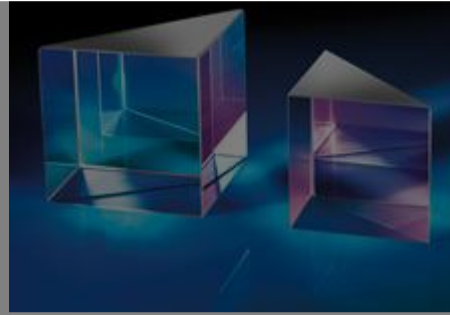
#31-418 - 9.5 x 11.2mm, 4-6λ Mirror
€19,00

Qty



#32-330 - 10mm, Uncoated, N-BK7
Right Angle Prism
€57,00

Qty



#32-543 - 10mm, Uncoated, High
Tolerance N-BK7 Right Angle Prism
€93,50

Qty



#32-683 - 5.0" x 5.0", 2.8" Focal
Length, Fresnel Lens
€76,00

Qty

Resources

Media Type

- Application Note
- Video
- FAQ
- Glossary

APPLICATION NOTE

Anti-Reflection (AR) Coatings

APPLICATION NOTE

An Introduction to Optical Coatings

VIDEO

Optical Prisms Review

FAQ

I'd like to adhere two prisms together. ho...

GLOSSARY

Dove Prism

GLOSSARY

Equilateral (Dispersing) Prism

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