

TECHSPEC<sup>®</sup> 10mm, VIS 0° Coated, Penta Prism



Stock #48-596 20+ In Stock

-

1

+

A\$161<sup>.60</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$161.60 each                |
| Qty 6-25       | A\$129.60 each                |
| Qty 26-49      | A\$121.60 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                             |
|----------------------------------|-----------------------------|
| Penta Prism                      | Type:                       |
| Physical & Mechanical Properties |                             |
| 10.00                            | Length (mm):                |
| ±0.10                            | Dimensional Tolerance (mm): |

|                                                                                                                                                                      |                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Protective as needed                                                                                                                                                 | Bevel:                             |
| 10.00                                                                                                                                                                | Length of Legs (mm):               |
| Optical Properties                                                                                                                                                   |                                    |
| VS 0° & Aluminized                                                                                                                                                   | Coating:                           |
| N-BK7                                                                                                                                                                | Substrate: □                       |
| 60-40                                                                                                                                                                | Surface Quality:                   |
| Right-Handed                                                                                                                                                         | Image Orientation:                 |
| Coating Specification:<br>Entrance/Exit Faces: R <sub>avg</sub> ≤0.4% @ 425 - 675nm<br>Reflecting Surfaces: R <sub>avg</sub> >85% @ 400 - 700nm<br>w/Black Overpaint |                                    |
| 90                                                                                                                                                                   | Ray Deviation (°):                 |
| 425 - 675                                                                                                                                                            | Wavelength Range (nm):             |
| Damage Threshold, By Design: □<br>Entrance & Exit Faces: 5 J/cm2 @ 532nm, 10ns<br>Reflecting Surfaces: 0.3 J/cm2 @ 532 & 1064nm, 10ns                                |                                    |
| ±5                                                                                                                                                                   | Beam Deviation Tolerance (arcmin): |
| 1.00                                                                                                                                                                 | Power (fringes) @ 632.8nm:         |
| 0.25                                                                                                                                                                 | Irregularity (fringes) @ 632.8nm:  |
| Regulatory Compliance                                                                                                                                                |                                    |
| Compliant                                                                                                                                                            | RoHS 2015:                         |
| Compliant                                                                                                                                                            | Reach 223:                         |
| View                                                                                                                                                                 | Certificate of Conformance:        |

## 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

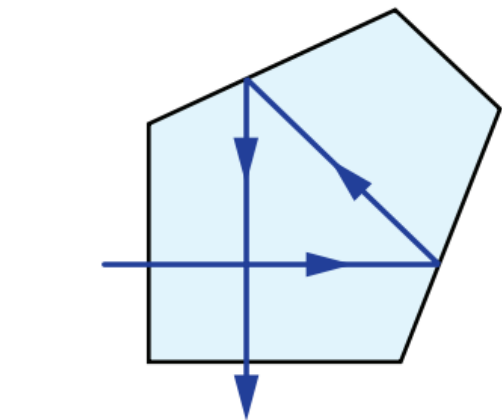
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

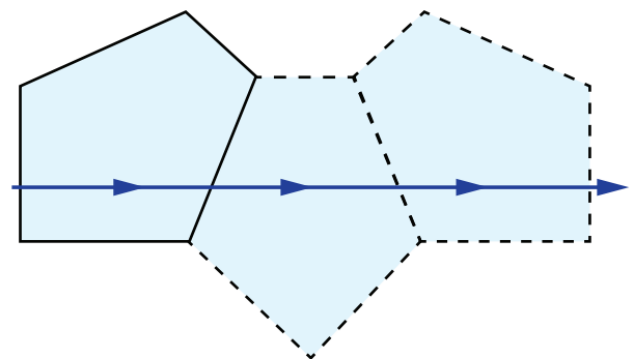
- Ray Deviation of 90°
- Right Handed Image
- Optical Tool for Defining a Right Angle
- Additional [Penta Prism](#) Options Available

TECHSPEC® N-BK7 Penta Prisms are five-sided prisms featuring a ray deviation of 90° and a right-handed image. The reflecting surfaces are aluminized. Slight movement of the prism does not affect the true right angle at which light rays are reflected, making a penta prism the ideal optical tool for defining a right angle in an optical system. TECHSPEC® N-BK7 Penta Prisms are made from precision N-BK7 for use in a variety of visible light applications. These prisms are offered with a VS 0° or MgF2 coating, in a variety of sizes.

## Technical Information



Penta Prism Ray Path



Penta Prism Tunnel Diagram

| Stock No. | Coating          | Dimensions |       |
|-----------|------------------|------------|-------|
|           |                  | A          | B     |
| #85-159   | VS 0°            | 0.50       | 0.60  |
| #85-160   | VS 0°            | 1.00       | 1.20  |
| #45-112   | MgF <sub>2</sub> | 5.00       | 6.10  |
| #48-595   | VS 0°            |            |       |
| #32-030   | MgF <sub>2</sub> | 10.00      | 11.95 |
| #48-596   | VS 0°            |            |       |
| #43-502   | MgF <sub>2</sub> | 15.00      | 15.96 |
| #48-597   | VS 0°            |            |       |
| #31-051   | MgF <sub>2</sub> | 20.00      | 21.65 |
| #48-598   | VS 0°            |            |       |
| #42-779   | MgF <sub>2</sub> | 25.00      | 27.90 |
| #47-458   | MgF <sub>2</sub> |            |       |
| #48-599   | VS 0°            |            |       |
| #45-073   | MgF <sub>2</sub> | 30.00      | 32.47 |
| #48-600   | VS 0°            |            |       |
| #45-402   | MgF <sub>2</sub> | 35.00      | 37.88 |
| #48-601   | VS 0°            |            |       |
| #45-674   | MgF <sub>2</sub> | 40.00      | 43.30 |
| #48-602   | VS 0°            |            |       |
| #45-675   | MgF <sub>2</sub> | 45.00      | 48.71 |
| #48-603   | VS 0°            |            |       |
| #45-676   | MgF <sub>2</sub> | 50.00      | 54.12 |
| #47-459   | MgF <sub>2</sub> |            |       |
| #48-604   | VS 0°            |            |       |
|           |                  |            |       |

