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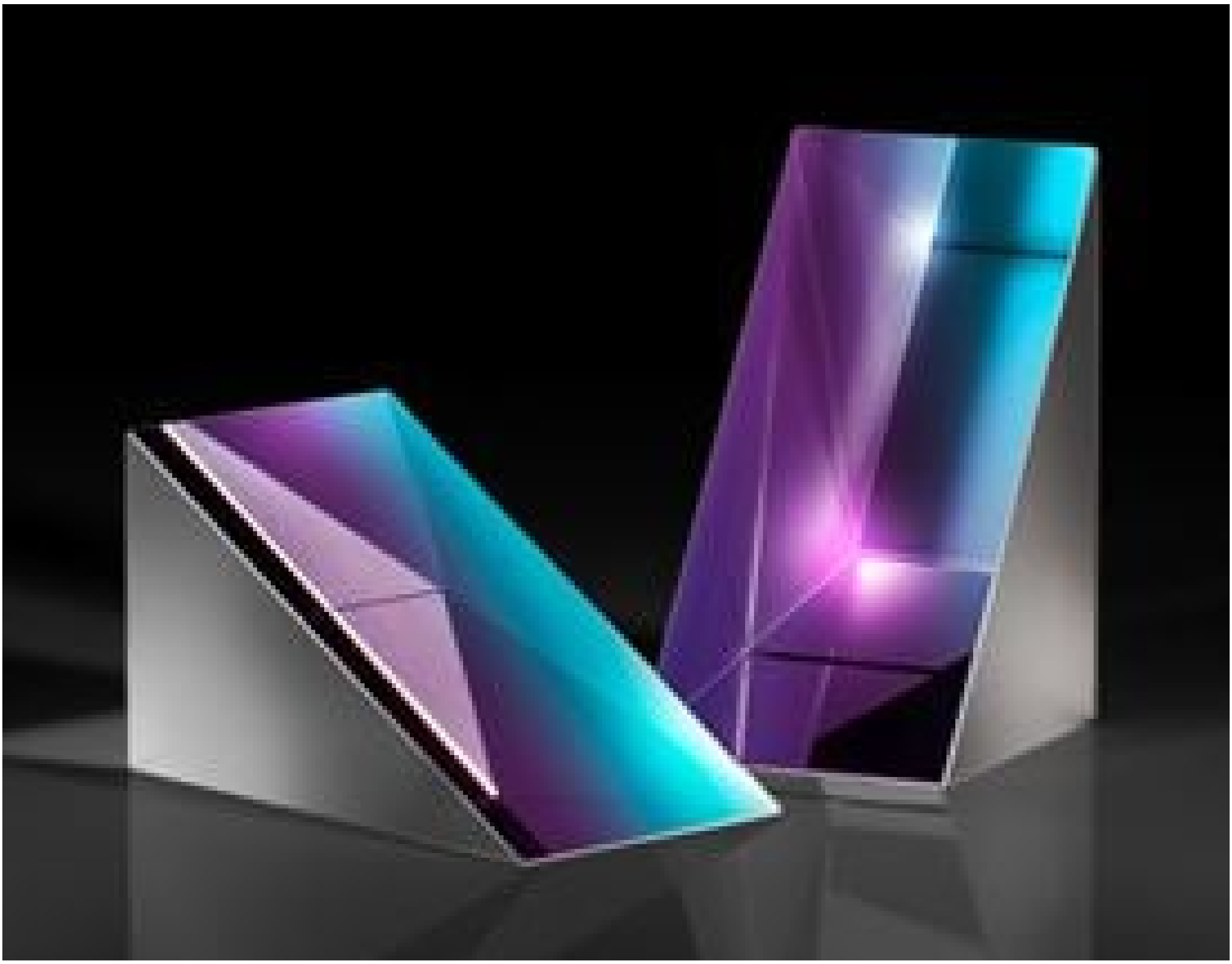
# TECHSPEC® 22mm Uncoated, Littrow Dispersion Prism



30° - 60° - 90° Littrow Dispersion Prisms

Stock **#43-649** **20+ In Stock**

- 1 +  **MRP ₹8,020**

Price inclusive of all taxes

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| Volume Pricing | |
|---|---|
| Qty 1-5 | **₹8,020** each |
| Qty 6-25 | **₹6,406** each |
| Qty 26-49 | **₹6,017** each |
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## General

**Type:**

Littrow Prism

## Physical & Mechanical Properties

**Length (mm):**

22.00

**Dimensional Tolerance (mm):**

±0.13

**Bevel:**

Protective as needed

## Optical Properties

**Coating:**

Uncoated

**Substrate:**

N-BK7

**Surface Quality:**

80-50

**Angle Tolerance (arcmin):**

±10

**Image Orientation:**

Right-Handed

**Ray Deviation (°):**

60

**Wavelength Range (nm):**

350 - 2200

**Power (fringes) @ 632.8nm:**

3.00

**Irregularity (fringes) @ 632.8nm:**

1.00

## Regulatory Compliance

**REACH 201:**

Compliant

**Certificate of Conformance:**

View

**Country of Origin:**

Singapore

**Imported By:**

Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

# Product Details

- Ray Deviation of 60° If Coated
- Ideal as a Dispersion Prism if Uncoated
- Right Handed Image

TECHSPEC® 30° - 60° - 90° Littrow Dispersion Prisms can be used for a variety of applications. Uncoated littrow dispersion prisms are used to disperse light into its component spectrum. Coated littrow dispersion prisms are used to deviate the line of sight by 60°. TECHSPEC® 30° - 60° - 90° Littrow Dispersion Prisms feature 30°, 60°, and 90° angles, and depending on whether the B-C surface is uncoated or coated, are commonly used as dispersion or beam deviation prisms. They are comprised of a N-BK7 substrate and create a right-handed image.

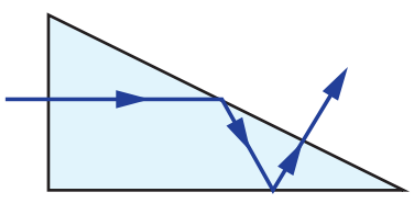
### Dispersion Prisms (Uncoated)

Collimated white light enters into the A-C surface of the prism, is reflected at the hypotenuse surface, and then dispersed into its component spectrum at the B-C surface. Although Littrow prisms produce narrower dispersion than equilateral prisms, Littrow prisms are typically less expensive.

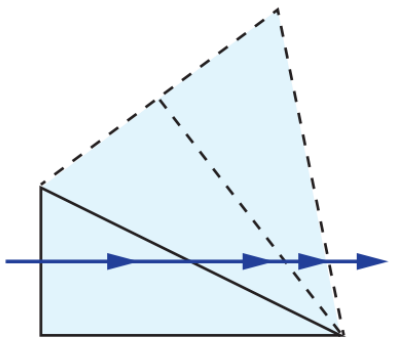
### Beam Deviation Prisms (Coated)

Incident light enters into the aluminum coated B-C surface of the prism at the nominal angle and returns back using the same path. In spectrum dispersion applications utilizing white light, the resolution performance of Littrow prisms is equal to equilateral prisms since the optical path length through the glass substrate is the same distance round-trip. Additionally, light entered into the A-C surface will reflect twice inside the glass substrate before being emitted through the hypotenuse surface at 60°.

# Technical Information

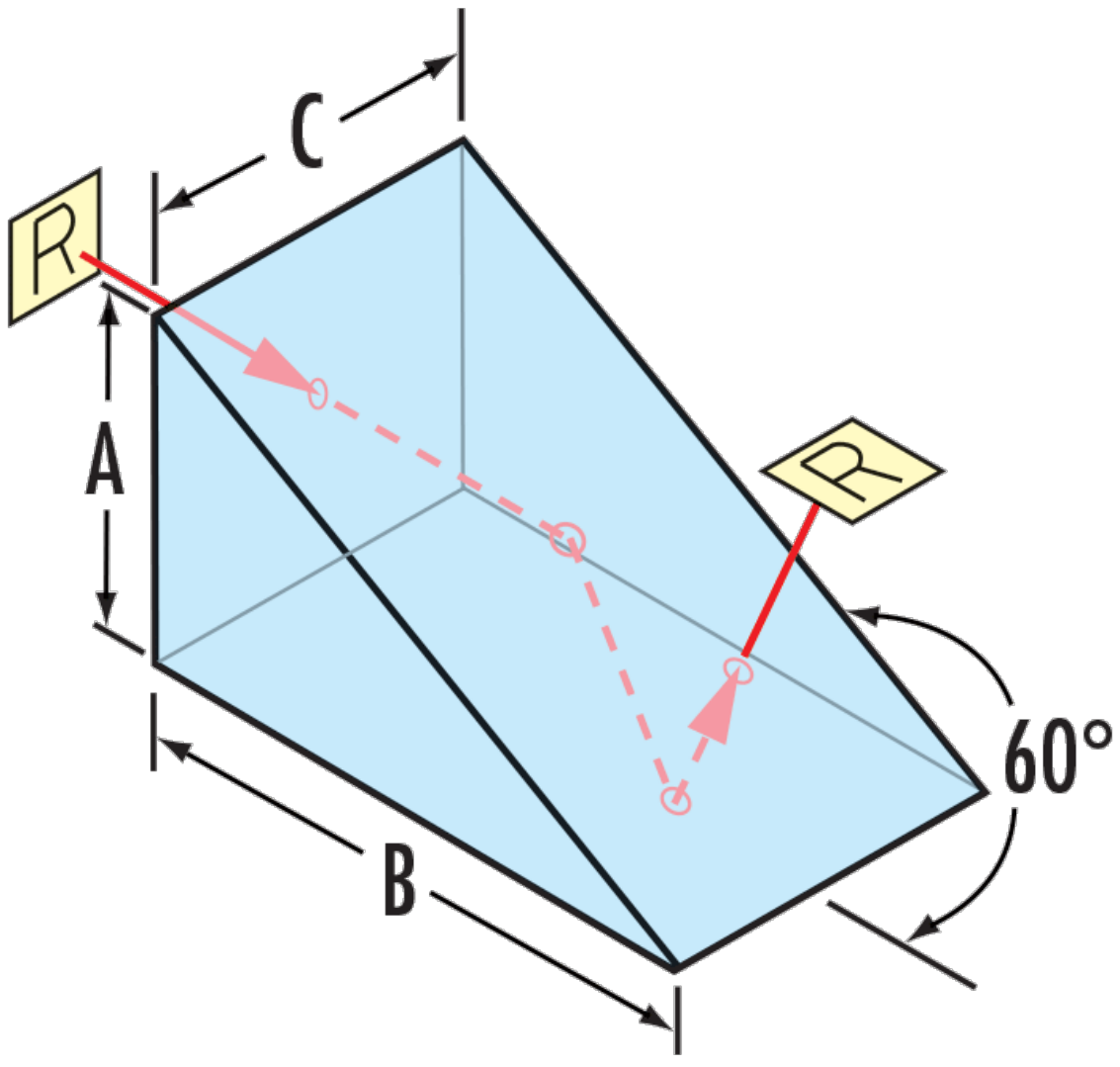


*Littrow Dispersion Prism Ray Path*



*Littrow Dispersion Prism Tunnel Diagram*

| | | | |
|---|---|---|---|
| **Stock No.** | **A** | **B** | **C** |
| **#43-648** | 12.7mm | 21.9mm | 12.7mm |
| **#43-672** | | | |
| **#43-649** | 22mm | 38.11mm | 22mm |
| **#43-673** | | | |

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