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**TECHSPEC® NIR I Coated, Unmounted Anamorphic Prism Pair**



#47-244 NIR I Coated, Unmounted Anamorphic Prism Pair

Stock **#47-244** 1 In Stock

⊖ 1 ⊕ €195<sup>00</sup>

**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €195,00 each                  |
| Qty 6-25       | €176,00 each                  |
| Qty 26-49      | €157,00 each                  |
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Beam Shaping **Type:**

**Physical & Mechanical Properties**

+0.00/-0.10 **Dimensional Tolerance (mm):**

## Optical Properties

NIR I (600-1050nm)

Coating:

[N-SF11](#)

Substrate:

Magnification:  
2X-6X (Depends on Mounting Configuration)

Surface Quality:  
20-10

Angle Tolerance (arcmin):  
3

Coating Specification:  
 $R_{avg} \leq 0.5\%$  @ 600 - 1050nm

Wavelength Range (nm):  
600 - 1050

Damage Threshold, By Design:   
7 J/cm<sup>2</sup> @ 1064nm, 10ns

Power (fringes) @ 632.8nm:  
3.00

Irregularity (fringes) @ 632.8nm:  
1.00

## Threading & Mounting

Unmounted

Mount:

## Regulatory Compliance

[View](#)

Certificate of Conformance:

## Product Details

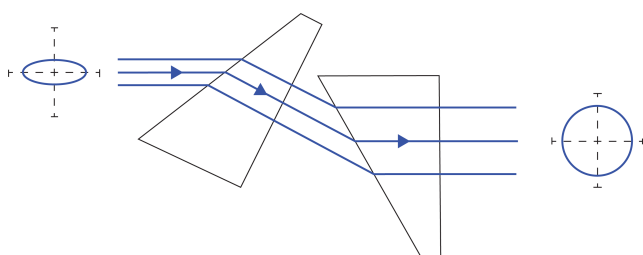
- Converts Elliptical Beam to Circular
- Anti-Reflection Coated for Common Diode Wavelengths
- Mounted and Unmounted Versions Available

An anamorphic prism pair is used to expand a laser beam in one dimension. This makes it ideal for converting the elliptical beam shape of laser diodes into a nearly circular one. Mounting our unmounted anamorphic prism pair in the proper orientation will provide magnification ratios from 2:1 - 6:1. Designed at 650nm and broadband anti-reflection (BBAR) coated for 600 – 1050nm, it provides excellent performance at both 635nm and 670nm.

The center of the output beam is displaced 5.9mm from center of the input beam in our mounted anamorphic prism pair. The Dovetail Accessory Mount allows it to rotate with respect to the laser, simplifying bench-top mounting. The C-Accessory Mount allows our full line of [C-Mount components](#) to be used in conjunction with the mounted anamorphic prism pair.

**LASER OPTICS** MADE BY EDMUND OPTICS® [LEARN MORE](#)

## Technical Information

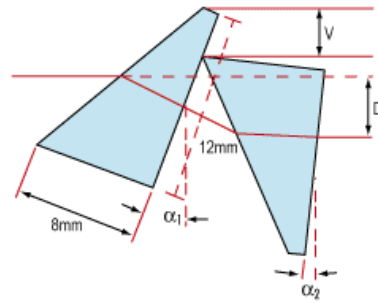


Ray path for anamorphic prism pairs, showing transformation of elliptical beam to circular beam

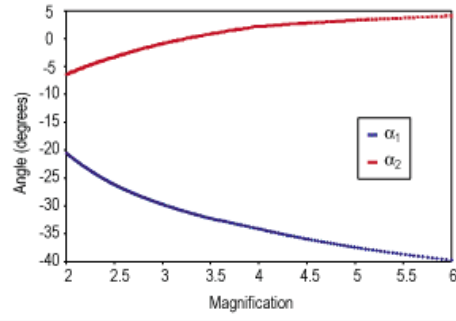
### Typical Values

| Magnification | $\alpha 1$ | $\alpha 2$ | Vertical Separation (V) | Beam Displacement (D) |
|---------------|------------|------------|-------------------------|-----------------------|
| 2X            | -20.6°     | -6.5°      | 1.75mm                  | 4.50mm                |
| 3X            | -29.7°     | -0.9°      | 2.56mm                  | 5.45mm                |
| 4X            | -34.1°     | 2.1°       | 3.01mm                  | 5.74mm                |
| 5X            | -37.4°     | 3.2°       | 3.33mm                  | 6.15mm                |
| 6X            | -39.7°     | 4.0°       | 3.51mm                  | 6.42mm                |

### Anamorphic Prism Pair



### Magnification vs. Prism Angles



### Beam Expander Mounting Configurations.

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