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TECHSPEC® 1X-8X Magnification, NIR I Coated, Adjustable Mounted Anamorphic Prism Pair



1X-8X Magnification, NIR I Coated, Adjustable Mounted Anamorphic Prism Pair

Stock **#34-553** **5 In Stock**

⊖ 1 ⊕ €539⁰⁰

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Volume Pricing	
Qty 1-5	€539,00 each
Qty 6-25	€431,00 each
Qty 26-49	€405,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Beam Shaping **Type:**

Physical & Mechanical Properties

52 x 27.7 x 35.6 **Dimensions (mm):**

Optical Properties

NIR I (600-1050nm)

Coating:

N-SF11

Substrate:

Magnification:
1X-8X (with 1mm Dia. Minor Axis Input Beam)

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/cm² @ 1064nm, 10ns

Power (fringes) @ 632.8nm:
3.00

Irregularity (fringes) @ 632.8nm:
1.00

Threading & Mounting

Mounted (Adjustable Magnification) Mount:

Regulatory Compliance

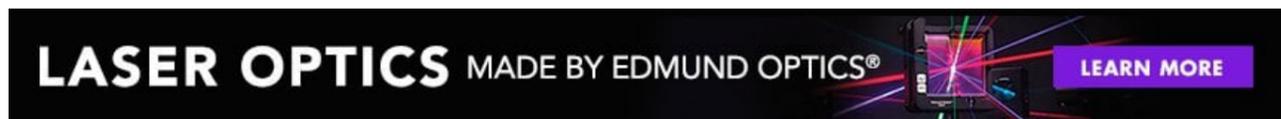
View Certificate of Conformance:

Product Details

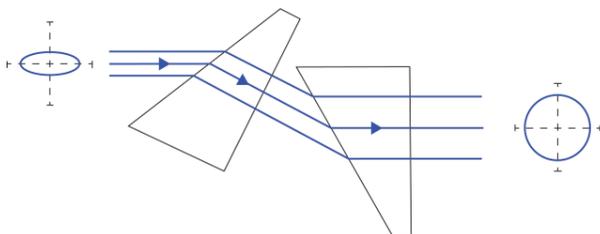
- Converts Elliptical Beam to Circular
- Anti-Reflection Coated for Common Diode Wavelengths
- Mounted and Unmounted Versions Available

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.

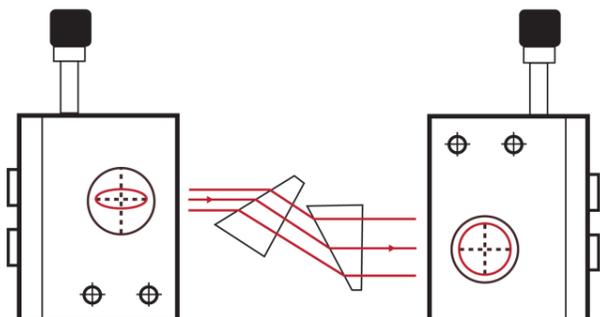
The center of the output beam is displaced 5.9mm from center of the input beam in our mounted anamorphic prism pair. The Dovetail Accessory Mount allows it to rotate with respect to the laser, simplifying bench-top mounting. The C-Accessory Mount allows our full line of [C-Mount components](#) to be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



Technical Information



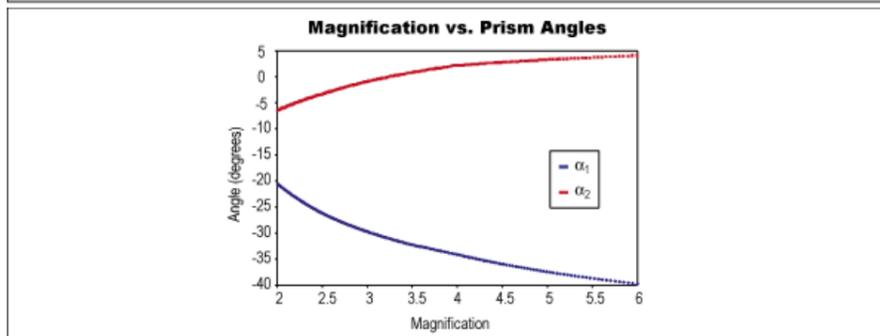
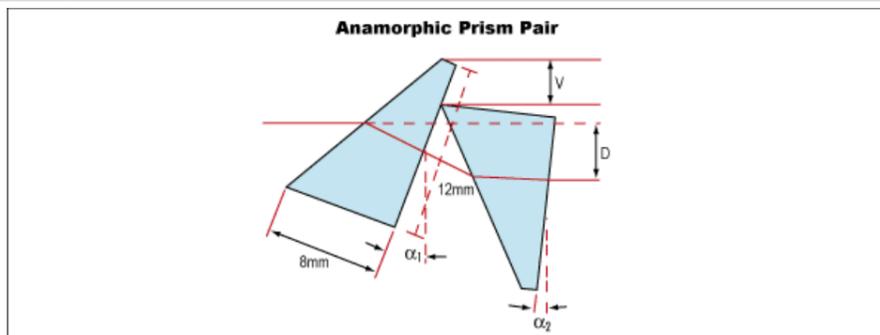
Ray path for anamorphic prism pairs, showing transformation of elliptical beam to circular beam



Ray path for mounted variable magnification anamorphic prism pairs, showing entrance and exit apertures on the housing

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



Beam Expander Mounting Configurations.

Click on an item below to be brought to that item's product page.

