

TECHSPEC®

4X, 355nm Scorpii® Nd:YAG Beam Expander



4X, 355nm LChT Fixed YAG Beam Expander, #37-052

Stock **#37-052** 3 In Stock

-

1

+

€206<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | €206,00 each                  |
| Qty 10-24      | €185,00 each                  |
| Qty 25-99      | €163,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

**i** Prices shown are exclusive of VAT/local taxes

Product Downloads

| General             |        |
|---------------------|--------|
| Beam Expander       | Type:  |
| Fixed Magnification | Style: |

| Physical & Mechanical Properties |              |
|----------------------------------|--------------|
|                                  | Length (mm): |

|                                                                                                     |                             |
|-----------------------------------------------------------------------------------------------------|-----------------------------|
| 56.60                                                                                               |                             |
| 103                                                                                                 | Weight (g):                 |
| 29.95                                                                                               | Housing Diameter (mm):      |
| Optical Properties                                                                                  |                             |
| 3.5                                                                                                 | Entrance Aperture (mm):     |
| 8                                                                                                   | Exit Aperture (mm):         |
| 4X                                                                                                  | Expansion Power:            |
| Optical Glass                                                                                       | Substrate: □                |
| >91 (nominal)                                                                                       | Transmission (%):           |
| 0                                                                                                   | Angle of Incidence (°):     |
| MgF <sub>2</sub> (400-700nm) & VIS-EXT (350-700nm)                                                  | Coating:                    |
| 355                                                                                                 | Design Wavelength DWL (nm): |
| <λ/4 @ 355nm for Input Beam ≤1.7mm (by design)                                                      | Transmitted Wavefront, P-V: |
| 355                                                                                                 | Wavelength Range (nm):      |
| Element 1: R <sub>avg</sub> ≤1.75% @ 400 - 700nm<br>Element 2: R <sub>avg</sub> ≤0.5% @ 350 - 700nm | Coating Specification:      |
| None                                                                                                | Divergence Adjustment:      |
| Threading & Mounting                                                                                |                             |
| M22 x0.75                                                                                           | Mounting Threads:           |
| Regulatory Compliance                                                                               |                             |
| Compliant                                                                                           | RoHS 2015:                  |
| View                                                                                                | Certificate of Conformance: |

## Product Details

- AR Coated for Nd:YAG Laser Wavelengths: 355nm, 532nm, and 1064nm
- Fixed Magnifications Available from 2X to 10X
- Designed for OEM Integration without Divergence Adjustment

TECHSPEC® Scorpii® Nd:YAG Beam Expanders are designed for beam expansion applications such as laser engraving and material processing. These beam expanders feature AR coatings and high transmissions. AR coated for the Nd:YAG laser wavelengths 355nm, 532nm, and 1064nm, these beam expanders are available in multiple fixed magnifications from 2X to 10X with M22 x0.75 threading. TECHSPEC Scorpii Nd:YAG Beam Expanders are a cost-effective solution for system integration. Ideal for OEM quantities, these beam expanders can quickly meet prototyping and application timelines.

TECHSPEC Scorpii® Nd:YAG Beam Expander Kits are also available. For HeNe laser applications, TECHSPEC Arcturus® HeNe Beam Expanders are available. For applications where rotating optics are acceptable, the TECHSPEC Vega® Laser Line Beam Expanders and TECHSPEC Vega® Broadband Beam Expanders are available. For higher precision applications where sliding optics are necessary, please see our TECHSPEC Draconis® Nd:YAG Laser Line Beam Expanders or TECHSPEC Draconis® Broadband Beam Expanders. For broadband or ultrafast applications, TECHSPEC Canopus® Reflective Beam Expanders are available.

532nm versions are compatible with popular 530nm laser applications, and 1064nm versions are ideal for use with laser applications at 1060nm, 1070nm, and 1075nm.



## 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](#).

