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TECHSPEC®

3X, 355nm ScorpII® Nd:YAG Beam Expander



3X, 355nm LChT Fixed YAG Beam Expander, #37-049

Stock **#37-049** 5 In Stock

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1

+

₹17,100

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | ₹17,100 each                  |
| Qty 10-24      | ₹15,300 each                  |
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Product Downloads

| General                          |              |
|----------------------------------|--------------|
| Beam Expander                    | Type:        |
| Fixed Magnification              | Style:       |
| Physical & Mechanical Properties |              |
| 33.20                            | Length (mm): |

|                                                                                                     |                                     |
|-----------------------------------------------------------------------------------------------------|-------------------------------------|
| 56                                                                                                  | Weight (g):                         |
| 29.95                                                                                               | Housing Diameter (mm):              |
| Optical Properties                                                                                  |                                     |
| 3.7                                                                                                 | Entrance Aperture (mm):             |
| 12                                                                                                  | Exit Aperture (mm):                 |
| 3X                                                                                                  | Expansion Power:                    |
| Optical Glass                                                                                       | Substrate: <input type="checkbox"/> |
| >91 (nominal)                                                                                       | Transmission (%):                   |
| 0                                                                                                   | Angle of Incidence (°):             |
| MgF <sub>2</sub> (400-700nm) & MS-EXT (350-700nm)                                                   | Coating:                            |
| 355                                                                                                 | Design Wavelength DWL (nm):         |
| <λ/4 @ 355nm for Input Beam ≤2.1mm (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 x 0.75           | Mounting Threads: |

|                                     |                             |
|-------------------------------------|-----------------------------|
| Regulatory Compliance               |                             |
| Compliant                           | RoHS 2015:                  |
| View                                | Certificate of Conformance: |
| China                               | Country of Origin:          |
| Edmund Optics India Private Limited | Imported By:                |

## 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 x 0.75 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

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