

TECHSPEC<sup>®</sup> 5X, 1064nm Scorpii<sup>®</sup> Nd:YAG Beam Expander



5X, 1064nm LCht Fixed YAG Beam Expander, #37-057

Stock **#37-057** 2 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): |

|                                                                                                                        |                                     |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 53.10                                                                                                                  |                                     |
| 93                                                                                                                     | Weight (g):                         |
| 29.95                                                                                                                  | Housing Diameter (mm):              |
| Optical Properties                                                                                                     |                                     |
| 3.5                                                                                                                    | Entrance Aperture (mm):             |
| 10                                                                                                                     | Exit Aperture (mm):                 |
| 5X                                                                                                                     | Expansion Power:                    |
| Optical Glass                                                                                                          | Substrate: <input type="checkbox"/> |
| >96 (nominal)                                                                                                          | Transmission (%):                   |
| 0                                                                                                                      | Angle of Incidence (°):             |
| NIR II (750-1550nm)                                                                                                    | Coating:                            |
| 1064                                                                                                                   | Design Wavelength DWL (nm):         |
| <λ/4 @ 1064nm for Input Beam ≤1.7mm (by design)                                                                        | Transmitted Wavefront, P-V:         |
| 1064                                                                                                                   | Wavelength Range (nm):              |
| R <sub>abs</sub> ≤1.5% @ 750 - 800nm<br>R <sub>abs</sub> ≤1.0% @ 800 - 1550nm<br>R <sub>avg</sub> ≤0.7% @ 750 - 1550nm | 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](#).

