

TECHSPEC® 3X, 1064nm Draconis® Nd:YAG Laser Line Beam Expander



TECHSPEC® Draconis™ Nd:YAG Laser Line Beam Expanders

Stock **#59-128** 5 In Stock

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1

+

₹68,904

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SPECIFICATIONS

General

Beam Expander

Type:

Fixed Magnification

Style:

| Physical & Mechanical Properties                                                                            |                                 |
|-------------------------------------------------------------------------------------------------------------|---------------------------------|
| 88.00                                                                                                       | Length (mm):                    |
| 133                                                                                                         | Weight (g):                     |
| 46                                                                                                          | Housing Diameter (mm):          |
| Optical Properties                                                                                          |                                 |
| 0                                                                                                           | Angle of Incidence (°):         |
| Laser V-Coat (1064nm)                                                                                       | Coating:                        |
| 1064                                                                                                        | Design Wavelength DWL (nm):     |
| 11                                                                                                          | Entrance Aperture (mm):         |
| 33                                                                                                          | Exit Aperture (mm):             |
| 3X                                                                                                          | Expansion Power:                |
| 1.5m - ∞                                                                                                    | Focus Range (mm):               |
| Fused Silica (Corning 7980)                                                                                 | Substrate: <input type="text"/> |
| Transmitted Wavefront, P-V:<br>λ/10 @ 1mm Input Beam, λ/4 @ 4mm Input Beam                                  |                                 |
| Coating Specification:<br>R <sub>abs</sub> <0.25% @ 1063 - 1065nm<br>R <sub>avg</sub> <0.5% @ 1030 - 1100nm |                                 |
| 1030 - 1100                                                                                                 | Wavelength Range (nm):          |
| Non-Rotating Optics                                                                                         | Divergence Adjustment:          |
| Threading & Mounting                                                                                        |                                 |
| Mounting Threads:<br>Input: Male C-Thread (1" x 32 TPI)<br>Output: Male T2-Thread (M42 x 0.75)              |                                 |
| Regulatory Compliance                                                                                       |                                 |
| <a href="#">View</a>                                                                                        | Certificate of Conformance:     |

## PRODUCT DETAILS

- AR Coated for Nd:YAG Laser Wavelengths: 532nm and 1064nm
- Fixed Magnifications Available from 3X to 10X
- Divergence Adjustable through Non-Rotating Optical Design for Reduced Beam Wander

TECHSPEC® Draconis® Nd:YAG Laser Line Beam Expanders feature high performance optical designs that have been optimized and tested for Nd:YAG laser wavelengths. These beam expanders offer diffraction-limited performance over large input beam diameters and wide acceptance angles, eliminating the need for critical alignment. Mechanical adjustment through a sliding optical design corrects errors in divergence or collimation. Due to the lack of ghost images focusing on internal surfaces, these beam expanders ensure compatibility with high power lasers. TECHSPEC Draconis Nd:YAG Laser Line Beam Expanders' C and T input/output mounting threads are compatible with Edmund Optics' line of threaded mounting components, or mounting can be achieved using an optional mounting clamp. Laser Beam Expanders are ideal for any Nd:YAG application including laser cutting, welding, or marking.

TECHSPEC Draconis® Broadband Beam Expanders are also available For more cost sensitive applications, Edmund Optics also offers TECHSPEC Scorpii® Nd:YAG Beam Expanders. 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 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](#).

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