See all 12 Products in Family

TECHSPEC® 10X, 1064nm Draconis® Nd:YAG Laser Line Beam Expander

TECHSPEC® Draconis™ Nd:YAG Laser Line Beam Expanders

Stock **#59-130** **1 In Stock**

- 1 + **S$1,247**.00

ADD TO CART

Volume Pricing	
Qty 1-4	**S$1,247.00** each
Qty 5-24	**S$1,095.00** each
Qty 25-99	**S$972.00** each
Need More?	Request Quote

Product Downloads

General

Type:
Beam Expander

Style:
Fixed Magnification

Physical & Mechanical Properties

Length (mm):
98.00

Weight (g):
149

Housing Diameter (mm):
46

Optical Properties

Entrance Aperture (mm):
8

Exit Aperture (mm):
33

Expansion Power:
10X

Focus Range (mm):
1.5m - ∞

Substrate:
Fused Silica (Corning 7980)

Angle of Incidence (°):
0

Coating:
Laser V-Coat (1064nm)

Design Wavelength DWL (nm):
1064

Transmitted Wavefront, P-V:
λ/10 @ 1mm Input Beam, λ/4 @ 3mm Input Beam

Wavelength Range (nm):
1030 - 1100

Coating Specification:
R_{abs} <0.25% @ 1063 - 1065nm
R_{avg} <0.5% @ 1030 - 1100nm

Divergence Adjustment:
Non-Rotating Optics

Threading & Mounting

Mounting Threads:
Input: Male C-Thread (1" x 32 TPI)
Output: Male T2-Thread (M42 x 0.75)

Regulatory Compliance

Certificate of Conformance:
View

Need different specs or modifications?

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.

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.

;