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TECHSPEC® 2X, 355nm Scorpii® Nd:YAG Beam Expander



2X, 355nm LChT Fixed YAG Beam Expander, #37-046

Stock **#37-046** **6 In Stock**

⊖ 1 ⊕ £164⁰⁰

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Volume Pricing	
Qty 1-9	£164.80 each
Qty 10-24	£148.00 each
Qty 25-99	£130.40 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Beam Expander **Type:**

Fixed Magnification **Style:**

Physical & Mechanical Properties

Length (mm):

16.40

Weight (g):

33

Housing Diameter (mm):

29.95

Optical Properties

Entrance Aperture (mm):

3.5

Exit Aperture (mm):

5.2

Expansion Power:

2X

Substrate: □

Optical Glass

Transmission (%):

>91 (nominal)

Angle of Incidence (°):

0

Coating:

MgF₂ (400-700nm) & MS-EXT (350-700nm)

Design Wavelength DWL (nm):

355

Transmitted Wavefront, P-V:

<λ/4 @ 355nm for Input Beam ≤2.2mm (by design)

Wavelength Range (nm):

355

Coating Specification:

Element 1: R_{avg} ≤1.75% @ 400 - 700nm

Element 2: R_{avg} ≤0.5% @ 350 - 700nm

Divergence Adjustment:

None

Threading & Mounting

Mounting Threads:

M22 x0.75

Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

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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: 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.



