

TECHSPEC® 4X, 355nm Scorpii® Nd:YAG Beam Expander



4X, 355nm LChT Fixed YAG Beam Expander, #37-052

Stock #37-052 **1 In Stock**

1

C\$288^{.40}

ADD TO CART

Volume Pricing	
Qty 1-9	C\$288.40 each
Qty 10-24	C\$259.00 each
Qty 25-99	C\$228.20 each
Need More?	Request Quote

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
Spec Sheets:pdf	Zemax:zar
eDrawing:eprt	Code V:seq
EO Spec Sheet	Download All

General

Type: Beam Expander

Style: Fixed Magnification

Physical & Mechanical Properties

Length (mm): 56.60

Weight (g): 103

Housing Diameter (mm): 29.95

Optical Properties

Entrance Aperture (mm): 3.5

Exit Aperture (mm): 8

Expansion Power: 4X

Substrate: Optical Glass

Transmission (%): >91 (nominal)

Angle of Incidence (°): 0

Coating: MgF₂ (400-700nm) & VIS-EXT (350-700nm)

Design Wavelength DWL (nm): 355

Transmitted Wavefront, P-V: $\lambda/4$ @ 355nm for Input Beam $\leq 1.7\text{mm}$ (by design)

Wavelength Range (nm): 355

Coating Specification: Element 1: R_{avg} $\leq 1.75\%$ @ 400 - 700nm
Element 2: R_{avg} $\leq 0.5\%$ @ 350 - 700nm

Divergence Adjustment: None

Threading & Mounting

Mounting Threads: M22 x 0.75

Regulatory Compliance

RoHS 2015: **Compliant**

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: 355nm, 532nm, and 1064nm
- Fixed Magnifications Available from 2X to 10X
- Designed for OEM Integration without Divergence Adjustment

TECHSPEC® Scorpil® 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 Scorpil 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 Scorpil® 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.



Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	1064nm Scorpil® Nd:YAG Beam Expander Kit		#39-056	C\$1,309.00 Volume Pricing Request Quote	2 In Stock <input type="text" value="1"/>
MORE+	532nm Scorpil® Nd:YAG Beam Expander Kit		#39-055	C\$1,309.00 Volume Pricing Request Quote	1 In Stock <input type="text" value="1"/>
MORE+	355nm Scorpil® Nd:YAG Beam Expander Kit		#39-054	C\$1,309.00 Volume Pricing Request Quote	1 In Stock <input type="text" value="1"/>
MORE+	C-Mount Male to M22 x 0.75 Female Step-Down Adapter		#34-770	C\$76.30 Volume Pricing Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	M30 x 1.0 Male to M22 x 0.75 Female Step-Down Adapter		#34-771	C\$76.30 Volume Pricing Request Quote	20+ In Stock <input type="text" value="1"/>

▲	Title	Compare	Stock Number	Price	Buy
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MORE+

M16 x 0.5 Male to M22 x 0.75 Female Step Up Adapter

#35-436

C\$76.30
Volume Pricing | Request Quote

20+ In Stock 1



Related Products



#39-054 - 355nm Scorpil® Nd:YAG Beam Expander Kit
C\$1,309.00

Qty



#34-770 - C-Mount Male to M22 x 0.75 Female Step-Down Adapter
C\$76.30

Qty



#37-055 - 5X, 355nm Scorpil® Nd:YAG Beam Expander
C\$288.40

Qty



#37-049 - 3X, 355nm Scorpil® Nd:YAG Beam Expander
C\$288.40

Qty

Frequently Purchased Together



#34-474 - 25 x 25mm White Diffusing Glass
C\$50.40

Qty



#34-476 - 50 x 50mm White Diffusing Glass
C\$63.35

Qty



#34-770 - C-Mount Male to M22 x 0.75 Female Step-Down Adapter
C\$76.30

Qty



#45-303 - 12.0mm Dia. x 15.0mm FL, MgF₂ Coated, Plano-Convex Lens
C\$58.10

Qty

Resources

Media Type

- Application Note
- Technical Tool
- Video
- Published Article
- FAQ
- Glossary
- Scientific Paper

APPLICATION NOTE

Anti-Reflection (AR) Coatings

TECHNICAL TOOL

Gaussian Beams Calculator

APPLICATION NOTE

Gaussian Beam Propagation

APPLICATION NOTE

Advantages of Using Beam Expanders

APPLICATION NOTE

Rotating vs. Sliding Beam Expander Divergence

APPLICATION NOTE

The Unintuitive Balancing Act of Beam Expander



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