

TECHSPEC®

Broadband VIS 2X - 8X Research-Grade Variable Beam Expander



Broadband VIS 2X - 8X, #87-569

Stock **#87-569**

CONTACT US

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+

₹1,17,211

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Volume Pricing	
Qty 1-4	₹1,17,211 each
Qty 5+	₹1,03,900 each
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General

Beam Expander

Type:

Variable Magnification

Style:

Physical & Mechanical Properties

169.00

Length (mm):

Weight (g):

501	
51	Housing Diameter (mm):
Optical Properties	
15	Entrance Aperture (mm):
30	Exit Aperture (mm):
2X - 8X	Expansion Power:
Fused Silica (Corning 7980)	Substrate: ☐
>95 @ DWL	Transmission (%):
0 ±0.06	Angle of Incidence (°):
BBAR (425-700nm)	Coating:
Broadband	Design Wavelength DWL (nm):
Transmitted Wavefront, P-V: <λ/4 @ 633nm for Input Beam ≤4mm (2X-6X) <λ/4 @ 633nm for Input Beam ≤2mm (>6X)	
425 - 700	Wavelength Range (nm):
R _{avg} <1.0% @ 425 - 700nm	Coating Specification:
5 J/cm ² (>3X), 3 J/cm ² (2X - 3X) @ 633nm, 10ns, 20Hz	Damage Threshold, By Design: ☐
Non-Rotating Optics	Divergence Adjustment:
5 J/cm ² (>3X), 3 J/cm ² (2X - 3X) @ 633nm, 10ns, 20Hz	Damage Threshold, Pulsed:
Threading & Mounting	
Input: Male C-Thread (1" x 32 TPI) Output: Male T-Thread (M42 x 0.75)	Mounting Threads:
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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

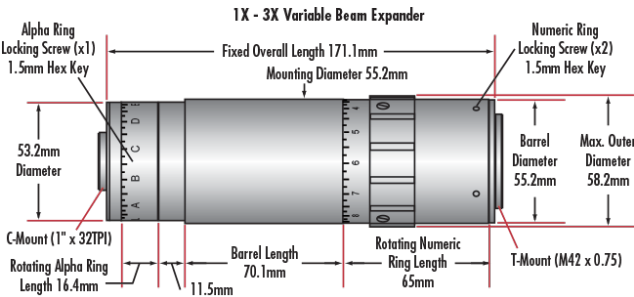
For optimal performance, center the laser beam to the entrance lens and ensure that the beam is parallel to the beam expander’s optical axis.

- 1X– 3X and 2X– 8X Variable Magnification
- Non-Rotating Lenses Minimize Beam Wander
- Compact Galilean Designs with Fixed Housing Length
- **TECHSPEC® Draconis® Broadband Beam Expanders** Also Available

TECHSPEC® Research-Grade Variable Beam Expanders (RVBX) are ideal for high power laser applications where magnification changes may be required, such as prototyping or R&D. TECHSPEC Research-Grade Variable Beam Expanders feature λ/4 transmitted wavefront, Galilean designs, and high laser damage threshold AR coatings to ensure maximum transmittance while minimizing ghost reflections. Additionally, these beam expanders use internal translation and focusing mechanisms to variable adjust magnification and laser divergence without affecting overall housing length. This compact design removes the need to make system accommodations for changes in length and eases system integration.



Technical Information



Design Wavelength	Stock No.	Fixed Overall Length A (mm)	Mounting Length E (mm)	Rotating Numeric Ring Length F (mm)	Rotating Alpha Ring Length G (mm)
355nm	#87-566	169.7	35.9	90.7	19.4
532nm	#87-567	169.3	31.5	70.4	43.7
Broadband VIS (633nm)	#87-569	169.3	31.5	70.4	43.7
Broadband NIR (785nm)	#87-570	169.3	31.5	70.4	43.7
1064nm	#87-568	169.3	31.5	70.4	43.7

