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TECHSPEC® 355nm 2X - 8X Research-Grade Variable Beam Expander



355nm 2X - 8X Variable Beam Expander, #87-566

Stock **#87-566** CLEARANCE **2 In Stock**

⊖ 1 ⊕ ₹1,07,100

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General

Beam Expander **Type:**

Variable Magnification **Style:**

Physical & Mechanical Properties

169.00 **Length (mm):**

501 **Weight (g):**

51 **Housing Diameter (mm):**

Optical Properties

15 **Entrance Aperture (mm):**

30 **Exit Aperture (mm):**

2X - 8X **Expansion Power:**

Fused Silica (Coming 7980) **Substrate:**

>95 @ DWL **Transmission (%):**

0 ±0.06 **Angle of Incidence (°):**

Laser V-Coat (266nm, 355nm) **Coating:**

355 **Design Wavelength DWL (nm):**

Transmitted Wavefront, P-V:
<N4 for Input Beam ≤4mm (2X-6X)
<N4 for Input Beam ≤2mm (>6X)

260 - 365 **Wavelength Range (nm):**

Coating Specification:
R_{abs} <0.25% @ 265 - 267nm
R_{abs} <0.25% @ 354 - 356nm
R_{avg} <1.0% @ 260 - 365nm

1 J/cm² @ 10ns, 20Hz, 355nm **Damage Threshold, By Design:**

Non-Rotating Optics **Divergence Adjustment:**

1 J/cm² @ 355nm, 10ns, 20Hz **Damage Threshold, Pulsed:**

Threading & Mounting

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

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](#).

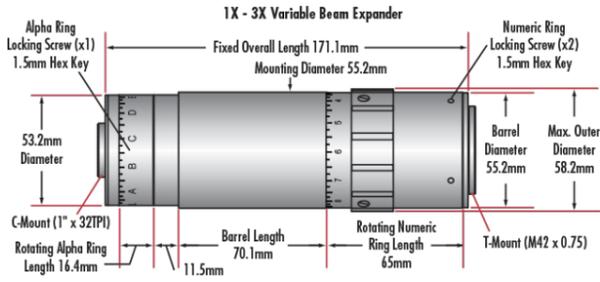
Product Details

- 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 N4 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.

TECHSPEC Research-Grade Variable Beam Expanders can be used to determine a system's required beam magnification in the prototyping phase of development. **TECHSPEC® Draconis® Broadband Beam Expanders** are available for production or OEM implementation. Please contact our [Sales Department](#) for custom magnification requirements.

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

2X - 8X Variable Beam Expander

