

TECHSPEC® 1064nm 2X – 8X Gemma® Variable Beam Expander



Stock #15-544 **5 In Stock**

A\$2,492⁰⁰

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Volume Pricing	
Qty 1-4	A\$2,492.00 each
Qty 5-24	A\$2,204.00 each
Qty 25-99	A\$1,937.00 each
Need More?	Request Quote

Product Downloads

General

Beam Expander Type:
Variable Magnification Style:

Physical & Mechanical Properties

157.50 (without end caps) Length (mm):

484	Weight (g):
48	Housing Diameter (mm):
<1	Pointing Accuracy (mrad):
Optical Properties	
14.5	Entrance Aperture (mm):
30	Exit Aperture (mm):
2X - 8X	Expansion Power:
Fused Silica (Corning 7980)	Substrate: <input type="checkbox"/>
>97.5 @ DWL	Transmission (%):
Laser V-Coat (1064nm)	Coating:
1064	Design Wavelength DWL (nm):
<N10 for Input Beam 3.5mm (2X-6X) <N10 for Input Beam 2mm (2X-8X)	Transmitted Wavefront, P-V:
1030 - 1100	Wavelength Range (nm):
R _{abs} <0.25% @ 1063 - 1065nm R _{avg} <0.5% @ 1030 - 1100nm	Coating Specification:
10 J/cm ² (>3X), 5 J/cm ² (2-3X) @ 1064nm, 10ns, 20Hz	Damage Threshold, By Design: <input type="checkbox"/>
Non-Rotating Optics	Divergence Adjustment:
10 J/cm ² (>3X), 5 J/cm ² (2-3X) @ 1064nm, 10ns, 20Hz	Damage Threshold, Pulsed:

Threading & Mounting	
Input: Male M30 x 1.0 Output: Female M42 x 0.5	Mounting Threads:

Regulatory Compliance	
View	Certificate of Conformance:

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

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

TECHSPEC® Gemma® Variable Beam Expanders are ideal for high power laser applications where magnification changes may be required, such as prototyping or R&D. TECHSPEC Variable Beam Expanders feature M4 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 continuously adjust magnification and laser divergence without affecting overall housing length. TECHSPEC® Gemma® Variable Beam Expander allow for continuous magnification change over the full magnification range.

TECHSPEC® Gemma® 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.