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355nm, 2X - 10X Jenoptik Variable Beam Expander

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General

Type:
Beam Expander

Style:
Variable Magnification

Physical & Mechanical Properties

Length (mm):
159.00

Weight (g):

230

Housing Diameter (mm):

37.6

Optical Properties

Entrance Aperture (mm):

6.0 - 2.2 (2X - 10X)

Expansion Power:

2X - 10X

Substrate:

Entrance: Fused Silica
Exit: Fused Silica

Transmission (%):

≥96

Design Wavelength DWL (nm):

355

Damage Threshold, Reference:

CW: 0.10 MW/cm²
Pulsed (ns): 0.10 J/cm²

GDD Specification (fs²):

1640

Regulatory Compliance

Certificate of Conformance:

View

Product Details

- Ideal for High-Power and Ultrashort Pulse Systems
- Continuous Magnifications Ranges from 1X to 10X
- Designed for Diffraction Limited Performance

Jenoptik Variable Magnification Beam Expanders provide excellent performance with high damage thresholds for the demanding requirements of laser materials processing. These beam expanders are coated to maximize transmission at common Nd:YAG and Fiber Laser Wavelengths, and are available in a variety of design forms and zoom ranges. The standard variable magnification beam expanders are available in a 1X to 4X or 2X to 10X configuration and features all fused silica optics, and designs for either 355nm, 515-540nm, or 1030-1080nm. The 1X to 4X steadfast versions are available in the same wavelength ranges and feature a mechanical design that guides the movable optical elements in a stable, linear manner to reduce the influences of vibrations or system accelerations. The Silverline™ series are designed for high performance and ensure diffraction-limited image quality over the entire 1X to 8X magnification range. Jenoptik Variable Magnification Beam Expanders are ideal for a range of high-power laser material processing applications including cutting, welding, and engraving for metals, polymers, or ceramics.

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