

# TECHSPEC® VEGA™ Nd:YAG LASER LINE BEAM EXPANDERS

355nm • 7X #35-109

- $\lambda/10$  Transmitted Wavefront Error
- Fused Silica Substrate Offers Excellent Price and Performance
- Divergence Adjustment to Compensate for Input Beam Divergence
- TECHSPEC® Vega™ Broadband Beam Expanders Also Available



TECHSPEC® Vega™ Nd:YAG Laser Line Beam Expanders are designed for demanding laser applications including laser materials processing, medical, and research. These compact beam expanders are optimized at Nd:YAG wavelengths for high performance transmitted wavefront, with most designs achieving better than  $\lambda/10$  transmitted wavefront error. TECHSPEC® Vega Nd:YAG Laser Line Beam Expanders easily mount with M30 x 1 threading and provide excellent value both for single unit purchases as well as volume integration.

For more cost sensitive applications that don't require divergence adjustment, see our Scorpii™ Nd:YAG Beam expanders. For applications that require sliding optics or larger input apertures, please see our Draconis™ Nd:YAG Laser Line Beam Expanders.

<b>Design Wavelength (DWL):</b>	355nm
<b>Magnification:</b>	7X
<b>Maximum Input Aperture:</b>	7.5mm
<b>Divergence Adjustable:</b>	Rotating Optics
<b>Maximum Output Aperture:</b>	30mm
<b>Length (With Threads):</b>	90mm
<b>Housing Outer Diameter:</b>	40mm
<b>Damage Threshold:</b>	2.5 J/cm <sup>2</sup> @ 10ns, 20Hz, 355nm
<b>Transmission @ DWL:</b>	>98.5% (nominal)
<b>Lens Material:</b>	Fused Silica 7980
<b>Coating:</b>	$R_{\text{obs}} < 0.25\%$ @ 355nm
<b>Mounting Thread:</b>	M30 x 1

