

VIS-NIR Beam Expanders

Specifications

- 2.5X, 3X, 5X, 10X, or 20X Beam Expansion
- Diverge, Collimate, or Focus a Beam
- Sliding Collimation Adjustment
- Best Form or Spherical Broadband AR-Coated Lenses
- Four Coating Ranges Available
- Damage Threshold: 100 W/cm² (50 W/cm² for -E)
- Removable Endcap Protects C-Mount Threading



The simple telescope body enables adjustment of the spacing between the lenses for focusing, collimating or diverging. In general, we can match any combination of our BestForm Lenses to meet a very wide variety of conditions and expansion ratios from 2.5X to 50X. The Lenses are multilayer antireflection coated for peak transmittance of >96% through the pair. We will specifically fabricate custom brackets or adapters to fit the telescope to existing apparatus as required.

In general, we can match any combination of our BestForm Lenses to meet a very wide variety of conditions and expansion ratios from 2.5X to 50X. The Lenses are multilayer. The EL-25-series and ELQ-25-SERIES Telescopes are 1.5" diameter x 4" long expanding to 7" long depending upon lens combinations required. Likewise, the EL-51-series and the ELQ-51-series are 2.5" diameter x 8" long expanding to 12" long.

Catalog Number	Expansion Ration	Max.Input Beam Dia*	Output Aperture
EL-25-2.5X-λ	2.5X	4 mm	22 mm
EL-25-5X-λ	5X	3 mm	22 mm
EL-25-10X-λ	10X	2 mm	22 mm
ELU-25-20X-λ	20X	1 mm	22 mm
EL-51-25X-λ	25X	1.5 mm	48 mm

λ: When ordering, specify wavelength for AR coatings.

*Exceeding "Maximum Input Beam Diameter" will increase wavefront distortion beyond λ/4.

Please contact Qbic Laser system Inc for Larger input beam diameter.

Laser	Bandwidth	Order as
Visible	425-675 nm	-VIS
Gas/Dye	550-780 nm	-VIR
NIR Diodes	750-950 nm	-NIR
IR Diodes	1250-1550 nm	-IR