

# LINOS Variable Beam Expanders

## Variable Magnification up to 2x ... 10x

LINOS beam expanders are optical systems for beam shaping used in laser material processing. Variable beam expanders can vary the diameter and divergence of a laser beam and allow optimisation of focus diameter, focus position and beam propagation.

### Features

- Continuous variation of magnification 2x...8x or 2x...10x
- Continuous variation of exit beam divergence
- Choice between quartz or glass entrance lens
- Wavelengths 355 nm, 532 nm, 633/780/830/980 nm or 1064 nm
- Precise scales allow reliable settings and high repeatability

### Technical Data

- Max. entrance-beam diameter 8 mm
- Max. exit-beam diameter 31 mm
- 4-lens-element designs
- Mounting diameter 37.6<sub>-0.01</sub> mm, reference on surface A



## LINOS Variable Beam Expander 2-8x

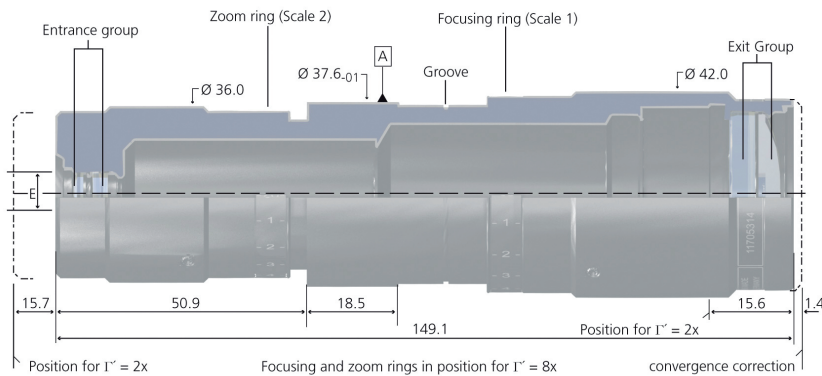
Wavelength (nm)	Max. entrance-beam diameter at $1/e^2$ (mm)	Entrance lens made of	Part No.
355	3.4	quartz	4401-402-000-20
532	4	quartz	4401-446-000-20
532	8	optical glass	4401-257-000-20
633/780/830/980	8	optical glass	4401-258-000-20
1064	4	quartz	4401-359-000-20
1064	8	optical glass	4401-256-000-20

## LINOS Variable Beam Expander 2-10x

Wavelength (nm)	Max. entrance-beam diameter at $1/e^2$ (mm)	Entrance lens made of	Part No.
1064	8	optical glass	4401-531-000-20

Entrance-beam diameter max. = 31 mm / zoom factor

Subject to technical changes



For technical information contact:

Qioptiq Photonics GmbH & Co. KG  
 lmp@qioptiq.de  
 phone +49 (0)551 6935-0  
 www.qioptiq.com

