

Beam Expanders



Features

- **Designed for diode lasers**
- **Large input aperture**
- **Wavelengths from 350nm to 1700nm**

Our series of beam expanders were designed for use with diode lasers which can have larger beams than a HeNe. They provide excellent beam expansion for the Lepton IV Series of diode lasers.

These beam expanders have larger input apertures with expansions of ~3X, 4X and 8X. Optics are coated with broadband AR coatings spanning three different wavelength ranges from 350nm to 1700nm.

Exit aperture range from 16mm to 48mm. Focus is either fixed or adjustable so that you can adjust for your wavelength and fix it.

Adapter plate or mounts are available for these expanders.

Beam Expanders

Model #	EX3- λ	EX4- λ	EX8- λ
Expansion:	2.7X	4.1X	7.6X
Input aperture:	6 mm	6 mm	6 mm
Output aperture:	16 mm	23 mm	48 mm
Wavefront error: (over $1/e^2$ points)	<1/10 wave rms	<1/10 wave rms	<1/10 wave rms

Use VIS1 for $\lambda = 350\text{nm}$ to 600nm

Use NIR1 for $\lambda = 600\text{nm}$ to 1000nm

Use NIR2 for $\lambda = 1000\text{nm}$ to 1700nm

Accessories

Model #	Description
MT1.75SS	Mount for EX8
MT1.75PLATE-M	Metric adapter plate for MT1.75SS

