



Ultra short pulse
zoom beam expander

x0.5-x1.7

Specifications:

Wavelength	343; 515; 1030 nm
Magnification range	0.5x - 1.7x
Pointing stability	<200 μ rad
Optical design	Galileo
Diffraction limited performance	Yes
Number of lenses	4
Total glass thickness	7.5 mm
Transmittance	>99%
LIDT	>3.7J/cm ² @ 1030 nm; 10ps; 10kHz >1J/cm ² @ 515 nm; 10ps; 10kHz >0.5J/cm ² @ 343 nm; 10ps; 10kHz
No internal Ghosts	Yes
Mounting threads	SM2 at input & output
Clamping	Ø51.9 x 42 mm cylinder

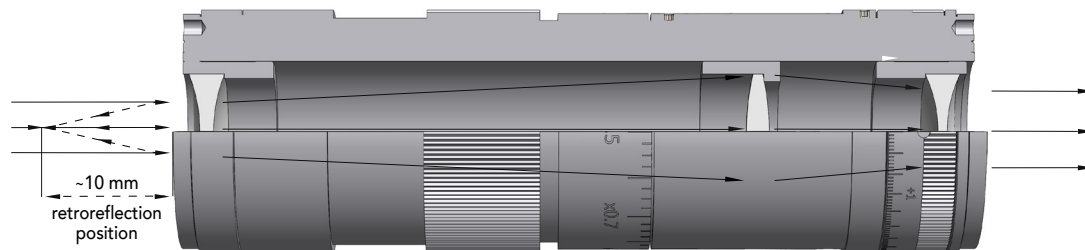
Max recommended input beam Ø

	343-355 nm	515-532 nm	1030-1070 nm
0.5x -	8 mm	9 mm	9 mm
1.0x -	7 mm	6 mm	6 mm
1.7x -	3 mm	4 mm	4 mm

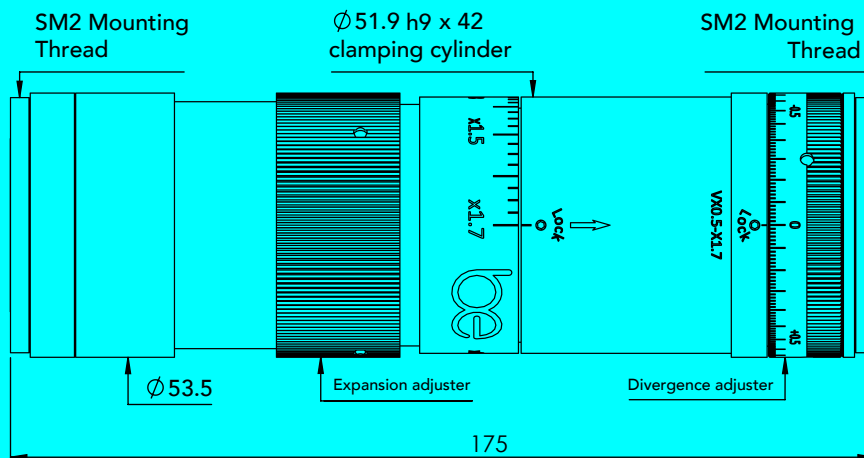
Notes

- Max beam diameter (1/e²) meeting diffraction limited operation
- Ever-expanding beam optical principle - beam is not reduced inside the system
- Lockable lens positions
- IBS coated quartz lenses for maximum performance and longevity
- Fine collimation adjustment
- Output beam remains collimated while zooming
- Compatible with sub 50 fs pulses

External retro reflections



Retroreflection 10mm from the input side



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