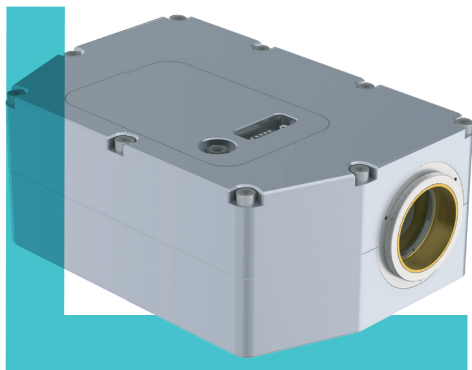




be DATA SHEET

Motorized
High power
Zoom beam expander

x1-x4

Specifications:

Wavelength	343; 355; 515; 532; 1030; 1064; 1070 nm
Magnification range	1x - 4x
Pointing stability	<0.2 mrad
Optical design	Galileo
Diffraction limited performance	Yes
Number of lenses	5
Transmittance	>98%
LIDT	>25 J/cm ² @ 1064 nm, 10 ns, 100 Hz >5 J/cm ² @ 532 nm, 10 ns, 100 Hz >2 J/cm ² @ 355 nm, 10 ns, 100 Hz
No internal Ghosts	Yes
No internal Ghosts in reversed use	in range x1-x3

Max recommended input beam Ø

	343-355 nm	515-532 nm	1030-1070 nm
x1 -	7 mm	8 mm	8 mm
x2 -	8 mm	9 mm	9 mm
x3 -	7 mm	8 mm	8.5 mm
x3 -	6 mm	6.5 mm	7 mm

Notes

- Max beam diameter (1/e²) meeting diffraction limited operation
- Extra collimation adjustment range for highly diverging beams
- Ever-expanding beam optical principle - beam is not reduced inside the system
- Lockable lens positions
- IBS coated quartz lenses for maximum performance and longevity
- During expansion change beam remains collimated

* integrated controller

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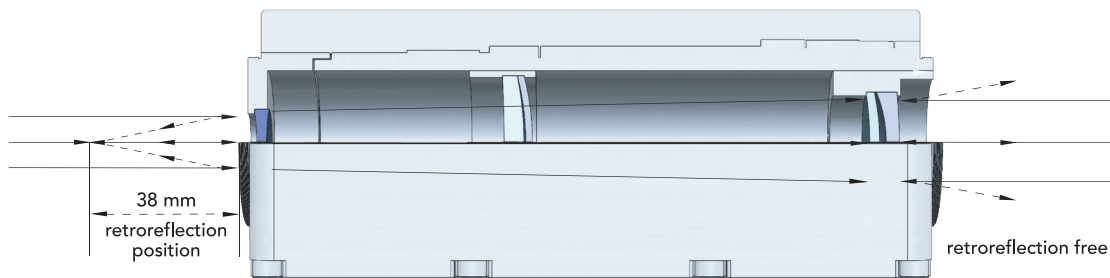
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Retroreflections



Retro-reflections in regular mode - at **38 mm**
No retro-reflections in reverse (beam reduction) mode

Motorization related specifications:

Zoom repeatability	<1%
Divergence repeatability	<1%
Min. zoom Increment	0.06%~0.2%
Speed	1-6 sec. (min to max zoom)
Control interfaces	USB, D-SUB (DE-9)
Communication protocol	RS232
Weight:	3.5 kg
Dimensions	80 x 135 x 200 mm

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