

# 🗢 DATA SHEET

Ultra short pulse motorized beam expander

1\_\_\_\_\_

## **Specifications:**

Wavelength	343; 355; 515; 532; 1	030; 1064; 1070 nm
Magnificatin rang	je	1x-4x
Divergence adjustment range		±1~5 mrad
Pointing stability		<200 µrad
Optical design		Gallileo
Diffraction limited performance		Yes
Number of lense	S	4
Transmittance		>99%
LIDT	>1J/cm² @ 5	30 nm; 10ps; 10kHz 15 nm; 10ps; 10kHz 43 nm; 10ps; 10kHz
No internal Ghos	ts	Yes
No internal Ghosts in reversed use		No

## Max recommended input beam Ø

	343-355 nm	515-532 nm	1030-1070 nm
1x -	8 mm	8 mm	8 mm
2x -	6 mm	6 mm	6 mm
3x -	5 mm	5 mm	5 mm
4x -	4.5 mm	4.5 mm	4.5 mm

#### Notes

- Max beam diameter (1/e<sup>2</sup>) meeting diffraction limited operation
- Divergence adjustment facilitates precise focal plane movement
- Ever-expanding beam optical principle beam is not reduced inside the system
- Integrated controller
- IBS coated quartz lenses for maximum performacne and longevity
- Beam remians collimated during expansion change



# Motorization related specifications:

Zoom repeatability:
Divergence repeatability:
Min. zoom Increment:
Min. divergence Increment:
Speed:
Control interfaces:
Communication protocol:
Dimensions:

## **Motorization related specifications:**

<0.3%	
<±3 µrad	
0.1%	
1 µrad	
1-6 sec. (min to max zoom)	
USB, D-SUB (DE-9), WR-TBL	
RS232 and ASCII strings	
<2 kg	
65 x 70 x 260 mm	