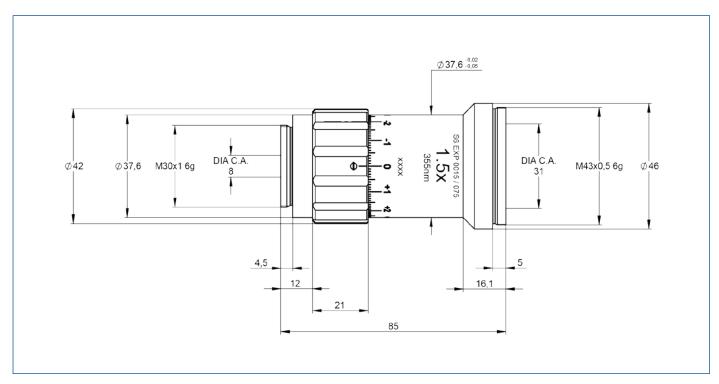


S6EXP0015/574 Beamexpander

- magnification 1.5x
- for 343 nm 355 nm
- fused silica
- low absorption coating





DATA SHEET



specifications	
article number	S6EXP0015/574
design wavelength [nm]	355
magnification factor	1.5x
divergence adjustable	✓
optical principle	Galilei (no internal focus)
mounting thread	M30x1
pointing stability [mrad]	<1
clear input aperture [mm]	8.0
clear output aperture [mm]	31.0
max. input beam diameter [mm]	6.0
wavefront error ¹⁾	$<\lambda/10$ for $1/e^2$ diameter ²⁾ of 6.0
total number of lenses	3
total transmission [%]	98
lens material	fused silica
LIDT (coating) [J/cm ²]	1.0 (1ns pulse at 50Hz)
no internal ghosts [√/×]	✓
no internal ghosts, reversed usage	x-
weight [kg]	0.20
accessory	S6MEC0107 - adapter M30x1 to C-mount

notes

- 1) Wavefront error peak to valley on axis proved by design
- 2) beam diameter vignetted at 1/e²

Data given by design

 $\label{eq:linear_loss} \textit{LIDT} = \textit{Laser Induced Damage Threshold, valid for the coating at design wavelength and gaussian intensity profiled to the last of the$