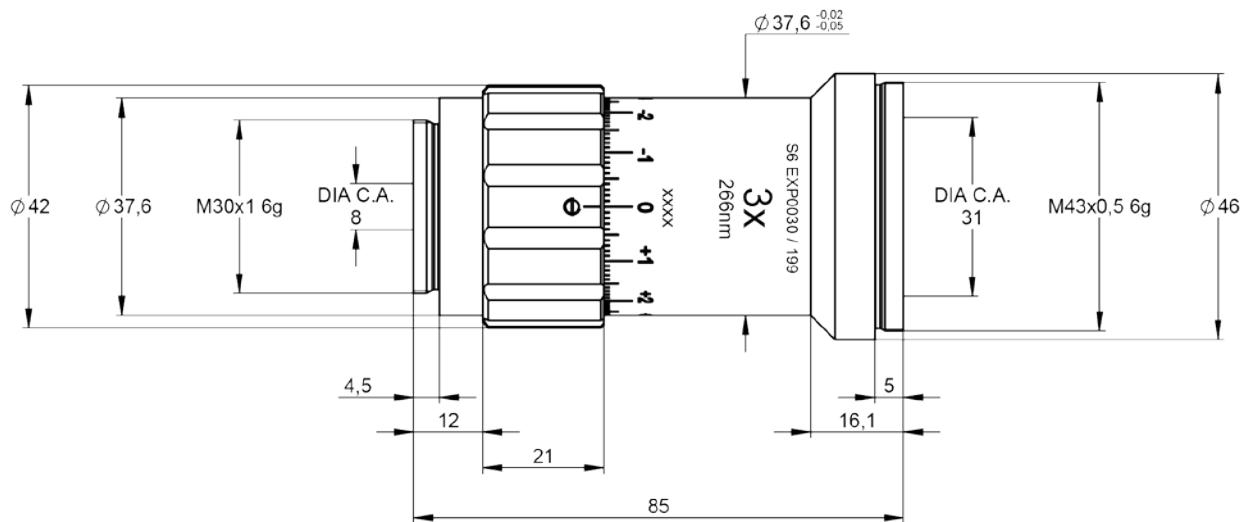


# DATA SHEET



## S6EXP0030/199 Beamexpander

- magnification 3.0x
- for 266 nm
- fused silica
- standard coating



# DATA SHEET



## specifications

|                                     |  |
|-------------------------------------|--|
| article number                      | S6EXP0030/199  |
| design wavelength [nm]              | 266  |
| magnification factor                | 3.0x   |
| 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 <sup>1)</sup>       | $< \lambda/10$ for $1/e^2$ diameter <sup>2)</sup> of 6.0 |
| total number of lenses              | 3  |
| total transmission [%]              | 98   |
| lens material                       | fused silica   |
| LIDT (coating) [J/cm <sup>2</sup> ] | 0.5 (1ns pulse at 50Hz)                                  |
| no internal ghosts [✓/✗]            | ✓  |
| no internal ghosts, reversed usage  | ✗  |
| 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  $1/e^2$

Data given by design

LIDT = Laser Induced Damage Threshold, valid for the coating at design wavelength and gaussian intensity profil