

IR LASER BEAM PROFILER



Beam Reducer - Technical Data -

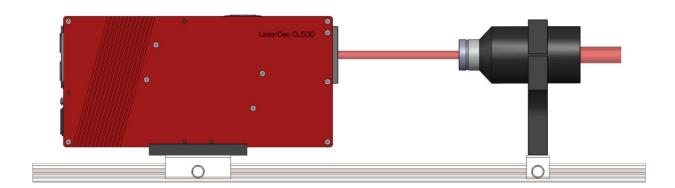
The beam reducers are based on zinc selenide (ZnSe) lens elements with adjustable lens spacing. The large input aperture allows beam profiling of lasers with diameters up to 40mm with CINOGY's LaserDec systems. A high transmission rate >97% and a low wavefront distortion <1/4 Wave ensure beam reducing without loss. The beam reducers can be used up to intensities of 20kW/cm^2 for pulse wave and 1kW/cm^2 for continuous wave. They have one positive input lens and one negative output lens (Galilean telescope).

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| | BR-25-2x | BR-50-2x | BR-50-5x | BR-75-5x |
|--------------------------------------|---------------------|-----------------------|---------------------|----------------------|
| Spectral range*: | 10.6µm | 10.6µm | 10.6µm | 10.6µm |
| Ratio: | 2x | 2x | 5x | 5x |
| Large aperture: | 25mm | 50mm | 50mm | 75mm |
| Beam diameter (1/e²): | max. 13mm | max. 26mm | max. 26mm | max. 40mm |
| Intensity (I _{max}) CL200: | 1kW/cm ² | - | 400W/cm^2 | 400W/cm ² |
| Intensity (I _{max}) CL500: | - | 1kW/cm ² | $400 W/cm^2$ | 400W/cm^2 |
| Coating damage threshold: | $100 MW/cm^2$ | 100MW/cm ² | $100MW/cm^2$ | $100 MW/cm^2$ |
| Dimensions (O.D. x L): | 38.1mm x 83mm | 69.9mm x 147mm | 69.9mm x 147mm | 85.7mm x 230mm |

^{*} Different parameters on request

Design and specification of the described product(s) are subject to change without notice.



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