



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/cm² for pulse wave and 1kW/cm² for continuous wave. They have one positive input lens and one negative output lens (Galilean telescope).

	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/e ²):	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	400W/cm ²	400W/cm ²
Coating damage threshold:	100MW/cm ²	100MW/cm ²	100MW/cm ²	100MW/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.

