

## LBS-100 Attenuator

The LBS-100 system that is not as compact as the LBS-300s above but has larger aperture, and has versions for longer wavelengths. The system contains the mounting frame, 1 wedge beam splitter and several attenuators. The exit end of the LBS-100 is standard C mount thread so all our cameras can be mounted to the frame. The wedge angle is 6.5 degrees to insure that the reflection from the rear side will not enter the camera. The optical elements are flat to 1/4 wave in the visible to ensure no distortion of the beam.



### Specifications

Model	LBS-100	LBS-100 YAG	LBS-100 IR 0.5	LBS-100 IR 5.0
Wavelengths	400 - 700nm recommended, functional to 2600nm	1064nm	10.6μm	10.6μm
Wedge Material	UVFS	UVFS	ZnSe	ZnSe
Wedge Coating	No coating, 4% reflection	A/R ≤1%	A/R ≤0.5%	A/R ≤5%
Clear Aperture	19mm	19mm	19mm	19mm
Filter Material	Bulk ND	Bulk ND	CaF2	CaF2
Filter ND Values/ Transmission	0.3, 0.7, 1.0, 2.0, 3.0, 4.0 ND at 632nm	0.3, 0.7, 1.0, 2.0, 3.0, 4.0 ND at 632nm	30% T for 3mm flat, 60% T for 1mm flat	30% T for 3mm flat, 60% T for 1mm flat
Filter Damage <sup>(1)</sup>	50W/cm <sup>2</sup>	50W/cm <sup>2</sup>	50W/cm <sup>2</sup>	50W/cm <sup>2</sup>
Part number	SP90061	SP90057	SP90058	SP90059

#### Accessories

LBS-100 filter set	Replacement filter set	SP90141
LBS-100 -YAG filter set	Replacement filter set	SP90142
LBS-100 to L11059 adapter	Mount L11059 camera to LBS-100 attenuator	SP90196
LBS-100 to 4X beam reducer adapter	This adapter enables mounting of the LBS-100 beam splitter/attenuator assembly in front of the 4X beam reducer. The combined assembly can image large high power beams in one unit.	SPZ17029

Note: (1) ND filters should be used at 5W/cm<sup>2</sup> for beam size 5mm, 10W/cm<sup>2</sup> for 2mm beam and >30W/cm<sup>2</sup> for 1mm beam to avoid thermal lensing effects.

The LBS beam splitter/attenuator system can be combined with the 4X beam reducer, to attenuate and view large beams.

