

LBS-400 Beam Splitters

The LBS-400 beam sampler attachment for various large array cameras allow you to measure UV, NIR or IR wavelength laser beams with diameters up to 1 inch (25.4mm) and powers ranging from 10mW to ~500W. The beam sampler is designed so that the preferential polarization selection effect of a single wedge is cancelled out and the resulting beam image is polarization corrected to restore the polarization components of the original beam.

The beam sampler operates by reflecting the incoming beam from the front surfaces of a pair of wedges through 90 degrees into the camera. Approximately 99% of the beam is transmitted through each beam sampler with 0.01% passed on to the camera. A set of adjustable filters are provided to make final intensity adjustments to the beam before it reaches the camera imager.

Model	LBS-400-UV	LBS-400-NIR	LBS-400-IR
Part No.	SP90351	SP90354	SP90349
Wavelength	193-355nm	1064nm	10.6µm
Wedge Material	UVF5	BK7	ZnSe
Wedge Coating	A/R ≤1.5%	A/R ≤1%	A/R ≤1%
Clear Aperture	1.25 inch (31.75mm)	1.25 inch (31.75mm)	1.25 inch (31.75mm)
Reflection	0.01%	0.01%	0.01%
Wedge ND value (each)	ND ≥2	ND ≥2	ND ≥2
Filter Material	Inconel	Bulk ND	CaF2
Filter ND Values nominal	0.5, 1.0 in both filters	0.5, 1.0 in both filters	0.5, 1.0 in both filters
Adjustable Filter Slides	2	2	2
Filter Damage ⁽¹⁾	100 W/cm ² 20mJ/cm ² , 10ns pulse	50 W/cm ² 1J/cm ² , 10ns pulse	5W/cm ² 300 J/cm ² , 1ms pulse

(1) ND bulk absorbing filters damage threshold is 50W/cm² but should be used at <5W/cm² to avoid thermal lensing effects.

Every LBS-400 comes with a user specified adaptor plate. Please choose at time of purchase

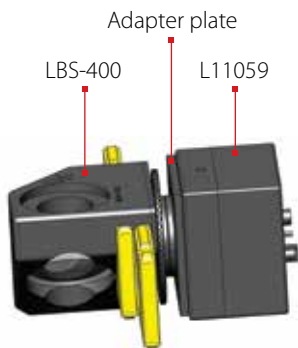
LBS-400 C-Mount Adapter	SP90352	Adaptor plate to mount C-Mount devices to LBS-400
LBS-400 to L11059 Adapter	SP90439	Adaptor plate to mount L11059 camera to LBS-400
LBS-400 to Pyrocam Adapter	SP90510	Adaptor plate to mount Pyrocam IV camera to LBS-400

Accessories

Beam Dumps	BD-040-A, SP90192 BD-500-W, SP90193	40 Watts Max Power, Air Cooled 500 Watts Max Power, Water Cooled
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LBS-400



Accessory adapter plate

