

Bernoulli LIBS

Small, light, versatile double pulse LIBS laser.

Portable

Compact size – strong monolithic aluminium body. Fast detachable connections at the laser head and PSU – easy to transport and set-up.

Rugged

Vibration and shock proof – for use in harsh environments.

Fully sealed laser head – protection from dust and moisture.

 $\label{lem:condition} \textbf{Ruggedized oscillator-fixed optics design adds to oscillator alignment stability}.$

Motorised Safety Shutters

Automated control via LUCi™ remote interface. Variable time delay.

Easy to Use

Auto start up and standard touch screen control.

 $\ensuremath{\mathsf{LUCi^{TM}}}$ remote interface - provides all functions at the touch of a button.

Able to be operated in all orientations.

Attenuators

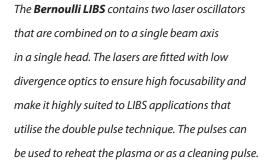
2 motorised attenuators (one per oscillator) for independent energy adjustment. Full control to vary the intensity of the two pulses.

Intelligent

 $\label{eq:mobiustander} \begin{tabular}{ll} MOBIUS^{TM} - Microprocessor control and monitoring of all laser parameters. \\ Standardised PSU - Mobius^{TM} configures the PSU to match the laser head. \\ \end{tabular}$

Reliable

2 Year warranty includes Optics, PSU & Laser head.





PC control screen





Bernoulli LIBS

PERFORMANCE SPECIFICATION

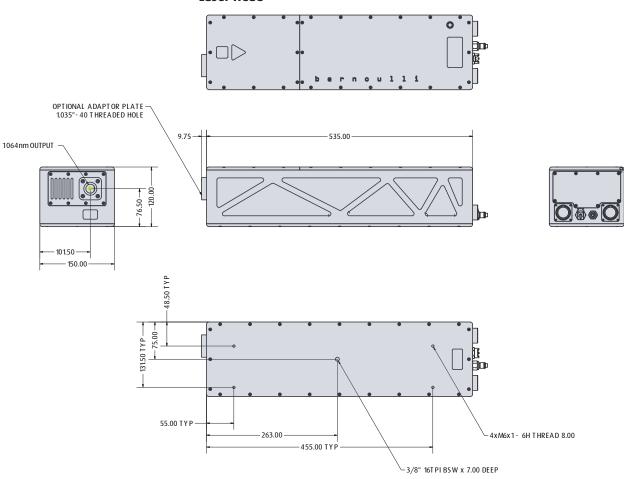
Model	B-LIBS 250-10	B-LIBS 225-15	B-LIBS 200-20	B-LIBS 150-25	B-LIBS 100-30
Wavelength (nm)	1064nm	1064nm	1064nm	1064nm	1064nm
Pulse repetition rate (Hz) Pulse energy @ 1064nm (mJ) ⁽¹⁾	10 250	15 225	20 200	25 150	30 100
Pulse to pulse energy stability (%pk-pk)	<2	<2	<2	<2	<2
Pulse width (ns) ⁽²⁾	≤10	≤10	≤10	≤10	≤10
Near field beam diameter (mm)	5	5	5	5	5
Beam divergence (mrad) ⁽³⁾	<0.5	<0.5	<0.5	<0.5	<0.5
Pointing stability (µrad)	<50	<50	<50	<50	<50
Polarisation	Horizontal and vertical cross polarised beams.				
M^2	<2	<2	<2	<2	<2
System requirements					
Power input (VAC)	90-250 (50-60Hz)				
Operating ambient (°C)	10 to 30				
Storage ambient (°C) ⁽⁴⁾	5 to 50				
Coolant	Deionised Water				
External trigger	5V TTL				
Standard umbilical length (m) ⁽⁵⁾	3				
Power supply unit ⁽⁶⁾	LPU 550				
Umbilical (m)	3				

- (1) Per laser at maximum rep. rate.
- (2) At maximum energy (FWHM)
- (3) Full angle for 90% of the output energy.
- (4) All cooling water removed.
- (5) Up to 10m is available
- (6) Rackmounted PSU available

Bernoulli LIBS

DIMENSIONAL SPECIFICATION

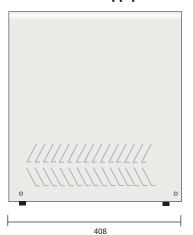
Laser Head



LPU550 Power Supply

LUCi Remote Controller













Our policy is to improve the design and specification of our products. The details given in this document are not to be regarded as binding.

Litron Lasers Ltd

8 Consul Road, Rugby, Warwickshire CV21 1PB. England.

T +44 (0)1788 574444 F +44 (0)1788 574888 E sales@litron.co.uk



光と人をつなぐ

Rayture Systems



レイチャーシステムズ株式会社

〒160-0006 東京都新宿区舟町7 ロクサンビル7 F

TEL: 03-3351-0717 FAX: 03-3351-6771

URL : http://www.rayture-sys.co.jp

E-mail: laser@rayture-sys.co.jp