
bernoulli
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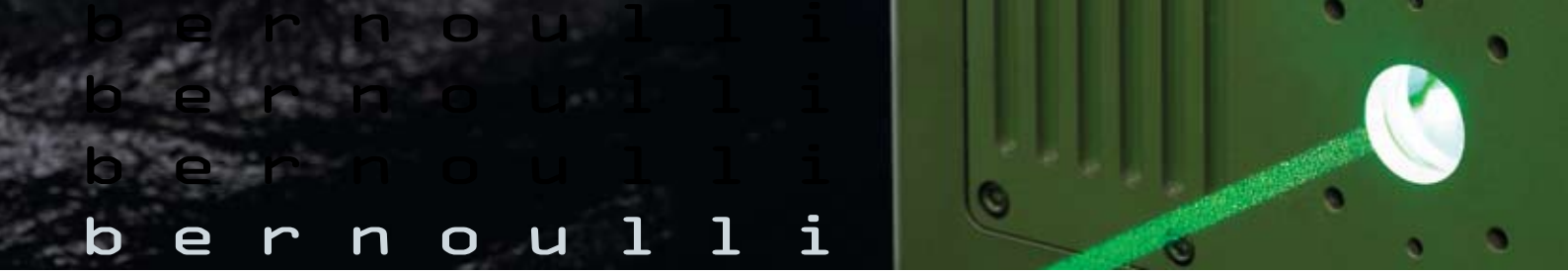
piv
Litron Lasers
Total Laser Capability



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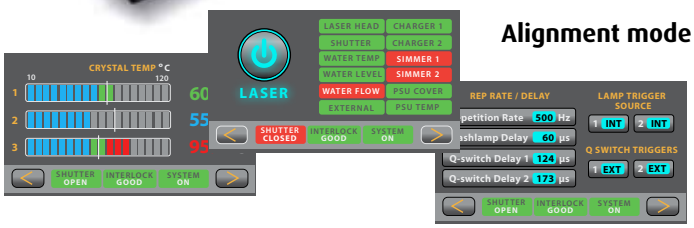
Lower the pressure in your PIV experiments.

True turnkey operation and rugged construction, the Litron **bernoulli**™ is suited to operation in almost any environment.

*The **bernoulli**™ PIV from Litron is the most advanced 'plug and play' PIV laser system available today. It benefits from Litron's years of experience in this field and the expertise gained from being the World's leading PIV laser manufacturer.*

LUCi™



Rugged

Vibration and shock proof - for use in rough environments.
Fully sealed laser head – protection from dust and moisture.
Ruggedized oscillator – fixed mirror design adds to oscillator alignment stability.

Reliable

2 Year warranty includes Optics, PSU & Laser head.
2 Year warranted alignment and overlap – All components locked into position in a separate compartment.

Portable

Ability to operate in all orientations.
Compact size – strengthened and lightened aluminium monolithic body.
Fast connections at the laser head and PSU – easy to transport and set-up.

Intelligent

MOBIUS™ - Microprocessor control and monitoring of all laser parameters.
Standardised PSU – Mobius™ configures the PSU to the laser head.
Accurate internal pulse generator – No third party timing equipment required.

Easy to Use - and Fast!

From crate to lasing in under 8 minutes.
Auto start up and touch screen control.
LUCi™ **remote interface** - provides all functions at the touch of a button.
Motorised attenuator fitted as standard – 1000 step energy control.
Alignment mode - sets attenuator to allow alignment of external optics.

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PERFORMANCE SPECIFICATION

Model	B-PIV 200-15	B-PIV 145-15	B-PIV 120-20	B-PIV 100-25
Wavelength (nm)	532nm			
Pulse repetition rate (Hz)	**0-15**	**0-15**	**0-20**	**0-25**
Pulse energy @ 532nm (mJ)(1)	**200**	**145**	**120**	**100**
Pulse to pulse energy stability (%pk-pk)	<2			
Pulse width (ns)(2)	≤10			
Near field beam diameter (mm)	6.35	5	5	5
Beam divergence (mrad)(3)	<3.5			
Shot to shot pointing stability (µrad)	<100			
Far field beam overlap (µrad)	±100			
Near field beam overlap (µm)	±100			
Polarisation	Linearly polarised, vertical plane			
Spectral Purity (%)	>99.5%			
System requirements				
Power input (VAC)	110-250 (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)	2.5			

(1) Per laser at maximum rep. rate.

(2) At maximum energy 532nm (FWHM)

(3) Full angle for 90% of the output energy.

(4) All cooling water removed.

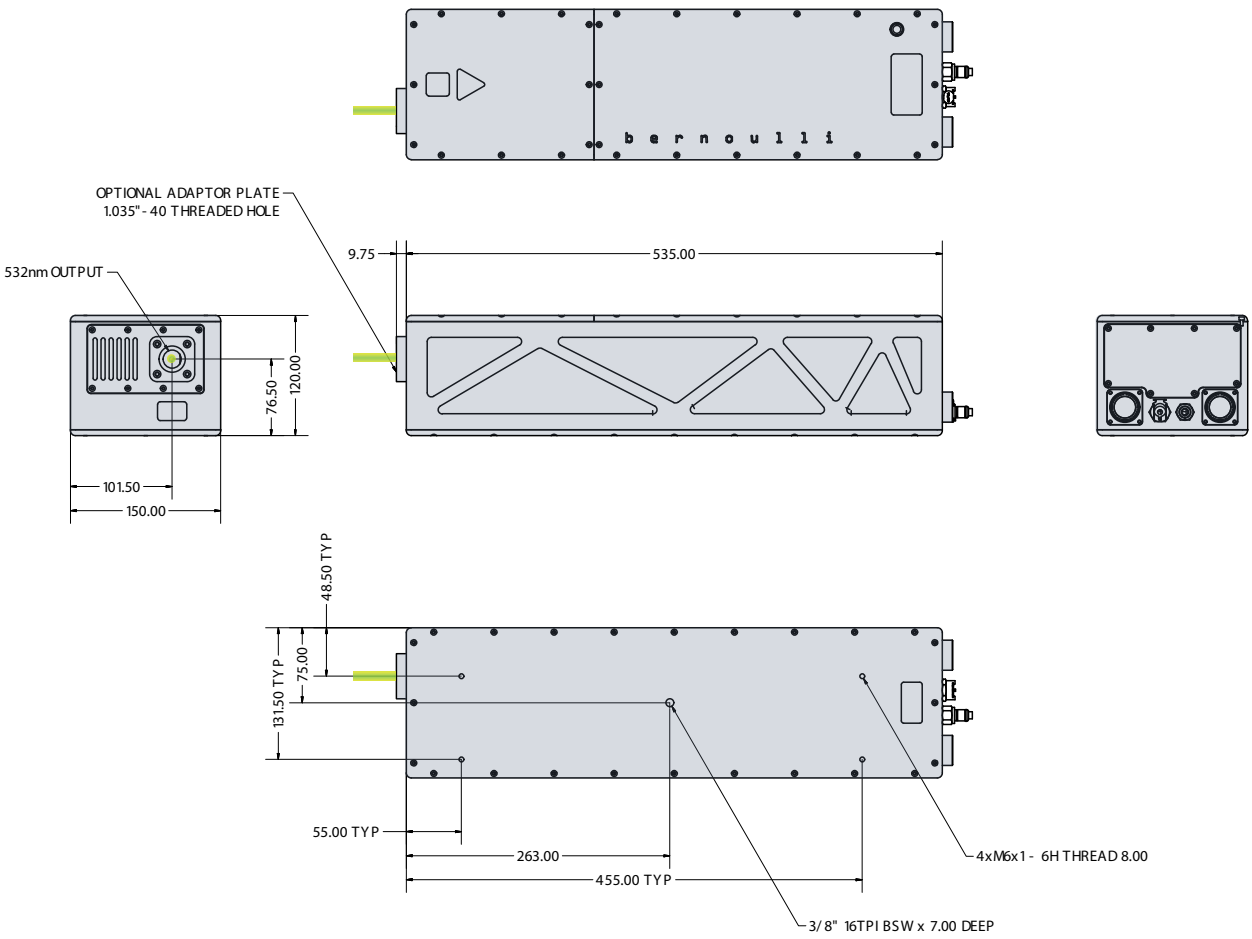
High Frequency Options - 50Hz and 100Hz variants are also available.

AJA 00/2074

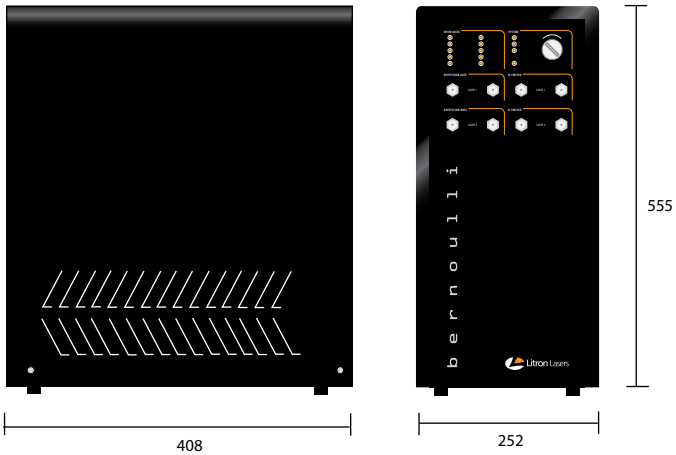
Our policy is to improve the design and specification of our products. The details given in this document are not to be regarded as binding.

DIMENSIONAL SPECIFICATION

Laser Head



LPU550 Power Supply



LUCi Romote Controller

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