

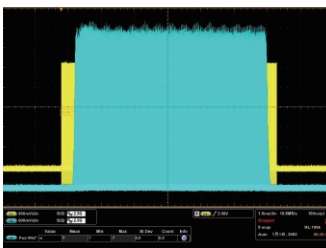


Vlite Plus Series Laser

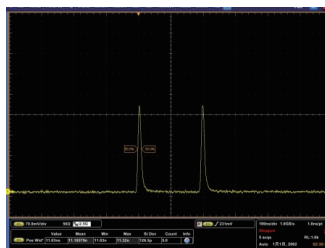


High repetition rate & high energy Burst mode Nd:YAG solid-state laser

In many scientific applications, high repetition rate and high energy pulse lasers are required. However, achieving high repetition rate and high energy output simultaneously has been challenging in the field of traditional solid-state laser technology. With continuous development and innovation, Beamtech has developed the Vlite Plus series, which achieves both high repetition rate and high energy laser output. The Burst sequence sub-pulse repetition rate is adjustable from 10kHz to 100kHz, with 532nm pulse energy up to 500mJ @ 10kHz, and UV 355nm pulse energy up to 270mJ @ 10kHz. This series of lasers provides solutions for fields such as time-resolved PIV and PLIF in hypersonic flow studies.



Burst mode



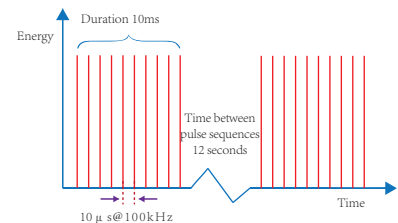
PIV mode



Near field@1064nm

Features

- Switchable multi-wavelength output: 1064/532/355/266nm
- Dual-pulse mode for PIV applications
- High beam quality, near TEM00 mode



Applications

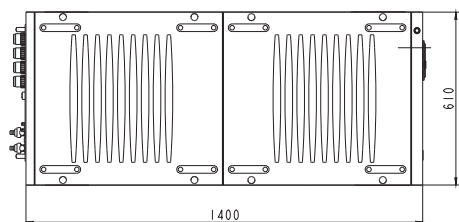
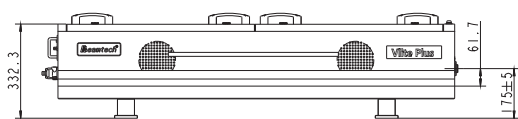
- PIV
- PLIF
- OPOPumping /Dye laser Pumping

Specifications

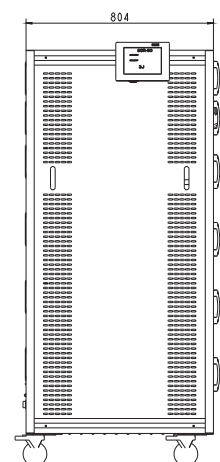
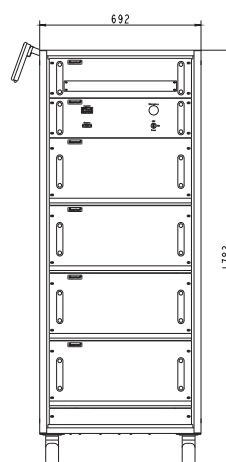
Models	Vlite Plus
Pulse Width	8-15ns
Pulse energy@10kHz	1000mJ@1064nm, 500mJ@532nm, 270mJ@355nm, 70mJ@266nm
Pulse energy@100kHz	100mJ@1064nm, 50mJ@532nm, 25mJ@355nm, 3mJ@266nm
Pulse frequency within a Burst	10kHz-1000kHz
Max number of pulses in Burst	100@10kHz, 1000@100kHz
Duration of Burst	1-10ms
Time between pulse sequences	10s
Linewidth	<1MHz
Beam Diameter (1/e) ²	4-9mm
M ²	<3
Optional functions	PIV dual-pulse mode optional, pulse width 8ns-30ns adjustable Pulse frequency up to1MHz(Max number of pulses in Burst is 10000)

i Other customizable technical parameters and features are available by contacting us.

Dimensions



Vlite Plus laser head



Power Supply