

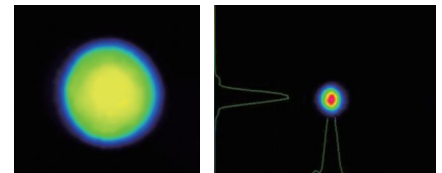
Middle energy level Q-switched Nd:YAG laser

Nimma series lasers are middle energy level Q-switched Nd:YAG laser. The fundamental wavelength covers energy level from 400mJ to 2000mJ. This series possesses the features of compact size, good pointing stability, high energy stability, high reliability, etc. The SHG, THG and FHG are available and easy to switch. The harmonics system applies temperature constant technology so that high efficiency and stability. The FHG module also equips with fast automatic close loop feedback system.

The scientific and industrial design ensure the good beam quality, which is suitable for pumping OPO, Ti:Sapphire laser, etc. Features as optical shutter, flow sensor, power supply interlock make sure the safety use as the top priority. This series is the good choice for various kinds of scientific and industrial applications.

Features

- Compact size and rugged design
- High uniformity of beam profile
- Industrial design to ensure long term operation
- Automatic wavelength switching option
- Automatic phase matching option
- Motorised attenuator option
- SLM option



Near field@1064nm

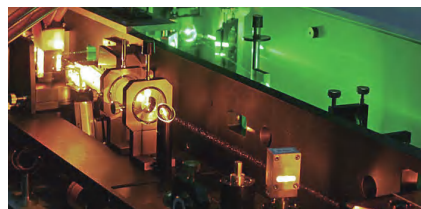
Far field@1064nm

Applications

- LIBS
- LIDAR
- Laser Induced Florescence(LIF)
- Pumping Dye Laser and Femtosecond Laser
- Laser Cleaning
- Laser Pulse Deposition
- Nonlinear Optics
- Laser Flash Optical Solution



LIDAR



Pumping Dye Laser



LIBS

All images from customers and website



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Specifications

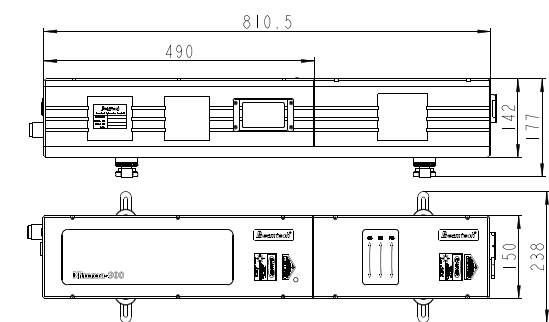
Models ¹	Nimma-400	Nimma-600	Nimma-900	Nimma-2000
Repetition Rate	1-10Hz	1-10Hz	1-10Hz	1-10Hz
Pulse Energy	1064nm	450mJ	650mJ	2000mJ
	532nm	250mJ	350mJ	1000mJ
	355nm	90mJ	150mJ	600mJ
	266nm	50mJ	65mJ	150mJ
Energy Stability ² (RMS)	1064nm	≤0.7%	≤0.7%	≤0.7%
	532nm	≤1.3%	≤1.3%	≤1.3%
	355nm	≤2.6%	≤2.6%	≤2.6%
	266nm	≤2.6%	≤2.6%	≤2.6%
Pulse Width ³	1064nm	≤9ns	≤9ns	≤9ns
	532nm	≤8ns	≤8ns	≤8ns
	355nm	≤7ns	≤7ns	≤7ns
	266nm	≤7ns	≤7ns	≤7ns
Divergence ⁴	1064nm	≤0.6mrad	≤0.6mrad	≤0.6mrad
Pointing Stability		≤30μrad	≤30μrad	≤30μrad
Jitter ⁵ (RMS)			≤0.5ns	
Beam Diameter ⁶	1064nm	8mm	8mm	9mm
Spatial Mode Profile	Near Field			>70%
	Far Field			>95%
Polarization	Horizontal	1064nm, 355nm, 266nm		
	Vertical	532nm		
Cooling		Air to water	Air to water	Air to water
Electrical Service		110/220V-50/60Hz	110/220V-50/60Hz	110/220V-50/60Hz
Power Consumption		2000W	2000W	2000W
Cable Length	Control Line	3m		
	Power Line	1.8m		
	Umbilical Line	3m		

1. All specifications, unless otherwise stated, are for Q-Switched 1064nm operation and are subject to change without notice.

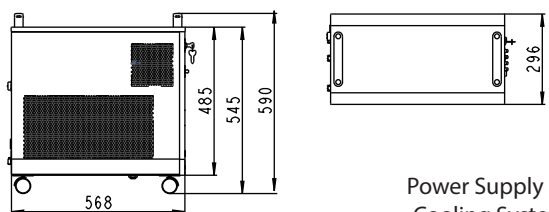
2. Dev. to average (shot to shot for 99% of pulses).
3. Full width half max (FWHM).
4. Full angle at 1/e² of the peak.

5. With respect to external trigger.
6. Measured at the laser output.

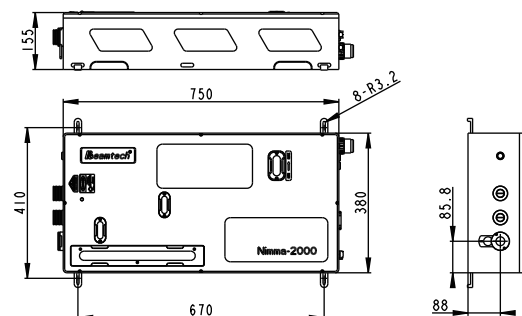
Dimensions



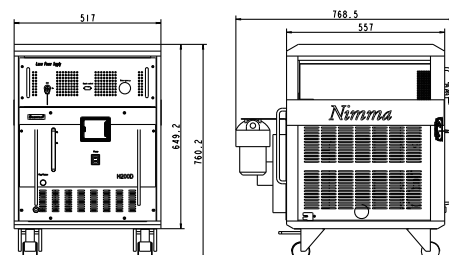
Nimma-400/600/900



Power Supply & Cooling System



Nimma-2000



Power Supply & Cooling System