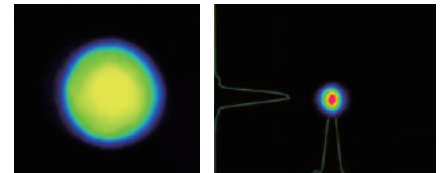




## Features

- Compact design
- Uniform beam profile
- Industrial design ensures long-term performance stability
- Indicator light, motorized wavelength switching, and motorized attenuator optional
- Automatic phase matching function
- Integrated power supply and water cooling system



Near field@1064nm

Far field@1064nm

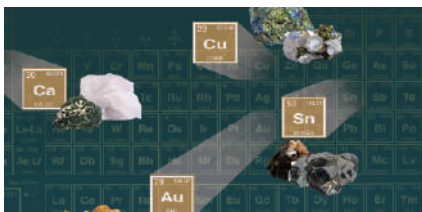
## Advanced Lamp-Pumped Pulsed Solid-State Laser

Nimma-HG-Pro series laser is a new intelligent product upgraded on the Nimma series. Equipped with SHG, THG and FHG, each HG module has automatic phase adjusting function.

In addition, we provide four-wavelength motorized switching function, motorized attenuator and guide beam. This series of products are widely used in pulsed laser deposition (PLD), LiDAR, laser induced fluorescence, laser cleaning, LIBS and other applications.

## Applications

- LIBS
- PLD
- LIF
- LiDAR
- Laser cleaning



LIDAR



PLD



LIBS



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# Specifications

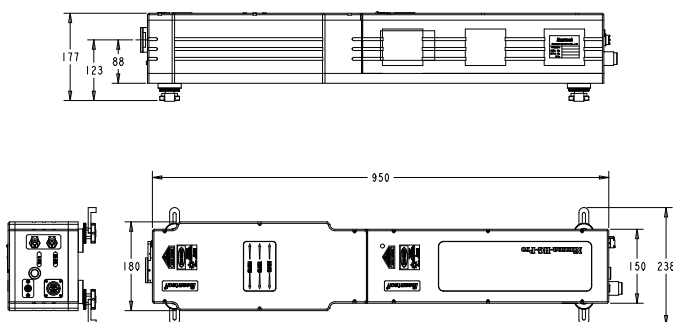
Module <sup>1</sup>		Nimma-HG-Pro-400	Nimma-HG-Pro-600	Nimma-HG-Pro-900	Nimma-HG-Pro-2000
Repetition rate		1-10Hz	1-10Hz	1-10Hz	1-10Hz
Pulse energy	1064nm	400mJ	600mJ	800mJ	1800mJ
	532nm	250mJ	350mJ	480mJ	1000mJ
	355nm	90mJ	150mJ	270mJ	600mJ
	266nm	50mJ	65mJ	90mJ	150mJ
Energy stability <sup>2</sup> (RMS)	1064nm	≤1%	≤0.7%	≤0.7%	≤1%
	532nm	≤2%	≤1.5%	≤1.5%	≤2%
	355nm	≤4%	≤3%	≤3%	≤4%
	266nm	≤4%	≤3%	≤3%	≤4%
Pulse duration	1064nm	≤9ns	≤9ns	≤9ns	~9ns
	532nm	≤8ns	≤8ns	≤8ns	≤8ns
	355nm	≤7ns	≤7ns	≤7ns	≤7ns
	266nm	≤7ns	≤7ns	≤7ns	≤7ns
Divergence <sup>4</sup>	1064nm	≤0.6mrad	≤0.6mrad	≤0.6mrad	≤0.5mrad
Pointing stability (RMS)		≤30μrad	≤30μrad	≤30μrad	≤50μrad
Jitter <sup>5</sup> (RMS)		≤0.5ns			
Beam diameter <sup>6</sup>	1064nm	8mm	8mm	9mm	11mm
Beam profile	Near field	>70%			
	Far field	>95%			
Polarization	Linear(Vertical)	1064nm, 355nm, 266nm			
	Linear(Horizontal)	532nm			
Cooling		Air to water	Air to water	Air to water	Chiller
Power supply		220V-50/60Hz-10A	220V-50/60Hz-10A	220V-50/60Hz-10A	220V-50/60Hz-16A
Power consumption		2000W	2000W	2000W	3000W
Umbilical length	Control Line	3m			
	Power Line	1.8m			
	Umbilical Line				

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

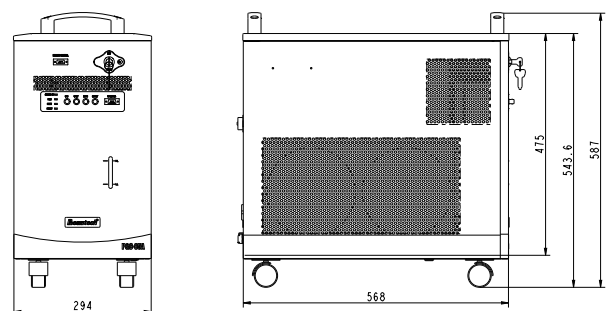
2. Dev. to average (shot to shot for 99% of pulses).  
3. Full width half max (FWHM).  
4. Full angle at 1/e<sup>2</sup> of the peak.

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

## Dimensions



Nimma-HG-Pro-400/600/900 Laser head



Power Supply & Cooling System