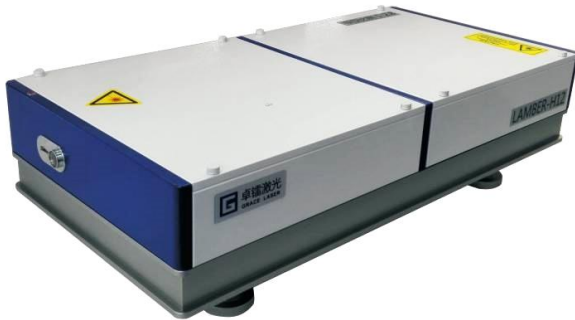


## LAMBER-C series

### High energy flashlamp-pumped Nd:YAG ns-laser



#### FEATURES

- 2-6J at 1064nm / Harmonics from 532nm to 266nm
- 1-10Hz repetition rate / 8-10 ns pulse duration
- Incorporate Gaussian Mirror to provide outstanding Top hat spatial profile
- Compact and rugged industrial laser head design
- Injection seeded single longitudinal mode (SLM) option
- Output Faraday rotation isolator option

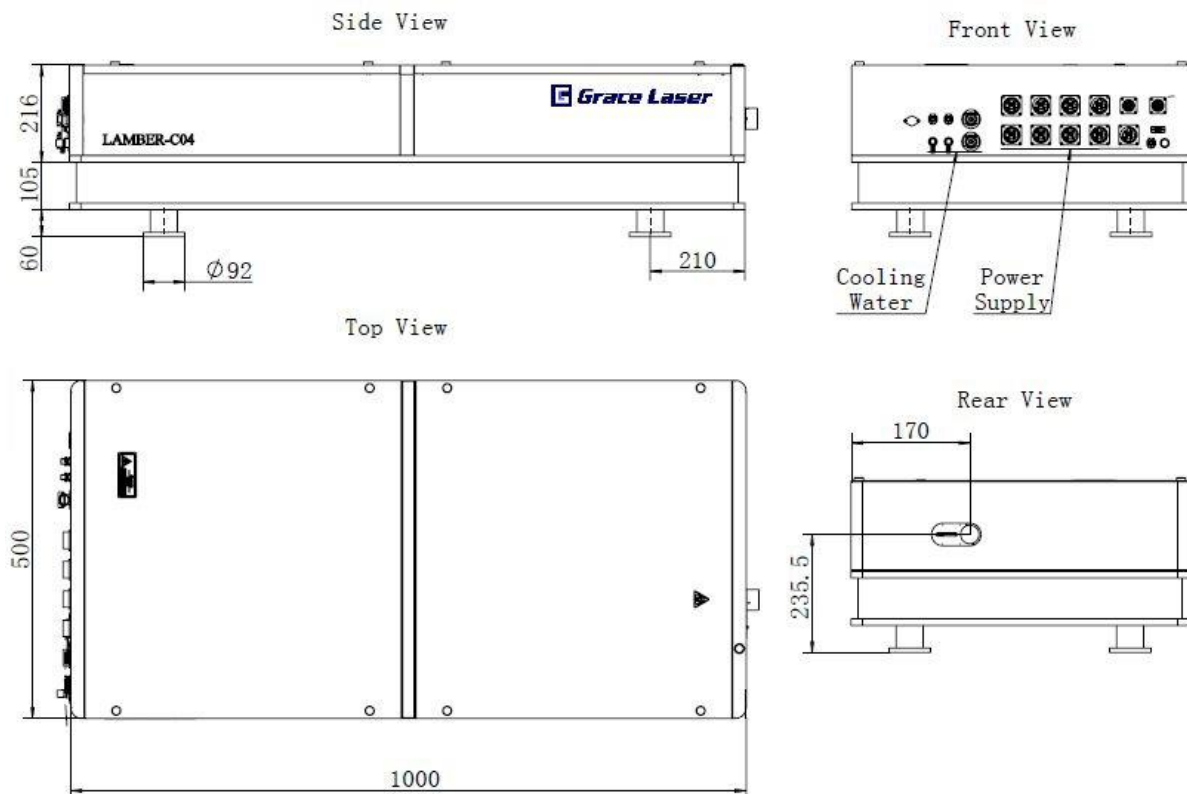
LAMBER-C laser systems offer up to 6J Q-switched linear polarized output with RS232 software control. High energy and nanosecond pulse duration provide high intensity pulses, low transverse field modulations to have a rather uniform energy distribution.

#### APPLICATIONS

- Laser shock peening processing
- Material damage threshold research
- Large area ablation
- Plasma physics
- Silicon annealing

#### LAMBER-C04 Laser Head Mechanical Specifications

Unit:mm



# LAMBER-C series Specifications



## High energy flashlamp-pumped Nd:YAG ns-laser

### Beam characteristics

Version	LAMBER-C02	LAMBER-C03	LAMBER-C04	LAMBER-C06
Repetition Rate <sup>1</sup> (Hz)	1-10Hz			
Energy (mJ)				
1064nm	2000	3000	4000	6000
532nm	1000	1500	2000	3000
355nm	600	900	1200	1800
266nm	170	250	350	520
Energy Stability RMS (%)				
1064nm	<0.7%			
532nm	<1%			
355nm	<2%			
266nm	<3%			
Pulsewidth FWHM <sup>2</sup> (ns)	8-10ns			
Divergence <sup>3</sup> (mrad)	<0.5mrad			
Pointing Stability <sup>4</sup> (μrad)	<20 μrad			
Timing Jitter RMS <sup>5</sup> (ns)	<0.5ns			
Beam Diameter (mm)	~11	~13	~15	~18
Beam Spatial Profile	Top hat			
Near Field Fit to Gaussian < 1m	70%			
Far Field Fit to Gaussian (∞)	95%			
Beam Circularity	>95%			
Polarization	linear			
Linewidth (cm <sup>-1</sup> )				
Standard	1			
Injection Seeded SLM <sup>6</sup>	0.005			

### General characteristics

Flashlamp life time	>50 million shots
AC Input	220 VAC ±5% 50-60Hz
Power Consumption	<3kW (typical 2J at10Hz)
Operating Conditions	Temperature 5-35°C Humidity <80%

### NOTES

- 1.All specifications at 1064nm and maximum repetition rate unless otherwise noted.
- 2.Full width at half maximum.
- 3.Full angle for 86.5% of energy.
- 4.Maximum deviation from beam mean centroid.
- 5.With respect to external trigger.
- 6.Injection seeded version reduces energy by 10%.

### China

#### Grace Laser Technology Co., Ltd.

Building 16, No.8 Anping North Street, Shunyi District, Beijing 101318 China

Tel: +86 010-60401920 Fax: +86 01-60401720 Email: sales@gracelaser.com

[www.gracelaser.com](http://www.gracelaser.com)

