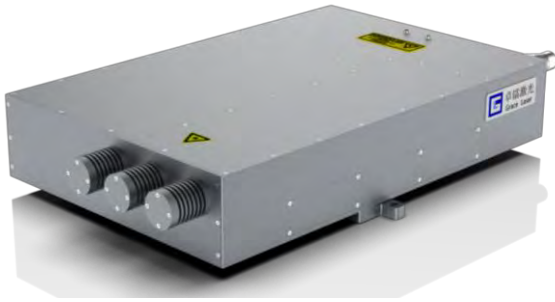


# BLAZER-P series

High energy picosecond mode-locked laser



## FEATURES

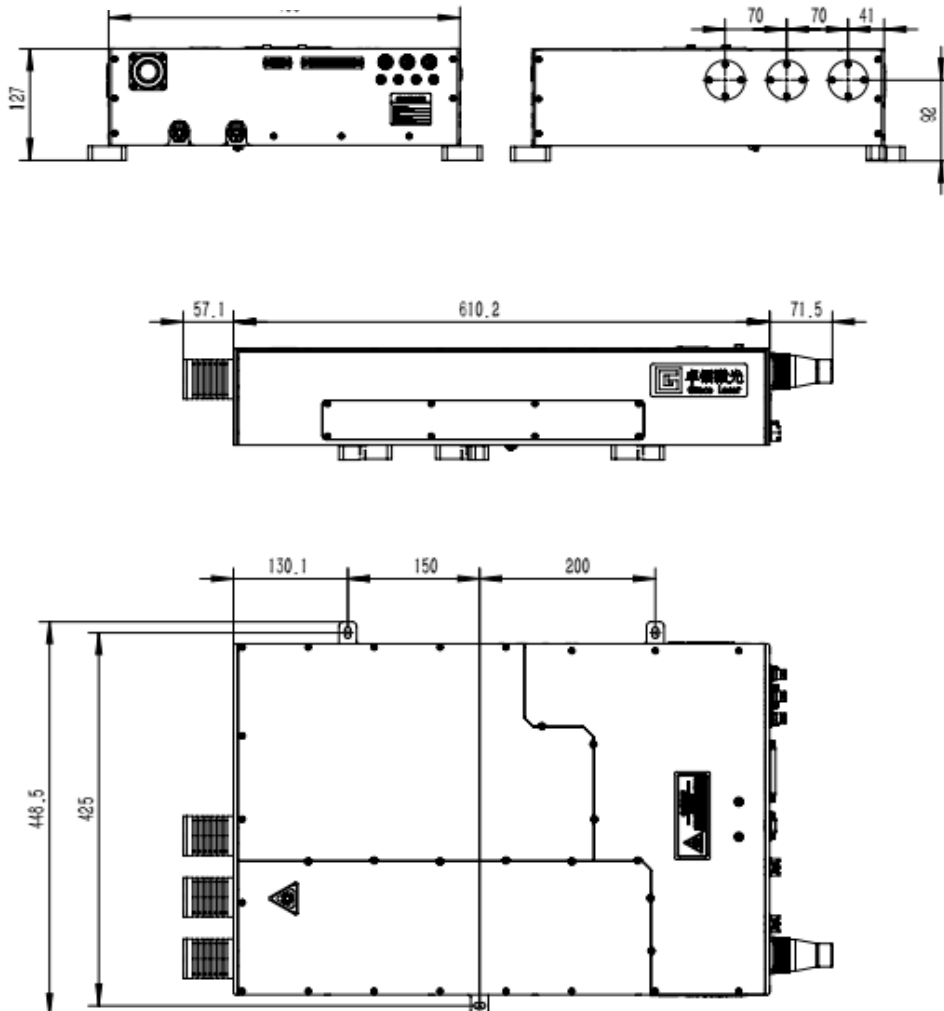
- 1-200mJ at 1064nm / Harmonics from 532nm to 266nm
- 1Hz-10kHz repetition rate / 25 ps pulse width
- High beam quality  $M^2 < 1.6$
- Standard pulse width 25ps, 100ps option
- Ext. triggering jitter <4ns, Int. Triggering jitter <100ps
- RS232 interface for remote operation

*BLAZER-P laser series inherit the robust and hermetically sealed DPSS master oscillator design of BLAZER series. Diode pumped regenerative amplifier and flash lamp pumped energy amplifier produce up to 200mJ picosecond pulses. 24/7 rugged industrial design improves laser reliability and reduces running costs.*

## APPLICATIONS

- Non-linear optics
- Micromachining
- Pump source
- Satellite laser ranging

### BLAZER-50P Laser Head Mechanical Specifications



# BLAZER-P series Specifications

High energy picosecond mode-locked laser

## Beam characteristics

Version	BLAZER-2P		BLAZER-50P	BLAZER-100P	BLAZER-200P
Repetition Rate <sup>1</sup>	1-1kHz	1-10Hz	1-10Hz		
Repetition options	10kHz	/			
Pulse energy					
1064nm	1.6mJ	1.8mJ	50mJ	100mJ	200mJ
532nm	1.0mJ	1.2mJ	25mJ	50mJ	100mJ
355nm	0.6mJ	0.5mJ	15mJ	30mJ	60mJ
266nm	0.2mJ	0.2mJ	5mJ	10mJ	20mJ
Energy stability (RMS)					
1064nm	<1%				
532nm	<2%				
355nm	<3%				
266nm	<4%				
Beam Spatial Profile	TEM <sub>00</sub> (M <sup>2</sup> <1.6)				
Pulse width <sup>2</sup>	25±3ps				
Polarization Ratio	>100:1				
Beam Circularity	>85%				
Pointing Stability	<20μrad				
Beam Divergence <sup>3</sup>	<1mrad		<0.5mrad		
Beam Diameter <sup>4</sup>	~2mm	~9mm	~13mm	~18mm	

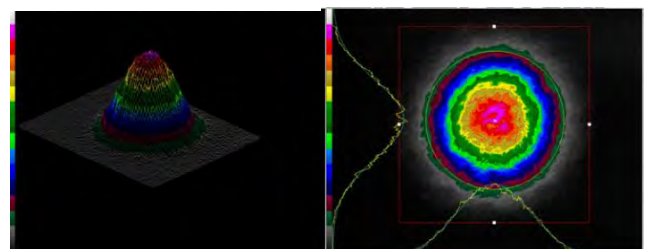
## General characteristics

Flashlamp lifetime	>5×10 <sup>7</sup>
AC Input	220 VAC ±5% 50-60Hz
Power Consumption	<1.5kW
Cooling Type	Closed-loop water cooling
Operating Conditions	Temperature 5-35℃ Humidity <80%
Warm-Up Time (mins)	<30mins

### NOTES

1. Pulse energy at 10kHz 1064nm>0.7mJ;532nm>0.5mJ;355nm>0.25mJ;266nm>0.1mJ
2. Pulse width is customizable, up to 100ps
3. Full angle for 86.5% of energy.
4. Output of laser head at 1064nm.


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Beam profile

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