



Diode-pumped short-pulse passively Q-switched solid-state laser

The Locmar series is a LD pumped passive Q-switched short pulse solid state laser, single pulse energy up to 300uJ@1064nm and pulse width about 2ns. The laser uses air cooling or conduction heat dissipation, no water. This series of products are mainly used in MALDI-TOF mass spectrometry, LIDAR, LIBS and other applications.

Locmar's compact design allows it to be mounted at any angle, making it ideal for OEM customers' system integration. In addition, the design of photoelectric separation, and the fixed optical components ensure the long-term stability.

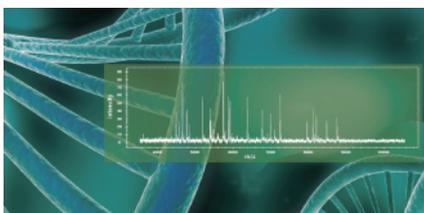
Features

- Compact design
- 1064nm, 532nm, and 355nm available
- Repetition rate: up to 500Hz
- Modes: Single, Continuous, Burst available
- Excellent beam quality, TEM₀₀ mode
- Real-time pulse monitoring
- Easy-to-use PC software

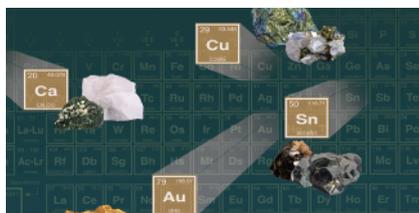
Applications

- MALDI-TOF-MS
- LIBS
- LIDAR

All images from customers and website



MALDI-TOF-MS



LIBS



LIDAR



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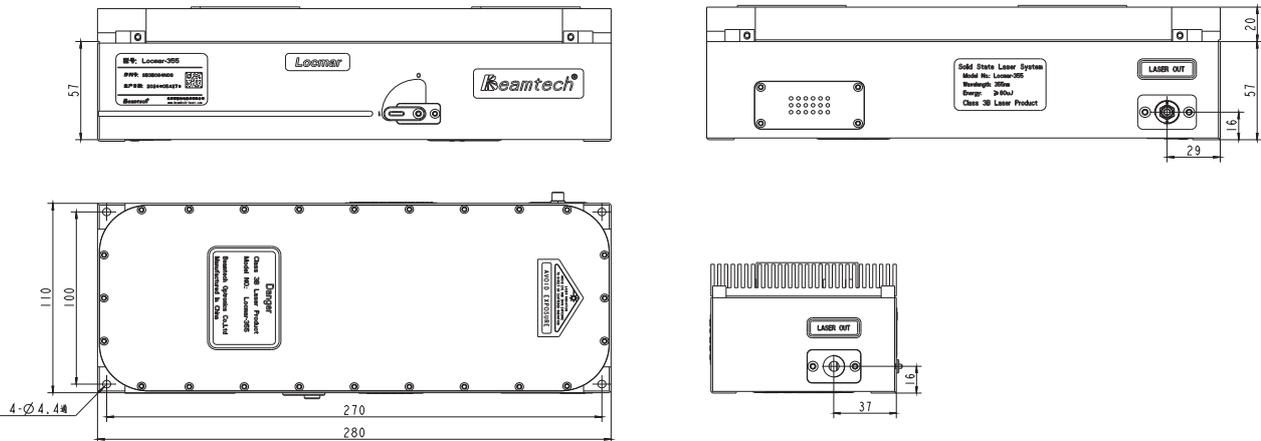


Specifications

Model	Locmar-1064	Locmar-532	Locmar-355
Wavelength	1064nm	532nm	355nm
Pulse energy	300μJ	120μJ	50μJ
Energy stability ^{RMS 1} (PTP) ²	<1%(±5%)	<1.5%(±5%)	<2%(±5%)
Repetition rate		≤500Hz	
Pulse width ³		<3ns	
Laser mode		TEM ₀₀	
M ²		≤1.5	
Beam diameter ⁴	500μm	500μm	500μm
warming time		5min	
Supply voltage		DC24V	
Cable length		80cm	
Communication		RS232 & GUI software	
Operation condition		15°C-35°C, humidity≤60%	
Storage condition		-20°C-45°C, humidity≤60%	

1. RMS: Dev. to average 2. PTP: (MAX-MIN)/(MAX+MIN) 3. Full width half max (FWHM) 4. 10cm from the laser outlet

Dimensions



Locmar