

Lida 1599

High Peak Power Eye-Safe Short-Pulse LIDAR Source

All Solid-State Infrared Laser

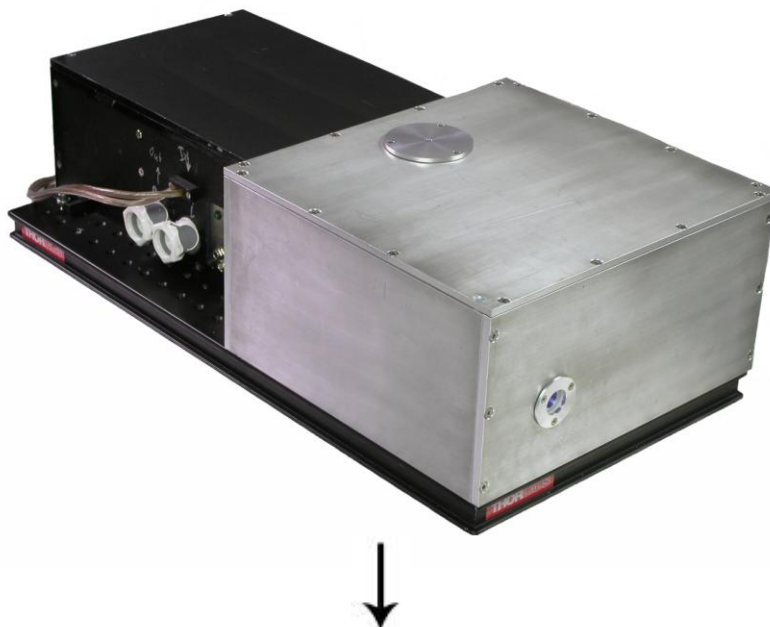
The Lida 1599 is a high peak power, nanosecond, pulsed, infrared laser suitable for a variety of research and industrial applications.

Features

- 200 kW peak pulse power
- 6 ns pulse width
- Near TEM₀₀ beam quality
- Water cooling
- External computer control over the repetition rate and output energy via the built-in RS232 port

Applications

- Remote sensing
- Inspection
- Flow measurements
- Material processing
- Pumping of OPO and Raman converters



Optics and Coating

Specifications

Parameter	Lida 1599
Wavelength	1599 nm
Energy Output	1 mJ
Repetition Rate	250 Hz (variable from 1 Hz to 250 Hz)
Mode structure	Close to TEM ₀₀
Pulse-to-pulse stability	< 1 %
Pulse counting	Available via RS-232 port (up to 4·10 ⁹ pulses)
Pulse width	~ 5 ns
Q-switch	Active
Sync pre-pulse emission	≤ 1 ns
External control	Connector/pin for TTL trigger input
Electrical port	100-240 VAC, 47-63 Hz, Single Phase

All Specifications Subject to Change without Notice

Content and Delivery

The delivered laser consists of the following:

- Laser Head;
- Power Unit;
- Cooling Unit;
- Connecting cables and tubes;
- Manual; and
- Test Record.

Warranty

1 year for all parts and labor excluding the laser pump diode. The pump diode is warranted for the lesser of 1 year or 10⁹ pulses.

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