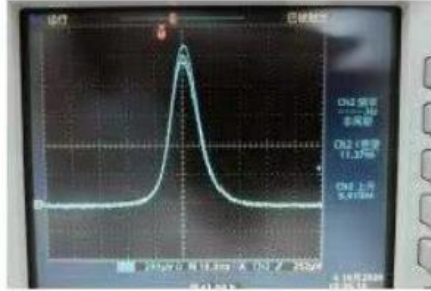


## 10mJ 1535nm Eye-safe DPSS Laser

Model: **ER10000**



### PRODUCT DESCRIPTION

ERDI TECH's high peak power laser, the ER10000, operates at an eye-safe wavelength within the atmospheric transmission window. It features high peak power, narrow pulse width, no need for temperature control, compact size, and lightweight design, making it ideal for eye-safe laser ranging applications.

This laser boasts excellent beam quality, narrow pulses, and a narrow beam divergence, enabling uniform, high-energy illumination of targets for long-range, high-precision measurements. The high-density integrated packaging and broad-spectrum, flat absorption characteristics of the laser medium allow it to operate across a wide temperature range without the need for additional temperature control. It also offers strong environmental adaptability, shock resistance, and long operational life.

Additionally, the company has developed a high-

performance power supply designed to match the laser's performance. Built using military-grade design techniques, this power supply ensures the laser operates safely and stably. It is also available for users who require it.



### FEATURES

- Laser wavelength: 1535 nm
- High peak power: 1 MW
- Wide temperature range: -40°C~+65°C
- Small size: 110×40×24 mm<sup>3</sup>
- Light weight: 220 g

### APPLICATION

- Laser Rangefinder
- Target Designator

### TECHNICAL SPECIFICATIONS

Optical performance	
Laser Wavelength	1535 nm
Eye safe	Class 1
Pulse energy	10 mJ
Laser Pulse width	10 ns
Pulse repetition rate	5 Hz

Pulse stability	±5%
Raw Beam Diameter	0.8 mm
Beam divergence angle	4mrad
Beam Mode	TEM <sub>00</sub>
<b>Environment</b>	
Operating temperature	-40°C~+65°C
Storage temperature	-55°C~+85°C
Impact	1500 G,0.5 ms
Vibration	5-200 Hz/20 G
Life span	>1 million shots
<b>Mechanical structure</b>	
Dimension (mm)	110×40×24 mm <sup>3</sup>
weight	220g
<b>Electric drive</b>	
Voltage	15V
Electric current	80A
Drive pulse width	≤4ms

**MECHANICAL DIMENSION(mm)**

