

# 400~500μJ 1535nm Erbium Glass Lasers



RealLight's 1535nm Erbium glass lasers operate in the eyesafe wavelength regime, have great advantages in applications including laser ranging and LiDAR. This series of lasers feature no tail pulse, stable pulse energy and excellent beam profile. The integrated design of diode-pumped module and laser crystal brings convenience to installation and integration due to the compact size.

## Technical Specifications

| Wavelength ( nm )                 | 1535              |     |
|-----------------------------------|-------------------|-----|
| Pulse energy (μJ)                 | 400               | 500 |
| Repetition rate (Hz)              | 10                |     |
| Pulse width (typ., ns)            | 6                 |     |
| Energy Stability (RMS)            | 3%                |     |
| Beam full divergence (typ., mrad) | 9                 | 8   |
| Beam profile                      | TEM <sub>00</sub> |     |
| Operating current (A)             | 15                | 20  |
| Operating Voltage (V)             | 2                 |     |
| Dimensions (L×W×H,mm)             | 32x8x7            |     |
| Weight (g)                        | 13                |     |
| Operation temperature (°C)        | -40~65            |     |
| Storage temperature (°C)          | -45~80            |     |

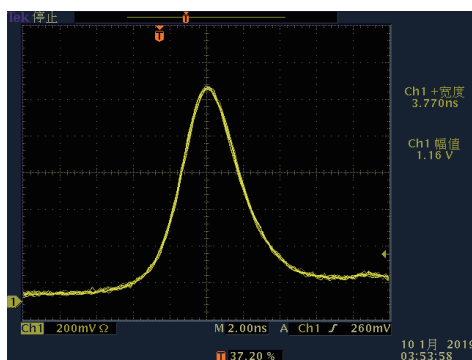
All the data in the above table are the typical values obtained from the tests at room temperature of 25°C, and the final data is subject to the final test report.

## Applications

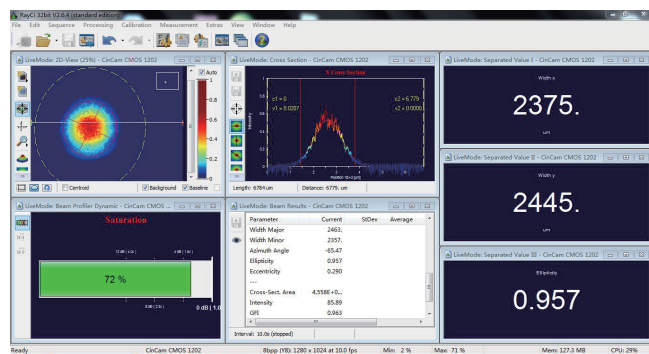
Laser rangefinder  
Meteorological radar

## Key Features

- ◆ Passively Q-Switched, Erbium Glass
- ◆ Eye-safe
- ◆ Extremely light
- ◆ Super compact design
- ◆ Wide operating temperature range



Typical Pulse

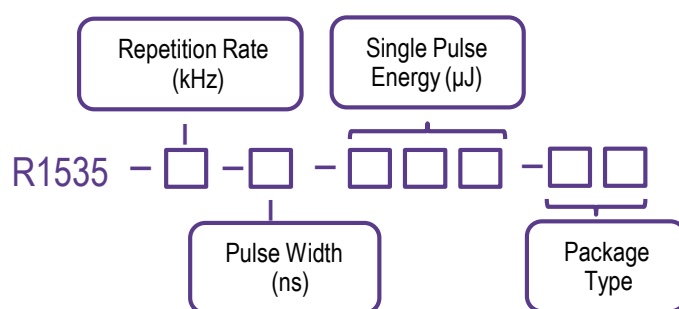


Beam Profile

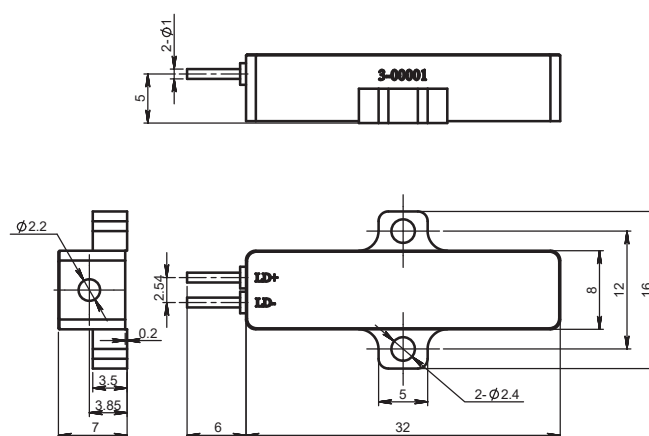
## Order Information

| Wavelength<br>( nm ) | Part Number          | Repetition rate<br>(Hz) | Pulse width<br>(ns) | Pulse energy<br>( $\mu$ J) | Dimensions<br>(mm) |
|----------------------|----------------------|-------------------------|---------------------|----------------------------|--------------------|
| 1535                 | R1535-0.01-6-400-F3A | 10                      | 6                   | 400                        | 32x8x7             |
|                      | R1535-0.01-6-500-F3A | 10                      | 6                   | 500                        | 32x8x7             |

## Part Numbering Schema



## Mechanical Drawings (in mm)



F3A Drawing

