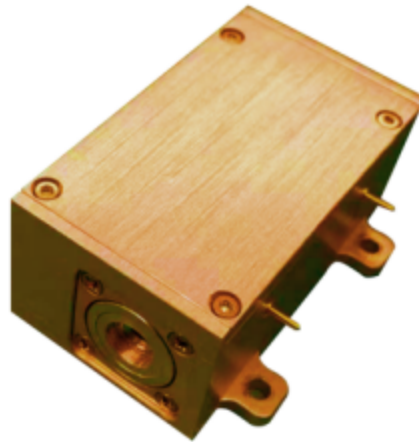


2mJ 1535nm ERBIUM GLASS LASERS



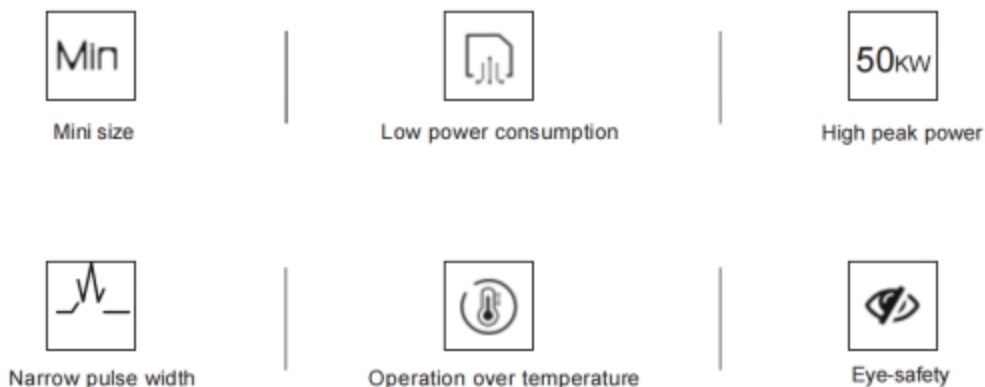
DESCRIPTION

Erbium glass laser is developed and researched by ERDI TECH LTD company. With features of low power consumption, high peak power, narrow pulse width, small size and no need for temperature controlling temperature range, it is proved as a safe, efficient and stable eye-safe laser.

It is a eye-safe laser with eye-safe emission wavelength at 1535nm within atmospheric window with high beam quality of laser pulse, which is suitable for eye-safe laser ranging.

With its high beam quality, narrow beam angle and pulse, it enable light pulse to emit uniform radiation on targets with high energy to achieve long distance and high accuracy ranging. With its high-density integration package feature and waveband flat absorption feature, it can be operated at wide temperature range without temperature controlling. It can adapt environmental temperature very well and has good performance of impact resistance. With all of those features, lasers can be operated with long life span and high performance.

In addition, ERDI TECH LTD company adopts military-level design technology to develop high performance driver power supply matching with lasers, which enable stable and efficient operation of lasers. Meanwhile, our company is able to supply driver power supply matching with lasers.



APPLICATION



Range finder



Laser irradiation



Laser radar

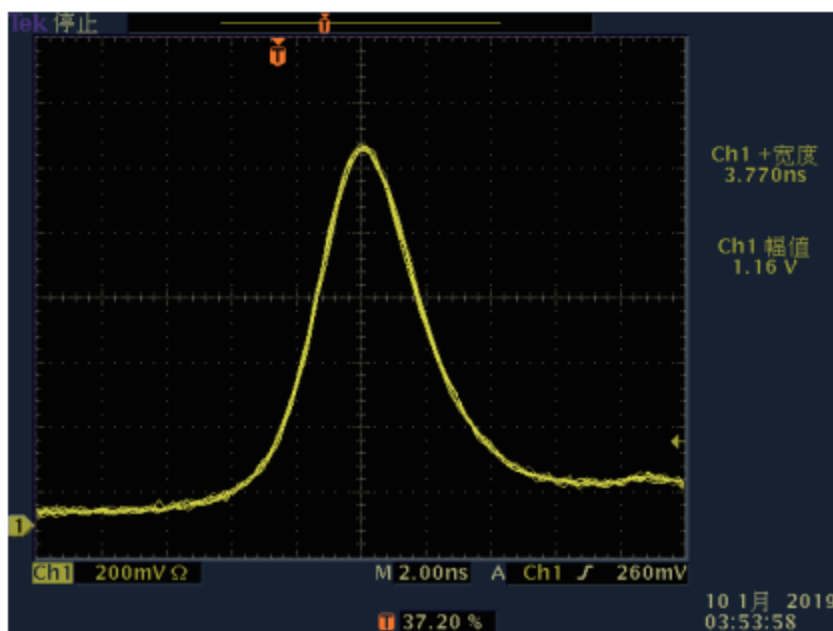
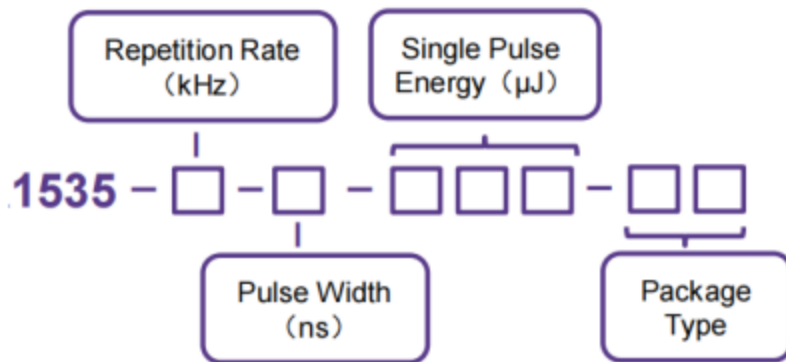


Laser designator

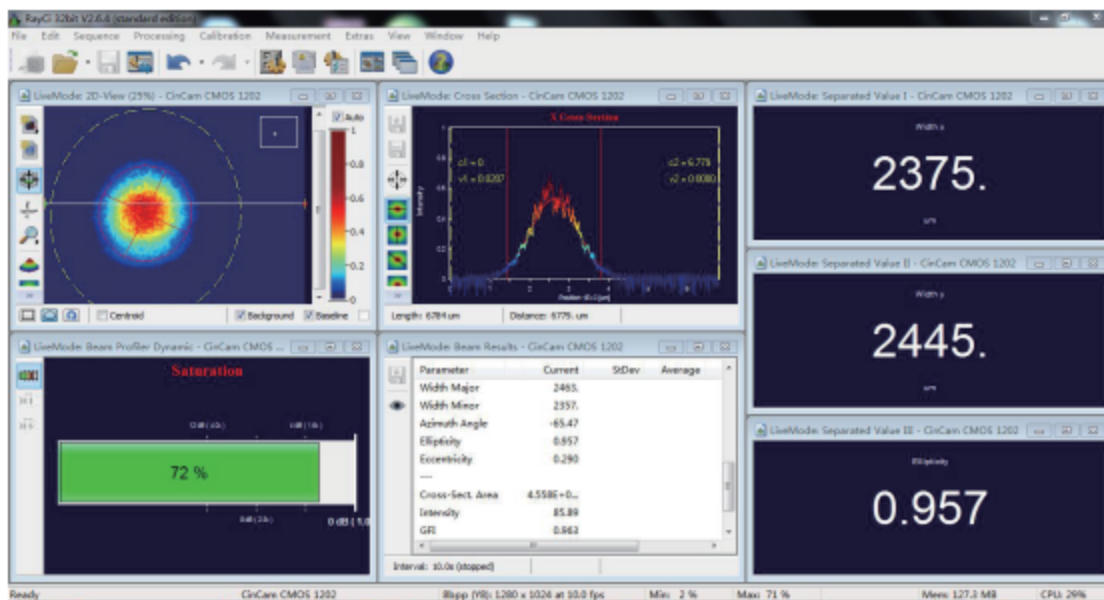
TECHNICAL SPECIFICATIONS

Parameters \ Type#	ER1535-2000
Wavelength	1535 nm
Pulse energy (Min./Typ.)	≥2mJ
Pulse width, Typ.(FWHM)	11 ns
Pulse repetition rate	1~5Hz
Pulse stability	±5%
Spots diameter	0.5 mm
Beam divergence angle	4mrad
Spots mode	TEM00
Operating temperature	-45 °C~+65 °C
Storage temperature	-55 °C~+85 °C
Impact	1500 G, 0.5 ms
Vibration	5-200 Hz/20 G
Life span	>50 million shots
Dimension (mm)	60×34×26 mm3
Weight	120 gg
Voltage	5V
Current	60-70 A
Pulse width	≥4ms

PART NUMBERING SCHEMA

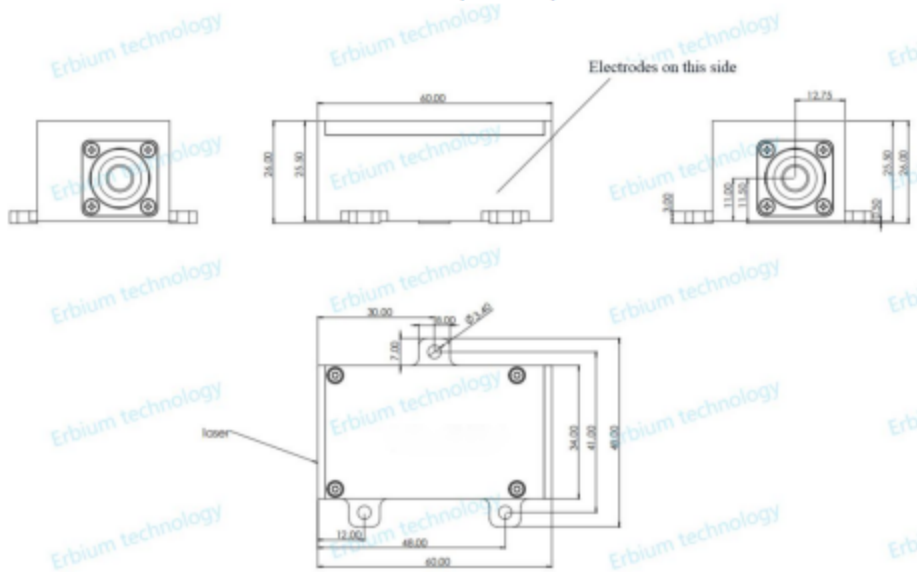


Typical Pluse



Beam Profile

MECHANICAL DRAWINGS (in mm)



PIN DESCRIPTIONS

Pin	Function
1	Laser (+)
2	Laser (-)

