

**REPETITION RATE IS NOT GOING TO BE A RESTRICTION ANYMORE**

# NEW OLSEER LASER SYSTEM

**HIGH ENERGY · HIGH REPETITION RATE**

**PROTON LASER APPLICATIONS**  
presents a new series of  
**Q-switched Nd lasers, the OLSEER FAMILY.**

**Proton Laser Applications, S.L.** is a company specialized in high power ultrafast laser with high repetition rates.  
The company headquarters are in Barcelona.

Announcing the new

# OLSER LASER SYSTEM

It is a diode pumped Nd:crystal laser designed for efficient high energy high repetition rate Q-switch emission.



The GREEN PUMP is the Proton Laser OLSER System. This is a Nd diode pumped solid state laser able to reach 500 Hz repetition rates at high energy.

KHz repetition rates are also possible on demand.

## APPLICATIONS:

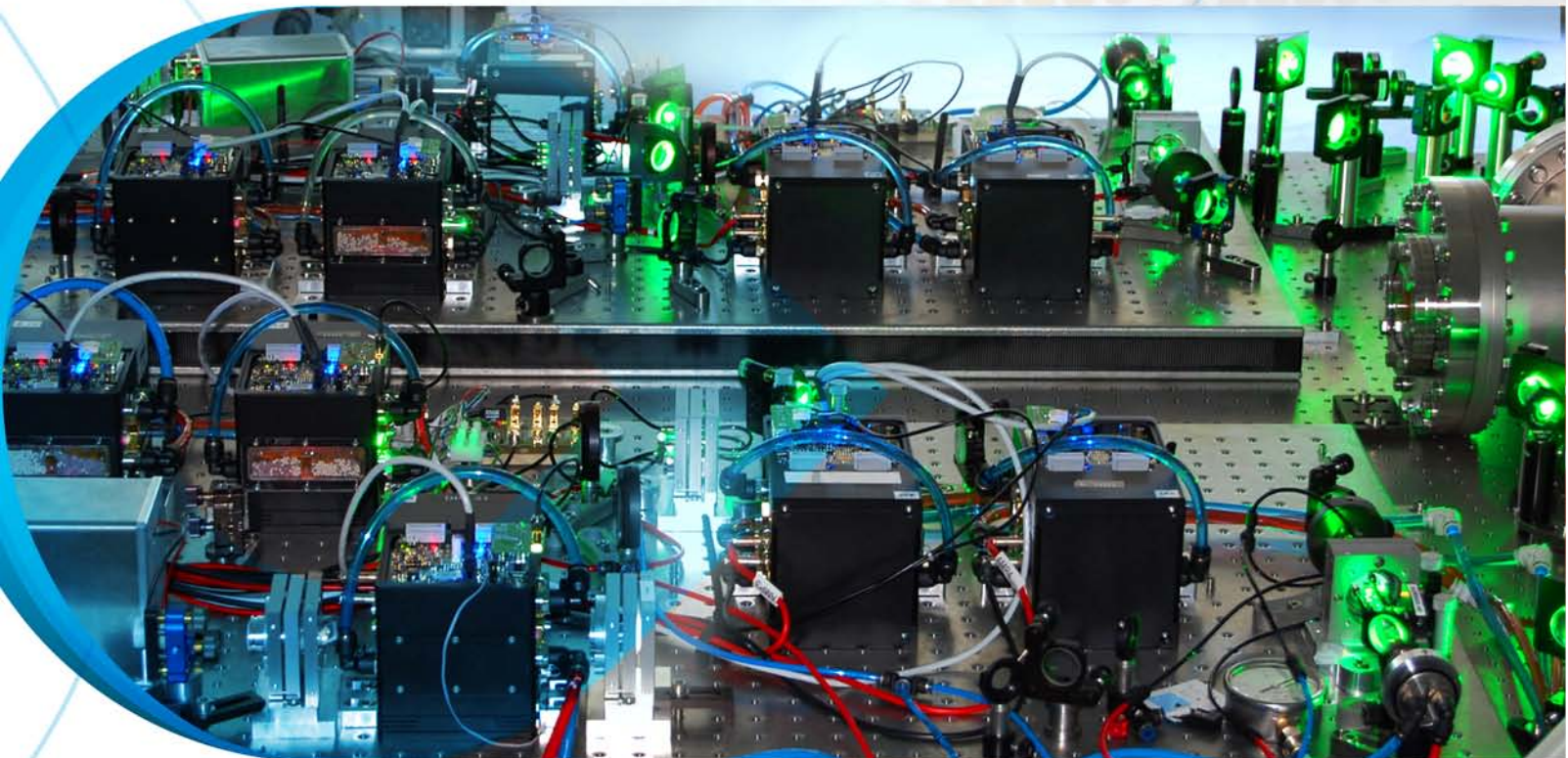
- ◇ LIDAR
- ◇ Ti:Sa PUMPING
- ◇ MARKING
- ◇ PUMP PROBE EXPERIMENTS
- ◇ BIOMEDICINE
- ◇ LASER PEENING

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	OLSER 2	OLSER 4	OLSER 5
<b>Active material</b>	Nd: YAG or Nd: YLF		
<b>Wavelength</b>	1064 nm (Nd:YAG) or 1053 nm (Nd: YLF)		
<b>Repetition rate</b>	100 to 500 Hz	100 to 500 Hz	100 to 500 Hz
<b>Energy per shot at 1064 nm</b>	200 - 300 mJ	400 - 800 mJ	700 - 1000 mJ
<b>Energy per shot at 532 nm</b>	120 - 180 mJ	220 - 440 mJ	400 - 800 mJ
<b>Average Power</b>	Up to 100 W	Up to 200 W	Up to 600 W
<b>Pulse width in Q-switch mode</b>	10 - 30 ns	10 - 30 ns	10 - 30 ns
<b>Energy stability</b>	< 1 % rms	< 1 % rms	< 1 % rms
<b>Spatial Beam Mode</b>	TEM00	Multimode	Multimode
<b>Beam divergence</b>	< 0.3 mrad	< 0.3 mrad	< 0.3 mrad
<b>Polarization</b>	Linear (1:100)	Linear (1:100)	Linear (1:100)
<b>Pump</b>	High Power Pulsed diode Laser		

Specifications of the different systems about OLSER series





Proton Laser Applications, S.L.  
Av. Vilafranca del Penedès, 11A, 1a planta  
Pol. Ind. Sant Pere Molanta  
08734 Olèrdola  
Barcelona

[www.protonlaser.com](http://www.protonlaser.com)