

TLS high energy sub-ns laser system – Preliminary specification sheet



Picture of the laser head

1. Optical performance

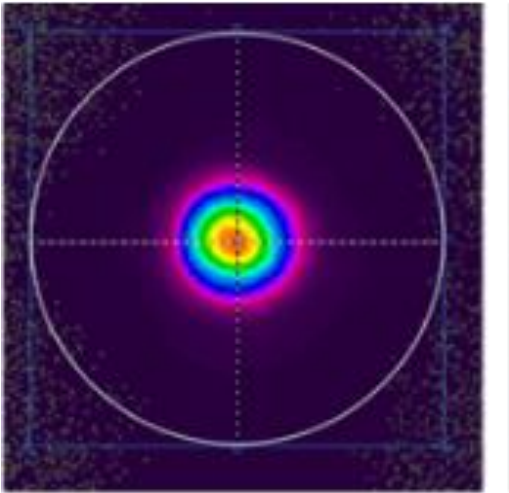
SPECIFICATIONS	
Wavelength	1064 nm
Repetition rate	1 kHz
Pulse duration	650 ps
Pulse energy	2 mJ
Beam quality	$M^2 < 1,3$
PER	> 20 dB

The laser head is water cooled.

The laser is provided with a power supply for the pump diode and a GBF to control the QCW pumping.

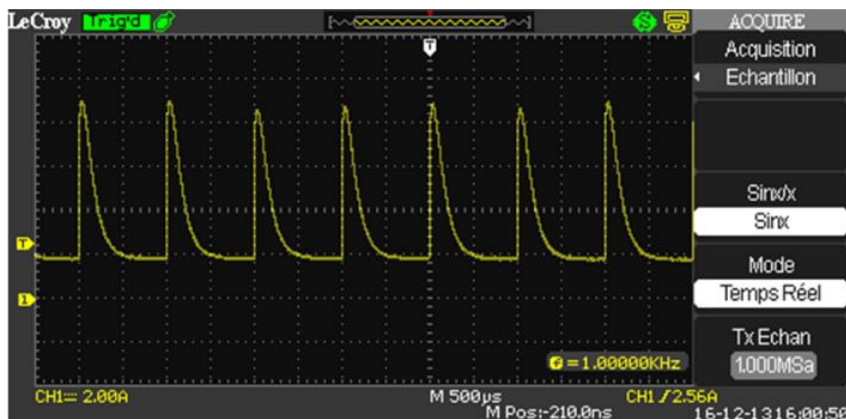
2. Technical data

- Beam Quality (Waist)



Typical M^2 value is $M^2 < 1.1$

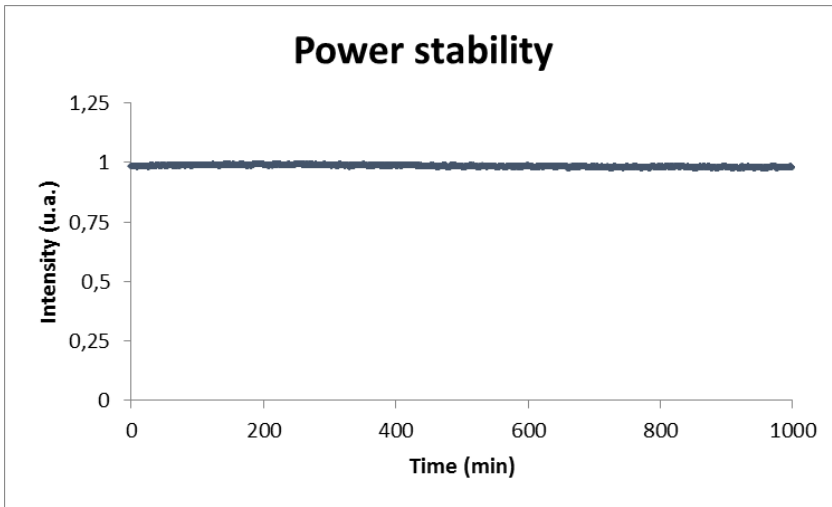
- Pulse train



The repetition rate is set to 1 kHz.

The pump diode is used in QCW mode.

- Power stability



- Dimensions

