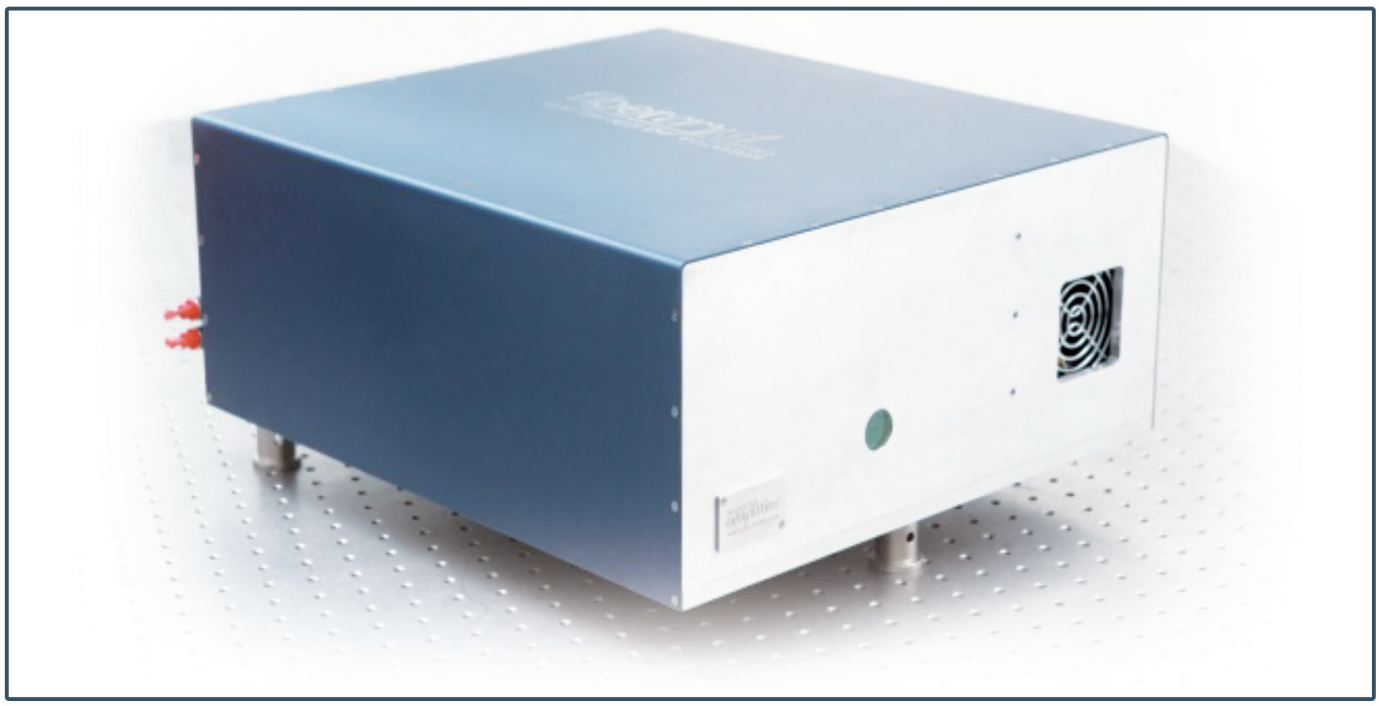
Taranis Laser System

@1064nm / 2mJ / 3MW / 500 ps

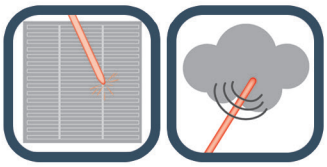


Fibercryst provides a unique 1064 nm sub-ns laser system delivering more than 3MW peak power. The laser designed for research and test labs is a standalone unit combining a commercial seed laser with the Fibercryst amplifier technology. It takes full advantages of the Taranis technology providing polarized beam, TEM_{00} output and 2mJ pulse energy.

> AFFORDABLE HIGH POWER LASER
> DESIGNED FOR LABS
> MOPA ARCHITECTURE

APPLICATIONS

The main applications are machining of hard material, biology, LIBS, LIDAR, nonlinear optics such as supercontinuum, OPO, THz generator and many others.



SPECIFICATIONS

Wavelength	1064 nm
Repetition rate	1 kHz
Pulse duration	450-580 ps
Pulse energy	2 mJ
Min. Peak power	3 MW
Beam quality	M2 < 1.3
PER	> 20 dB
Amplitude noise (10h)	< 3% RMS
Operating Temperature	15-30°C
Power consumption	3 kW

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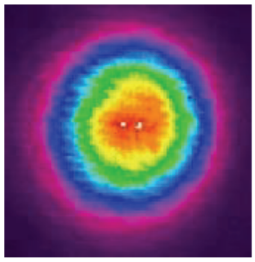
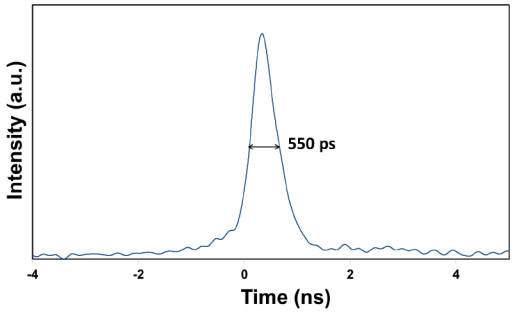
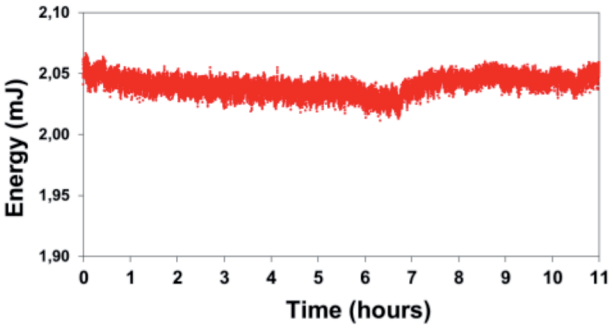
TYPICAL DATA



TEM00 beam (M^2 = 1.15 x 1.15)

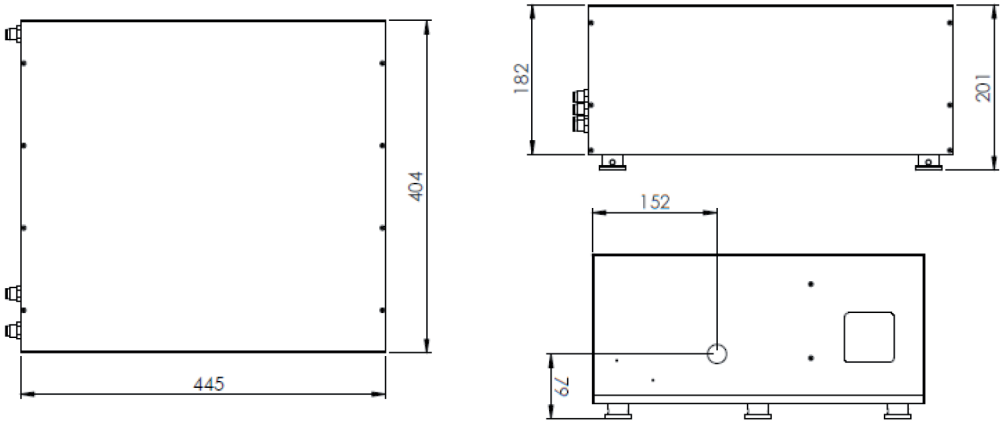


Sub-ns pulse shape



Energy stability over 10 hours

MECHANICAL INTERFACE



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