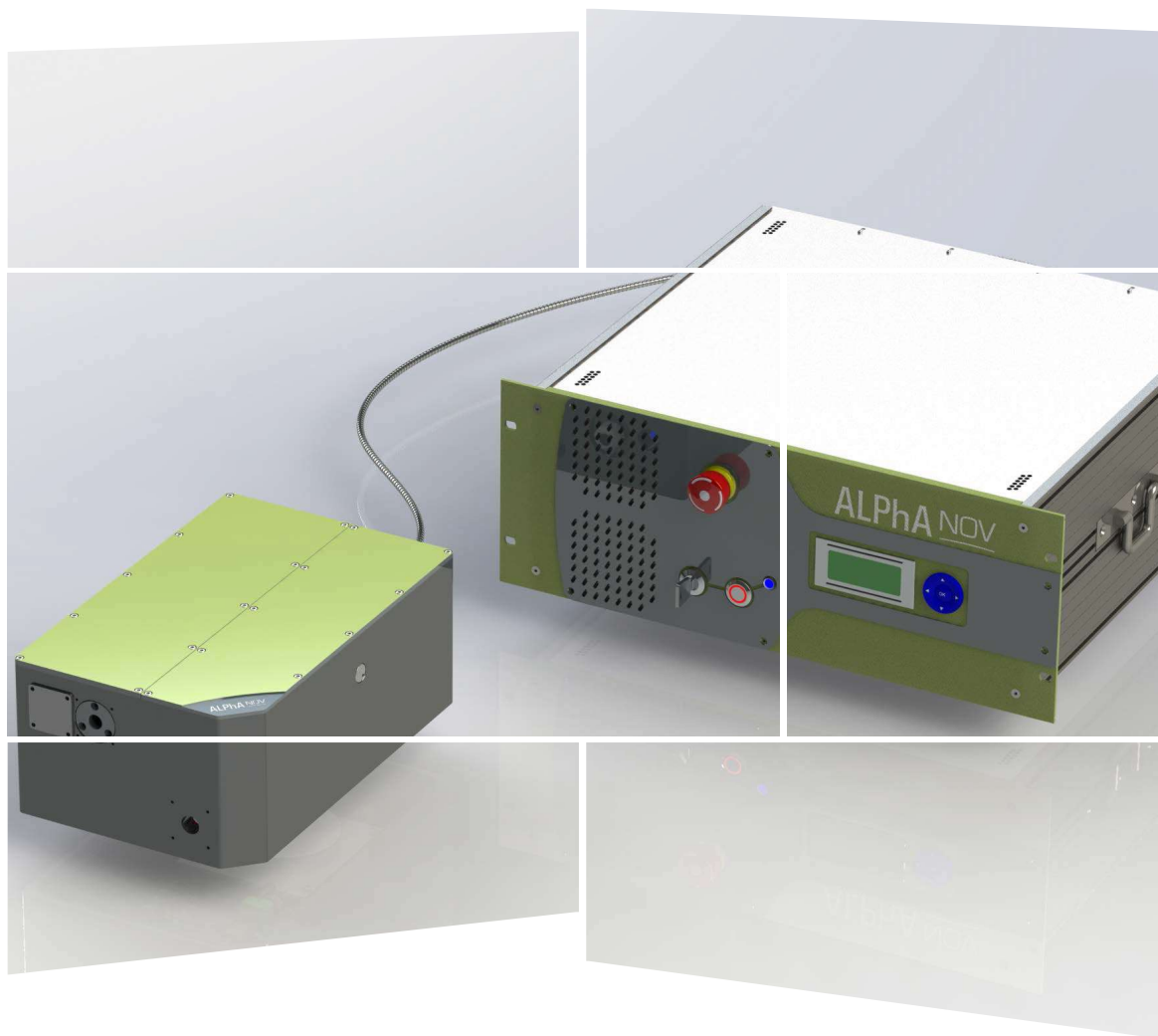


Ti-PULS

新一代 800nm sub-40 fs 光纤激光器



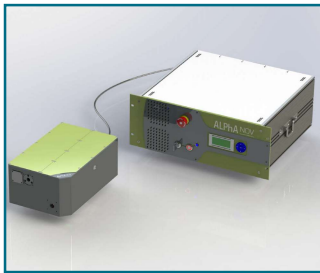
ALPhA **NOV**

Optics & Lasers Technology Center

Ti-PULS

New generation of sub-40 fs fiber laser at 800 nm

Ti-PULS, specially designed to seed Ti:Sapphire amplifier, is a new product completing our PULS product line. This laser benefits from our legacy in modelling, designing of innovative fiber laser sources and components.



Based on all-PM fiber frequency doubled femtosecond mode-locked oscillator, our laser offers a unique, monolithic solution to seed Ti:Sapphire amplifiers, for applications in multiphoton imaging, and biophotonics.

Features

- Cost-effective alternative to existing Ti:Sapph seeders
- Air-cooled, compact, robust optical integration
- Environmentally stable output
- Lowest pulse duration and high pulse energy available for a fiber laser
- [Laser customization](#)

Applications

- Seeding Ti:Sapph lasers
- Biophotonics
- Ultrafast Time Domain Spectroscopy
- Multiphoton Microscopy
- Supercontinuum generation

Options

- Stretcher (> 200 ps), GVD post-compensation
- Fiber delivery
- 1600 nm & 800 nm output

Specific developments upon request

Technical Specifications

Optical

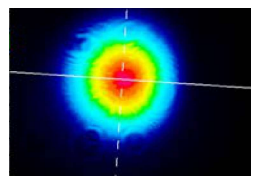
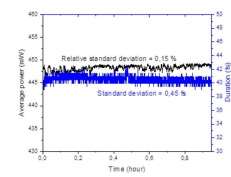
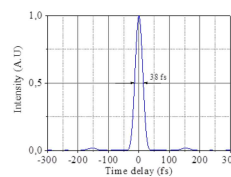
Wavelength	800 nm +/- 10
Average power	> 75 mW
Spectral width	> 22 nm
Pulse duration	< 40 fs
Repetition rate	40 MHz (other frequency upon request)
M ²	< 1,2
Ellipticity	> 0,92
Beam waist diameter	2-5 mm
Output coupling	Free space (fibered delivery as an option)
Power stability	~ 1% RMS
Polarization	Linear (PER > 20 dB)

Electrical

External interface	USB, RS232, output trigger
Software interface	ALPhANOV GUI, serial communication protocol
Compatibility & libraries	Ubuntu / Windows 7 / 10 ; DLLs-Hexa

Mechanical

Dimensions laser head / laser controller dimensions	30 x 15 x15 cm / 4U rack
Cooling	Air





西诺光学
XINUO PHOTONICS

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