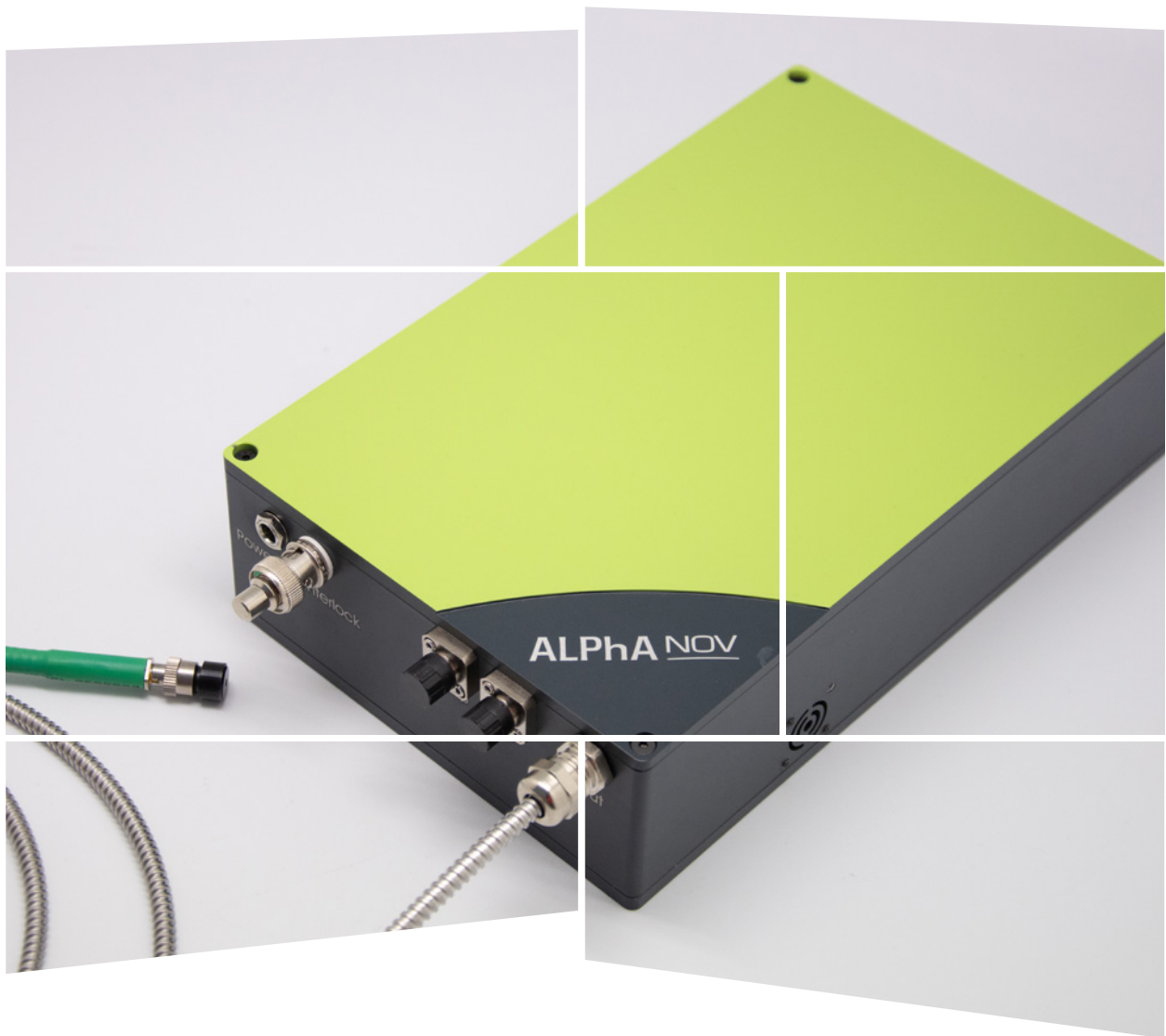


Er-PULS-fs

New generation of sub-100 fs
fiber laser at 1560 nm



ALPhA NOV

Optics & Lasers Technology Center

Er-PULS-fs

New generation of sub-100 fs fiber laser at 1560 nm

Er-PULS-fs, 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 for various applications.



FEATURES

- Cost-effective
- Air-cooled, compact, robust optical integration
- Environmentally stable output
- [Laser customization](#)



APPLICATIONS

- THz generation
- Multiphoton, THG microscopy
- Mid-IR generation
- Optical Coherence Tomography (OCT)

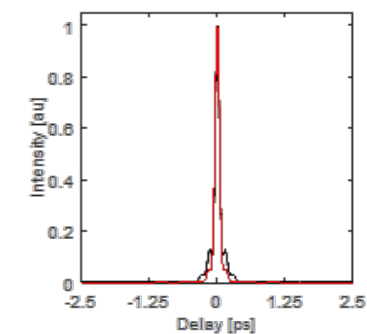
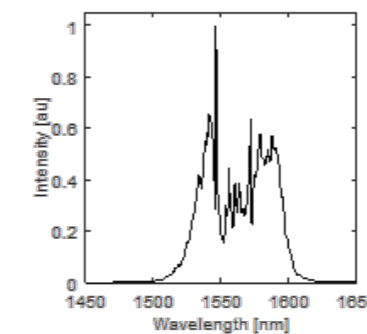


OPTIONS

- Fiber delivery
- SHG @780 nm

Technical Specifications

	Er-PULS-fs	Er-PULS-fs-HP
Optical		
Wavelength	1560 nm +/- 10	
Average power	> 150 mW @ 40 MHz	4 W @ 40 MHz
Spectral width	> 40 nm	
Pulse duration	< 100 fs	< 600 fs
Repetition rate	40 MHz	
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	230 x 145 x 55 mm	TBC
Cooling	Air	



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