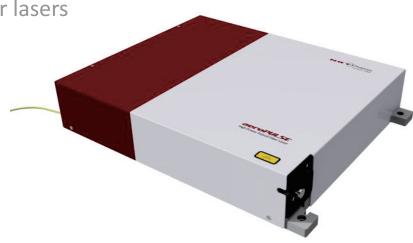


aeroPULSE FS

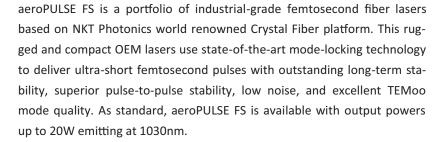
High power femtosecond fiber lasers

- Up to 20W average power
- 20uJ/pulse @ 1030nm
- Variable pulsewidths <500 fs to 3 ps
- Up to 20 MHz repetition rate
- Excellent beam pointing stability
- All-fiber design, industrial reliability
- System monitoring via remote diagnotics
- No warm-up time instant ON



Applications

- Femtosecond micromaching
- Glass cutting and drilling
- Wafer scribing
- Medical device fabrication
- Thin film ablation
- Material processing
- Ceramic and polymer processing

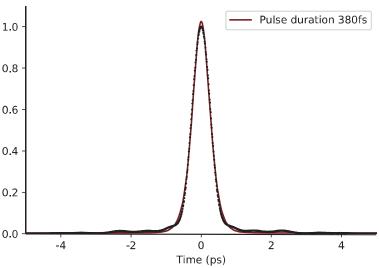


The aeroPULSE FS lasers were developed for demanding 24x7 OEM applications, highlighting unit-to-unit consistency and uptime, low cost of ownership, and ease of integration. Designed for the stringent requirements of materials processing and micromachining applications where superior reliability is a mandatory attribute.

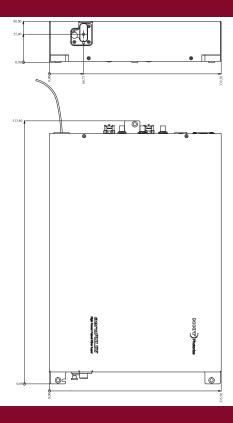
The system configuration consists of a 19" rack-mountable control unit and a very low profile laser head that can be mounted either horizontally or vertically. The complete system can be either air-cooled for low output power performance or water-cooled for high output power performance.



Typical pulse auto-correlation trace



aeroPULSE FS offers high stability after only a few seconds with no warm-up time.



Support and Warranty

aeroPULSE support/warranty

All aeroPULSE products comes with industry leading reliability and are backed by our standard 2 year warranty. However, should you need the extra security of an extended warranty and remote diagnostics support this is available in our support and warranty extension package. Please contact your sales representative for more information.

Lifetime

The aeroPULSE systems are driven by our proven pulsed platform used in the SuperK EXTREME supercontinuum lasers. Consequently, the systems are completely maintenance free and has an expected lifetime of more than 20,000 hours.

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Specifications

Optical

Power ¹⁾	Up to 20 W
Wavelength ¹⁾	1030 nm
Energy per pulse	Up to 20 μJ
Pulse duration	<500 fs to 3 ps
Repetition rate, adjustable ¹⁾	200 kHz - 1 MHz
Polarization	Linearly polarized, PER > 17 dB
Beam diameter	~1 mm
Beam divergence	1.6 ± 0.2 mrad
Spatial mode	Fundamental, M ² ≤ 1.2
Power fluctuation (50 hours)	< 0.5 %
Warm-up Time	< 1 min

¹⁾ Other values available on request

Mechanical/Electrical

Computer Interface		USB, RS 232
Operation Voltage		100-240 VAC 50/60 Hz
Power Consumption		<330 W
System Cooling		Air or water cooled
Chiller		Included (rack mount or floor stand)
Operation Temperature		18-30°C
Storage Temperature		-10°C to +60°C
Dimensions (WxHXL)	Laser head	335x80x513mm
	Control box	375x177x440mm (4U 19" rack)
	Chiller	330x197x279mm (floor stand) 432x177x438mm (rack mount)
Weight	Laser head	10.2 kg
	Control box	Up to 14.7 kg
	Chiller	3 kg

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All NKT Photonics products are produced under our quality management system certified in accordance with the ISO 9001:2008





