



ALTAIR Series

High repetition rate, High power femtosecond fiber laser



ALTAIR produces high average power with ultrashort femtosecond pulses (<100 fs onwards) at high repetition rate (40 MHz or 80 MHz) in a compact and robust format. ALTAIR is a fiber laser providing high stability and excellent beam quality.

Integrating state of the art high-power fiber amplifiers and pulse management, ALTAIR offers remarkable pulse quality at high average power with no maintenance required.

ALTAIR embeds perfectly into any kind of systems working in a 24/7 operating environment, year-wide. Its very reduced footprint, weight and capital investment make it the money-maker you need.



KEY FEATURES

- Average power from hundreds of mW to 20W
- From <100 fs pulse duration.
- High repetition rate
- Excellent beam quality
- Low timing jitter
- Compact package, Rugged design, Plug-and-play
- Maintenance free

APPLICATIONS

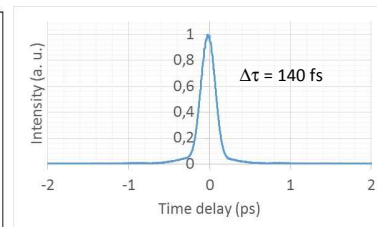
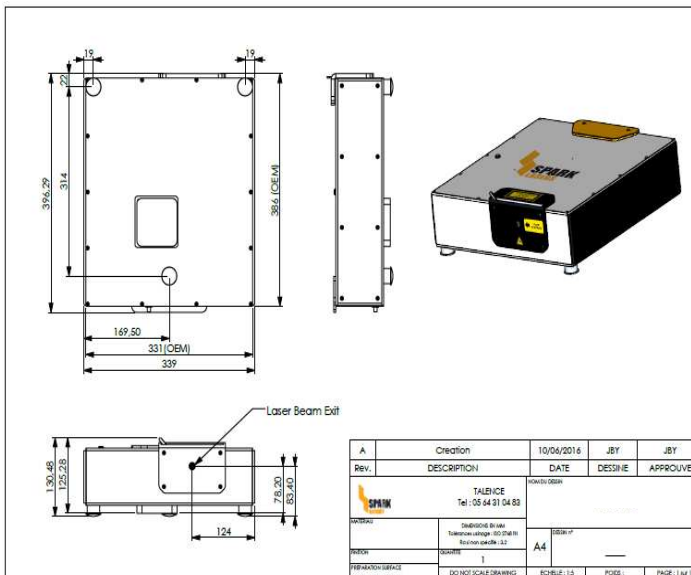
- Multiphoton microscopy
- Optogenetics
- Terahertz generation

OPTIONS

- GDD pre-compensation (-130 000fs²)
- SHG & THG upon request
- F-SYNC: Fine-tuning rep. rate synchronization

Technical Specifications*

Model	ALTAIR Series			
Average Power	< 2W	5W	10W	20W
Wavelength	1030 - 1050 nm			
Pulse duration	<100 fs	< 140 fs		
Repetition rate	20 - 80 MHz	40 MHz	80 MHz	
M ²	<1.2			
Beam waist diameter	1 mm			
Beam pointing	<25 μ rad/ $^{\circ}$ C			
Ellipticity	>0.9			
Warm-up time	< 15 min			
Power stability	<1% RMS			
RMS noise	<1% RMS			
Polarization	Linear, >100:1			
External Interfaces	High speed External synchronisation (USB, Sync. Out)			
Software interfaces	Intuitive GUI, DLL and Serial communication Protocol			
Laser head dimensions (mm ³)	397 x 339 x 131			
Laser controller dimensions	19"/3U rack			
Standard umbilical length	3 m			
Power consumption	100 to 240 VAC < 400 W			
Cooling	Air cooled			
OPTIONS	GDD pre-compensation (-130 000fs ²)			
	SHG & THG upon request			
	F-SYNC: Fine-tuning PRF synchronization			



CAUTION
 CLASS 4 LASER PRODUCT
 VISIBLE AND INVISIBLE LASER RADIATION
 AVOID EYE OR SKIN EXPOSURE TO DIRECTOR
 SCATTERED RADIATION

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