



ANTARES Series

High repetition rate, High power picosecond fiber laser



ANTARES produces high average power with short (<10 ps) pulses at high repetition rates (40 MHz or 80 MHz) in a compact and robust format. Offering one of the World's lowest cost of ownership, high precision and easiness of integration, ANTARES is ideally suited for industrial and scientific applications such as OPO pumping.

Integrating state of the art high-power fiber amplifiers, ANTARES offers remarkable spectral, temporal and spatial quality at high energy and high average power.

ANTARES 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.



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KEY FEATURES

- Average power from hundreds of mW to 20W
- QCW – <10 ps
- High repetition rate
- Narrow linewidth
- $M^2 < 1.2$
- Low timing jitter
- Compact package, Rugged design, Plug-and-play

APPLICATIONS

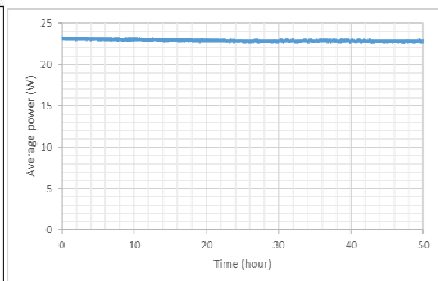
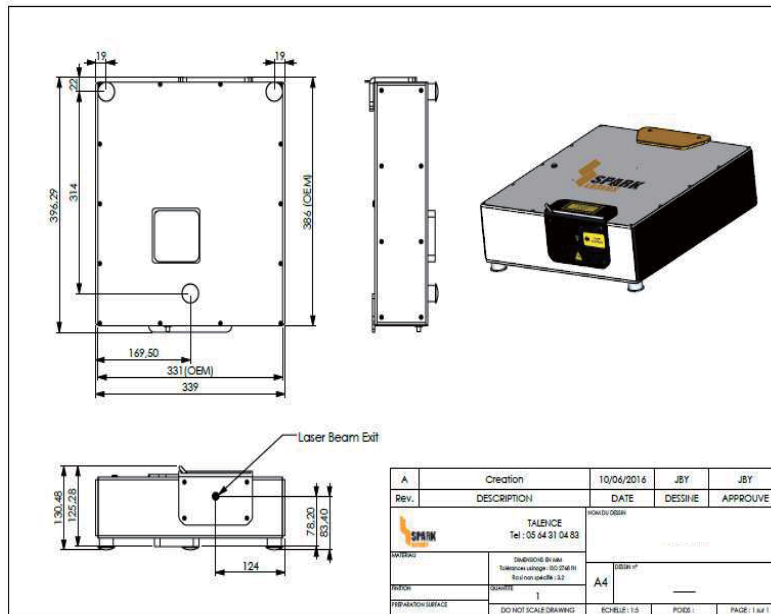
- Efficient pumping of OPO
- Time-Correlated
- Single Photon Counting,
- Fluorescence Lifetime Imaging,
- Semiconductor inspection,
- CARS spectroscopy.

OPTIONS

- SHG & THG upon request
- F-SYNC: Fine-tuning rep. rate synchronization

Technical Specifications*

Model	ANTARES Series
Average Power	From tens of mW to 20W
Wavelength	1030 or 1064 nm (upon request)
Spectral width	< 1 nm
Pulse duration	< 10 ps
Repetition rate	40 MHz or 80 MHz
M ²	<1.2
Beam waist diameter	1 mm
Beam pointing	<25 μ rad/°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	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

This information is subject to modifications without prior notice.

SPARK LASERS offers a 24-month warranty for all ALTAIR laser range.

For full details of this warranty coverage, please contact us at: info@spark-lasers.com or call: +33 564 310 484



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Rue François Mitterrand
33400 Talence
FRANCE

Contact

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