

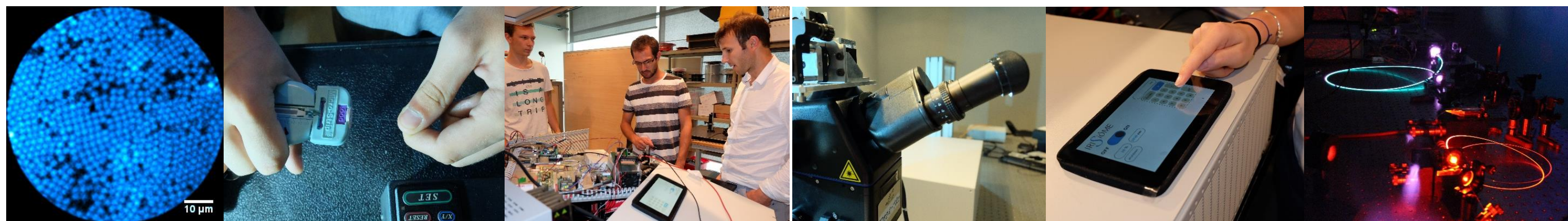
ABOUT US

IRISIOME is a French startup company from Bordeaux, in France founded in 2015. The company is the result of a project valorization led by the CELIA Laboratory (CEntre Lasers Intenses et Applications) which was aiming at developing a user friendly and simple laser source for medical applications. Since the beginning of the project our team has strengthened its expertise by developing an innovative laser architecture which would be easily integrated in any experiment or system.

Willing to widen its offer and confront its laser sources to challenging applications, IRISIOME has created a new brand, IRISIOME Solutions, fully dedicated to the scientific and R&D markets. To be able to fulfill our users' specific requirements, we are making ourselves available to take up any challenge and new developments that will push our systems to the highest level of performance.



IRISIOME SOLUTIONS



CONTACT US



IRISIOME SOLUTIONS
1 Rue François Mitterrand
33400 Talence – FRANCE

+33 6 17 03 32 16
contact@irisiome-solutions.com

www.irisiome-solutions.com

Follow us on LinkedIn



High-end Tunable Picosecond Fiber Lasers for Sciences and R&D

OUR TECHNOLOGY

We are developing fiber lasers in the near infrared, Our differentiation is based on two main innovations developed by Laser and electronics researchers from the CELIA (CEntre de Laser Intense et Application) and the LP2N (Laboratoire Photonique Numérique & Nanosciences).

The main benefit of our specific architecture is to offer a very user-friendly solution without giving up on versatility. Thank to the pulse gating technology, we can tune the pulse duration from ten's picoseconds to few nanoseconds and the repetition frequency from single-shot to few GHz. We also have the capability to deliver lasers that are wavelength tunable in the infrared. Depending on output power and wavelength, fibered or free-space output are available.

Our team members have a long experience in development and industrialization of fiber laser technologies and dedicate their work to reach the highest level of quality and reliability.



Many wavelength in IR around 1 μm and 1,5 μm . SHG available.



Pulsed lasers with 35 ps to few ns pulse duration.



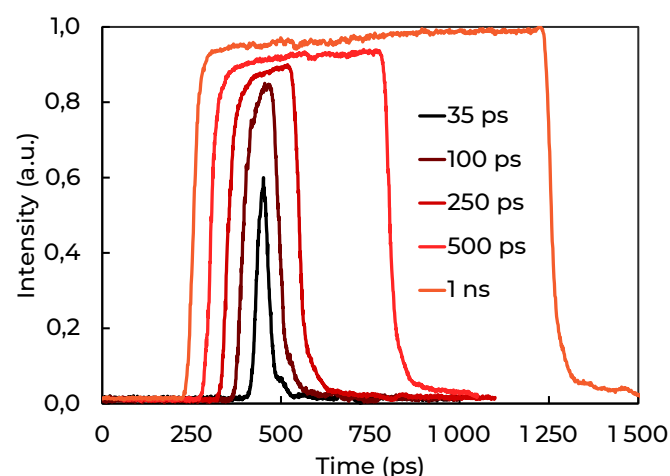
Tunable pulse repetition frequency up to 2 GHz.



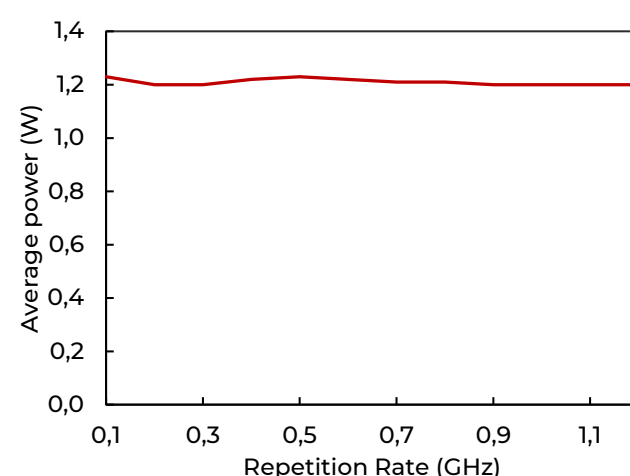
Multistage fiber amplifier from > 10 mW to > 20 W.



Compact, turn-key master/slave system.



Temporal pulse profile measured with a photodiode from 35 ps to 1 ns.

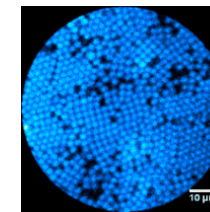


Pulse repetition rate tunability over hundreds of MHz.

OUR APPLICATIONS

One of our laser source was integrated into a dermatologic system and has successfully demonstrated on-site clinical results on tattoo removal. These tests have been conducted in partnership with the University Hospital of Nice in France.

<http://www.dermatochunice.com/>



This picture represents second harmonic generation imaging of fluorescent beads. It was obtained by the bio imaging group MOSAIC from the Institut Fresnel in Marseille, using a Sid Laser system.

<http://www.fresnel.fr/mosaic>

Other typical applications are :

- Seed for high power lasers,
- Laser research,
- Advanced microscopy,
- Spectroscopy,
- Bio-photonics,
- Nonlinear optics.

OUR PRODUCTS

	SID SERIES	MANNY SERIES
Central Wavelength (1)	1030 nm, 1064 nm or 1550 nm, 1560 nm	
Wavelength tunability	NO	NO
Frequency doubling	YES	YES
Avg. Output Power (2)	From > 10 mW to > 20 W	
Power stability	< 2 % RMS	
CW or Pulsed	Pulsed, up to 1 μJ pulse energy	
Pulse duration	fixed, 35 ps	Tunable & adjustable from 35 ps to few ns
Timing jitter (3)	< 10 ps RMS	
Repetition rate	Single-shot up to 2 GHz	
Ext. synchronization	Master/Slave	
Polarization	Linear, > 20 dB	
Beam quality	Fibered output or free-space, $M^2 < 1,3$	
Cooling system	Air cooled	

(1) Other wavelength available upon request
 (2) Typical average power in IR
 (3) Depends on clock or sync signal

