

fiber*cryst*

Femtosecond Lasers

Fast & Steady wins the race

Fibercryst

Laser excellence since 2003

- Created in 2003
- Located near Lyon, France
- Clean rooms for R&D and production
- 12 people, including 6 PhD's in laser, 2 engineers, 2 techs
- Technical competences: optics, electronics, mechanics, thermal
- Several partnerships with research institute and industrial partners.
- 1,5 ~ 2 M€ turn-over company



FIBERCRYST History

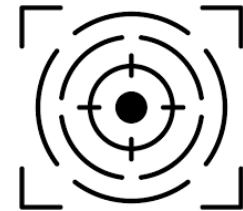
Year	Index	Fiberocryst Activity
2003	1.0	. Creation for crystalline fiber manufacturing . Setting patent portfolio on laser amplification
2011	2.0	Commercialization of laser amplification products: TARANIS and customized amplifiers
2016	3.0	Commercialization ultra-short industrial lasers
2023	4.0	Serving scientific and industrial applications thanks to a multi-technology portfolio (TARANIS, Calgo)

Our Ambition : to provide laser-based industrial solutions enabled by state-of-the-art R&D

- To grow Fibercryst from an R&D nuggets to a strong industrial player (offering innovative technologies)
- Unique portfolio of laser solutions to satisfy the existing and future scientific and industrial applications
- A strong network of partners to address new fields of applications (energy, healthcare, green cities...)
- Expert management team and a plan to expand Fibercryst thanks to larger premises, stronger R&D team and manufacturing capabilities and partner

Why choosing Fibercryst?

- Proven proprietary technology for an high average power and an excellent beam profile amplification of the laser beam
- Beam pointing stabilization as an opportunity
- Agility to tune FIBERCRYST solutions to customer needs



Industrial and Scientific portfolio

Two Product Lines

The Industrial Product Line

Preludio

50 W



< 350fs



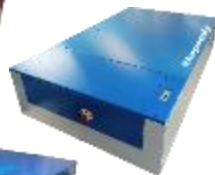
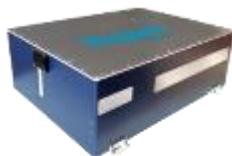
Ultra < 80fs

Rhapsody

Laser Series

120 W – 200 W (IR)

50 W (UV)



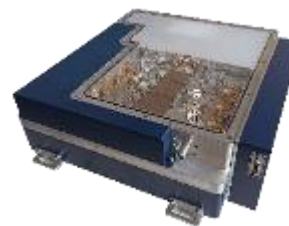
The Scientific & Custom Product Line



Esus

Series

Building block amplifier
from 100 mW to 500 W



Custom Amplifiers



- DPA
- Amplifier from mW to 300 W

Product portfolio

The Industrial Product Line

Products

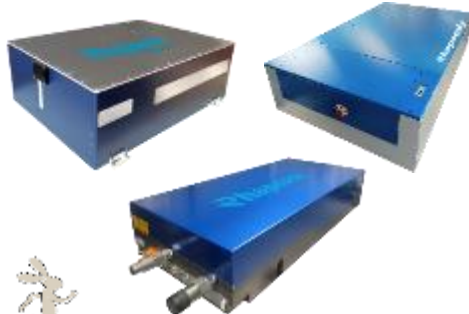
Preludio



- Up to 50 W
- Up to 40 μ J
- < 350 fs and < 80fs
- $M^2 < 1.2$
- From single shot to 5 MHz
- PSO
- BURST
- UV Conversion module
- All-in-One Box

Rhapsody

Laser Series



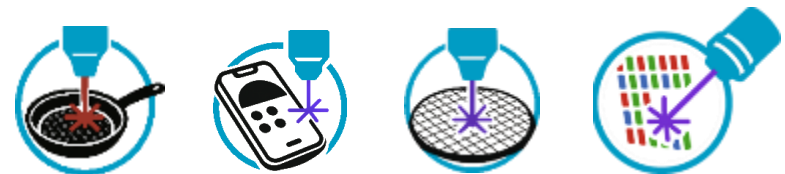
- From 60 W to 200 W
- Up to 1 mJ
- < 500 fs
- $M^2 < 1.3$
- From 200 kHz to 1 MHz
- PSO
- BURST & PSO
- Harmonics

Applications

Transparent material processing (surface or in-bulk marking)



Metal & ceramic material processing (surface texturing, ablation), Precision cutting (smartphone screen); scribing on dice (microelectronic wafer), pixel neutralization



Product portfolio

The Scientific & Custom Product Line

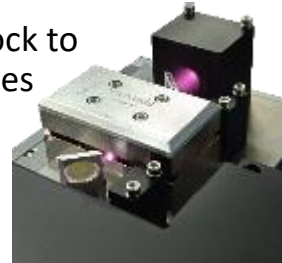
Products



- Continuous or pulsed regime
- λ 1030 \pm 2nm
- From 100mW to 500W
- Easy-to-use

Applications

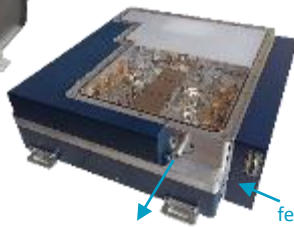
High performing building block to boost your laser performances



Custom Amplifier



DPA-based



300 W output

few mW Fibered input

- CW, ns, ps and fs regimes
- Yb:YAG or Nd YAG
- Robust Mechanical mounts
- State of the art industrial electronics
- Input hollow-core fiber
- Divided Pulse Amplification on request
- Harmonic module on demand

Upon request

Thank you

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