

Rhapsody Laser Series

by fibercryst

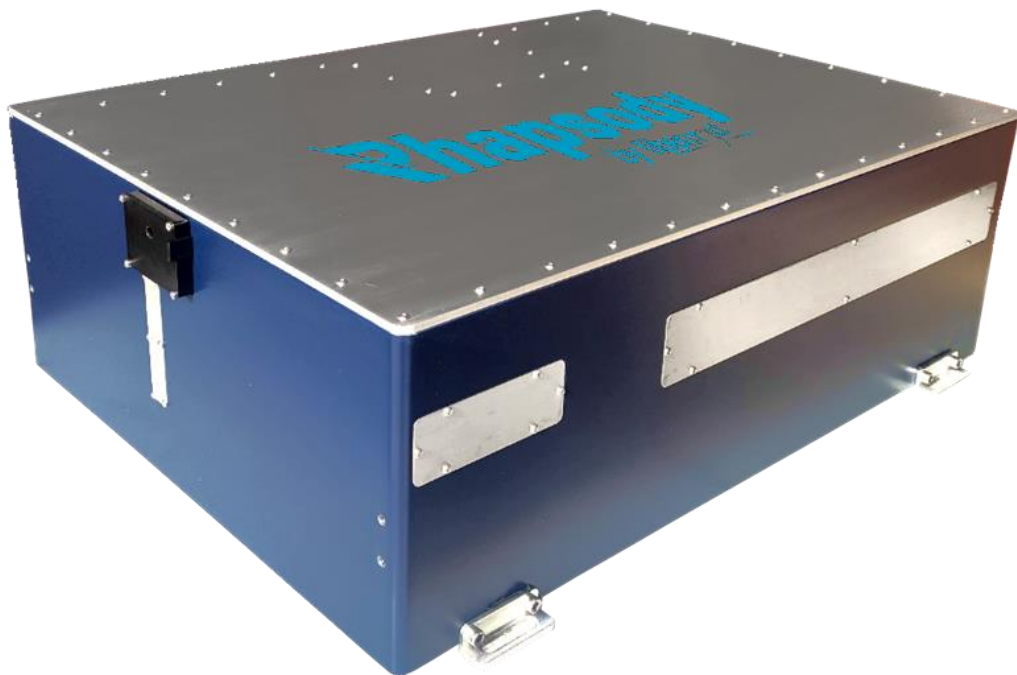
Rhapsody

The Industrial femtosecond laser powered by Taranis

Rhapsody Laser series is a range of powerful industrial femtosecond lasers offering output power up to 200W and pulse energies in excess of 500μJ, with pulses shorter than 500 fs.

Based on our unique technology (patented Taranis Single Crystal Fiber), it enables high pulse energy and flexible repetition rate. This unique architecture provides excellent reliability and beam quality, all in a compact packaging.

The ultra-short pulse-widths, high energy and high power combined with all other features (like Position Synchronized Output and flat-Burst) enable to achieve cost-efficient industrial processes.



Specifications

	Rhapsody 4019 HE	Rhapsody 4021 S	Rhapsody 4021 HHE
VERSION	HIGH ENERGY	STANDARD	VERY HIGH ENERGY
Average Power - IR	60-90 W	120 W	120 W
Repetition Rate	200 kHz – 600 kHz	1 MHz	240 kHz
Pulse Energy	300 µJ – 150 µJ	120 µJ	500 µJ
Average Power Stability	< 2%		
Center wavelength	1030 nm ± 2		
PER	> 20 dB		
Polarization direction	vertical		
Pulse duration	< 500 fs		
Beam diameter ^(a)	2 mm		
Beam divergence	2 mrad		
Beam Ellipticity	≥ 0.9		
Beam Quality (X/Y)	M ² ≤ 1.3		
Warm-up time	< 30 min		
Footprint ^(b) (L x l x h)	645 x 480 x 220 mm		
Weight ^(c)	76 kg		

(a) Other diameters on request

(b) Dimensions of Laser Head. Does not include PSU dimensions
PSU dimensions : 560 x 430 x 134 mm

(c) Weight of Laser Head. Does not include PSU weight.
PSU weight : 9 kg

Features

- On request

PSO

Position Synch. Output

Programmable - Burst

- Programmable number of pulses (up to 10)
- Programmable single pulse amplitude

Cooling

Water-cooled



Subject to change without notice. Please check for the latest version on our website

sales@fibercryst.com