

Rhapsody Laser Series *by fibercryst*

Rhapsody 4023

The Industrial femtosecond laser powered by Taranis

Rhapsody 4023 is a powerful industrial femtosecond laser delivering up to 200 W of average power and up to 200 μ J of pulse energy, with pulses shorter than 350 fs.

Built on Fibercryst's patented Single Crystal Fiber technology, Rhapsody 4023 combines high pulse energy, short pulse duration and excellent beam quality at full average power, in a compact and sealed head.

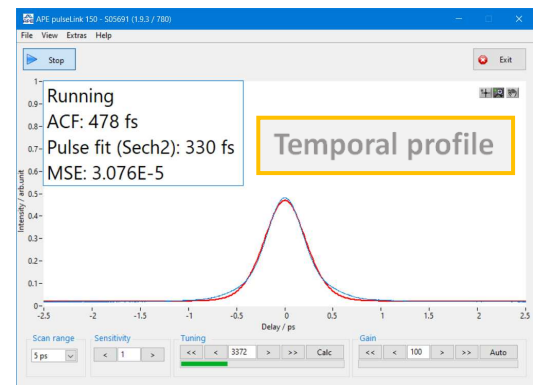
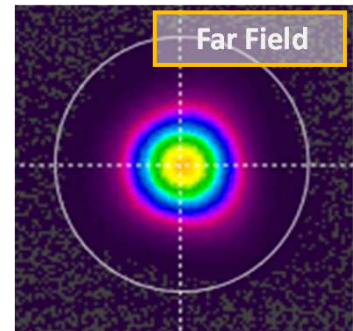
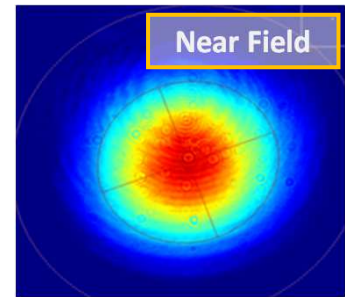
Combined with Position Synchronized Output, active beam stabilization and programmable burst mode, Rhapsody 4023 is designed for cost-efficient, high-throughput industrial processes.



Specifications

	Rhapsody 4023
Average Power	200 W
Repetition Rate	Single shot to 5 MHz
Pulse Energy ^(a)	200 μ J
Average Power Stability	< 2%
Center wavelength	1030 nm $\pm$ 2
PER	> 20 dB
Polarization direction	vertical
Pulse duration	$\leq$ 350 fs
Beam diameter ^(b)	From 4 mm to 7 mm
Beam divergence	< 1 mrad
Beam Ellipticity	$\geq$ 0.8
Beam Quality (X/Y)	$M^2 \leq 1.3$
Warm-up time	< 30 min
Footprint ^(c) (L x l x h)	970 x 490 x 220 mm
Weight ^(d)	130 kg

- (a) @1MHz
 (b) Other diameters on request
 (c) Dimensions of Laser Head. Does not include PSU dimensions
 PSU dimensions : 350,8 x 440 x 44 mm
 (d) Weight of Laser Head. Does not include PSU weight.
 PSU weight : 6 kg



Features

* Upon request

Highlights

Programmable Burst

Green or UV *

PSO

Position Synch. Output

Active Beam Stabilization

Closed-loop correction of beam pointing

All-in-One Box

Fully integrated laser head with electronics

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

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