

For every industrial need

Yuja

Ultra-compact and high energy femtosecond laser

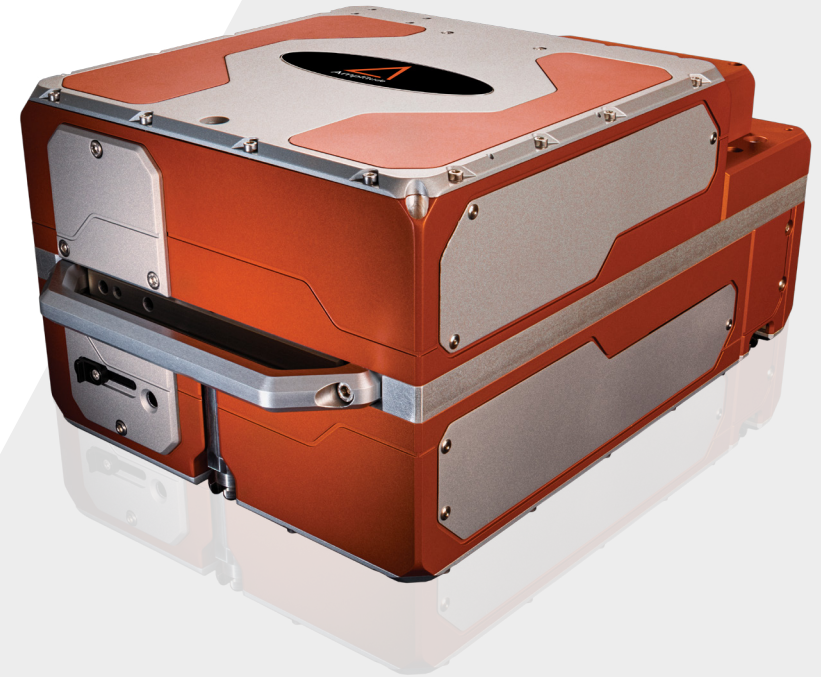
High quality laser for drilling and cutting

Yuja is a powerful femtosecond laser offering a high repetition rate (going up to 40 MHz and adjustable according to your needs). Thanks to its small dimensions, it can be implemented in all production configuration.

Versatile and full-featured, Yuja femtosecond laser is equipped with: the customization function FemtoBurst™ (choose the number of pulses, their rhythms, time between each pulse between 25 to 100 ns, etc.), the trigger on demand for selecting individual pulses, SuperSync Control for getting more precise synchronization with a high speed scanning system.

Thanks to our proprietary method FemtoGlass™, Yuja femtosecond laser is the ideal solution for cutting glass up to 700 µm in one pass.

Yuja is part of Amplitude's femtosecond lasers range, internationally recognized as reliable and stable. Their very short pulse widths lead to both the lowest heating effect on the market and the best ablation efficiency, reaching an unparalleled process quality.



Applications

Industry:

- > Microelectronics
- > Micromachining

Science:

- > Ultrafast Spectroscopy

Medical:

- > Medical Device Manufacturing

Key Features

- > FemtoBurst™
- > Trigger on demand - FemtoTrig™
- > SuperSync Control
- > Industrial design for 24/7 operations
- > Optional green and UV outputs

Specifications

Yuja

Average power	> 10 W
Energy per pulse	> 100 μ J
Repetition rate	From single shot to 40 MHz
Central wavelength	1030 +/- 5 nm
Beam circularity	> 87 %
Beam pointing stability	< 25 μ rad/ $^{\circ}$ C
Long term mean power stability	< 1 % rms over 100 hours
Warm-up time	< 30 min

Dimensions

All Models	45 x 23 x 17 cm
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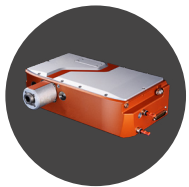
Weight

Head	21 kg
Controller	18 kg

Cooling

All Models	Water-cooled
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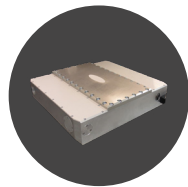
Options



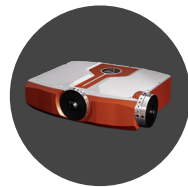
SHG / THG
Built-in



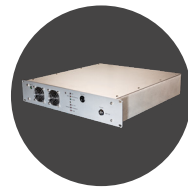
Mango OPA



Non Linear
Compression



GLASS



Synchrolock