

*For every industrial need*

# Yuja

*Ultra-compact and high energy femtosecond laser*

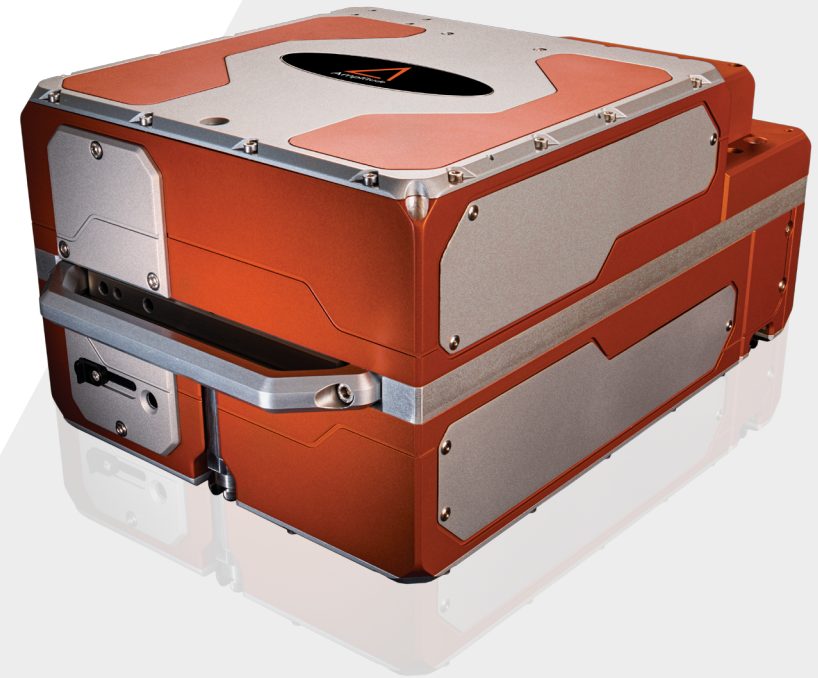
## *High quality laser for drilling and cutting*

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.) and the 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™
- > SuperSync Control
- > Industrial design for 24/7 operations
- > Optional green and UV outputs

# Specifications

Yuja

|                                |                            |
|--------------------------------|----------------------------|
| Average power                  | > 10 W                     |
| Energy per pulse               | > 100 $\mu$ J              |
| Pulse Width                    | < 500 fs                   |
| Repetition rate                | From single shot to 40 MHz |
| Central wavelength             | 1030 +/- 5 nm              |
| Beam Quality                   | $M^2 < 1.2$                |
| Beam circularity               | > 87 %                     |
| Beam pointing stability        | < 25 $\mu$ rad/°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 |
|------------|-----------------|

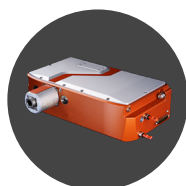
## Weight

|            |       |
|------------|-------|
| Head       | 21 kg |
| Controller | 18 kg |

## Cooling

|            |              |
|------------|--------------|
| All Models | Water-cooled |
|------------|--------------|

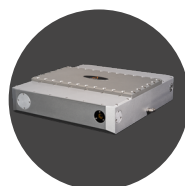
# Options



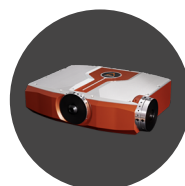
SHG / THG  
Built-in



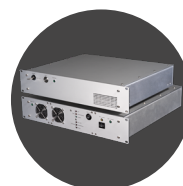
Mango



Compress



GLASS



Synchrolock

