## For every industrial need

# Satsuma

## Versatile, full-featured and compact femtosecond laser

The Satsuma family of femtosecond laser offers versatility in the most compact aircooled laser platform on the market. Satsuma is a cost-efficient solution providing high repetition rate and high energy, up to 150 μ].

Versatile and full-featured, Satsuma femtosecond lasers are equipped with: FemtoBurst<sup>™</sup> (choose number of pulses, rhythms, time between each pulse from 25 to 100 ns) and SuperSync Control for getting more precise synchronization with a high speed scanning system. Satsuma femtosecond laser is available with green, UV and deep UV outputs.

With more than 1 500 Satsuma installed around the world, this laser product range is a best-seller. Our customers highly appreciate the ease of integration, and its unsurpassed engraving quality.

Satsuma is part of Amplitude's femtosecond laser 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.

Medical:





### Industry:

- > Microelectronics
- > Micromachining
- > Flat Panel Display Repair

#### Science:

- > Multiphoton Imaging
- > Optogenetics
- > Ultrafast Spectroscopy



- > Air-cooled up to 20 W
- > FemtoBurst<sup>TM</sup>
- > SuperSync Control
- > Optional green, UV and DUV outputs
- > Industrial design for 24/7 operation



Specifications	Satsuma	Satsuma HP	Satsuma HP <sup>2</sup>	Satsuma HP <sup>3</sup>
Average Power	> 5 W	> 10 W	> 20 W	> 50 W
Energy Per Pulse	> 10 µJ	> 20 µJ	> 40 µJ /	′ 150 μJ*
Pulse Width	< 350 fs to > 10 ps			
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 μrad/°C			
Long Term Mean Power Stability	< 1 % rms over 100 hours			
Warm-up Time	< 30 min			

*High	Fnergy	Option
111611	LIICISY	Option

## Dimensions

All Models	52 x 33 x 12 cm

## Weight

All Models	23 kg
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## Cooling

Satsuma, HP, HP <sup>2</sup>	Air-cooled
Satsuma HP <sup>3</sup>	Water-cooled

# Options



SHG/THG/FHG



Mango



Compress



GLASS



Synchrolock



**FIBER**