For every industrial need

Satsuma

Versatile, full-featured and compact femtosecond laser

The Satsuma family of femtosecond lasers offers versatility in the most compact aircooled laser platform on the market. Satsuma is a cost-efficient high repetition rate solution providing high energy, up to 150 μJ in the IR with optional green, UV and deep UV outputs.

Versatile and fully-featured, Satsuma femtosecond lasers can be equipped with:

> FemtoTrig[™] high precision synchronization to provide high ablation quality and high throughput, in a cost effective and easy to use option

> FemtoBurst™ to control the micro-pulse number, pattern, inter-pulse delay from 25 to 100 ns

The Satsuma product range is globally recognised as the best-seller due to its ease of integration and unsurpassed engraving quality.

Satsuma is part of Amplitude's femtosecond laser range with very short pulsewidths ensuring the lowest HAZ (heat-affected zone) and highest ablation efficiency for industrial applications, and making it the ideal pump source for science.

Medical:

> Ophthalmology

Manufacturing

> Medical Device



Industry:

Applications

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

Science:

- > Multiphoton Imaging
- > Optogenetics
- > Ultrafast Spectroscopy

> Air-cooled up to 20 W

> FemtoTrig™

Key Features

- > No burst length limitation
- > FemtoBurst™
- > Optional green, UV and DUV outputs
- > Industrial design for 24/7 operation



Specifications	Satsuma	Satsuma HP	Satsuma HP ²
Pulse Width (fs)	< 350		
Repetition Rate	From single shot to 40 MHz		
Max Power (W)	5	10	20
Max Energy (µJ)	10	20	40
Reference Repetition Rate	500 kHz		
Central Wavelength	1030 +/- 5 nm		
M ²	<1.2		
Beam diameter (mm)	2.3 +/-0,5 mm 2,7 +/-0,5 mm		2,7 +/-0,5 mm
Astigmatism	<50%		
Waist assymetry	< 13%		
Ellipticity	< 13%		
Pointing Stab	<25 µrad/°C		
p to p Stability	<1,5%RMS		
Power Stability (8 hrs)	<1%RMS		

Options

LASER

AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION

CE

Integrated, Mono-wavelength, up to 4-wavelengths		
Output wavelength - 515 nm, 343 nm, 257 nm		
High precision triggering	Jitter 25 ns	
Defined pattern on request		
No length limitation	up to 80 pulses at 500 kHz	
	Output wavelength - 51 High precision triggering Defined patte	





Niji

Mango



Compress

Synchrolock

amplitude-laser.com