

Tangor 100

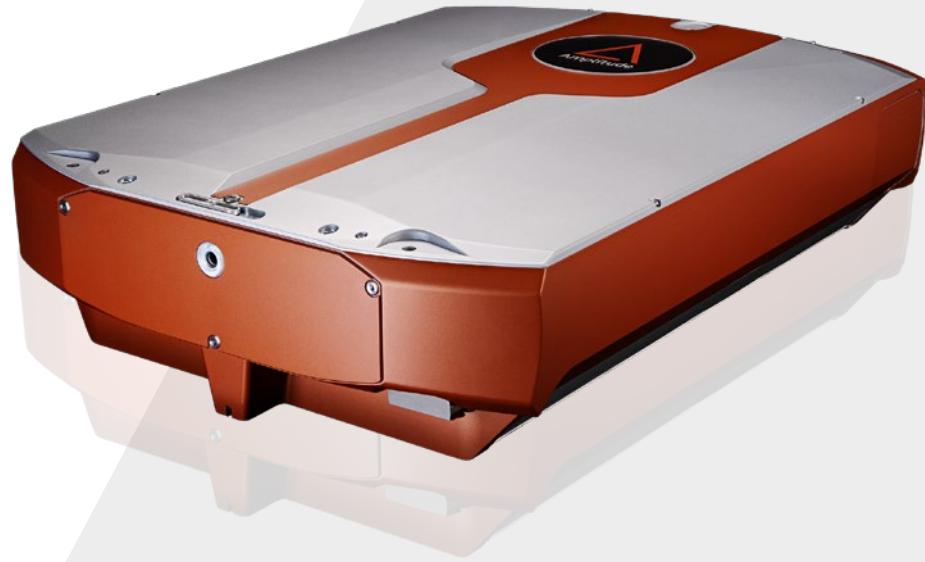
Powerful, full-featured and versatile femtosecond laser

Tangor 100 is a powerful femtosecond laser combining both high repetition rate and high energy per pulse (going up to μJ).

Versatile and full-featured, Tangor 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. Tangor femtosecond laser is available with UV output going up to 30W.

Tangor 100 femtosecond laser is the ideal solution for both developing your production process and mass producing on several applications. Versatility combined with high energy make the laser a cost-effective investment.

Tangor 100 is part of Amplitude's femtosecond lasers range, internationally recognized as reliable and stable. Their very short pulsedwidths lead to the lowest heating effect on the market and the best ablation efficiency, reaching an unparalleled quality.



Applications

Industry:

- > Microelectronics
- > Micromachining
- > Flat Panel Display Cutting

Medical:

- > Medical Device Manufacturing

Key Features

- > FemtoBurst®
- > Trigger on demand - FemtoTrig®
- > SuperSync Control
- > 3 wavelengths available: IR, GR, UV
- > Industrial design for 24/7 operations
- > GHz compatible

Specifications

Tangor 100

	IR	GR	UV
Pulse Width (fs)	<500	<500	<500
Repetition Rate	Single shot to 40 MHz	Single shot to 10 MHz	Single shot to 2 MHz
Repetition Rate - with pulse picker	200 kHz to 40 MHz	200 kHz to 10 MHz	400 kHz to 2 MHz
Max Energy (μ J)	500	250	75
Max Power (W)	100	50	30
Center Wavelength	1030 +/- 3 nm	515 +/- 2.5 nm	343 +/- 2 nm
M^2		< 1.3	
Beam Diameter	3.25 +/- 0,25mm	3 +/- 0,5mm	5 +/- 0,5mm
Astigmatism		< 25%	
Waist Assymetry		<10%	
Beam Roundness		<87%	
Pointing Stability		< 20 μ rad/°C	
p to p Stability	<1% RMS		< 2% RMS
Power Stability (100 hours)	<1% RMS		< 2% RMS

Dimensions

Tangor 100 IR	675 x 525 x 180 mm
Tangor 100 GR/UV	891 x 525 x 180 mm
Power Supply	600 x 483 x 553 mm

Weight

Laser Head	77 kg
Power Supply	55 kg

Options



SHG / THG



Mango



Compress



Synclock

