

For all industrial and scientific needs

Tangor 300

*Accelerate your production process
& advance your research*

Tangor 300 is a powerful femtosecond laser combining high repetition rate, real pulse on demand, high energy, and high beam quality. Coming with a suite of unique features, Tangor 300 enables both new industrial applications such as large area processing, high speed processing, etc., and cutting-edge scientific applications such as high field THz generation, high flux high harmonic generation, and photoemission spectroscopy.

Powerful, versatile and full featured, Tangor 300 femtosecond laser is equipped with:

- > FemtoTrig™: uniquely adapts laser frequency to scan speed by accurately controlling pulse emission (ideal for processing round corners)
- > GHz Burst™: uniquely and substantially increases throughput
- > **IR** output > 300 W / **GREEN** output > 200 W / **UV** output > 100 W

Tangor 300 femtosecond laser is the ideal solution for enhancing your production process or advance your research projects. It offers high energy ultrashort pulses in the most reliable, compact, versatile, and cost-effective package.



Applications

Industry:

- > High Speed Microcutting and Drilling
- > Flat Panel Display Cutting
- > Large Surface Texturing
- > Microelectronics
- > Micromachining

Science:

- > High Intensity and Energy Physics
- > Lifescience and Imaging
- > Secondary Light Sources
- > Spectroscopy

Key Features

- > Real Pulse on Demand with FemtoTrig™
- > Higher Throughput with GHz Burst™
- > IR, Green and UV Outputs
- > Industrial Design for 24/7 Operations

Specifications

	Tangor 300 IR	Tangor 300 Green	Tangor 300 UV
Central Wavelength	1030 nm	515 nm (preliminary specs)	343 nm (preliminary specs)
Average Power	> 300 W	> 200 W	> 100 W
Maximum Pulse Energy	> 3 mJ	> 1.5 mJ	> 200 μJ*
Pulse Width ¹	< 500 fs to 10 ps	< 500 fs	< 500 fs
Repetition Rate	Single shot to 40 MHz	Single shot to 2 MHz**	Single shot to 2 MHz**
Beam Quality	M ² < 1.4		
Beam Circularity	> 87 %		
Beam Pointing Stability	< 25 μrad/°C		
Power Stability	< 1% RMS over 100 hours	< 2% RMS over 100 hours	
Warm-up Time	< 30 minutes	< 1 hour	

¹ For other pulse durations, please contact us.

*Higher energy available upon request

** Higher repetition rate available upon request

Options



Compress



Synchrolock

