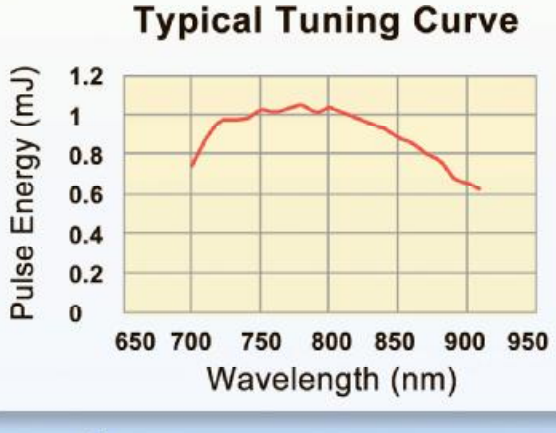
Perfect for Photoacoustic Imaging!

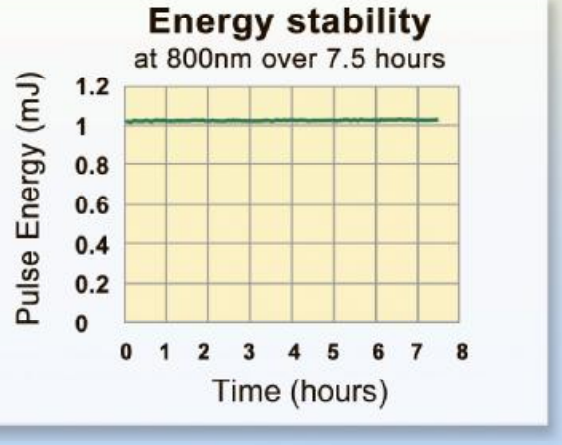
NEW!

TiSon GSA

HIGH-ENERGY BROADLY TUNABLE COMPACT NANOSECOND Ti:Sapphire LASER

> 1 mJ
@ 800 nm
τ < 9 ns, $\Delta\lambda$ < 0.7 nm
rep. rate 1 kHz





FEATURES

- High pulse energy
- Short pulse duration
- High pulse-to-pulse stability
- Perfect beam quality
- Excellent pointing stability
- Maintenance-free operation
- Cost-effectiveness
- Fully automated wavelength tuning
- Fast wavelength change (< 1ms)
- Random wavelength access
- Air-cooled
- Ultra-compact footprint
- Fully integrated packaging. No free standing pump laser

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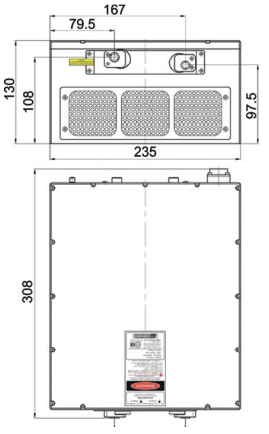
Specification

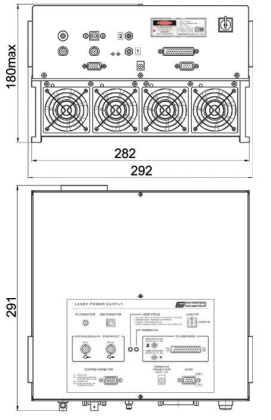
		TiSon GSA-1000
Wavelength Range, nm		700-910
Wavelength Tuning Method		automatic, PC controlled
Wavelength Switching Time (between any wavelength in custom wavelength scanning mode)		< 1 ms
Pulse Energy at 1 kHz, mJ		> 0.5 at 700 nm
		> 0.7 at 750 nm
		> 1.0 at 800 nm
		> 0.7 at 850 nm
		> 0.5 at 910 nm
Average Output Power, W		> 1
Linewidth of Laser Emission, nm		< 1
Range of Pulse Repetition Rate: Ext. Triggering		single pulse - 1 kHz
Int. Triggering: through USB		0.01 - 1 kHz
Pulse Duration (FWHM), ns		< 10
Pulse-to-Pulse Stability- StdDev/Mean		< 2%
Long-term Stability (Av. Power (RMS) / Av. Power)		< 4% / 8 hrs
Beam Profile		TEM_{00}
Beam Diameter ($1/e^2$, at output aperture)		1.0 ± 0.2
Beam Divergence (full angle, $1/e^2$), mrad		< 1.3± 0.2
Beam Quality, M^2		< 1.2
Polarization Linearity		> 100:1, horizontal (< 5^0)
Dimensions (LxHxW), mm	Laser Head	308 x 130 x 235
	Power Supply	291 x 180 x 292
Weight, kg	Laser Head	9 ± 0.2
	Power Supply	11.5 ± 0.2
Operation Voltage, V		24 ± 10%
Max. Current Consumption, A		< 12
Max. Power Consumption, W		< 350
Typical Power Consumption, W		< 300

Unless stated otherwise, parameters are specified at 800 nm, 1 kHz repetition rate.
1053 nm residual pump irradiation output (through a separate output window).
All specifications may change without notice.

Drawing of Laser Head



Drawing of Power Supply



ISO 9001:2008 certified

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