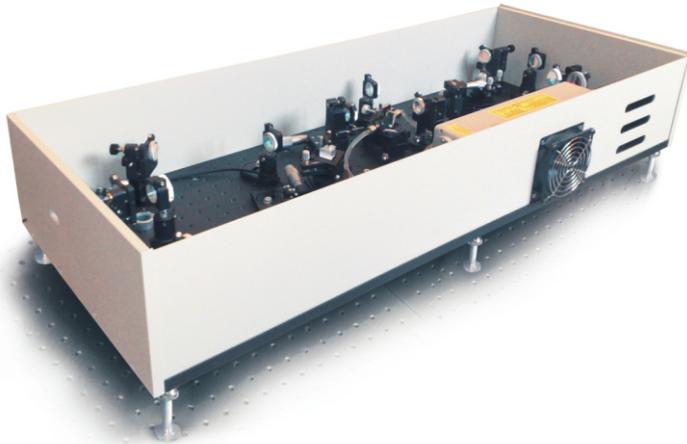


Trestles

PUMP LASER INSIDE

Femtosecond one-box Ti: sapphire oscillators

**Models 50, 100, S 50, S 100
GS 50 and GS 100**



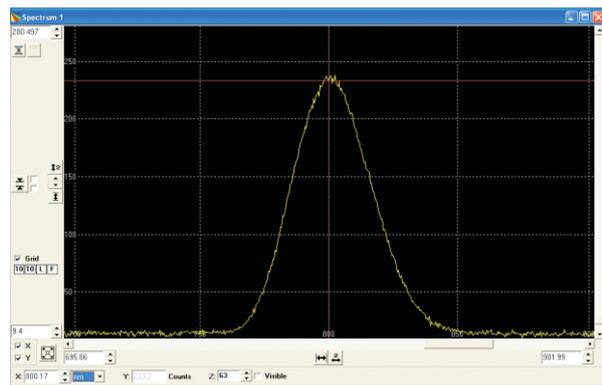
Trestles GS is the most integrated model among one-box Trestles femtosecond Ti: sapphire oscillators. Together with built-in 5 W diode pumped solid state (DPSS) pump laser, GS 50 and GS 100 contain installed inside second harmonic generator (frequency doubler) and built-in computer controlled spectrometer for on-line control of the oscillator output spectrum.

Models S 50 and S 100 don't contain built-in second harmonic generator; models G 50 and G 100 don't contain built-in spectrometer. Trestles 50 and Trestles 100 are without second harmonic generator and spectrometer.

- Temporal pulse width:
< 50 fs for models 50, S 50, G 50, GS 50
< 100 fs for models 100, S 100, G 100, GS 100
- Pulse repetition rate: 83 MHz
- Wavelength tuning: 750 nm - 850 nm
- Output power at 800 nm: > 400 mW
- Output polarization: Horizontal
- Output beam diameter: 2-3 mm
- Divergence: < 1 mrad
- Spatial mode: near TEM₀₀
- Stability: < 1% rms
- Pump laser: Elforlight HPG 5000

- Second harmonic tuning: 375 nm - 425 nm
- Output power at 400 nm: > 80 mW
- Second harmonic polarization: Vertical

- **Dimensions:** 900 mm x 400 mm x 200 mm



On-line control of the oscillator output spectrum is enough to make sure that femtosecond pulses of < 50 fs pulse width are generated over a specified spectral range.

DEL MAR
PHOTONICS

4919 Twilight Ridge,
San Diego, CA 92130, USA
Tel: +1-858-7556727
Fax: +1-858-6302376
e-mail : sales@dmphotonics.com
www.dmphotonics.com