

Optical frequency comb synthesizer



Menlo Systems introduces the FC1500-LN^{nova}, its latest optical frequency comb synthesizer model. The enhanced design of the laser oscillator results in significantly improved robustness against acoustical distortion and thermal drift. The major

benefit of this novel design is a reduced free running linewidth of only 15 kHz. Owing to this leap in linewidth reduction, the FC1500-ULN^{nova} has proven to support a frequency stability on the 10^{-19} level within 1 s averaging time.

www.menlosystems.com/products/optical-frequency-combs/fc1500-250-uln/

SWEPT LASER



The Quantifi Photonics Laser 2000 Series is a laboratory-grade O-band or C-band swept, tunable

laser that can be operated as both a step-tuned or swept-wavelength laser source. With 0.01 dB power stability, 400 nm/s high-speed scan rate, and built-in synchronization trigger inputs and outputs, users can synchronize the laser sweep with other measurement tools such as optical power meters, spectrum analyzers, oscilloscopes, and more.

www.quantifiphotonics.com/products/lasers-amplifiers/matriq-swept-laser/

Dual Color Stimulated Raman Scattering

The new deltaEmerald allows simultaneous Stimulated Raman Scattering (SRS) imaging of two vibrational bands with its dual color SRS (DC-SRS) scheme. Two Stokes pulses, separated by 85 cm^{-1} and modulated at different frequencies are overlapped with the tunable Pump pulse. Fully automated tuning, power control and temporal and spatial overlap of all three beams are given. Additionally a $\sim 100 \text{ fs}$ output at 1030 nm is provided for efficient SHG and two-photon imaging.

www.ape-berlin.de/en/dc-srs/



LASER BEAM PROFILE ANALYZER



The SLED 1000 Ophir[®] SP932U is a compact device designed and developed for analyzing the profile of laser beams in the UV, VIS, NIR and Nd:YAG wavelength ranges. It offers a wide dynamic range, high sensitivity and linearity, and high

resolution. The SP932U profile analyzer offers a resolution of 2048×1536 pixels, a pixel spacing of $3.45 \mu\text{m}$ and a repetition rate of 24 Hz at full resolution.

www.ophiropt.com/laser--measurement/beam-profilers/

High-Speed LCOS Spatial Light Modulator

SLM-210 is the high speed model of SANTEC. SLM-210 features a significantly improved response speed. It is a high performance product which uses its second generation LCOS technology. Its response time of less than 10 ms is expected to contribute to the improvement of performances in optical applications such as wavefront correction, optical beam shaping for laser processing, biosensing and quantum computing.



www.santec.com/en/products/components/slm/slm-210/