The Optical Frequency Comb technology is regarded as a breakthrough technology for measurements with highest accuracy. Lowest phase noise, wide wavelength coverage, and turn-key operation make the Menlo Optical Frequency Comb solutions unique in accuracy, usability, and reliability. According to our principles: The best Optical Frequency Combs for all applications.

Spectral Coverage of Menlo Optical Frequency Combs

All Menlo Systems Optical Frequency Combs are complete, ready-to-use systems. The fiber laser systems are based on the proprietary and patented Menlo figure 9® technology. Complete control electronics and software for 24/7 operation, remote access capabilities, and the Menlo CombWatch software for data analysis are included. Prior to shipment, each system is calibrated against our in-house reference systems and comes with a calibration certificate. A Menlo Optical Frequency Comb expert will be your personal assistant during installation, training, and first applications.
**Selection Guide**

**Top Seller**

**FC1500-250-WG** Optical Frequency Comb for Metrology
- Large mode spacing of 250 MHz
- Flexible and universal system
- Add-on functionality available in optional modules

**Applications**

- **Dimensional metrology**
- **Length metrology**: calibrating He:Ne lasers at 633 nm
- **Cold atom and ion physics**, Quantum Optics
- **LIDAR**
- **Optical links**: distribution of frequency and time
- **High resolution spectroscopy**
- **Fourier transform spectroscopy**
- **Reference system** for OPOs, and lasers
- Synchronization of optical and RF signals within user facility

**New Releases**

**FC1500-250-ULN** Ultra Low Noise Optical Frequency Comb
- Linewidth of <1 Hz for every comb line
- Can be locked to Menlo **ORS1500** Optical Reference System
- Ultimate performance in regard to phase noise and stability
- 2 x 10^-16 in 1 sec, 3 x 10^-18 in 1000 sec
- Other system parameters identical to FC1500-250-WG

**SmartComb** All-in-one Optical Frequency Comb
- Fully transportable and easy to use in and outside the lab
- Fully automated operation
- Control via any Web interface

**Applications**

- **Optical Clocks**
- Cold atom and ion physics with 1 Hz linewidth
- Generation of **ultra stable microwaves**
- Optical links: distribution of frequency and time
- Length metrology: calibrating He:Ne lasers at 633 nm
- Cold atom physics for **Rb at 780 nm**, and others on request
- **LIDAR**
- Reference system for OPOs, and lasers

**Application Driven Systems**

**FC1000-250** Optical Frequency Comb for Metrology
- Large mode spacing of 250 MHz
- Highest average output power of >10 W

**Mid-IR Comb** Optical Frequency Comb for Mid-IR Spectroscopy
- Extended wavelength range to 3 and 7 microns (wave numbers of 3000 cm^-1 and 1000 cm^-1)

**AstroComb** Optical Frequency Comb for Astronomy
- Increased mode spacing of 15-25 GHz

**Ti:Sapphire laser based systems**

**FC800** Ti:Sapphire laser based Optical Frequency Comb
- 1 GHz mode spacing
- Highest average power around 800 nm
- Shortest pulse widths

**Applications**

- **Metrology applications where highest optical output powers** make a difference
- **Mid-IR spectroscopy**
- **Fingerprint** spectroscopy
- **Calibration of telescopes** in astronomy in the visible and near-infrared
- **Metrology applications where a 1 GHz mode spacing** is required and **shortest pulse widths** make a difference

**ORDERING INFORMATION**

Please contact our team of Optical Frequency Comb experts. We are happy to learn about your requirements and expectations.

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