

Press Release

September 8, 2020

ORS-Cubic Ultrastable Laser - ultra-narrow lasers with reduced form factor

Menlo Systems' product line of Ultrastable Lasers is now extended by the new ORS-Cubic Ultrastable Laser, a more compact solution delivering state-of-the-art performance. The ORS-Cubic is based on the rigidly mounted 5 cm cubic cavity developed in cooperation with the National Physical Laboratory which offers the lowest vibration sensitivity reported for an optical cavity. The rigid mounting of the cavity allows for transportation of the system without the need for realignment.

Our ORS Ultrastable Laser System series, available from 500-1600 nm, helps saving valuable R&D time and staying highly focused on the experimental application. The robustness of our turn-key metrology systems allows for continuous operation. The ORS series is used in applications such as ultralow-noise microwave synthesis, ultrastable frequency dissemination via optical fiber, optical clocks and many other atomic and molecular physics experiments. Combined with Menlo Systems' FC1500-250-ULN Ultra Low Noise Optical Frequency Comb the purity of the Ultrastable Laser is transferred to other parts of the optical spectrum. For optical clock applications (e.g. Strontium lattice clocks) Menlo Systems offers complete solutions which include the various lasers required for cooling and preparation of the atoms.



Figure: ORS-Cubic Ultrastable Laser.

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About Menlo Systems:

Precision in Photonics. Together we shape light.

Menlo Systems GmbH is a leading developer and global supplier of instrumentation for high-precision metrology. The company with headquarters in Martinsried near Munich is known for its Nobel Prize winning optical frequency comb technology. With subsidiaries in the US and China and a global distributor network, Menlo Systems is closely connected to its customers from science and industry. The main product lines are optical frequency combs, time and frequency distribution, terahertz systems, ultrafast and ultrastable lasers, and corresponding control electronics. Besides standard production, Menlo Systems develops and manufactures custom made solutions for laser-based precision measurements.