

Press Release

March 27, 2009

New Yb CW laser system for laser cooling and trapping

Menlo Systems GmbH (Germany), manufacturer of frequency comb systems and femtosecond fiber lasers, and Koheras A/S (Denmark), manufacturer of white light fiber laser systems and DFB fiber lasers, have joined forces to present a new high power CW Yb fiber laser system.

MenloSystems' new fiber laser system *orange one* delivers 1 or 2 W of optical output power in the wavelength range of 1100 nm – 1121 nm with an optical line width below 50 kHz. It uses Koheras' new ultra narrow line width single frequency fiber laser module as seed laser together with a two stage amplifier designed and built by Menlo Systems.

The *orange one* combines unique ultra narrow line width performance with high power levels at low ASE level. It is the ideal source for applications requiring low noise and stable performance. Beside low phase noise and low intensity noise, the laser offers high wavelength selectability and a burst noise free operation. Special attention has been paid to assure long term stability without degrading performance. The truly turnkey system is temperature stabilized with Peltier elements and therefore requires no water cooling. Customers will appreciate the versatile and robust design, when employing the *orange one* for optical metrology, interferometry high resolution spectroscopy, atom trapping, laser cooling or optical data storage. Prominent examples are 1111.6 nm for trapping and cooling of Yb atoms or 1118.5 nm for laser cooling of Mg+ Ions.

All this comes with a touch panel for easy use and full remote control capabilities.

Menlo Systems, a leading developer and global supplier of instrumentation for high-precision metrology, was founded 2001 as spin-off of the Max-Planck-Institute of Quantum Optics. Known for the Nobel-Prize-winning Optical Frequency Comb technology, the Munich based company offers complete solutions based on ultrafast lasers and synchronization electronics for applications in industry and research. All our products are manufactured according to Lean Manufacturing standards. We think that Lean Production supports our strength in listening to the customer and manufacture in a fast and efficient way.



Menlo Systems - orange one (1100 nm – 1121 nm)

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