

Press Release

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Menlo Systems' YLMO 520: Frequency doubling meets versatility

Menlo Systems introduces YLMO 520, the compact ytterbium femtosecond fiber laser with 520 nm output. By frequency doubling of the 1040 nm YLMO fundamental wavelength, the novel YLMO 520 delivers optical pulses with >500 mW average output power and < 150 fs duration at 520 nm. Simultaneously, the system ensures access to the 1040 nm fundamental with freely adjustable splitting ratio of optical power between the two wavelength channels. Thus, >4 W maximum average power at 1040 nm wavelength is also available with <100 fs pulse duration. This versatile system design enables flexible dual-color and time-resolved measurements. High peak powers, excellent stability, and consistent long-term performance make the YLMO 520 a perfect match for applications such as multiphoton excitation, pump-probe spectroscopy, or two-photon polymerization.

Menlo Systems' YLMO 520 integrates the latest developments in fiber laser technology into a robust and easy-to-use product, addressing demands in science and industry.



Figure: YLMO 520 femtosecond fiber laser provides high power levels at 520 nm and 1040 nm in a compact and robust design.

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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 the west of Munich is known for its Nobel Prize winning optical frequency comb technology. With subsidiaries in the US, Japan, 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 ultra-stable lasers, and complete systems for quantum technology applications. Besides standard products, Menlo Systems develops and manufactures tailored solutions for laser-based precision measurements.