

Quantum Technology meets Industry Standards: TOPTICA Photonics introduces Laser Rack Systems

TOPTICA Photonics AG releases quantum-technology-approved laser modules for industrial rack integration: narrow-linewidth tunable diode lasers, amplified or frequency-converted diode lasers, frequency combs, and related accessories.

A new era begins. After more than five thousand installed lasers in scientific laboratories, TOPTICA Photonics AG releases quantum-technology-approved laser modules for industrial rack integration. The novel product family includes narrow-linewidth tunable diode lasers, amplified or frequency-converted diode lasers, frequency combs, and related accessories.

The T-RACK – TOPTICA's high quality, rugged 19" cabinet with modular power entry unit, professional cable and heat management – can house a multitude of different modules. All of these laser modules consist of a laser head with fiber-coupled optical output and are equipped with the renowned digital laser controller DLC pro. They are conveniently and reliably operated, easily remotely controlled and offer ultimate performance, previously only possible for operation in research-grade laboratories on optical tables.

Key features:

- Rack-mountable & rack-mounted diode laser and frequency comb modules
- Fiber-coupled optical output of 330..1625 nm
- Convenient remote control
- Complete solutions based on different subsystems including frequency stabilization
- Quantum-technology-approved performance in industrial footprint

Based on its profound expertise in quantum technology, TOPTICA also offers complete rack laser systems: dedicated or customized solutions that work perfectly together from day one.

For any further information please consult our web page at: www.toptica.com/T-RACK



Free space on your optical table: TOPTICA Photonics introduces Laser Rack Systems for Quantum Technology Applications & Research

Key Applications:

Quantum Computing & Simulation
Quantum Metrology & Optical Clocks
Quantum Sensing
Quantum Optics Research
Quantum Communication

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TOPTICA has been developing and manufacturing high-end laser systems for scientific and industrial applications for 20 years. Our portfolio includes diode lasers, ultrafast fiber lasers, terahertz systems and frequency combs. The systems are used for demanding applications in biophotonics, industrial metrology and quantum technology. TOPTICA is renowned for providing the widest wavelength coverage of diode lasers on the market, providing high-power lasers even at exotic wavelengths.

Today, TOPTICA employs 300 people worldwide in six business units (TOPTICA Photonics AG, eagleyard Photonics GmbH, TOPTICA Projects GmbH, TOPTICA Photonics Inc. USA, TOPTICA Photonics K.K. Japan, and TOPTICA Photonics China) with a consolidated group turnover of € 60 million.