

Press Release

TOPTICA Photonics AG
Lochhamer Schlag 19
D-82166 Graefelfing / Munich

Elke Marchthaler
Marketing Communication
Manager

Phone + 49 89 85837-123
Fax + 49 89 85837-200
elke.marchthaler@toptica.com

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New: 658 to 673 nm, now up to 500 mW – single-mode from diode lasers and amplifiers!

The economic replacement for dye- or frequency-doubled solid state lasers will for the first time be presented at CLEO/QELS 06 in Long Beach

Progress at TOPTICA continues: after introducing spectacular new wavelengths between 658 nm and 673 nm with 250 mW in the beginning of the year, TOPTICA Photonics can only three months later announce hitherto unseen powers of 500 mW in the wavelength range 663 – 671 nm. TOPTICA is proud to exclusively offer these wavelengths in tapered amplifier and laser systems.

TOPTICA's TA 100 laser systems are so-called "Master Oscillator Power Amplifier (MOPA)" systems, which are now available from 658 to 1080 nm with powers up to 1 W. They offer single spatial and spectral mode output, narrow linewidth, and tunability combined with excellent beam quality.

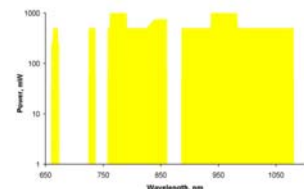
The amplifier systems (TA-B) boost the output power of diode or gas lasers for example by a factor of 100. The spectral properties of the master laser are maintained and the beam quality is nearly diffraction limited. The modular design of both the laser and amplifier systems allows for later upgrades, amplification of more than one master laser and several other options to choose from.

Important applications are interferometry, holography, Raman spectroscopy, and atom cooling and trapping. Especially, the resonance line of Lithium at 671 nm is now accessible, a wavelength that until now could only be reached with great difficulty.

TOPTICA Photonics AG develops, manufactures, services and distributes technology-leading diode and fiber lasers and laser systems for scientific and industrial applications. Sales and service is offered worldwide through TOPTICA Germany and its subsidiary TOPTICA USA, as well as all through 13 distributors. A key point of the company philosophy is the close cooperation between development and research to meet our customers' demanding requirements for sophisticated customized system solutions and their subsequent commercialization.



TOPTICA's TA 100 laser system is now available from 658 to 1080 nm



Spectral Coverage of TA laser and amplifier systems, other wavelengths on request

Author:

Dr. Rudolf Neuhaus, TOPTICA Photonics AG