ALPHALAS

DIODE-PUMPED FEMTOSECOND LASERS

FEMTOLAS

Using most advanced laser technology, ALPHALAS GmbH introduces a new generation of femtosecond lasers. The Ytterbium-doped active medium is pumped directly by laser diodes, thus eliminating the need for an expensive green pump laser, as in the case of femtosecond Ti:Sapphire lasers. This approach not only reduces the price, but also increases the reliability and the lifetime of the new femtosecond laser.

The proven technique of nonlinear-mirror modelocking provides reliable self-starting operation.

The new femtosecond lasers find applications in:

-Time-resolved fluorescence spectroscopy
- Optical coherence tomography
- Material processing
- Two-photon microscopy
- Tissue ablation
- Nonlinear optics research
- Laser-matter interaction

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FEMTOLAS-200

FEMTOLAS-200 is a very compact diode-pumped femtosecond laser with the following specifications:

Wavelength:	1020 - 1050 nm
Output power:	200 mW
Pulse duration:	< 200 fs
Repetition rate:	100 MHz
Beam quality:	M^2 < 1.2

FEMTOLAS-1000 is a high-power model of the diode-pumped femtosecond laser with the following specifications:

Wavelength:	1020 - 1050 nm
Output power:	> 1 W
Pulse duration:	< 200 fs
Repetition rate:	100 MHz
Beam quality:	M^2 < 1.2

FEMTOLAS-1000

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