

Custom SYSTEMS

Advanced Engineering Solutions

FEATURES

- Nd:YAG, Nd:YLF, Nd:Glass lasing medium:
 - Pulse energy up to **160 J**
 - **Multi-beam** systems
 - Fourier-transform limited pulse durations in **10 ps–100 ns** range
 - Pulse repetition rate up to **1 MHz**
 - **SLM** (single longitudinal mode) lasers
- Tunable Fourier-transform limited **picosecond** pulses
- **IR** tunable lasers in **3–16 μm** range
- Tunable **OPOs** with up to **1 MHz** pulse repetition rate

APPLICATIONS

- Plasma physics
- Extreme light physics
- OPCPA pumping
- Holography
- Material research
- Non-linear spectroscopy
- Other laser spectroscopy applications



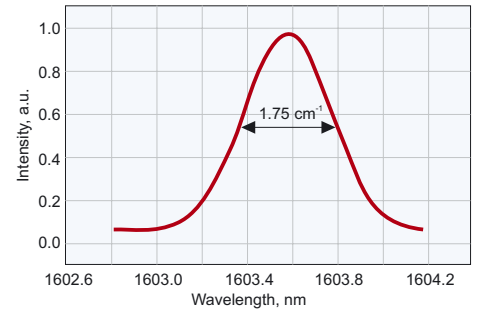
Our team of fourteen Ph.D. laser physicists with more than 15 years of experience in laser design are in position to offer solution that fits Your requirements in most elegant and cost-effective way. Our ability to integrate all the laser components – optics, electronics, software – results in custom build laser that is convenient and easy to operate as a standard commercial product.

Our broad knowledge in high energy laser physics, non-linear materials and spectroscopy ensures that custom build lasers are performing as expected while keeping lead time as short as possible.

Just a few examples of our innovative lasers designs that reflects our capabilities:

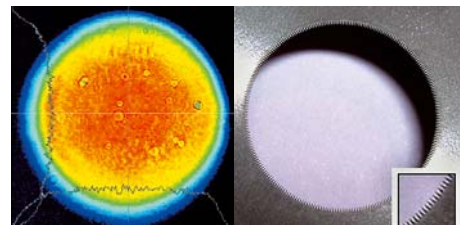
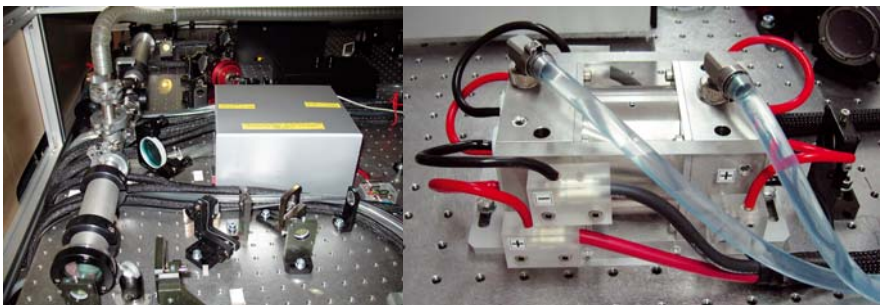
- Nd:YLF SLM lasers featuring less than 0.01 cm^{-1} linewidth;
- Nd:Glass laser with pulse energy up to 160 J;
- 6 channel amplifier producing 200 mJ per channel at 150 ps pulse duration;
- Nd:YAG lasers for OPCPA pumping producing up to 1.1 J @ 100 ps or up to 5 J @ 500 ps pulse duration;
- Tunable laser producing Fourier transform limited 30 ps pulses in 420–710 nm range at pulse repetition rates up to 1 MHz;
- Tunable IR laser for 5–12 μm spectral range;
- Multicolor lasers producing few independently tunable outputs simultaneously.

TUNABLE MULTI-BEAM PICOSECOND LASER SYSTEM



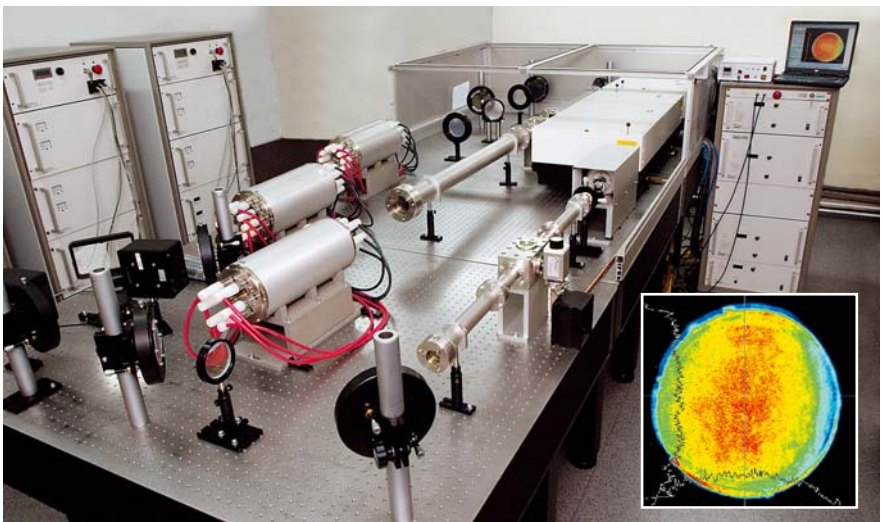
Nearly Fourier transform limited 30 ps tunable pulses for advanced spectroscopy.

Nd:YAG LASER FOR OPCPA PUMPING



Nd:YAG 100 ps, 1.1 J laser for OPCPA pumping. Advanced beam shaping results in homogeneous beam profile

Nd:GLASS 80 J LASER SYSTEM



**Requests
for custom made
products
are welcome !**

DANGER

VISIBLE AND/OR INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT
REFLECTED OR SCATTERED RADIATION

16 μm – 2300 nm, tunable
Max. 160 J, pulse 10 ns
CLASS IV LASER PRODUCT



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