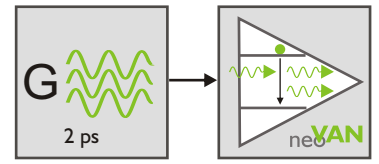


Picosecond Laser

NEW!



neoLASE MOPA Technology

neo**MOS**
pico

Catch the peak!

The neoMOS picosecond laser series combines the reliability and low maintenance of a state of the art picosecond laser oscillator with a solid-state amplifier. The new developed laser system further expands the neoMOS pulse duration range into the area of less than 2 ps. The CPA free technology allows for bandwidth limited pulses on a smallest available footprint.

Cold Laser Processing

The new neoMOS system with pulse durations of less than 2 ps enables new and more efficient laser material processing's. Whether micro material or nonlinear processing the short pulse duration supports cold and therefore highly precise laser material applications.

neoMOS picosecond Laser

Key features

| | |
|------------------|---|
| Output power | 5 W |
| Pulse duration | <2 ps |
| Pulse energy | up to 30 μ J |
| Repetition rates | single shot to 25 MHz |
| Beam quality | TEM _{0,0} / M ² < 1.3 |

Advantages

- Compact laser head design
- CPA free technologie

System Specifications

PRELIMINARY

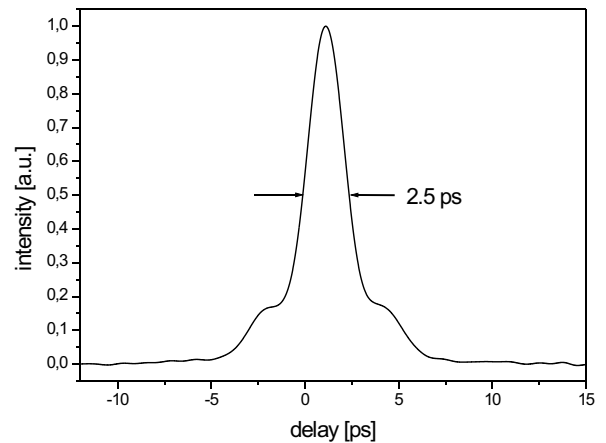
neo **MOS**_{pico} 2ps

| | |
|--------------------|--|
| Seed Laser | Modelocked Fiber Oscillator |
| Pulse duration | <2 ps |
| Average power | 5 W |
| Repetition rate | Single shot to 25 MHz |
| Max. pulse energy | 30 μ J @ 1064 nm |
| Beam quality | TEM _{0,0} M ² <1.3 / >85 % circularity |
| Power noise | <1 % RMS |
| Polarization ratio | >100:1 |
| Warm-up time | <30 min. |
| Laser controller | 19" Rackmount 4 U height |
| Cooling | Water cooled |
| Options | SHG |

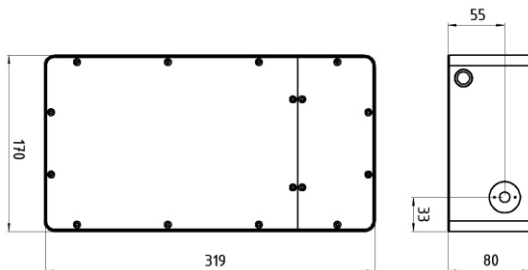
Typical Output Power and Pulse



Typical Autocorrelation



Dimensions Laser Head



Output performance and specifications are depending on the used seed laser system and can be adapted on request.

Visit www.neolase.com or email info@neolase.com for further information.

- Notes:
1. Due to neoLASE continuous product improvement, all specifications are subject to change without notice.
 2. Laser light emitted from this system is invisible and will be harmful to the human eye. Proper laser safety eyewear must be worn during operation.

