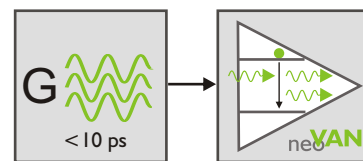
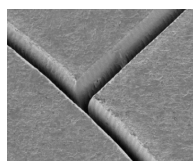
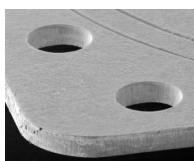


Industrial Picosecond Laser



neoLASE MOPA Technology



neo**MOS**
pico

Compact and Powerful

The neoMOS picosecond laser series combines the reliability and low maintenance of state of the art picosecond oscillators with a solid-state amplifier. The ultra-compact laser head has the smallest footprint currently available enabling easy system integration. High stability and long lifetime are provided by design for 24/7 industrial use.

Precision Laser Processing

The multi-megawatt level peak-power and ultrafast pulses delivered by the neoMOS series are suitable for processing the most demanding materials including transparent glasses and plastics. Typical applications include photovoltaic and electronics production, display glass processing as well as security and decorative marking.

neoMOS Picosecond Laser

Key features

Output power	up to 50 W @ 1064 nm
Pulse duration	< 10 ps
Pulse energy	up to 250 μ m
Repetition rates	single shot to 40 MHz / burst mode options
Beam quality	TEM _{0,0} / M ² < 1.3

Advantages

- Customized repetition rates and output power configurations
- Ultra-compact laser head design
- Proven long term stability and industrial reliability



海纳光学

电话: 0755-84870203

网址: www.highlightoptics.com

System Specifications

neoMOS_{pico} 10ps

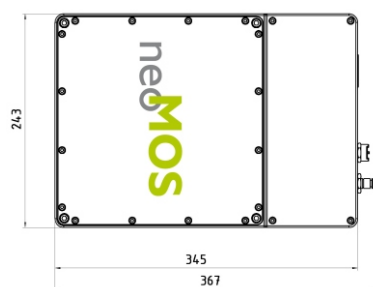
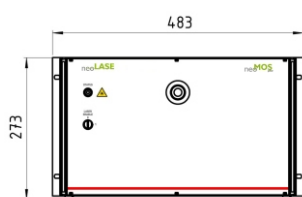
Seed Laser	Modelocked Fiber Oscillator
Pulse duration	< 10 ps
Average power	10 / 30 / 50 W
Repetition rate	Single shot to 40 MHz
Max. pulse energy	250 μ J @ 1064 nm (higher energy on request)
Beam quality	TEM _{0,0} M ² < 1.3 / > 85 % circularity
Power noise	< 1 % RMS
Polarization ratio	> 100:1
Warm-up time	< 30 min.
Laser controller	19" Rackmount 6 U height
Cooling	Water cooled
Options	SHG, Burst Mode

Dimensions

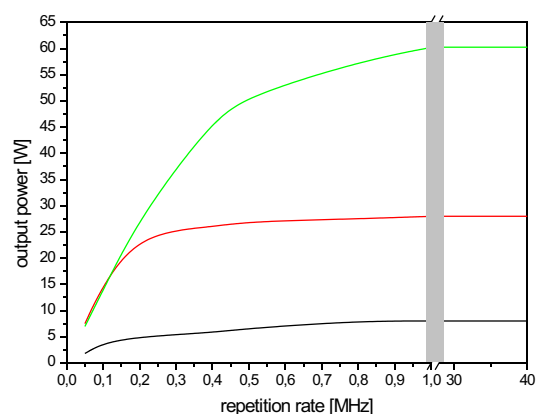
Laser Head and Electronics

Basic Module:
50 W version
345 x 243 mm

Options:
Beam expander
SHG Module



Typical Output Power and Pulse Energy



Output beam diameter: ~ 1 mm

User Interface:

- PC GUI using network connection
- Ethercat Interface
- Other Interfaces 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.

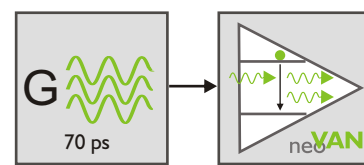


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Industrial Picosecond Laser



neoLASE MOPA Technology

neo**MOS**
pico

Compact and Powerful

The neoMOS picosecond laser series combines the reliability and low maintenance of a state of the art picosecond laser diode with a solid-state amplifier. Customized combinations with different output powers and flexibel repetition rates are integrated into a ultra-compact laser head enabling easy system integration. High stability and long lifetime are provided by design for 24/7 industrial use.

Flex Pulse

The multi-megawatt level peak-power and ultrafast pulses delivered by the neoMOS series are suitable for processing the most demanding materials including transparent glasses and plastics. The flexpulse technology allows to change the repetition rate and the pulse energy on the fly and therefore enables new potentials in laser control.

neoMOS picosecond Laser

Key features

Output power	15 W @ 1064 nm
Pulse duration	70 ps
Pulse energy	up to 250 μ J
Repetition rates	single shot to 80 MHz, flex pulse
Beam quality	TEM _{0,0} / M ² < 1.3

Advantages

- Flexibel repetition rate and pulse energy
- Ultra-compact laser head design
- Proven long term stability and industrial reliability

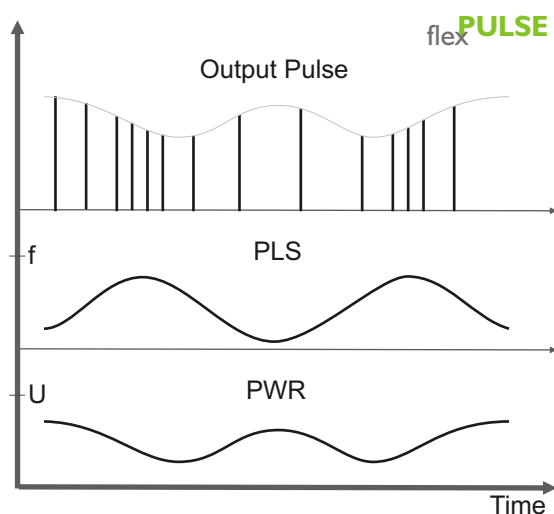


System Specifications

neoMOS_{pico} 70ps

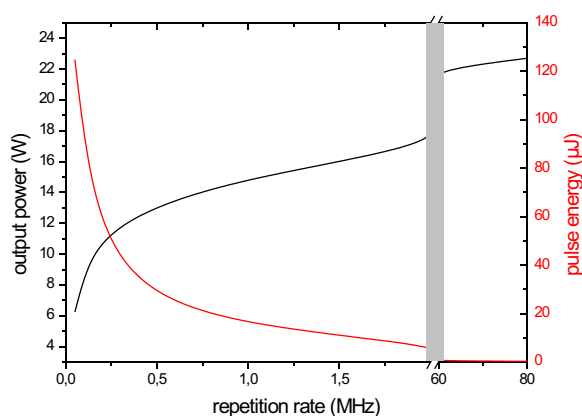
Seed Laser	Laser Diode
Pulse duration	70 ps
Average power	15 W
Repetition rate	Single shot to 80 MHz / free triggerable including burst mode
Max. pulse energy	250 μ J @ 1064 nm
Beam quality	TEM _{0,0} M ² < 1.3 / > 85 % circularity
Power noise	< 1 % RMS
Polarization ratio	> 100:1
Warm-up time	< 30 min.
Laser controller	19" Rackmount 6 U height
Cooling	Water cooled
Options	SHG

Flex Pulse Control

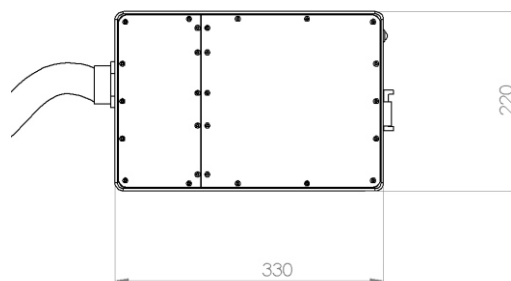


The flex pulse control allows separate and continuous change of lasers repetition rate and pulse energy by 5 V TTL (PLS) and 0 - 5 V analog signal (PWR).

Typical Output Power and Pulse Energy



Dimensions Laser Head



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

- Notes:
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