

VaryDisk

performance meets versatility....



Flexible tool for Process Development
Industrial Applications, and OPCPA Pumping
The following **standard systems** are available:

nano

High pulse energy nanosecond system with lowest complexity

pico

Picosecond laser system with high average output power with low complexity

femto

Pulse durations in the femtosecond regime of up to < 350 fs

energy

CPA based system with up to 150 mJ pulse energy

Development systems with different parameters are available on request

The standard systems can be combined with the following **options**:

Even more flexibility

- Variability option for VaryDisk femto
- Additional seed lasers (ns, ps)
- Twin: combinations of base systems
- Femtosecond + for even shorter pulses

Different wavelengths

- IR
- Green
- UV

More output power or pulse energy

- Power upgrade (p)
- Energy upgrade (+)
- Gigapulse upgrade for kW output and several hundred mJ output

Pulse / Beam handling

- Scanner
- Helical drilling optics
- Pulse Picker

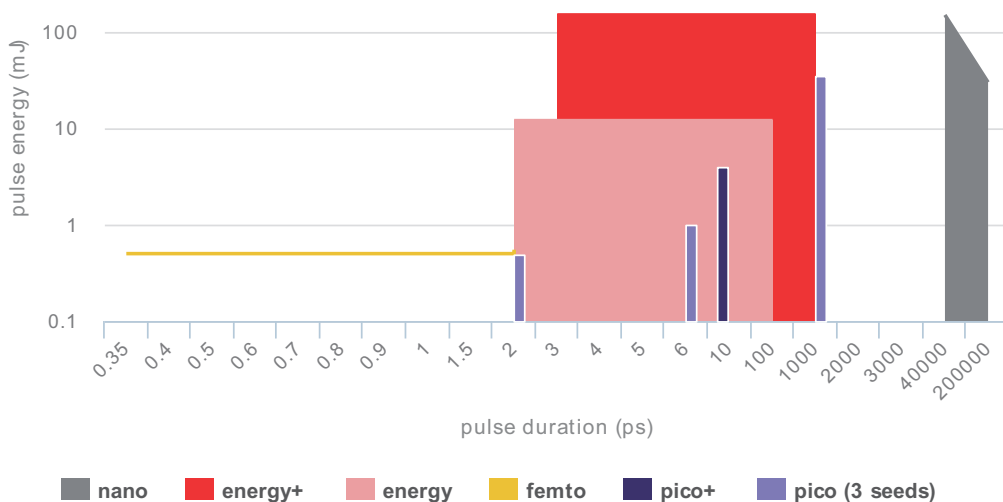
The VaryDisk is a fully functional laser system designed for laboratory investigations and/or industrial use.

The base versions of the VaryDisk system can be combined with additional seed lasers, allowing fs, ps, or ns pulse durations, with the variability option to allow a variation in pulse duration between **400 fs and 2 μs** merely by software, an SHG and/or THG option, and various other options.

Especially the variability option allows unprecedented flexibility, which is ideal for scientific investigations in order to change systematically one of the most dominating parameters influencing light-material interaction. It is as well of unique value for the development of production processes, in order to find the optimum value which enables maximum productivity at still acceptable quality.

Base configurations of the VaryDisk system :

VaryDisk		Nano	Pico	Femto	Energy
max. average power	standard	150 W	120 W	100 W	15 W
	power upgrade			150 W	150 W
max. pulse energy	standard	150 mJ	1 mJ	500 μJ	15 mJ
	energy upgrade		4 mJ		150 mJ
min. pulse duration		≈ 40 ns	≈ 6 ps	< 500 fs	2 .. 3 ps
min. rep. rate		1 kHz	100 kHz	100 kHz	1 kHz
max. rep. rate		20 kHz	1 MHz	1 MHz	20 kHz
M2		< 1.3	< 1.3	< 1.4	< 1.3



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