

PEREGRINE-1030-SP



flexible, small, and air-cooled
femtosecond laser system



KEY SPECIFICATIONS

Center Wavelength	[nm]	1030			
Pulse Duration (sech ²)	[fs]	<200			
Beam Quality Factor, M ²	[1]	<1.2			
Repetition Rate Range		single-pulse to 50 MHz			
Example Repetition Rates		100 kHz	500 kHz	1 MHz	10 MHz
corresponding Output Power	[W]	>0.5	>2.5	>5.0	>8.0
corresponding Pulse Energy	[μJ]	>5.0	>5.0	>5.0	>0.8

OPTIONS

- » water cooling (reducing the height of the system to ~80 mm)
- » 10 W output power
- » harmonics generation (515 nm or 343 nm)
- » higher pulse energies
- » supply voltage up to 48V
- » WiFi

APPLICATIONS

Medical	Industry	Science
Ophthalmology, Medical Device Mfg.	Micro-Machining	fs LIBS, Multiphoton Imaging

GOOD TO KNOW

The Peregrine-1030-SP laser system sets new standards with respect to performance, compactness and price. It is powered by 24VDC and features an air-cooled, compact housing that integrates everything you need to operate the laser system 24/7.

With output power of up to 8 W, pulse energies up to 5 μJ, sub-200 fs pulse duration, and pulse-on-demand capabilities, it is the perfect workhorse for all your everyday laser applications!

KEY FEATURES

- » 24/7 operation
- » air-cooled
- » pulse-on-demand capabilities
- » everything-you-need inside
- » only 260 (L) x 190 (W) x 133 (H) mm³
- » Interfaces:
1Gbit Ethernet, CAN, RS485, ePaper Display
- » up to 5 μJ /up to 8W with sub-200 fs pulses
- » single-pulse to 50 MHz
- » no installation required
- » powered by 24VDC
- » cloud-based health monitoring (coming soon)
- » very attractive volume prices

