

Picosecond Fiber Microjoule Laser

LIGHTWIRE HE SERIES



FEATURES

- Microjoule level pulses
- 1064 nm output wavelength
- < 20 ps pulse duration
- Up to 10 W output power
- >40% second harmonic generation efficiency
- Cost efficient all-in-fiber design
- 1064 nm output wavelength

APPLICATIONS

- Micromachining
- Biomedicine
- Nonlinear optics

LightWire HE is designed for micromachining applications where heat deposition of nanosecond pulses is not desirable, but the complexity

of femtosecond laser is not required. High repetition rate and moderate pulse energy are optimal for high precision high speed processes.

SPECIFICATIONS

Model	LightWire HE
Central wavelength	1064 nm
Pulse duration	<20 ps
Pulse repetition rate	100 kHz – 10 MHz
Output pulse energy	>2 μ J at 2 MHz
Output power	up to 10 W at 10 MHz
Optical output	collimated beam
Beam quality	$M^2 < 1.3$
Second harmonic generation efficiency	>40%
TTL synchronization signal output with low jitter	(<20 ps)
Dimensions (stand-alone unit) (D×W×H)	440×440×220 mm
Weight	30 kg
Power supply	100-240 V, 50-60 Hz AC
Operating conditions:	10-40 °C, humidity – not condensing