

Origami – 10 XP



High-energy single-box 1- μm amplified femtosecond laser for OEM and R&D applications

- Excellent pulse quality
- Close to diffraction-limited beam quality
- Low ASE background
- Variable repetition rate
- Variable pulse energy
- High repeatability and 24/7 operation
- **Fully integrated control and drive electronics – no external laser controller**
- Complete remote control
- One-button operation – no adjustment knobs or screws
- Plug & play – no installation required
- Compact, dust-sealed OEM package
- Low power consumption
- Closed-loop chiller included
- Maintenance free – no user-serviceable parts inside or outside laser



new !
40 μJ
<400 fs

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Center wavelength	1030 nm
Pulse duration	< 400 fs
Average output power	up to 4 W
Pulse repetition rate	10 kHz - 1 MHz
Pulse energy	> 40 μJ up to 100 kHz; > 20 μJ up to 200 kHz
Peak power	up to 80 MW
Spectral bandwidth	< 6 nm
Output	collimated free space, $M^2 < 1.2$
Ellipticity	< 1.1
PER	> 20 dB, horizontal
Amplitude noise	1% rms (12 h)
Energy contrast	23 dB
Pointing stability	< 50 μrad rms (12 h)
Beam height	76.2 mm
Warm-up time	< 10 minutes
Specs guaranteed	18 $^{\circ}\text{C}$ – 32 $^{\circ}\text{C}$
Storage temperature	-12 $^{\circ}\text{C}$ – 65 $^{\circ}\text{C}$
Size laser	350 x 400 x 120 mm
Size controller	no external controller
Weight laser	12 kg
Power supply	24V / 20 A
Power consumption	< 500 W
Interfaces	RS232, USB, CAN

Options

- Synchronization to external clock
- Circular polarization
- Picosecond operation
- Single shot
- Harmonic generation
- 90 – 264 VAC, 47 – 63 Hz inlet

On request

- Different form factor

Sample data Origami – 10 XP

