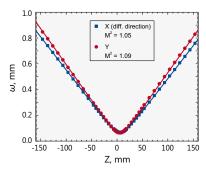
Femtosecond Microjoule Class Fiber Laser

FemtoLux 3



SPECIFICATIONS 1)

Model	FemtoLux3
Central wavelength	1030 nm
Min pulse duration	< 300 fs
Pulse duration control	300 fs 5 ps
Average output power	3 W
M^2	< 1.2
Laser repetition rate (PRR _L) ²⁾	1 – 5 MHz
Pulse repetition rate after pulse picker 3)	PRR = PRR _L / N, N=1, 2, 3,, 10 ⁶
Pulse energy	2 μ/
Burst mode 4)	up to 10 pulses
Burst energy	up to 10 μJ
Burst shape control	internal ⁵⁾ or external ⁶⁾
Laser head dimensions	400 × 267 × 105 mm
Control unit dimensions	483 × 436 × 140 mm (19" rack)
Cooling	passive (convective)

















Preliminary

FEATURES

- ▶ Up to 3 W output power
- ▶ 300 fs ... 5 ps tunable pulse duration
- ► Up to 2 μJ/pulse and 10 μJ/burst
- ► Excelent beam quality M² < 1.2
- ► Individual pulse control
- ▶ Burst shape control
- ► Passive cooling (convective)
- ▶ 24/7 operation

APPLICATIONS

- Marking and structuring
- ▶ Micromachining
- Ophtalmologic surgery
- ► Photopolymerization
- ► Biological Imaging
- ► Pumping femtosecond OPO/OPA
- Due to continuous improvement all specifications are subject to change without notice.
- ²⁾ When pulse picker is set to transmit every pulse.
- 3) At fixed laser repetition rate.
- ⁴⁾ Time interval between the pulses is about 20 ns.
- 5) Using provided software for burst shape control (slow control)
- ⁶⁾ By user provided signal using analog input (real time).

