FemtoFErb 780 – compact fiber laser

- Up to 50 mW avg. power with typ. 90 fs pulses
- Alignment-free all-fiber setup, use of PM fibers only
- SAM modelocking technology
- Free-beam output with excellent TEM_{00} mode
- Compact design: optics and electronics just in one box

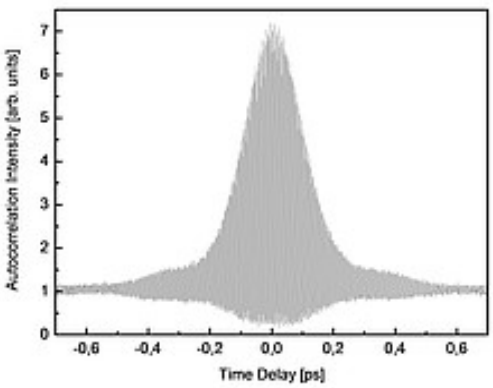
is a very compact all fiber-based femtosecond laser system with excellent amplitude and frequency jitter parameters. It unites both supply electronics, fiber laser optics and second harmonic generation in one box, being thus one of the smallest fiber laser units on the market. The system only needs 12V power supply and comprises a free-beam output with mechanical shutter.

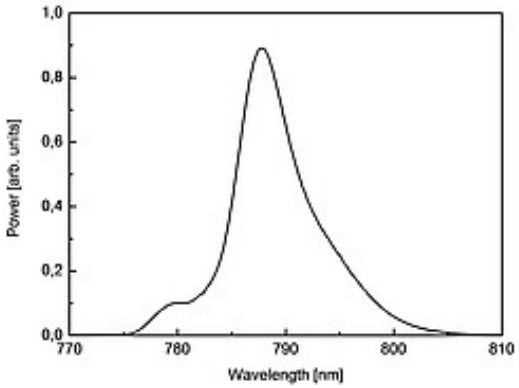
Technical Information

Key specifications

	780
	780 nm
	> 50 mW
	100 ± 3 MHz
	< 100 fs
	< 10 nm
	t.b.d.
	free-beam / shutter
	Ø 1.6 mm ($1/e^2$) typ. TEM_{00}, M^2 < 1.2
	< 1.5 mrad
	> 15 dB
	12 VDC, less than 60 Watt power consumption
	< 3 kg

***Polarization extinction ratio*





Autocorrelation and spectrum.

Options & Related Products

Options:

SwitchBox
The FemtoFiber smart SwitchBox is a small tool for quick starters. It provides all switches, supply and status lines to run a FemtoFErb 780 as a stand-alone system without

integration environment and therefore is especially recommended for single-system users.

Related Products:

- FemtoFiber pro NIR (< 100 fs, > 140 mW)

Technical Drawings

Downloads
toptica_TD_FemtoFErb_free_beam.pdf

Applications

- BioPhotonics
- Microscopy
- Metrology
- 2-photon polymerization

Download

Brochure: Ultrafast Fiber Lasers (PDF, 5.5 MB)
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