R&D ULTRAFAST LASERS LTD.

# FemtoFiber™

## All-fiber, femtosecond pulse ytterbium oscillator/amplifier system

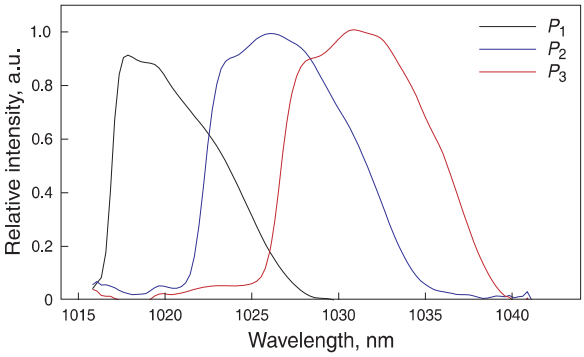

**Key features**

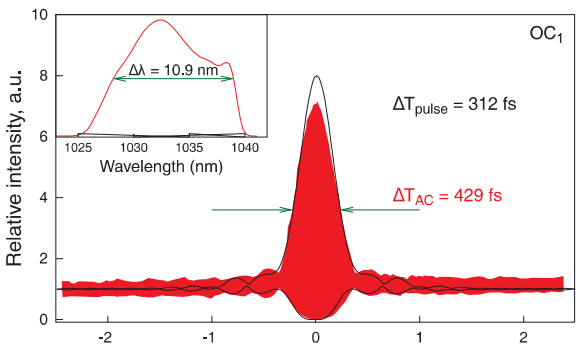
- All-fiber, all-normal dispersion oscillator
- Automatic control for low RMS noise operation
- Tunable in the 1020-1040 nm regime

**Applications considered**

- Multi-photon and CARS microscopy
- Ultrafast spectroscopy
- Seed for femtosecond pulse OPO-s and FOPO-s

## Typical output spectra and SHG autocorrelation trace

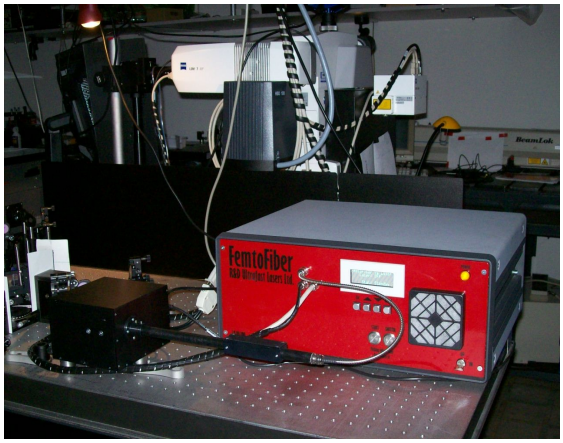



**Reference**

Fekete J, Cserteg A, Szipőcs R; All-fiber, all-normal dispersion ytterbium ring oscillator. Laser Phys. Lett**. 6** (1) 49-53 (2009)

**Application for nonlinear microscopy**




**System Specifications (preliminary)**

Average output power: > 900 mW
Operation wavelength: ~ 1030 nm
Bandwidht: > 6 nm
Pulse duration at laser output: ~ 20 ps
Repetition Rate: 20-80 MHz
Spatial Mode: TEM00
Polarization adjustable by QWP and HWP

*Optional compressors:*
Transmission grating or hollow fiber compressor
Compressed pulse duration: < 300 fs or < 600 fs

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