

# FemtoWHITE 800

## Supercontinuum Device



- Maintenance free
- Utilization of existing Ti:Sapphire laser
- Compatible with standard holders

With the use of the FemtoWHITE 800 you eliminate the need for more complex laser systems like cavity dumped oscillators or two synchronized oscillators.

Pump the FemtoWHITE 800 with an 800nm range femtosecond laser and enjoy the polarized octave spanning output without the hassle of fiber cleaving and handling.

The tailored dispersion curve of the FemtoWHITE 800 enables stable, low-noise supercontinuum generation using your existing Ti:Sapphire.

Coupling in and out of the device is easily realized by using standard microscope objective with high magnification mounted on XYZ stages.



### Technical advantages

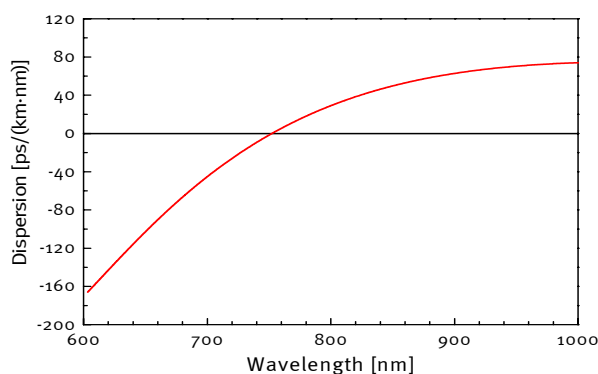
- Optimized for 800nm range fs pumping
- Polarization maintaining
- Sealed and cleanable end-facets
- End-facet beam expansion
- Robust 1" (2.54 cm) aluminum housing
- Compact: Only 4.7" (12cm) in length

### Specifications

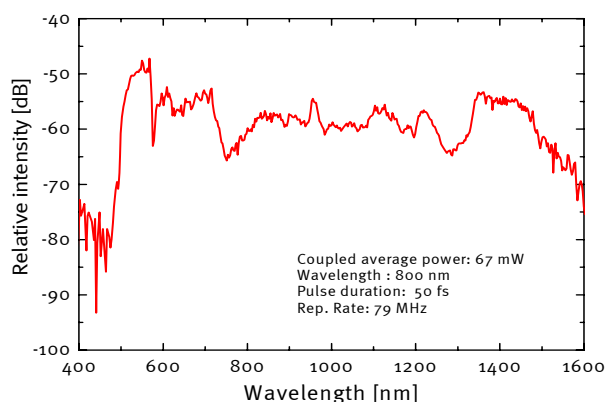
Short zero dispersion wavelength	~750 nm
Long zero dispersion wavelength	~1260 nm
Core diameter	1.8 ± 0.3 μm
Cut-off wavelength	<650 nm
MFD inside fiber	1.6 ± 0.3 μm
Spot size at end facets	9-25 μm(*)
Numerical Aperture @ 780 nm 5%	0.38
Nonlinear coefficient @ 780 nm	~95 (W·km) <sup>-1</sup>

\* Spotsizes varies with wavelength

### Typical dispersion



### Example of output



Output from FemtoWHITE 800 pumped at 800 nm – 50 fs pulses

FW800-090612