

# FemtoWHITE 800

*Supercontinuum Device – the easy way!*

## DESCRIPTION

Supercontinuum the easy way!

With the use of the Femto*WHITE* 800 you eliminate the need for more-complex laser systems like cavity dumped oscillators or two synchronized oscillators. Pump the Femto*WHITE* 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 Femto*WHITE* 800 enables stable, low-noise supercontinuum generation using your existing Ti:Sph laser.

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 800 nm 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

## COMMERCIAL ADVANTAGES

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

## SPECIFICATIONS

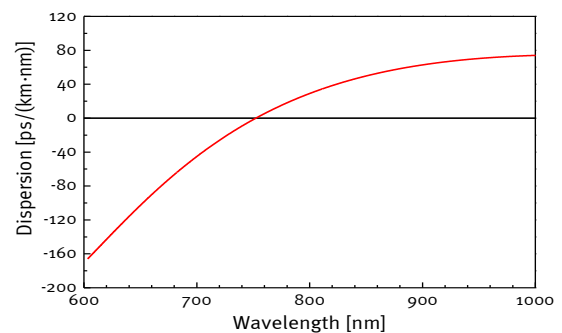
Short zero dispersion wavelength:	~750 nm
Long zero dispersion wavelength:	~1260 nm
Core diameter	1.8 ± 0.3 μm
Cut-off wavelength:	<650 nm
MFD inside fiber:	1.6 ± 0.3 μm
Spot size at end facets:	9-25 μm <sup>(*)</sup>
Numerical Aperture @ 780 nm 5%	0.38
Nonlinear coefficient @ 780 nm	~95 (W·km) <sup>-1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

(\*) Spotsize varies with wavelength

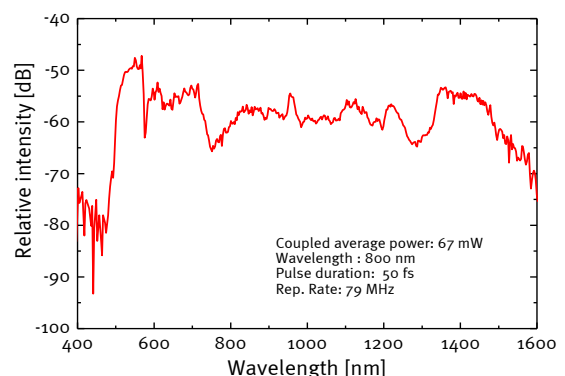
## DEVICE



## TYPICAL DISPERSION



## EXAMPLE OF OUTPUT



Output from Femto*WHITE* 800 pumped at 800 nm – 50 fs pulses