NKT Photonics
the power of light

Crystal Fibre • *aero*LASE • Koheras • SuperK

FemtoWHITE 800

Supercontinuum Device

Highly Nonlinear · Single Mode · Polarization Maintaining

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

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:Sapphire.

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

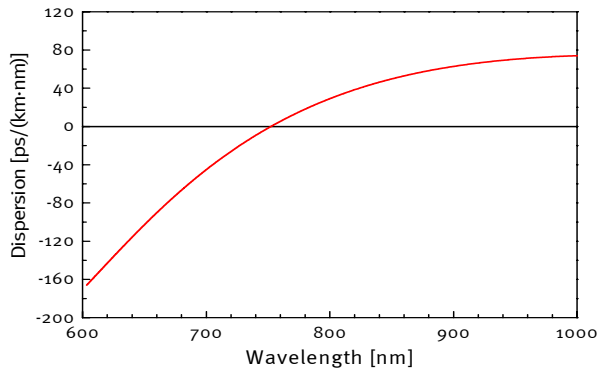
Technical advantages

- 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

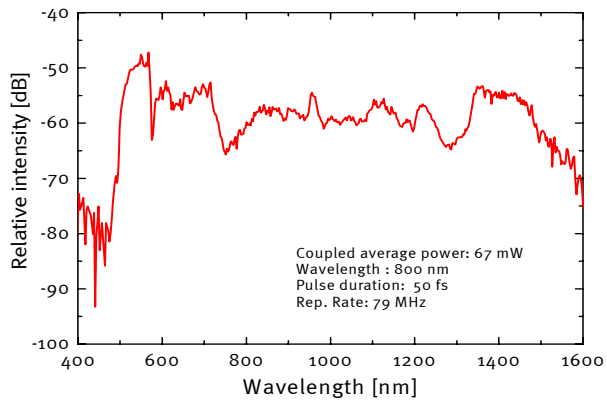
Specifications	
Short zero dispersion wavelength	~750 nm
Long zero dispersion wavelength	~1260 nm
Core diameter	1.8 ± 0.3 µm
Cut-off wavelength	<650 nm
MFD inside fiber	1.6 ± 0.3 µm
Spot size at end facets	9-25 µm(*)
Numerical Aperture @ 780 nm 5%	0.38
Nonlinear coefficient @ 780 nm	~95 $(W \cdot km)^{-1}$

* Spotsize varies with wavelength

Typical dispersion



Example of output



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

FW800-100409

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