

# Press Release

Photonic crystal fibres offer simple, reliable and affordable solution for supercontinuum generation.

Edinburgh, 03 August 2011

NKT Photonics now offer the femtoWHITE series - a pre-assembled polarisation maintaining fibre device that can be used with an ultrafast oscillator to generate octave spanning, low-noise supercontinuum output.



Distributed in the UK and Ireland by Photonic Solutions, the femtoWHITE series are designed for use with 800 nm range femtosecond lasers, in particular Ti:Sapphire lasers, and offer a reliable, affordable and relatively simple method to generate supercontinuum output. These devices have found applications in a variety of areas, including CARS microscopy, frequency comb spectroscopy, non-linear spectroscopy, optical coherence tomography, metrology and the characterisation of optical devices, to name a few.

The femtoWHITE is a pre-assembled device consisting of polarisation maintaining fibre photonic crystal fibre (PCF) in a compact, robust, hermetically sealed one inch diameter package. The femtoWHITE supercontinuum devices are available in two models - the femtoWHITE-800 and the femtoWHITE-CARS. The femtoWHITE-800 is optimised for broad octave spanning output and the tailored dispersion curve of the femtoWHITE 800 enables stable, low-noise supercontinuum generation using an existing femtosecond laser. The femtoWHITE-CARS gives a dual peak spectrum optimised for CARS applications without the hassle of fiber cleaving and handling. The two closely spaced zero-dispersion wavelengths of the femtoWHITE CARS enables stable, low-noise supercontinuum generation and enables control of the spectral shape by tuning the pump wavelength.

For Immediate Release

With the use of the femtoWHITE you eliminate the need for more complex laser systems like cavity dumped oscillators or two synchronized oscillators. The device features built-in beam expansion at the end facets which leads to high damage threshold but also facilitates easy coupling in and out via standard high magnification microscope objective mounted on XYZ stages.

NKT Photonics manufacture ultra-broad spectrum, high-power, modular, industrial supercontinuum lasers and ultra-narrow, single-frequency fibre lasers. Turn-key supercontinuum lasers with up to 8W of power, MHz repetition rates and ps pulse durations from 395nm to 2400nm are available. For more information on the femtoWHITE series supercontinuum generator, or for information on the full range of products available from NKT Photonics contact Photonic Solutions by email at [sales@photonicsolutions.co.uk](mailto:sales@photonicsolutions.co.uk) or phone us on +44 (0)131 664 8122.

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