

## MOSAIC™ OS

### Octave spanning GDD module

January 16<sup>th</sup>, 2012

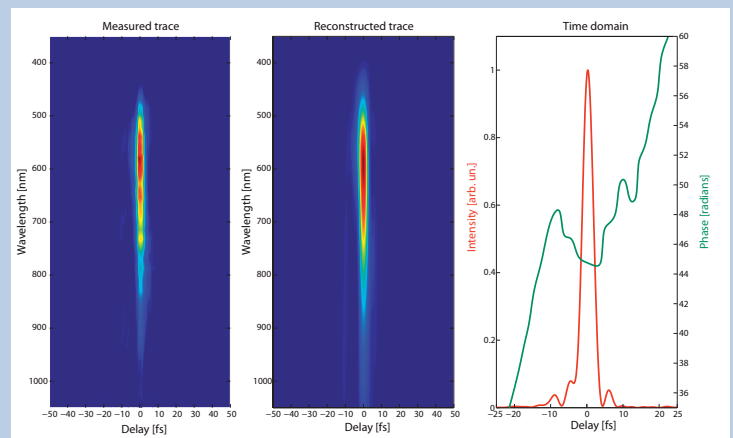
Exhibiting high reflectance over a bandwidth of 600 nm between 400 nm and 1000 nm and controlled group delay dispersion over more than one optical octave, between 450 nm and 960 nm, the dispersive mirrors employed in the MOSAIC™ OS module support pulse durations below 4 fs.

The dispersion of the compressor is matched to the typical chirp of pulses generated from noble-gas-filled hollow fibers seeded with sub-30 fs, mJ-level pulses.

The mirrors are pre-aligned in a compact, robust housing. MOSAIC™ OS is the octave spanning upgrade to the current dispersive mirror set of your KALEIDOSCOPE™ hollow fiber compressor.

**FEMTOLASERS Produktions GmbH** is the premiere manufacturer of ultra-fast, compact and reliable laser oscillator and amplifier solutions. Founded in 1994 in Vienna, Austria, the company offers products and excellent services which have evolved to be the first choice among OEMs and scientists worldwide for demanding applications and solutions. FEMTOLASERS state-of-the-art products offer technology of highest quality.

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Measured FROG trace (left), reconstructed FROG trace (middle) and retrieved temporal intensity and phase (right) of 3.6 fs pulses compressed with MOSAIC™ OS. Data C/O Dr. A. Cavalleri, University of Hamburg.