## Specifications

**PROGRAMMABLE AMPLITUDE AND PHASE FILTER FOR FEMTOSECOND LASER PULSE SHAPING**

### Ultra-compact device
- Wavelength tuning range: 3500 nm to 7000 nm  
  - Wavelengths outside this range are poorly or not diffracted
- Instantaneous bandwidth: up to 3500 nm
- Spectral resolution: 7 cm\(^{-1}\) at 5000 nm
- Intensity control dynamic range: > 45 dB
- Maximum programmable delay: 4 ps at 5000 nm
- Diffraction efficiency for operation up to 10 kHz: 15% on a 100 cm\(^{-1}\) bandwidth
- Typical acoustic waveform refreshing time: < 3 ms
- Input beam requirements: 20 μJ max on \(\Phi = 2.5\) mm, collimated
- Optical module dimensions: XXXX mm\(^3\)
- Typical optical jitter:  
  - With optional Low-jitter electronics:  
    - < 10 fs
    - < 100 as

### In-line geometry

### Simple optical alignment

### Special feature for multidimensional spectroscopy experiments

The optional **Streaming mode** allows to switch between pre-defined pulse shapes at repetition rates up to 500Hz. The maximum number of waveforms is over 100 000. Includes specific hardware, software, and synchronization management.