## Specifications

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

### Ultra-compact device
- Wavelength tuning range: 910 nm to 1150 nm
  - Wavelengths outside this range are poorly or not diffracted
- Instantaneous bandwidth: up to 240 nm
- Spectral resolution: 0.5 nm at 1030 nm
- Intensity control dynamic range: > 45 dB
- Maximum programmable delay: 7.5 ps at 1030 nm
- Diffraction efficiency for operation up to 10 kHz
  - 50% on a 50 nm bandwidth
  - 25% on a 100 nm bandwidth
  - 40% on a 240 nm bandwidth
  - With optional 20W RF amplifier (up to 6kHz)
  - 40% on a 240 nm bandwidth
  - With optional 50W external RF amplifier (up to 2.5kHz)
- Typical acoustic waveform refreshing time: < 3ms
- Input beam requirements: 30 μJ max on \( \phi = 2.5 \) mm, collimated
- Optical module dimensions: 48 x 94 x 20 mm³
- Typical optical jitter: < 10 fs
  - With optional Low-jitter electronics: < 100 as

### In-line geometry

### Simple optical alignment

### Special feature for Yb or Nd-doped amplifiers optimization

High dynamic pulse compression optimization When combined with the **Wizzler** feedback loop.