

FASTLITE

Ultrafast - Shaping - Measurement - Control



DAZZLER™ UWB-3500-7000

Wide Band-cut 22mm DAZZLER™

Specifications

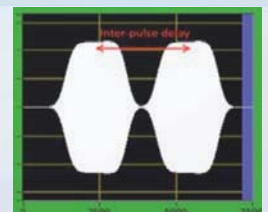
PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

- ✓ Ultra-compact device
- ✓ Advanced software functionalities
- ✓ In-line geometry
- ✓ Simple optical alignment

• 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 1 kHz	15% on a 100 cm ⁻¹ bandwidth
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	20 μJ max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	XXXX mm ³
• Typical optical jitter	< 10 fs
○ With optional Low-jitter electronics	< 100 as

✓ 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.



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