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

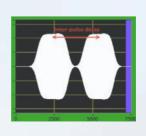
o Wavelengths outside this range are poorly or not diffracted

Wavelengths outside this range are poorly of not any raced	
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	< 3ms
• Input beam requirements	20 μJ max on φ = 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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