

FASTLITE

Ultrafast - Shaping - Measurement - Control



DAZZLER™ Qz-250-400

80 mm length UV DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ Ultra-compact device

✓ Advanced software functionalities

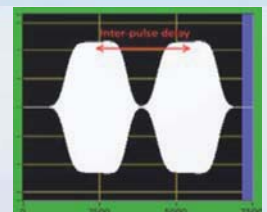
✓ In-line geometry

✓ Simple optical alignment

• Wavelength tuning range	250 nm to 400 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 150 nm
• Spectral resolution	0.1 nm at 250 nm 0.2 nm at 400 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	4.0 ps at 250 nm 2.9 ps at 400 nm
• Diffraction efficiency for operation up to 6 kHz	20% at 250 nm 10% at 400 nm
○ For 30 to 70 fs input pulse duration	
• Typical acoustic waveform refreshing time	< 10 ms
• Input beam requirements	10 μJ max on $\phi = 1.5$ mm, collimated
• Optical module dimensions	113 x 194 x 30 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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