

FASTLITE

Ultrafast - Shaping - Measurement - Control



DAZZLER™ WR-460-740

Intermediate-cut 25mm DAZZLER™

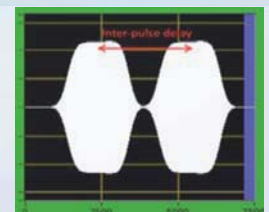
Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ Ultra-compact device	✓ In-line geometry
✓ Advanced software functionalities	✓ Simple optical alignment
• Wavelength tuning range	460 nm to 740 nm
○ Optional extended tuning range	510 nm to 950 nm
○ Typical 30 to 40% diffraction efficiency drop on extended tuning range	
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 280 nm
• Spectral resolution	0.2 nm at 500 nm 0.3 nm at 700 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	9 ps at 500 nm 7 ps at 700 nm
• Diffraction efficiency for operation up to 10 kHz	60% on a 50 nm bandwidth 30% on a 100 nm bandwidth 40% on a 100 nm bandwidth 40% on a 250 nm bandwidth
○ With optional 20W RF amplifier (up to 6kHz)	
○ With optional 50W external RF amplifier (up to 2.5kHz)	
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	30 μ J max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	33 x 85 x 22 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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FASTLITE

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