

DAZZLER™ WR-510-950

Intermediate-cut DAZZLER™ specifications

Programmable amplitude and phase filter for femtosecond pulse shaping

✓ Ultra-compact device

✓ In-line geometry

✓ Advanced software functionalities

√ Simple optical alignment

Wavelength tuning range

510 nm to 950 nm

Optional extended tuning range

460 nm to 740 nm

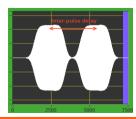
Typical 30 to 40% diffraction efficiency drop on extended tuning range

o Wavelengths outside this range are poorly or not diffracted

Instantaneous bandwidth	up to 440 nm
Spectral resolution	0.2 nm at 530 nm 0.5 nm at 900 nm
Intensity control dynamic range	> 45 dB
Maximum programmable delay	8 ps at 530 nm 6 ps at 900 nm
 Diffraction efficiency for operation up to 10 kHz With optional 20W RF amplifier (up to 6kHz) With optional 50W external RF amplifier (up to 2.5kHz) 	60% on a 50 nm bandwidth 30% on a 100 nm bandwidth 40% on a 100 nm bandwidth 40% on a 250 nm bandwidth
Typical acoustic waveform refreshing time	< 10ms
Input beam requirements	30 μJ max on ϕ = 2.5 mm, collimated
Optical module dimensions	33 x 85 x 22 mm3
 Typical optical jitter With optional Low-jitter electronics 	< 10 fs < 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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