

FASTLITE

Ultrafast - Shaping - Measurement - Control



DAZZLER™ WR-510-950

Intermediate-cut 25mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ **Ultra-compact device**

✓ **Advanced software functionalities**

• Wavelength tuning range

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

< 3ms

• Input beam requirements

30 μ J max on $\phi = 2.5$ mm, collimated

• Optical module dimensions

33 x 85 x 22 mm³

• Typical optical jitter

- With optional Low-jitter electronics

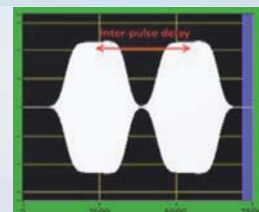
< 10 fs
< 100 as

✓ **In-line geometry**

✓ **Simple optical alignment**

✓ **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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