



## DAZZLER™ WR-460-740

Intermediate-cut DAZZLER™ specifications

Programmable amplitude and phase filter  
for femtosecond pulse shaping

✓ **Ultra-compact device**

✓ **Advanced software functionalities**

✓ **In-line geometry**

✓ **Simple optical alignment**

• Wavelength tuning range	460 nm to 740 nm
○ <i>Optional extended tuning range</i>	510 nm to 950 nm
○ <i>Typical 30 to 40% diffraction efficiency drop on extended tuning range</i>	
○ <i>Wavelengths outside this range are poorly or not diffracted</i>	
• 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
○ <i>With optional 20W RF amplifier (up to 6kHz)</i>	40% on a 100 nm bandwidth
○ <i>With optional 50W external RF amplifier (up to 2.5kHz)</i>	40% on a 250 nm bandwidth
• Typical acoustic waveform refreshing time	< 10ms
• Input beam requirements	30 $\mu$ J max on $\phi$ = 2.5 mm, collimated
• Optical module dimensions	33 x 85 x 22 mm <sup>3</sup>
• Typical optical jitter	< 10 fs
○ <i>With optional Low-jitter electronics</i>	< 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.

