

# FASTLITE

Ultrafast - Shaping - Measurement - Control



## DAZZLER™ WB-800

Wide Band-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	680 nm to 920 nm
○ With optional wavelength extension	650 nm to 1100 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 240 nm
○ With optional wavelength extension	up to 450 nm
• Spectral resolution	0.6 nm at 800 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	3.5 ps at 800 nm
• Diffraction efficiency for operation up to 14 kHz	50% on a 100 nm bandwidth
○ With optional 20W RF amplifier (up to 9kHz)	25% on a 200 nm bandwidth
○ With optional 50W external RF amplifier (up to 4kHz)	35% on a 200 nm bandwidth
	35% on a 450 nm bandwidth
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	30 μJ max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	48 x 90 x 20 mm <sup>3</sup>
• Typical optical jitter	< 10 fs
○ With optional Low-jitter electronics	< 100 as

### ✓ Special feature for CEP control

Multi-kHz rate CEP control with the optional CEP modulation solution. This additional hardware allows dispersion-free, single-shot control of the CEP value down to 6mrad resolution.



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**FASTLITE**

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Spec-WB-800-rev2016-1

9/3/2016

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