

FASTLITE

Ultrafast - Shaping - Measurement - Control



DAZZLER™ HR45-650-1100

High Resolution-cut 45mm DAZZLER™

Specifications

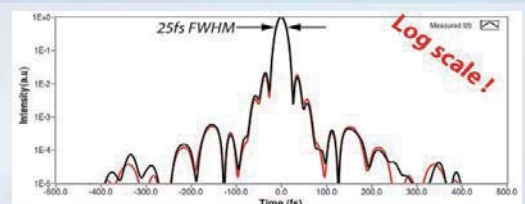
PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

- ✓ Ultra-compact device
- ✓ In-line geometry
- ✓ Advanced software functionalities
- ✓ Simple optical alignment

• Wavelength tuning range	650 nm to 1100 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 450 nm
• Spectral resolution	0.1 nm at 650 nm 0.2 nm at 900 nm 0.3 nm at 1000 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	14 ps at 900 nm
• Diffraction efficiency for operation up to 5 kHz	50% on a 100 nm bandwidth 25% on a 200 nm bandwidth 40% on a 200 nm bandwidth 45% on a 450 nm bandwidth
○ With optional 20W RF amplifier (up to 3kHz)	
○ With optional 50W external RF amplifier (up to 1.5kHz)	
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	30 μJ max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	54 x 105 x 20 mm ³
• Typical optical jitter	< 10 fs < 100 as
○ With optional Low-jitter electronics	

✓ Special feature for Ti:Sa amplifiers optimization

High dynamic pulse compression optimization
When combined with the *Wizzler* feedback loop.



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Spec-HR45-650-1100-rev2016-1 9/3/2016

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