## FASTLITE

Ultrafast - Shaping - Measurement - Control



## DAZZLER™ HR 1030

**High Resolution-cut 25mm DAZZLER™** 

## **Specifications**

PROGRAMMABLE AMPLITUDE AND PHASE FILTER FOR FEMTOSECOND LASER PULSE SHAPING

< 10 fs

< 100 as

- ✓ Ultra-compact device
- ✓ Advanced software functionalities
- ✓ In-line geometry
- √ Simple optical alignment
- Wavelength tuning range 910 nm to 1150 nm
  - o Wavelengths outside this range are poorly or not diffracted

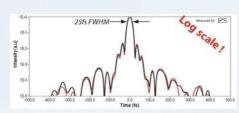
Wavelengths outside this range are poorly of hot anytracted	
• Instantaneous bandwidth	up to 240 nm
Spectral resolution	0.5 nm at 1030 nm
• Intensity control dynamic range	> 45 dB
Maximum programmable delay	7.5 ps at 1030 nm
<ul> <li>Diffraction efficiency for operation up to 10 kHz</li> <li>With optional 20W RF amplifier (up to 6kHz)</li> <li>With optional 50W external RF amplifier (up to 2.5kHz)</li> </ul>	50% on a 50 nm bandwidth 25% on a 100 nm bandwidth 40% on a 100 nm bandwidth 40% on a 240 nm bandwidth
• Typical acoustic waveform refreshing time	< 3ms
Input beam requirements	30 μJ max on φ = 2.5 mm, collimated
Optical module dimensions	48 x 94 x 20 mm <sup>3</sup>

## √ Special feature for Yb or Nd-doped amplifiers optimization

With optional Low-jitter electronics

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

Typical optical jitter



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