



# DAZZLER™ HR-1100-1650 Specifications

## HIGH RESOLUTION TUNABLE DAZZLER™ PROGRAMMABLE AMPLITUDE AND PHASE FILTER FOR FEMTOSECOND LASER PULSE SHAPING

- **Ultra-compact device**
- **In-line geometry**
- **Simple optical alignment**
- Wavelength tuning range 1100 nm to 1650 nm\*
- Instantaneous bandwidth up to 550 nm maximum\*
- Spectral resolution
  - @ 1100 nm 0,6 nm
  - @ 1300 nm 0,8 nm
  - @ 1650 nm 1,2 nm
- Intensity control dynamic range > 45 dB
- Maximum programmable delay > 6 psec
- Efficiency > 50% over a 60nm bandwidth
- Maximum input energy in  $\mu$ Joules at maximum beam diameter 20
- Maximum beam diameter in mm 2.5
- Dimension of crystal module 50 x 100 x 20 mm<sup>3</sup>
- Typical acoustic waveform refreshing time
  - ✓ Option T1: USB 1.5 sec
  - ✓ Option T2: GPIB < 100 msec

\*: These values correspond to the 3dB limits of the wavelength tuning range.

Some operation examples are as follow:

- Center wavelength of 1120nm with an instantaneous bandwidth from 1100 to 1140nm
- Center wavelength of 1200nm with an instantaneous bandwidth from 1150 to 1250nm
- Center wavelength of 1350nm with an instantaneous bandwidth from 1100 to 1600nm
- Center wavelength of 1640nm with an instantaneous bandwidth from 1630 to 1650nm

### FASTLITE

tel: +33 1 69 33 36 42  
<http://www.fastlite.com>

Fax: +33 1 69 33 30 98  
E-mail: [information@fastlite.com](mailto:information@fastlite.com)

December 2nd ,2004  
HR-1100-1650 Rev1