

DAZZLER™ products are turn-key ultrafast pulse shaping systems performing simultaneous and independent spectral phase and amplitude programming of ultrafast laser pulses.

With over 400 systems installed all over the world, the **DAZZLER**TM systems constitute the premier choice for your pulse shaping applications.

DAZZLER ULTRAFAST PULSE SHAPER

Data Sheet

Ultra-compact device Single calibration point

shaping No pixels: No ghost pulses

User-friendly

Key benefits In-line beam geometry

Quantitative

Advanced software functionalities

geometry Simple optical setup

All Dazzler™ systems include:

- **A crystal module** (50x100x20mm³) enabling to control, through an acousto-optic interaction, optical signals in the hundreds of THz range with acoustic signals in the tens of MHz range.
- **A RF generator** which generates user-defined RF waveforms and communicates with the control PC via a USB link.
- **A laptop computer** with pre-installed user-friendly software, allowing easy programming of RF waveforms to perform specific optical shaping.

Available options:

- Wizzler feedback loop for high-dynamic pulse compression optimization.
- *Streaming* of over 100 000 pre-defined waveforms, in order to change the laser pulse characteristics at every trigger event at repetition rates up to 1kHz.
- **CEP analog modulation** to control and stabilize the Carrier Enveloppe Phase with sub $\pi/500$ resolution at repetition rates up to 30kHz.
- Jitter-free electronics for sub 100 attoseconds optical jitter.
- 20W and 50W RF amplifiers for maximum diffraction efficiency.
- 74 fast communication protocol (1 waveform loaded in less than 3ms)

FASTLITE

ULTRAFAST SCIENTIFIC INSTRUMENTATION

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STANDARD DAZZLER PRODUCTS



DAZZLER systems for VIS and IR

3 crystal cuts for laser pulses between 470 and 3500nm

- HR for optimum shaping capability
- WB for optimum diffraction efficiency
- WR intermediate cut (for visible laser pulses)

Pulse shaping capability of VIS & IR Dazzlers



50% on 200nm

40% on 400nm

50% on 400nm

50% on 800nm

50% on 200nm

Spectrum Chart

