

FASTLITE

Ultrafast - Shaping - Measurement - Control



DAZZLER™ HR 800

High Resolution-cut 25mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ Ultra-compact device

✓ Advanced software functionalities

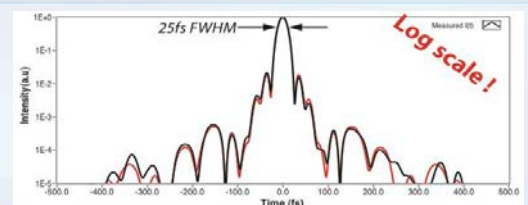
✓ In-line geometry

✓ Simple optical alignment

• Wavelength tuning range	680 nm to 920 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 240 nm
• Spectral resolution	0.3 nm at 800 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	8 ps at 800 nm
• Diffraction efficiency for operation up to 10 kHz	50% on a 50 nm bandwidth 25% on a 100 nm bandwidth 40% on a 100 nm bandwidth 40% on a 240 nm bandwidth
○ With optional 20W RF amplifier (up to 6kHz)	
○ With optional 50W external RF amplifier (up to 2.5kHz)	
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	30 μJ max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	48 x 94 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-HR800-rev2016-1 9/3/2016

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DAZZLER™ UHR-650-1100

High Resolution-cut 25mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

- ✓ Ultra-compact device
- ✓ Advanced software functionalities
- ✓ In-line geometry
- ✓ 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	0.2 nm at 650 nm 0.3 nm at 800 nm 0.4 nm at 1000 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	8 ps at 800 nm
• Diffraction efficiency for operation up to 10 kHz	50% on a 50 nm bandwidth 25% on a 100 nm bandwidth
○ With optional 20W RF amplifier (up to 6kHz)	40% on a 100 nm bandwidth
○ With optional 50W external RF amplifier (up to 2.5kHz)	40% on a 240 nm bandwidth
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	30 μ J max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	48 x 94 x 20 mm ³
• Typical optical jitter	< 10 fs
○ With optional Low-jitter electronics	< 100 as

FASTLITE

Ultrafast - Shaping - Measurement - Control



DAZZLER™ HR 1030

High Resolution-cut 25mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ Ultra-compact device

✓ Advanced software functionalities

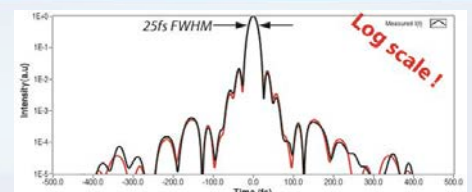
✓ In-line geometry

✓ Simple optical alignment

• Wavelength tuning range	910 nm to 1150 nm
○ Wavelengths outside this range are poorly or not diffracted	
• 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
• Diffraction efficiency for operation up to 10 kHz	50% on a 50 nm bandwidth 25% on a 100 nm bandwidth
○ With optional 20W RF amplifier (up to 6kHz)	40% on a 100 nm bandwidth
○ With optional 50W external RF amplifier (up to 2.5kHz)	40% on a 240 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 94 x 20 mm ³
• Typical optical jitter	< 10 fs
○ With optional Low-jitter electronics	< 100 as

✓ Special feature for Yb or Nd-doped amplifiers optimization

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



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Spec-HR-1030-rev2016-1

9/3/2016

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DAZZLER™ HR 1550

High Resolution-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	1430 nm to 1670 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 240 nm
• Spectral resolution	1 nm at 1550 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	7 ps at 1550 nm
• Diffraction efficiency for operation up to 10 kHz	50% on a 50 nm bandwidth 25% on a 100 nm bandwidth
○ With optional 20W RF amplifier (up to 6kHz)	40% on a 100 nm bandwidth
○ With optional 50W external RF amplifier (up to 2.5kHz)	40% on a 240 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 94 x 20 mm ³
• Typical optical jitter	< 10 fs
○ With optional Low-jitter electronics	< 100 as



DAZZLER™ UHR-900-1700

High Resolution-cut 25mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

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

• Wavelength tuning range	900 nm to 1700 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 800 nm
• Spectral resolution	0.5 nm at 1030 nm 1 nm at 1550 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	7.5 ps at 1030 nm 7 ps at 1550 nm
• Diffraction efficiency for operation up to 10 kHz	50% on a 50 nm bandwidth 25% on a 100 nm bandwidth
○ With optional 20W RF amplifier (up to 6kHz)	40% on a 100 nm bandwidth
○ With optional 50W external RF amplifier (up to 2.5kHz)	40% on a 240 nm bandwidth
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	30 μJ max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	33 x 85 x 22 mm ³
• Typical optical jitter	< 10 fs
○ With optional Low-jitter electronics	< 100 as

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Ultrafast - Shaping - Measurement - Control



DAZZLER™ Qz-250-400

80 mm length UV DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ Ultra-compact device

✓ Advanced software functionalities

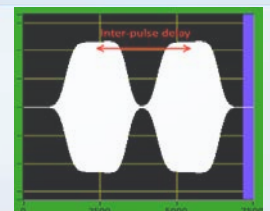
✓ In-line geometry

✓ Simple optical alignment

• Wavelength tuning range	250 nm to 400 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 150 nm
• Spectral resolution	0.1 nm at 250 nm 0.2 nm at 400 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	4.0 ps at 250 nm 2.9 ps at 400 nm
• Diffraction efficiency for operation up to 6 kHz	20% at 250 nm 10% at 400 nm
○ For 30 to 70 fs input pulse duration	
• Typical acoustic waveform refreshing time	< 10 ms
• Input beam requirements	10 μJ max on $\phi = 1.5$ mm, collimated
• Optical module dimensions	113 x 194 x 30 mm ³
• Typical optical jitter	< 10 fs
○ With optional Low-jitter electronics	< 100 as

✓ Special feature for multidimensional spectroscopy experiments

The optional **Streaming mode** allows to switch between pre-defined pulse shapes at repetition rates up to 500Hz. The maximum number of waveforms is over 100 000. Includes specific hardware, software, and synchronization management.



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Spec-Qz-250-400-rev2016-1 9/3/2016

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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**

✓ **Advanced software functionalities**

✓ **In-line geometry**

✓ **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 ³
• 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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9/3/2016

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Ultrafast - Shaping - Measurement - Control



DAZZLER™ WR-460-740

Intermediate-cut 25mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ **Ultra-compact device**

✓ **Advanced software functionalities**

• Wavelength tuning range

- Optional extended tuning range
- Typical 30 to 40% diffraction efficiency drop on extended tuning range
- Wavelengths outside this range are poorly or not diffracted

• Instantaneous bandwidth

• Spectral resolution

• Intensity control dynamic range

• Maximum programmable delay

• Diffraction efficiency for operation up to 10 kHz

- With optional 20W RF amplifier (up to 6kHz)
- With optional 50W external RF amplifier (up to 2.5kHz)

• Typical acoustic waveform refreshing time

• Input beam requirements

• Optical module dimensions

• Typical optical jitter

- With optional Low-jitter electronics

✓ **In-line geometry**

✓ **Simple optical alignment**

460 nm to 740 nm

510 nm to 950 nm

up to 280 nm

0.2 nm at 500 nm

0.3 nm at 700 nm

> 45 dB

9 ps at 500 nm

7 ps at 700 nm

60% on a 50 nm bandwidth

30% on a 100 nm bandwidth

40% on a 100 nm bandwidth

40% on a 250 nm bandwidth

< 3ms

30 μ J max on $\phi = 2.5$ mm, collimated

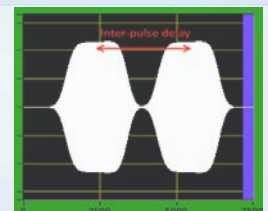
33 x 85 x 22 mm³

< 10 fs

< 100 as

✓ **Special feature for multidimensional spectroscopy experiments**

The optional **Streaming mode** allows to switch between pre-defined pulse shapes at repetition rates up to 500Hz. The maximum number of waveforms is over 100 000. Includes specific hardware, software, and synchronization management.



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Spec-WR-460-740-rev2016-1 9/3/2016

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DAZZLER™ UWB-3500-7000

Wide Band-cut 22mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

- ✓ Ultra-compact device
- ✓ Advanced software functionalities

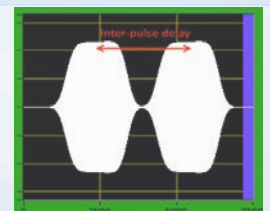
- ✓ In-line geometry
- ✓ Simple optical alignment

• Wavelength tuning range	3500 nm to 7000 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 3500 nm
• Spectral resolution	7 cm ⁻¹ at 5000 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	4 ps at 5000 nm
• Diffraction efficiency for operation up to 1 kHz	15% on a 100 cm ⁻¹ bandwidth
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	20 μJ max on φ = 2.5 mm, collimated
• Optical module dimensions	XXXX mm ³
• Typical optical jitter	< 10 fs
○ With optional Low-jitter electronics	< 100 as

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✓ Special feature for multidimensional spectroscopy experiments

The optional **Streaming mode** allows to switch between pre-defined pulse shapes at repetition rates up to 500Hz. The maximum number of waveforms is over 100 000. Includes specific hardware, software, and synchronization management.



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Ultrafast - Shaping - Measurement - Control



DAZZLER™ WB45-1450-3000

Wide Band-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	1450 nm to 3000 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 1550 nm
• Spectral resolution	1.2 nm at 1600 nm 2.0 nm at 2100 nm 3 nm at 2600 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	5.5 ps at 2100 nm
• Diffraction efficiency for operation up to 7.5 kHz	50% on a 200 nm bandwidth 25% on a 400 nm bandwidth 35% on a 400 nm bandwidth 50% on a 600 nm bandwidth
○ With optional 20W RF amplifier (up to 4.5kHz)	
○ With optional 50W external RF amplifier (up to 2kHz)	
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	30 μJ max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	48 x 98 x 22 mm ³
• 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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DAZZLER™ HR45-1030

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	910 nm to 1150 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 240 nm
• Spectral resolution	0.3 nm at 1030 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	14 ps at 1030 nm
• Diffraction efficiency for operation up to 5 kHz	50% on a 100 nm bandwidth 25% on a 200 nm bandwidth
○ With optional 20W RF amplifier (up to 3kHz)	40% on a 200 nm bandwidth
○ With optional 50W external RF amplifier (up to 1.5kHz)	60% on a 240 nm bandwidth
• 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
○ With optional Low-jitter electronics	< 100 as

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✓ 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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DAZZLER™ HR45-650-1100

High Resolution-cut 45mm DAZZLER™

Specifications

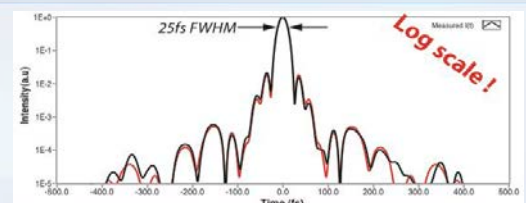
PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

- ✓ 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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DAZZLER™ HR45-1100-2200

High Resolution-cut 45mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ **Ultra-compact device**

✓ **Advanced software functionalities**

- Wavelength tuning range
 - With optional wavelength extension
 - Wavelengths outside this range are poorly or not diffracted

- Instantaneous bandwidth
 - With optional wavelength extension

• Spectral resolution

• Intensity control dynamic range

• Maximum programmable delay

• Diffraction efficiency for operation up to 5 kHz

- With optional 20W RF amplifier (up to 3kHz)
- With optional 50W external RF amplifier (up to 1.5kHz)

• Typical acoustic waveform refreshing time

• Input beam requirements

• Optical module dimensions

• Typical optical jitter

- With optional Low-jitter electronics

✓ **In-line geometry**

✓ **Simple optical alignment**

1100 nm to 2200 nm
1100 nm to 2500 nm

up to 1100 nm
up to 1400 nm

0.7 nm at 1700 nm

> 45 dB

13 ps at 1700 nm

50% on a 100 nm bandwidth
25% on a 200 nm bandwidth
40% on a 200 nm bandwidth
40% on a 500 nm bandwidth

< 3ms

30 μ J max on $\phi = 2.5$ mm, collimated

54 x 105 x 20 mm³

< 10 fs

< 100 as

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✓ **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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DAZZLER™ WB45-2000-3700

Wide Band-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	2000 nm to 3700 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 1700 nm
• Spectral resolution	3.5 nm at 2500 nm 7 nm at 3500 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	5.5 ps at 2800 nm
• Diffraction efficiency for operation up to 7.5 kHz	50% on a 200 nm bandwidth 25% on a 400 nm bandwidth 35% on a 400 nm bandwidth 50% on a 600 nm bandwidth
○ With optional 20W RF amplifier (up to 4.5kHz)	
○ With optional 50W external RF amplifier (up to 2kHz)	
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	30 μJ max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	48 x 98 x 22 mm ³
• Typical optical jitter	< 10 fs < 100 as
○ With optional Low-jitter electronics	

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✓ 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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DAZZLER™ WR-510-950

Intermediate-cut 25mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ **Ultra-compact device**

✓ **Advanced software functionalities**

• Wavelength tuning range

- Optional extended tuning range
- Typical 30 to 40% diffraction efficiency drop on extended tuning range
- Wavelengths outside this range are poorly or not diffracted

• Instantaneous bandwidth

up to 440 nm

• Spectral resolution

0.2 nm at 530 nm
0.5 nm at 900 nm

• Intensity control dynamic range

> 45 dB

• Maximum programmable delay

8 ps at 530 nm
6 ps at 900 nm

• Diffraction efficiency for operation up to 10 kHz

- With optional 20W RF amplifier (up to 6kHz)
- With optional 50W external RF amplifier (up to 2.5kHz)

60% on a 50 nm bandwidth
30% on a 100 nm bandwidth
40% on a 100 nm bandwidth
40% on a 250 nm bandwidth

• Typical acoustic waveform refreshing time

< 3ms

• Input beam requirements

30 μ J max on $\phi = 2.5$ mm, collimated

• Optical module dimensions

33 x 85 x 22 mm³

• Typical optical jitter

- With optional Low-jitter electronics

< 10 fs

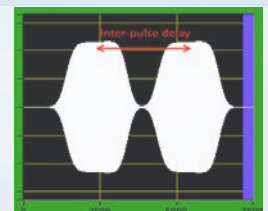
< 100 as

✓ **In-line geometry**

✓ **Simple optical alignment**

✓ **Special feature for multidimensional spectroscopy experiments**

The optional **Streaming mode** allows to switch between pre-defined pulse shapes at repetition rates up to 500Hz. The maximum number of waveforms is over 100 000. Includes specific hardware, software, and synchronization management.



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