

Pulse Picker

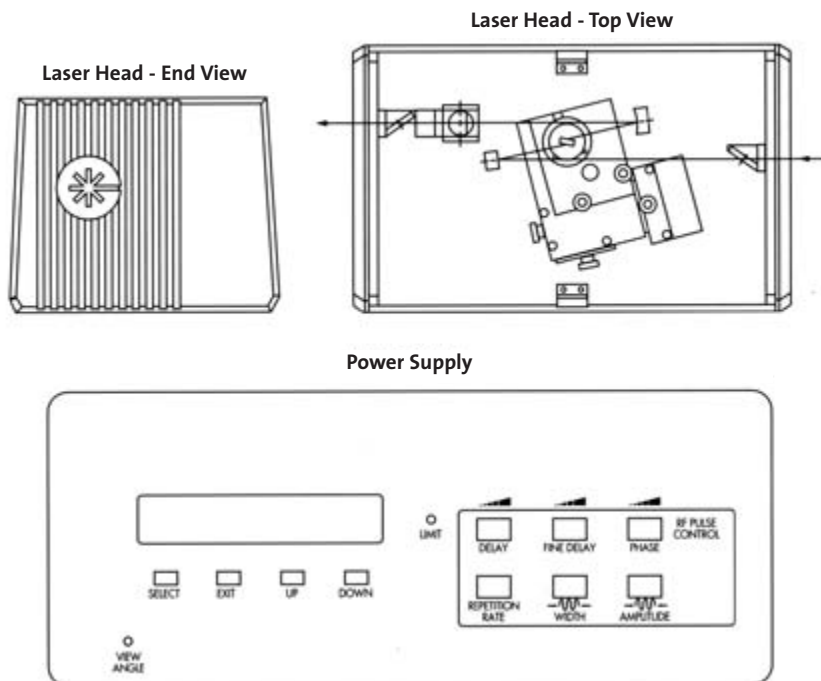
Accessory for Selecting Pulses from Modelocked Ti:Sapphire Oscillators



Features

- Standalone accessory for selecting pulses from femtosecond or picosecond Ti:Sapphire oscillator
- For use with femtosecond or picosecond lasers
- Wavelength options covering 500 to 3000 nm
- Single-pass Bragg cell for easy alignment
- High diffraction efficiency and contrast ratio
- Dedicated controller with CPU
- LCD display of operational parameters
- Controller settings provide widely variable repetition rate: 9.5 kHz to 4.75 MHz

Mechanical Specifications



Superior Reliability & Performance

Pulse Picker

Accessory for Selecting Pulses from Modelocked Ti:Sapphire Oscillators

Specifications

	Pulse Picker
Pulse Repetition Rate	From ~9.5 kHz to 4.75 MHz variable by integer division of oscillator frequency ¹ The unit also can be externally triggered at any repetition rate below 4 MHz or operated single-shot.
Diffraction Efficiency ² (%)	
TeO ₂ Cell	>60
SiO ₂ Cell	>50
Contrast Ratio ³	
TeO ₂ Cell	>500:1
SiO ₂ Cell	>1000:1
Wavelength Range (nm)	<700 to >1000 ⁴ (other ranges available on request)
Max. Input Power (W)	
TeO ₂ Cell	<2
SiO ₂ Cell	<4
Dimensions (L x W x H)	
Head	270 x 160 x 160 mm (10.5 x 6.2 x 6.2 in.)
Controller	440 x 440 x 180 mm (17.2 x 17.2 x 7 in.)

¹ The Pulse Picker accepts the nominal 76 MHz input frequency from the synchronous output photodiode of the Mira 900. A 38 MHz RF clock is divided by 8 thru 4096.

² Percentage of incident pulse energy in diffracted output pulse.

³ Main pulse to non-adjacent pulses. Main pulse to adjacent pulse is >100:1 TeO₂ cell or >200:1 SiO₂ cell. Contrast ratios for high-power pumped femtosecond systems are 0.5 times the given values for the TeO₂ cell.

⁴ For SHG operation, the fundamental output must be pulse picked first, then frequency doubled.

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all Pulse Picker accessories. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



www.Coherent.com

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