

# **Pulse Picker**

Accessory for Selecting Pulses from Modelocked Ti:Sapphire Oscillators

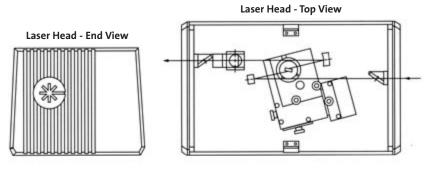


#### Features

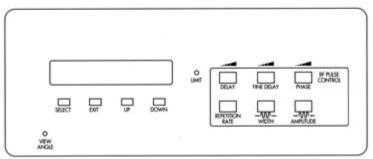
- Standalone accessory for selecting pulses from femtosecond or picosecond Ti:Sapphire oscillator
- For use with femtosecond or picosecond lasers
- Wavelength options covering 500 to 3000 nm
- Single-pass Bragg cell for easy alignment

- 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**



**Power Supply** 



### **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. <sup>1</sup> The unit also can be externally triggered at any repetition rate below 4 MHz or operated single-shot.
	Diffraction Efficiency <sup>2</sup> (%)	
	TeO2 Cell	>60
	SiO2 Cell	>50
	Contrast Ratio <sup>3</sup>	
	TeO2 Cell	>500:1
	SiO2 Cell	>1000:1
	Wavelength Range (nm)	<700 to >1000 <sup>4</sup> (other ranges available on request)
	Max. Input Power (W)	
	TeO2 Cell	<2
	SiO2 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.)
	<sup>1</sup> The Pulse Picker accepts the nor A 38 MHz RF clock is divided by <sup>2</sup> Percentage of incident pulse end <sup>2</sup> Percentage of incident pulse end <sup>3</sup> Percentage of incident pulse	

Percentage of incident pulse energy in dimacted output pulse.
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.
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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