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StableWave™ and Vortex™ Tunable Laser Controllers

- *Low-noise design*
- *Easy-to-use controls and GPIB/RS-232 interfaces*

Our Vortex laser controller is designed to operate with either the Vortex or StableWave tunable laser series. The controller allows you to easily fine tune and adjust the output power or bias current with the press of a button or, via the GPIB/RS-232 interface, the click of a mouse.

Features:

Interchangeable Laser Heads

With our plug-&-play design, adding more wavelengths is as easy as interchanging the head cable.

High-Speed Current Modulation

Modulate the laser amplitude with a 3-dB bandwidth of 1 MHz through the controller's current-modulation input.

Easy FM Modulation

Conveniently modulate the laser frequency with a bandwidth of 3.5 kHz (3-dB rolloff) through a back panel input.

Complete Control of Laser Parameters

From the front panel of the controller, you can set and monitor the bias current of the laser diode or the bias point of the PZT actuator on the tuning element. And you can set the desired output power in constant power mode.

Complete Computer Control and LabVIEW™ Programs

Anything you can adjust from the front panel can be controlled through the RS-232 or GPIB (IEEE-488) interfaces. You can also set and monitor all diode laser parameters. In remote mode, you still have access to the frequency-modulation input, allowing you to dither the frequency as you perform automated wavelength scans.

Complete LabVIEW drivers for controlling the laser operation are available for download on the New Focus™ website, www.newfocus.com.

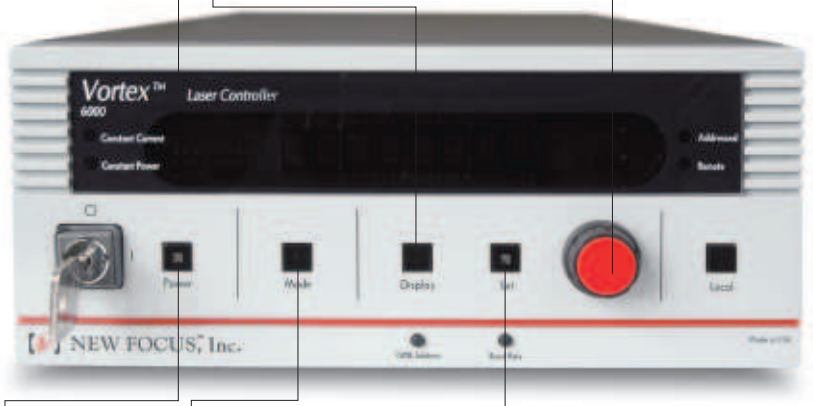
Model #	TLB-7000
Price*	$4,000

Related Products: StableWave Tunable Laser (page 28)
Vortex Tunable Laser (page 32)

**For international prices add 10%.*

Detector Input

The general purpose detector input on the back panel allows you to implement digital control algorithms and is particularly useful for stable-power wavelength scans, background correction in applied spectroscopy experiments, and wavelength stabilization.



System Display

Display Button: *Allows you to set the system display to show diode current, output power, or piezo voltage.*

Selection Knob: *Controls values of settable parameters.*

Laser Power: *Turns on the current to the diode.*

Mode Button: *Changes the operating mode from constant current to constant power.*

Set Button: *Allows you to set diode current, output power, and piezo voltage.*



Frequency Modulation Input: *Allows you to control the voltage applied to the piezo.*

Current Modulation Input: *Lets you modulate the amplitude of the laser at up to 1 MHz. (For the Vortex series lasers, an SMA input is provided on the laser head with a >100 MHz bandwidth.)*

Auxiliary Input: *General-purpose analog input for control applications.*

Remote Interfaces: *Let you use either an IEEE-488 or an RS-232 computer interface for control of laser functions.*

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