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NEW FOCUS Inc.

fizeau wavelength METER

Model 7711

We built our patented Model 7711 Fizeau wavelength meter* on the principle that simple optics combined with sophisticated electronics gives you a less expensive, more robust, instrument that's a real workhorse in your lab. Use it as a wavelength monitor for any tunable laser including dye, Ti:Sapphire or OPO systems. This easy-to-use instrument has no moving parts, a minimum of optical elements and requires no internal reference calibration. A built-in microprocessor means you won't need an additional computer to run it. (IEEE-488 (GPIB) and RS-232 interfaces are included.)

The simplicity of a Fizeau interferometer, in conjunction with the integrating effects of a CCD array, allows you to measure the wavelength of both pulsed and cw light sources from 400 nm to 1.0 µm with 0.001-nm resolution. (For more information, see How the Wavelength Meter Works.) Because of the integrating effects of the CCD array, the wavelength meter is insensitive to pulse width. For repetition rates greater than 10 Hz, the wavelength meter is free running. For rates less than 10 Hz, you will need to externally synchronize your laser to it.

To make alignment easy, we've included a visible guide beam and a proportional numeric display of the CCD array signal. Simply align your signal to the guide beam and optimize coupling by consulting the front-panel display.

You won't have to worry about output power fluctuations as you are tuning your laser -- even when the output signal varies by two orders of magnitude. This is because our wavelength meter includes automatic-gain control and the detector signal is automatically adjusted for optimum performance. The sensitivity of the CCD array allows measurements to be made with very low input powers.

While the wavelength meter is designed to measure single-frequency sources, broadband or multimode sources can also be measured. An external trigger input allows you to synchronize with pulsed sources, or to sample at regular intervals. Wavelength can be displayed in either length (in air or vacuum) or frequency units. There's a delta mode which displays the difference between the current wavelength and a stored reference value and there's a wavelength hold for storing the current wavelength.

**Technology licensed from Science Solutions, Inc. (U.S. Patent # 5,420,687)*

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characteristics

Model #	7711
Wavelength Resolution	0.001 nm
Wavelength Accuracy	0.01 nm
Readout Rate	1-10 Hz
Wavelength Range	0.4-1.0 µm
Max. Input Linewidth	30 GHz
Min. Pulse Length	30 ps
Max. Peak Input Intensity	1 MW/cm^2 (10-ns pulse)
Operating Temperature	10-40 C
Input Sensitivity	5-µW at 400 nm
Input Dynamic Range	18 dB

**Please note that international prices are 10% higher. For more information, please see *Please note that international prices are 10% higher. For more information, please see A Word to Our International Friends.*

If you have any technical questions or require a quote, please e-mail us at Contact@NewFocus.com. Or use our request for quote form.

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honors

Winner, Laser Focus World
"1996 Commercial Technology Achievement Award"

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