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PRODUCT SPOTLIGHT

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INSTRUMENTS

Accuracy. Reliability. Confidence.

LASER WAVELENGTH METER

871 Series



Fast, accurate, and reliable wavelength measurement of pulsed and CW lasers

The 871 Series Laser Wavelength Meter from Bristol Instruments uses a proven Fizeau etalon design to measure the wavelength of pulsed and CW lasers to an accuracy as high as ± 0.0001 nm. The system generates a spatial interference pattern that is detected by a fast photodetector array. An on-board digital signal processor quickly converts the interferometric information to wavelength resulting in a sustained measurement rate as high as 1 kHz.

Two versions of the 871 Laser Wavelength Meter are available. The model 871A is the most precise, providing an accuracy of ± 0.2 parts per million (± 60 MHz at 1000 nm). For experiments that are less exacting, the model 871B is a lower priced alternative with an accuracy of ± 0.75 parts per million (± 225 MHz at 1000 nm). Automatic calibration with a built-in wavelength standard guarantees this performance to ensure the most meaningful experimental results.

Key Features:

- Wavelength accuracy up to ± 0.0001 nm.
- Automatic calibration with a built-in wavelength standard.
- Operation available from 375 nm to 2.5 μ m.
- Sustained measurement rate of 1 kHz.
- Convenient pre-aligned fiber-optic input.
- Asynchronous operation with automatic pulse detection.
- Straight forward operation with a PC using USB or G Network.
- Display software provided to control measurement parameters and report wavelength data.
- Built-in PID controller for precise laser stabilization.
- Automatic data reporting using custom or LabVIEW programming eliminates the need for a dedicated PC.
- Convenient tablet/smartphone application reports measurement data anywhere in the laboratory.
- Five-year warranty covers all parts and labor.

It's our business to be exact!

PH 010 504 3000 www.bristol-instruments.com info@bristol-instruments.com

871 Series High-Speed Laser Wavelength Meter

The 871 Laser Wavelength Meter measures wavelength at a sustained rate of 1 kHz, enabling the wavelength characterization of every single pulse for most lasers. By combining proven Fizeau etalon technology with automatic calibration, the most reliable accuracy is ensured for the most meaningful experimental results. Wavelength is measured to an accuracy as high as ± 0.0001 nm and operation is available from 375 nm to 2.5 μ m.

Download the data sheet for more information.

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