WS5 Precision Wavelength Meter

Absolute accuracy: 3000 MHz, resolution: 1000 MHz

Compact, reliable and versatile

The robust, compact HighFinesse/Angstrom WS5 precision wavelength meter is designed for everyday control of pulsed and cw laser sources. It can be operated with very low light intensity coupled through an easy-to-use optical multi-mode fiber. Optical elements and electronics are housed in a compact, thermally insulated casing.

Power supply and data readout are accomplished with any PC via a USB interface. The wavelength meter is ready for use as soon as the software delivered with the device is installed. There is no warm-up time required under constant ambient conditions.

To enable customized applications, the WS5's design allows the integration of additional options – even years after purchase.

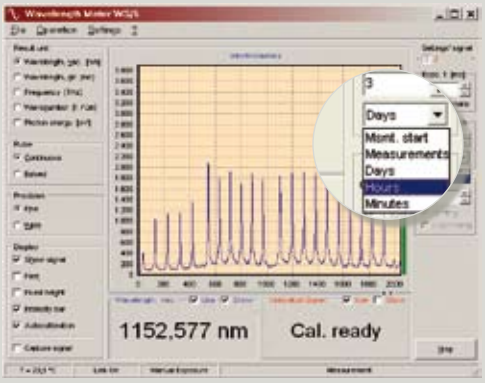
Enter a new world of accuracy!

Ångstrom

HighFinesse
Laser and Electronic Systems

Technical Data		WS5
Measurement range (nm)	Standard (350 – 1120)	●
	UV (248 – 1100)	●
	IR (800 – 1750)	●
	UV-II (192 – 800)	●
	IR-II (1000 – 2250)	●
Absolute accuracy [7]	192 – 370 nm (pm) [1]	3
	370 – 1100 nm (MHz)	3000
	1100 – 2250 nm (MHz)	2000
Quick coupling accuracy (with MM fiber)		3000
Resolution (MHz)		1000
Linewidth option: [4]	Accuracy (MHz) [3]	5 % (>2000) [4]
	Max. bandwidth (GHz)	60
Measurement speed (Hz) (depending on PC hardware and settings)	Wavelength	300
	Interferometer picture	80
	Linewidth option	20
Required input power (µJ)	Standard	0.02 – 5
	UV	0.1 – 20
	IR	20 – 200
	UV-II	1 – 80
	IR-II	50 – 1000
Fizeau interferometers [2]	FSR (GHz)	100
Grating Option [3]	Spectral resolution (nm)	0.2
Coupling fiber diameter (µm)		400
Calibration		Built-in calibration
Calibration period		> 1 month (will be detected and done automatically)
Warm-up time		No warm-up time under constant ambient conditions (except IR-II: > 30 minutes warm-up time required) Otherw. until thermal and air pressure equilibrium is reached.
Dimensions L × W × H (mm)		360 × 120 × 120
Weight (kg)		2.8
Interface		High-speed USB 2.0 connection
Power supply		Power consumption < 2.3 W, supply directly via USB cable IR-II: external power supply included

1) With MM fiber
2) Values for wide-/fine-mode
3) Only for standard range
4) Max. accuracy in () for narrow lasers
7) according 3σ criteria



NEW: Internal calibration

Automatic calibration with built-in wavelength standard, settable measurement counts or time period between calibrations.

Typical WS5 applications

The WS5 is a standard instrument for wavelength monitoring of tunable pulsed or cw laser sources such as Diode laser, Titanium Saphire Laser, Dye Laser, etc. It is well suited for spectroscopic application with normal resolution.

Available WS5 options

■ Diffraction grating (D) ■ PID-controller (PID) ■ Multi-channel switcher (MC)
■ Double pulse (DP) ■ TTL-trigger (TTL)

HighFinesse
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