



Wavelength Meter Overview WS Series



Measurement range	UV-II (192 – 800 nm) UV-I (248 – 1180 nm) Standard (330 – 1180 nm) VIS / IR-I (330 – 1750 nm) ¹⁵⁾ IR-I (630 – 1750 nm) VIS / IR-II (500 – 2250 nm) ¹⁵⁾ IR-II (1000 – 2250 nm)
Absolute accuracy ¹⁾	192 – 330 nm ²⁾ 330 – 375 nm 375 – 800 nm 800 – 1180 nm 1180 – 2250 nm
Quick coupling accuracy (with 50 µm multi mode fiber)	
Wavelength deviation sensitivity/Measurement resolution ⁵⁾	
Linewidth option ¹⁰⁾	Estimation accuracy ⁶⁾
Measurement speed	
Minimum required input energy and power ⁸⁾	Standard (VIS) UV-I UV-II IR-I IR-II ⁹⁾
FSR of the Fizeau interferometers (Fine/wide mode) ¹⁰⁾	
Calibration ¹⁶⁾	
Recommended calibration period	
Warm-up time	
Dimensions L × W × H	
Weight	
Interface	
Power supply	

- 1) According to 3σ criterion, but never better than 20 % of the laser linewidth.
 - 2) With multi mode fiber.
 - 3) ± 200 nm around calibration wavelength; outside of this range the accuracy as WS7-30.
 - 4) ± 2 nm around calibration wavelength; outside of this range the accuracy as WS8-10;
note 3 also applies.
 - 5) Standard deviation within 1 minute. WS6-200 and higher models require singlemode or photonic crystal fibers to reach this resolution.
 - 6) Not better than 20 % of the linewidth.
 - 7) Depending on PC hardware and settings. Ultra-fast models up to 76 kHz available.
 - 8) The CW power interpretation in [μ W] compares to an exposure of 1s (generally the energy needs to be divided by the exposure time to obtain the required power).
 - 9) μ J interpretation for pulsed lasers. CW signals need more power in [μ W] since the exposure is limited at IR-II instruments.
 - 10) Each instrument in each mode can measure lasers with a linewidth up to 30 % of the corresponding FSR.
This option is not available for next generation wavemeters.

11) For IR instruments: 32/32.

12) For IR-I and IR-II instruments: 16/16.

13) IR and UV-II instruments: external calibration source needed, e. g. LFR-1532 or stabilized HeNe.

14) IR-II: > 30 min. warm-up, or until ambient equilibrium.

15) These instruments have a decreased power sensitivity by a factor of 4, compared to the Standard and IR ranges in the required input fields, respectively.

16) External source required for IR-I and IR-II instrument.
Our recommendation: LFR-1532.

17) Photonic crystal switches can be used up to 2000 nm.
Please contact HighFinesse if you want to measure over 2000 nm.

18) Measurement range WS7-60 IR-I: 520 – 1750 nm

19) Range is limited from 248 to 330 nm.

20) Range is limited up to 1750 nm.



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