



Fast Wavelength Meter Overview WF Series



HighFinesse
The Standard of Accuracy



Ångström

	WF6-600 VIS	WF6-200 VIS	WF6-200 IR-I	WF6-600 IR-II	WF7 IR-II
Measurement range (QE > 60%)	380 – 1064 nm	530 – 1064 nm	980 – 1650 nm	1400 – 2600 nm	1400 – 2600 nm
Absolute accuracy	600 MHz	200 MHz	200 MHz	600 MHz	60 MHz
Quick coupling accuracy ¹⁾	600 MHz	600 MHz	600 MHz	Singlemode fibers only	200 MHz
Wavelength deviation sensitivity	20 MHz	8 MHz	4 MHz	40 MHz	10 MHz
Exposure Times ²⁾	3 – 3300 µs	3 – 3300 µs	6 – 9500 µs	12 – 90 µs	26 – 20000 µs
Measurement Rate	300 – 24000 Hz	300 – 24000 Hz	100 – 76000 Hz	100 – 32000 Hz	up to 20000 Hz/up to 38 kHz
Live Calculation Speed ³⁾	24000 Hz	24000 Hz	28000 Hz	20000 Hz	5 kHz
Live Calculation Latency ³⁾	≥ 33.6 – 0.7 ms	≥ 33.6 – 0.7 ms	≥ 100.3 – 0.4 ms	10 ms – 150 µs	10 ms – 150 µs
Minimum required input energy and power	100 µW @ 3 µs / 0.29 nJ @ 532 nm	100 µW @ 3 µs / 0.29 nJ @ 532 nm	1 mW @ 6 µs / 6 nJ @ 1532 nm	100 µW @ 24 µs / 2.4 nJ @ 1532 nm and 100 µW @ 24 µs / 2.4 nJ @ 2327 nm	0.4 nJ corresponding to 15 µW @ 26 µs exposure time
Fizeau interferometers (FSR)	16 GHz / 100 GHz	16 GHz	16 GHz	16 GHz	8 GHz / 16 GHz
Calibration	Stabilized HeNe laser or any other well known laser source $\Delta v < 150$ MHz		A well known laser source (e.g. LFR-1532) $\Delta v < 40$ MHz		A well known laser source (e.g. LFR-1532) $\Delta v < 10$ MHz
Recommended calibration period	1 month			1 day	
Warm-up time	30 min			30 min	
Dimensions	432 × 144 × 144 mm		436 × 342 × 133 mm		436 × 342 × 133 mm
Weight	3.5 kg		3.5 kg		3.5 kg
Interface	USB 2.0 and GbE	USB 2.0 and GbE	USB 2.0 and Camera Link	GbE	GbE
Power supply	External 12 V	External 12 V	External 12 V	100 – 240 V, 50 – 60 Hz	100 – 240 V, 50 – 60 Hz

1) With 50 µm multi mode fiber. 2) Depends on gain mode. 3) Depends on PC and measurement rate.

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