



Wavelength Meter (Fast Series)

WF6 Series



HighFinesse
The Standard of Accuracy



Ångstrom

	WF6-600 VIS	WF6-200 VIS	WF6-200 IR
Available Measurement Ranges (QE > 60%)	380 – 1064 nm	530 – 1064 nm	980 – 1650 nm
Absolute Accuracy	600 MHz	200 MHz	200 MHz
Quick Coupling Accuracy	600 MHz	600 MHz	600 MHz
Wavelength Deviation Sensitivity	20 MHz	4 MHz	4 MHz
Exposure Times ¹⁾	3 – 3300 μ s	3 – 3300 μ s	6 – 9500 μ s
Measurement Rate	300 – 24000 Hz	300 – 24000 Hz	100 – 76000 Hz
Live Calculation Speed ²⁾	24000 Hz	24000 Hz	28000 Hz
Live Calculation Latency ²⁾	\geq 33.6 – 0.7 ms	\geq 33.6 – 0.7 ms	\geq 100.3 – 0.4 ms
Minimum Required Input Energy and Power	100 μ W @ 3 μ s exposure time / 0.29 nJ @ 532 nm	100 μ W @ 3 μ s exposure time / 0.29 nJ @ 532 nm	1 mW @ 6 μ s exposure time / 6 nJ @ 1532 nm
Fizeau Interferometers (FSR)	16 GHz/100 GHz	16 GHz/100 GHz	16 GHz
Calibration	Stabilized HeNe laser or any other well known laser source $\Delta v < 150$ MHz	Stabilized HeNe laser or any other well known laser source $\Delta v < 40$ MHz	A well known laser source (e.g. SLR 1532) $\Delta v < 40$ MHz
Recommended Calibration Period	1 month	1 month	1 month
Warm-up Time	30 min	30 min	30 min
Dimensions	432 × 144 × 144 mm	432 × 144 × 144 mm	432 × 144 × 144 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
Power Supply	External 12 V	External 12 V	External 12 V

1) Depends on gain mode.

2) Depends on PC and measurement rate.

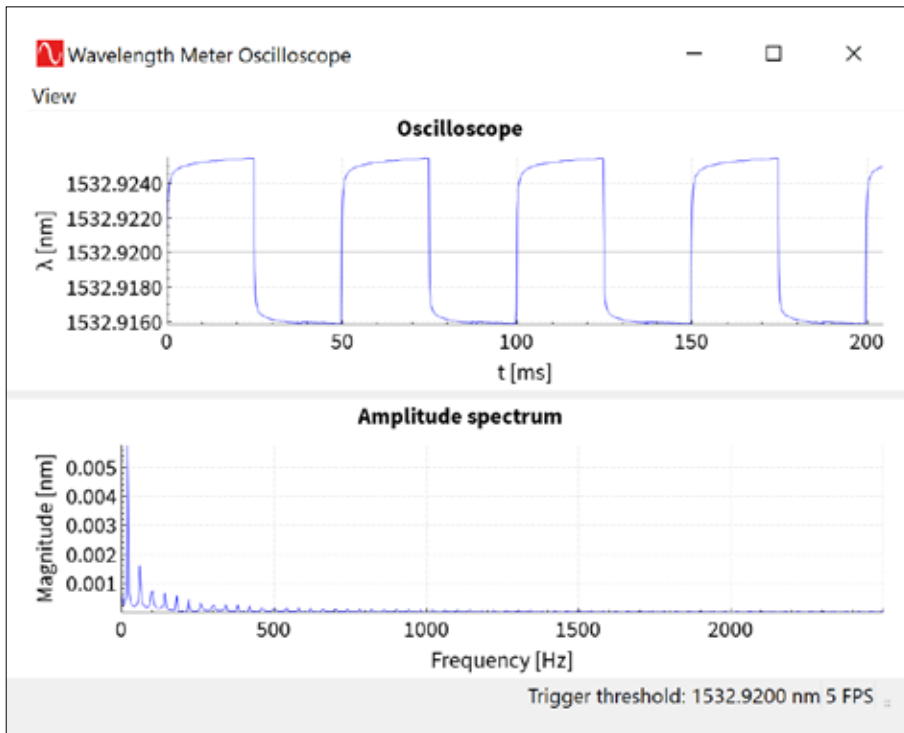


External Trigger (TTL)

External triggering allows the user to synchronize wavelength measurement with external setup by means of TTL pulses. The light sensitive sensors are prepared for measurement up to a specifiable integration time after the arrival of the external trigger pulse.

Wavelength Meter Oscilloscope

The oscilloscope feature illustrates periodically modulated lasers in a convenient way. Automatic edge triggering ensures a static image of the laser signal's time behavior. Additionally the corresponding frequency components are displayed in an amplitude spectrum.



Visualization of rectangular laser modulation in the wavelength meter oscilloscope



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Typical Applications

The WS Fast Series offers excellent accuracy combined with maximum data acquisition rate up to 76 kHz. Even fast dynamics in the kHz range can be measured this way. Different measurement modes enable the user to record or view the frequency behaviour of the light source.

Further Information

For further technical information, application examples, diagrams and for customization of the WS Fast series please contact:

HighFinesse Team

service@highfinesse.de



HighFinesse GmbH
Wöhrdstraße 4
72072 Tübingen, Germany



T +49 (0) 7071 - 53918 0
F +49 (0) 7071 - 5391899
M info@highfinesse.com



Additional information
and distributors:
www.highfinesse.com