



Wavelength Meter (Fast Series)

WF6 Series



HighFinesse
The Standard of Accuracy



Ångström

| | WF6-600 VIS | WF6-200 VIS | WF6-200 IR | WF6-600 IR-II |
|---|---|--|---|--|
| Available Measurement Ranges (QE > 60%) | 380 – 1064 nm | 530 – 1064 nm | 980 – 1650 nm | 1400 – 2600 nm |
| Absolute Accuracy | 600 MHz | 200 MHz | 200 MHz | 600 MHz |
| Quick Coupling Accuracy ¹⁾ | 600 MHz | 600 MHz | 600 MHz | Singlemode fibers only |
| Wavelength Deviation Sensitivity | 20 MHz | 8 MHz | 4 MHz | 40 MHz |
| Exposure Times ²⁾ | 3 – 3300 μ s | 3 – 3300 μ s | 6 – 9500 μ s | 12 – 90 μ s |
| Measurement Rate | 300 – 24000 Hz | 300 – 24000 Hz | 100 – 76000 Hz | 100 – 32000 Hz |
| Live Calculation Speed ³⁾ | 24000 Hz | 24000 Hz | 28000 Hz | 20000 Hz |
| Live Calculation Latency ³⁾ | $\geq 33.6 - 0.7$ ms | $\geq 33.6 - 0.7$ ms | $\geq 100.3 - 0.4$ ms | 10 ms – 150 μ s |
| Required Minimum 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 | 100 μ W @ 24 μ s / 2.4 nJ @ 1532nm and 100 μ W @ 24 μ s / 2.4 nJ @ 2327 nm |
| Fizeau Interferometers (FSR) | 16 GHz/100 GHz | 16 GHz | 16 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 | A well known laser source (e.g. SLR 1532) $\Delta v < 40$ MHz |
| Recommended Calibration Period | 1 month | 1 month | 1 month | 1 day |
| Warm-up Time | 30 min | 30 min | 30 min | 30 min |
| Dimensions | 432 × 144 × 144 mm | 432 × 144 × 144 mm | 432 × 144 × 144 mm | 436 × 342 × 133 mm |
| Weight | 3.5 kg | 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 |
| Power Supply | External 12 V | External 12 V | External 12 V | 100 – 240 V, 50 – 60 Hz |

1) With 50 μ m multi mode fiber.

2) Depends on gain mode.

3) Depends on PC and measurement rate.

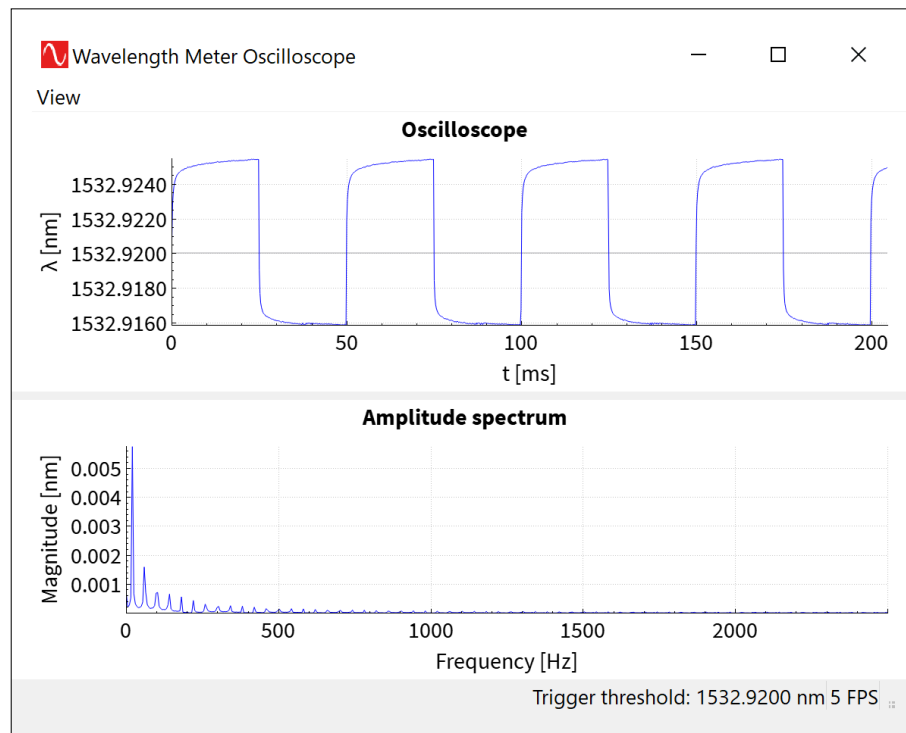


External Trigger (ET)

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:

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