

waveScan High Resolution Spectrometer

High Resolution Spinning Grating Spectrometer

waveScan by APE is a compact and cost-effective spectrometer for ultrafast laser systems, delivering rapid measurements at high spectral resolutions.

The spinning grating technology provides high scan rates, while achieving above average spectral resolution over a wide wavelength range.

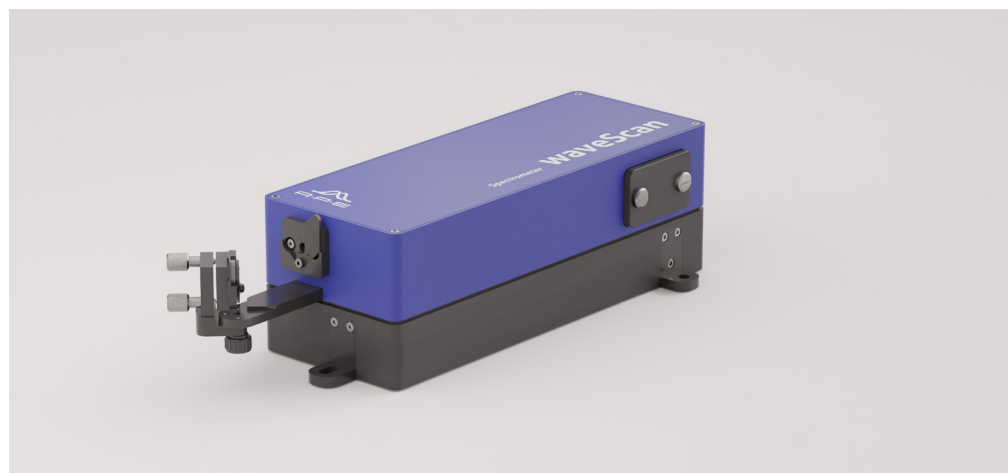
Different configurations, from 200 nm UV to 6.3 μm in the Mid-infrared range, make waveScan the perfect choice for analyzing the spectrum of different laser types.

Tunable laser systems profit from the wide, octave spanning wavelength ranges that waveScan has to offer.

Automatization is made possible with simple commands directly through USB or via network and TCP/IP.

As an option, waveScan is available with an exchangeable fiber input in addition to a free-space input.

Whether you need fast scan rates for adjustment or high resolution, combined with convenient measurement control and data processing - waveScan is the ideal solution.



- High spectral resolution down to 0.05 nm depending on the configuration
- Wavelength ranges available from 200 nm to 6300 nm (UV/VIS/NIR/MIR)
- Compact and robust design
- Free-space or fiber input
- Easy to use - plug & play via USB connection; Software included

waveScan Specifications

waveScan	UV	Blue	VIS + IR	Extended IR	MIR
Wavelength range	200 nm ... 1100 nm	220 nm ... 540 nm	500 nm ... 1600 nm	800 nm ... 2600 nm	1500 nm ... 6300 nm
Resolution (FWHM)	0.2 nm	0.05 nm	0.2 nm	0.5 nm	3 nm
Dynamic range	3300			850	350
Scan rate	~5 Hz				
Laser repetition rate	>4 MHz - real time measurements >100 kHz - accumulation mode >100 Hz - triggered mode				
Input polarization	Optimized for horizontal polarization (also any other polarization possible)				
Beam input	Free-space per default Fiber coupling (FC/PC, SMA or FC/APC) optional				
Trigger input	100 Hz ... 100 kHz, BNC connection: 0.2 V to 5 V TTL signal, or photodiode signal (25 ns rise time)				
Connectivity	USB, TCP/IP (SCPI command set)				
Remote control	Programmable via API				

Appendix Technical Drawings

All dimensions in mm

waveScan

- High resolution spectrometer

