

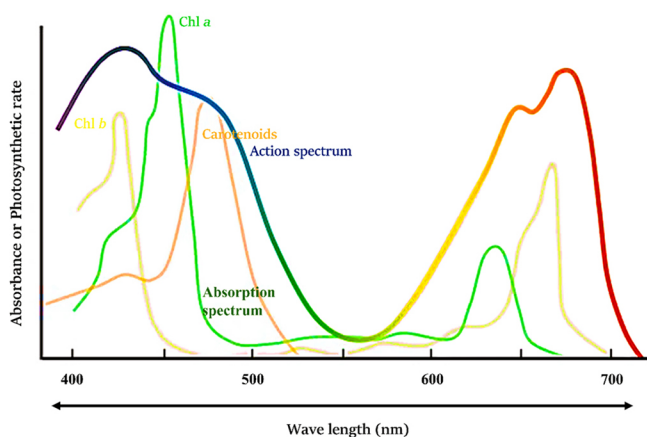
Wavelenx (UV-VIS-NIR Cooled Spectrometer)

- Wavelenx is made from high-quality aluminum that can withstand harsh conditions and heavy use. Whether you need it for outdoor or indoor purposes, it is durable, lightweight and easy to maintain. You can trust wavelenx to deliver excellent performance and reliability.
- Wavelenx UV-VIS-NIR is a great choice for anyone who needs a clear and sharp Spectrum. It is made of high quality optical elements that ensure high resolution and SNR. Whether you are using it for different applications, you will be impressed by the performance and durability of this product.
- If you are looking for a professional spectrometer software that can handle a variety of lab or online tasks and projects, Wavelenx software is the solution. Its a powerful and versatile software that can help you create, manage, and optimize your spectroscopy work. An easy to use, compatible with multiple platforms, and customizable to your needs.



Wavelenx applications:

- Measuring the absorbance and transmittance of various samples, such as liquids, solids, gases, and biological materials.
- Analyzing the chemical composition and concentration of substances, such as metals, organic compounds, pollutants, and biomolecules.
- Monitoring the quality and purity of products, such as pharmaceuticals, food, beverages, cosmetics, and textiles.
- Studying the optical properties and interactions of materials, such as Plasma, nanomaterials, semiconductors, polymers, and coatings.
- Detecting and identifying contaminants, pathogens, toxins, and explosives.
- Performing environmental and biomedical research, such as atmospheric studies, oceanography, spectroscopy, fluorescence, and photobiology.



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Features and Specifications

Engineering Specifications	Wavelenx OS1000 Series
PHYSICAL	
Dimensions: (L x W x H) mm	171x 135 x 65 mm
Weight: kg	0.75 kg
DETECTOR	
Type:	Toshiba
A/D Type	16bit
Cooling	Up to -5° C
Range:	190-1100 nm
SPECTROSCOPIC	
Wavelength range:	190-1100 nm
Integration time:	1 microsecond – 65 seconds to 60 Min
Dynamic range:	2.5 x 10 ⁸ (system); 1500:1 for a single acquisition
Signal-to-noise ratio:	1:300 up to 1:700
Dynamic Range	1300:1 for a single acquisition, 8.5 x 10 ⁷
Low Dark Level	Yes
Low Dark Noise	Yes
Grating:	300 Line per mm
Slit:	25µm wide slits
Optical resolution:	~1.2-1.8 nm (FWHM)
Stray light:	<0.04% at 532 nm; <0.11% at 452 nm
Buffering:	No
Fiber optic connector:	SMA 905 to single-strand optical fiber (0.22 NA)
ELECTRONICS	
Power consumption:	200 mA at +5 VDC
TRIG	No
Interfaces:	USB 2.0 USB 3.0
Temperature Storage	-33° to +75° C
Temperature Operation	-15° to +50° C
Humidity:	0% – 90% non-condensing