

UVS-2500

Miniature Spectrometer

- Emission, Absorbance, Transmittance and Reflectance Spectrometer
- UV-Vis-NIR Detection Wavelength Range from 850-190 nm
- From 1 ms to 4 seconds CCD Integration time
- UV-Enhanced Coated Detector
- Aberration- Corrected Concave Holographic Grating
- High speed USB2- interface
- Miniature size and Weight
- Ruggedized Aluminum Enclosure
- No Need to External Power Supply
- Detachable optics assembly suitable for portable process, and lab applications
- Fiber Optics cables with SMA 905 input fiber connectors for interfacing with other equipment such as light sources and sample holders.
- Simultaneous emission meter, Colorimeter and Spectrometer
- UVS2500- can be used as an emission meter for characterize all kinds of light, as a UV-Vis-NIR spectrometer to measure absorbance and a colorimeter to determine the CIE (L^* , a^* , b^*) parameters of visible light.
- It's a modular spectrometer that can acquire a full spectrum in less than 1 millisecond with 0.2 nm resolution.



Applications:

Material science

Life Science

Food Science

Earth Science

Painting

And more...

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UVS- 2500 Specifications

Wavelength range	190 - 850 nm
Spectral Range	660 nm
Wavelength accuracy	± 0.1 nm
Resolution	0.2 nm
Stray-light	%0.1-0.04 in Absorbance
Detector	CCD linear array, 3648 pixels
Signal/Noise	700:1
Integration time	1 ms -4s
Interface	USB 2.0 high-speed, 480 Mbps
Number of scan to Average	0-99 Scan
Data transfer speed	3.7 ms /scan (USB2)
Power supply	Default USB power, 350 mA
Dimensions	15x13x6 cm
Weight	700 g
Data Display and Saving	As printable graph, double column ASCII code, EXCEL

Accessories

For miniature spectrometer



Tungsten Halogen
Light Source



Deuterium light Source



UV-Vis Optical Fiber



Y-Type Optical Fiber



Reflectance Optical
Fiber probe



Transmittance Cuvette
holder



Photoluminescence
Cuvette holder



Thin Film Sample
Holder



White Reflectance
Standard

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Modular SpectroChemistry System

Fluorescence and Absorbance

Using -4 side photoluminescence cuvette holder you could measure absorbance straight through the sample and fluorescence at right angles to the excitation light.



Reflectance and Absorbance

Using reflectance Probe, you could measure normal reflectance and absorbance of the opaque samples.



Thin film transparent measurement

Using slit thin film sample holder, you could measure transmittance and absorbance of thin film supported on transparent substrates



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UVS-spec[®] software

- Free real-time operating software
- Compatible with Windows XP, 8, 7 or 10
- Dark-level correction
- Calculating ratio of two wavelengths intensities

Standard features:

- Thermal Smoothing
- Line thickness
- Grid lines
- Plot mode
- Zoom mode
- Overlay mode
- Cursor mode

Additional feature:

- Trigger mode

Standard Apps:

- Wavelength monitoring
- Peak finder
- UV monitoring
- CIE measurements
- Time variation
- Ratio

Color measurement

UVS-spec[®] software enables you to determine CIE parameters of light sources or transparent samples.

Time variation and Kinetics

With UVS-spec[®] software, you could save changes in spectra with time. The total time and time step of saving spectra is tunable.

UV monitoring

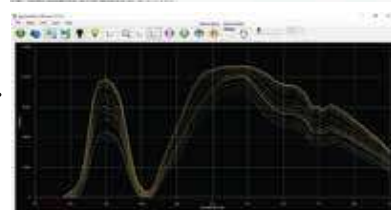
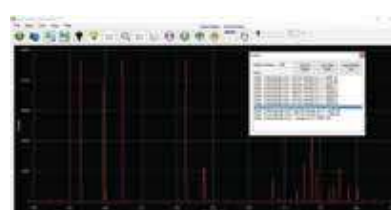
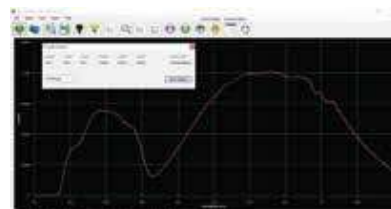
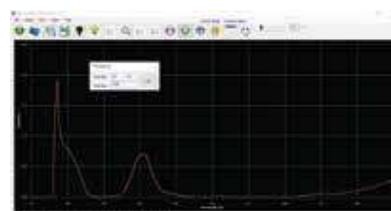
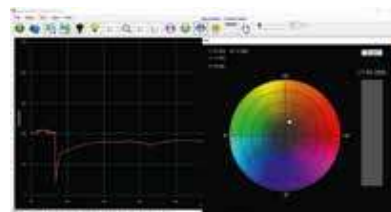
In UVS-spec[®] software UVa, UVb, UVc, their ratio and the total irradiance of UV light could be measured according to UV-USA UV-Europe or Solar standards.

Peak find

With UVS-spec[®] software you could find all peaks with a desired width.

Overlay

With UVS-spec[®] software you could monitor the real time changes of spectra.



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Portable Water Analyzer

Model: PWA-4000



The PWA-4000 is a portable water analyzer. It is mainly used for the spectroscopic analysis of cationic or anionic analytes. It has a PC software to connect to the computer with various functions, such as monitoring absorbance spectrum, plotting calibration curve and measuring concentration, suitable for most users' requirements. It is user-friendly, the test is fast and the result is accurate.

Features:

- Monitoring water, waste water and liquids
- Semi-permanent light source
- Absorbance, Transmission and Concentration measurement.
- Plotting calibration curve
- Excel data output

Applications:

- Drinking water
- Underground water supply
- Agricultural drainage water
- Waste water
- Power plant water
- Pools and aqua parks
- Medical, Chemical, Pharmaceutical, Petrochemical



3 Year guaranty and
10 year services

Specifications	
Operating Mode	Transmittance and Absorbance
Light source	Tungsten Halogen
Power supply	Rechargeable battery
Wavelength Range	350-700nm
Wavelength steps	0.25nm
Wavelength Reproducibility	± 0.1nm
Derector	CCD 3648 Pixels
Stray Light	<0.2%T
Photometric Measuring Range	0-3Abs
User Lntertace Language	English
Interface	USB2
Dimension(HxWxD)	285mm*265mm*200mm
Weight	2Kg



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Multipurpose Color Inspector

Model: PT-100



The PT-100 is a portable transmittance spectroscopy system. It is mainly used to control color quality management. It has a PC software to connect to the computer most users' requirements. It is user-friendly, the test is fast and the result is accurate

Features:

- Reflectance measurement in range from 350 to 750 nm
- Calculation of color coordinates in various Color spaces such as CIELAB, CIEXYZ, CIELUV, CIELAB and...
- Calculation of different color indices such as Yellow index and white index based on ASTM standards
- Computation of color coordinates under different light sources such as D65, A, C, D50 and...
- Color matching computation in order to achieve the color of the target sample with accuracy of 1 unit of CIELAB color difference

Applications:

- Oil industry
- Paint industry
- Textile industry
- Glass industry
- Food and beverage



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