



3 Year guaranty and
10 year services

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...

Contact us:

Pouyesh Tadbir Karaneh Co. (PHYSTEC)

#013, Rouyesh Bld., Niroo Research Institute, Dadman Blv.,

Tehran, 14686-13112, Iran

<http://www.phystec.ir>

Telfax: +98 21 88364614

info@phystec.ir

UVS- 2500 Specifications

Wavelength range	190 - 850 nm
Spectral Range	660 nm
Wavelength accuracy	± 0.1 nm
Resolution	0.7 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

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.



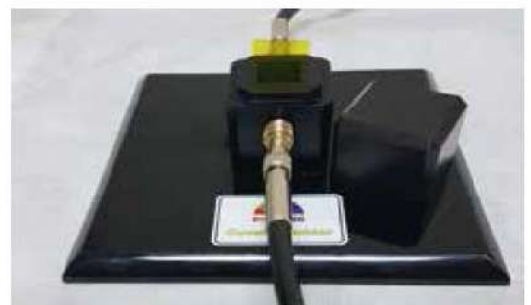
Reflectance and Absorbance

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

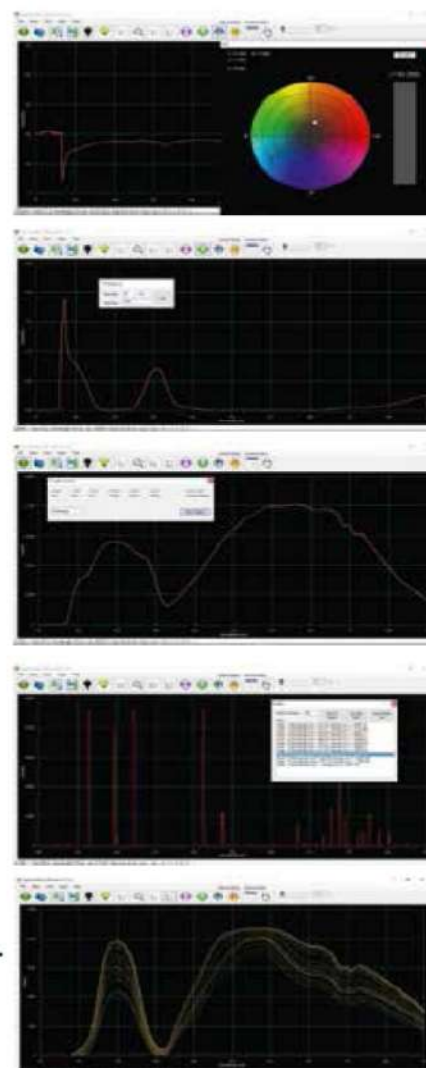
In UVS-spec[®] software UVa, UVb, UVc, their ratio and the total irradiance of UV light could be measured according to UV-USA, UV-Europe or Solar standards.

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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Accessories

For miniature spectrometer



Tungsten Halogen
Light Source



Deuterium light Source



UV-Vis Optical Fiber



Y-Type Optical Fiber



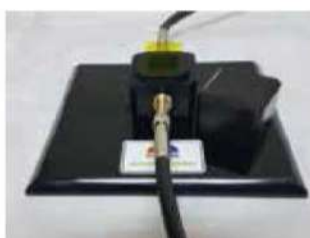
Reflectance Optical
Fiber probe



Transmittance Cuvette
holder



Photoluminescence
Cuvette holder



Thin Film Sample
Holder



White Reflectance
Standard

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