Fiber Optics UV-vis-NIR Spectrophotometer for Reflection measurements

Model: UVS-R

UVS-R system include:

Item	Description	Number
1	UV-vis-NIR spectrometer (190-1100 nm)	1
2	Halogen-Tungsten Light Source (300-2500 nm)	1
3	Deuterium Light source (190-400 nm)	1
4	Reflectance Probe for UV & Visible; 7 400µm around 1 600µm	1
5	Armored Y cable, 600um core, 1 SMA to 2 SMA, SR+NIR (Optional)	1
6	White Reflectance Standard (Optional)	1
7	SMA to SMA connector (Optional)	1

Features:

- Absorbance and Reflectance Spectrometer
- UV-Vis-NIR Detection Wavelength Range from 190-1100 nm (Custom design with 660 nm spectral range)
- Detachable optics assembly suitable for portable process, and lab applications
- From 1 µs to 4 seconds CCD Integration time
- UV-Enhanced Coated Detector
- Aberration- Corrected Concave Holographic Grating

- High speed USB-2 interface
- Ruggedized Aluminum Enclosure
- Fiber Optics cables with SMA 905 input fiber connectors for interfacing with other equipment such as light sources and sample holders.

Simultaneous Spectrophotometer and Colorimeter

UVS-R can be used as a UV-Vis-NIR spectrophotometer to measure Reflectance and absorbance at 0-degree geometry of opaque materials. In addition, **UVS-R** can be used as a colorimeter to determine the CIE (L*, a*, b*) and XYZ parameters of colors in the visible range.

It's a modular spectrometer that can acquire a full spectrum in less than 1 millisecond with 0.25 nm step.

Applications:

- **Material science**
- **Life Science**
- **Food Science**
- **Earth Science**
- **Painting**
  and more…

UVS-spec® software

- Free real-time operating software
- Compatible with Windows 10
- Dark-level correction
- Thermal Smoothing
- Finding Peaks
- UV monitoring
- CIE measurements
- Real-time variation measurements

- Calculating ratio of two wavelengths intensities

Specifications	
Operating Mode	**Reflection and Absorbance**
Wavelength Range	**190-1100 nm custom products (spectral range: 660nm)**
Wavelength steps	**0.25 nm**
Resolution	**0.7 nm**
Wavelength Reproducibility	**± 0.1 nm**
Detector	**UV-enhanced CCD 3648 Pixels**
Light Source	**Halogen-Tungsten and deuterium**
Stray Light	**< 0.2 %T**
Photometric Measuring Range	**0-3 Abs**
User Interface Language	**English**
Interface	**USB2**
Power	**220 V AC**
Dimensions (H x W x D)	**155mm×140mm×65mm**
Weight	**< 2 kg**
Data saving	**EXCEL, PTS**

Contact us:

No.002, Rouyesh Bld., Niroo Research Institute, At The End of Shahid Dadman Blvd., Shahrak Ghods, TEHRAN, IRAN

www.phystec.ir

Telefax: +98-2188364614

info@phystec.ir