



## Fiber Optics UV-vis-NIR Spectrophotometer for Reflection measurements

## Model: UVS-R



#### UVS-R system include:

ltem	Description	Number	Price (Rial)
1	UV-vis-NIR spectrometer (190-1100 nm)	1	337,500,000
2	Halogen-Tungsten Light Source (300-2500 nm)	1	23,000,000
3	Deuterium Light source (190-400 nm)	1	300,000,000
4	Reflectance Probe for UV & Visible; 7 400µm around 1 600µm	1	125,000,000
5	Armored Y cable, 600um core, 1 SMA to 2 SMA, SR+NIR (Optional)	1	109,370,000
6	White Reflectance Standard (Optional)	1	50,530,000
7	SMA to SMA connector (Optional)	1	13,700,000

#### 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<sup>®</sup> 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