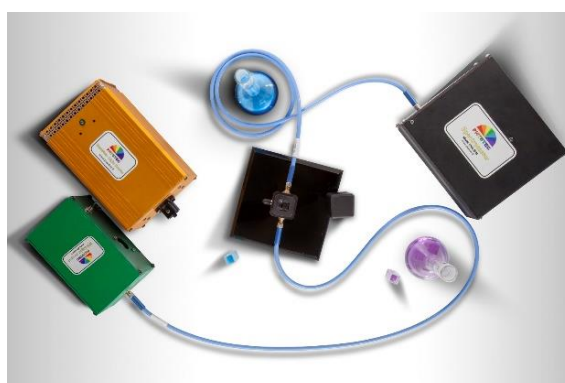




## Fiber Optics UV-vis-NIR Spectrophotometer for Transmission and Reflection

Model: UVS-TR



UVS-TR system include:

Item	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	2-side Cuvette Holder with quartz lenses	1	19,670,000
5	Armored, 600um core, Solarization Resistant fiber optic cable	1	50,000,000
6	Armored Y cable, 600um core, 1 SMA to 2 SMA, SR+NIR	1	109,370,000
7	Reflectance Probe for UV & Visible; 7 400µm around 1 600µm	1	125,000,000
8	White Reflectance Standard	1	50,530,000
9	SMA to SMA connector	1	13,700,000

## Features:

- Absorbance, Transmittance 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  $\mu$ s 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-TR** can be used as a UV-Vis-NIR spectrophotometer to measure transmission and absorbance of liquids and transparent materials as well as a UV-Vis-NIR spectrophotometer to measure reflectance at 0-degree geometry of opaque materials. In addition, **UVS-TR** 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 0.2 nm resolution.

## 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

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

**Contact us:**

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