



Fiber Optics vis-NIR Spectrophotometer for Reflection measurements

Model: VS-R



VS-R system include:

Item	Description	Number
1	vis-NIR spectrometer (300-1100 nm)	1
2	Halogen-Tungsten Light Source (300-2500 nm)	1
3	Reflectance Probe for UV & Visible; 7 400µm around 1 600µm	1
4	White Reflectance Standard (Optional)	1

Features:

- Absorbance and Reflectance Spectrometer
- Vis-NIR Detection Wavelength Range from 300-1100 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
- 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

VS-R can be used as a Vis-NIR spectrophotometer to measure Reflectance and absorbance at 0-degree geometry of opaque materials. In addition, **VS-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
- CIE measurements
- Real-time variation measurements
- Calculating ratio of two wavelengths intensities

Specifications	
Operating Mode	Reflection and Absorbance
Wavelength Range	300-1100 nm custom products (spectral range: 660nm)
Wavelength steps	0.25 nm
Resolution	0.7 nm
Wavelength Reproducibility	± 0.1 nm
Detector	CCD 3648 Pixels
Light Source	Halogen-Tungsten
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

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