**Fiber Optics UV-vis-NIR Spectrophotometer for Transmission measurements**

**Model: UVS-T**

**UVS-T 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 | 2-side Cuvette Holder with quartz lenses | 1 |
| 5 | Armored, 600um core, Solarization Resistant fiber optic cable | 2 |
| 6 | Armored Y cable, 600um core, 1 SMA to 2 SMA, SR+NIR (Optional) | 1 |

**Features:**

- Transmittance and Absorbance 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-T** can be used as a UV-Vis-NIR spectrophotometer to measure transmission and absorbance of liquids and transparent materials as well 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** | **Transmittance, 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** |

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