

UV-VIS-NIR Spectrometer

Description

It's mobile UV-Vis-NIR spectrometer is your ideal choice for real-time monitoring, on-site analysis, and rapid measurement. No samples preparation or any glass thickness limitations, it allows for direct on-site testing, saving you time and effort. Featuring advanced technology and WIFI connectivity, it delivers accurate results quickly, suitable for a variety of applications, including glass coating, materials research, agricultural analysis (such as liquor and milk testing), universities, and research institutes. Environmentally friendly, efficient, and portable, it's your powerful assistant for fast and accurate analysis and evaluation.

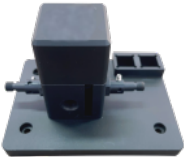


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Key Features

- **Spectral Range:**
UV (200–400 nm)
Visible (400–700 nm)
Near-Infrared (700–2500 nm)
- **Spectral Resolution:**
UV-VIS ≤ 1 nm
NIR ≤ 3 nm
- **Accuracy:**
UV-VIS ± 0.5 nm
NIR ± 1 nm
- **Power Supply:**
Mobile Battery bank
AC adapter
- **Data Transmission:** WiFi for real-time data transfer

- **Sample Preparation:** No sample preparation for field measure
- **Software Compatibility**
- **Rich Accessories:**
 - **Liquid** sample cell
 - **Gas** chamber
 - Integrating spheres for **diffuse reflectance** analysis (32mm, 50mm, 100mm)

	Reflectance white boards for calibration		Integrating spheres 32mm
	Liquid sampling cell		Integrating spheres 50mm
	Diffuse reflectance		Integrating spheres 100mm

Applications

- Glass Coating
- Materials Research
- Agricultural Analysis of liquor and milk testing
- Automotive glass analysis
- Optical coating analysis
- Gas analysis
- Polymeric Coating Materials

Technical Specifications

Parameter	Specification
Wavelength Range	300~2800 nm
Detector origin in Japan	UV-VIS: 190 nm - 1100 nm
	IR: 900 nm - 2660 nm
Spectral Wavelength	UV: 175 nm - 1000 nm
	Si: 780 nm - 2200 nm
	IR: 2000 nm - 3600 nm
Wavelength Accuracy	±0.3 nm (Auto-calibration at startup)
Wavelength Repeatability	≤0.2 nm
Stray Light	< 0.01% (220 nm, NaI; 340 nm, NaNO ₂)
Photometric Accuracy	±0.002 A (0 - 0.5 A)
	±0.004 A (0.5 - 1 A)
	±0.3% T (0 - 100% T)
Photometric Repeatability	0.001 A (0 - 0.5 A)
	0.002 A (0.5 - 1 A)
Baseline Drift	0.0004 A/h (500 nm, 0 A, after warm-up)
Noise	±0.0004 A
Dimensions	400 mm × 270 mm × 195 mm
Weight	8kg