OPTOSKY Spectroscopy Solutions

Datasheet

UV-Visible-NIR Spectrophotometer UV3610

Features

Measurement Range: 185-3300 nm;
Low Stray Light Optical Design;
Three Detectors;
Automatic Six-Cell System;
Light Source: 50W halogen lamp and deuterium lamp (socket type)
User Interface: Simple and intuitive operation page;
High-Speed Data Acquisition;
USB Data Output Interface;
Three-Color Indicator Lights;
Superior Optical System;

Application

Research in Scientific Institutes
Biological Sciences
Medical Analysis
Agriculture and Food Testing
Environmental Science
Water Quality Analysis
Textile Industry

Description

The Optosky UV3610 is a UV-Visible-NIR Spectrophotometer that acquires spectral signals from 185-3300 nm. It features high-sensitivity detectors: PMT, InGaAs, and PbS, covering 185-900 nm, 900-1700 nm, and 1700-3300 nm respectively, achieving optimal sensitivity and signal-to-noise ratio.

The UV3610 provides precise transmission and reflectance measurements across the UV to near-infrared regions, significantly enhancing sensitivity.

The instrument uses a high-power 50W halogen lamp and a socket-type deuterium lamp, ensuring excellent measurement results and easy replacement. The UV3610's unique wavelength control system enhances accuracy with various bandwidth options, ensuring low noise and a wide wavelength range. The high-performance light source ensures stable light intensity.

The UV-Vis-NIR spectrophotometer's software is fully designed in English, offering a clean, user-friendly interface with functions for spectral scanning, photometric measurements, time scanning, kinetics measurements, data transmission, storage, and printing.

The UV3610 is versatile for environmental analysis, pharmaceutical analysis, chemical analysis, food quality testing, and water quality testing.

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1. Selection Guide

Table 1: UV3610 Product Selection Guide

Model	Touchscreen Availability
UV3610	No
UV3610-TP	Yes, equipped with a 10.1-inch touchscreen, integrated operating system, and 32GB internal storage capacity

Note:
*1: Wavelength range is customizable
*2: Optimal resolution is related to the spectrometer's slit width; further narrowing of the slit width can enhance resolution
*3: The parameters listed refer to standard company products; Optosky instruments are developed and produced in-house, and corresponding parameters can be customized

Ordering Guide:

- **UV3610:** USB interface for online operation, UV cooled detector, equipped with indicator lights
- **UV3610-TP:** Includes Android system touchscreen (10.1 inches) and 32GB storage for easier operation
- **UV3610-17:** Wavelength range extends to 1700 nm
- **UV3610-25:** Wavelength range extends to 2500 nm
- **UV3610-33:** Wavelength range extends to 3300 nm

2. Parameter

Model	UV3610	UV3610-TP
Wavelength Range	185~3300 nm	
Optical System	Dual Beam	
Sample Cell Channels	6 channels, auto-switching	
Spectral Bandwidth	UV/Vis: 0.1, 0.2, 0.5, 1, 2, 3, 5, 8 nm (8 steps) NIR: 0.2, 0.5, 1, 2, 3, 5, 8, 12, 20, 32 nm (10 steps)	
Wavelength Accuracy	UV/Visible: ±0.2 nm NIR: ±0.8 nm	
Wavelength Repeatability	UV/Visible: ±0.08 nm NIR: ±0.35 nm	
Photometric Accuracy	±0.003 Abs (1 Abs) ±0.002 Abs (0.5 Abs) ±0.3%T	

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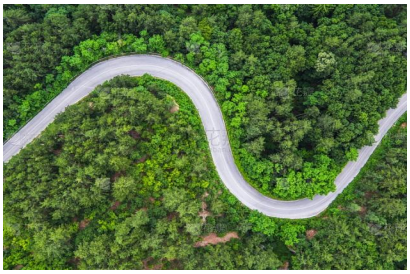
Photometric Repeatability	±0.0016 Abs (0.5-1.0 Abs) ±0.0008 Abs (0-0.5 Abs) ±0.15%T	
Drift	<0.0002 Abs/h (2 hours after power-on at 500 nm, 1-second integration)	
Stray Light	<0.005% T	
Noise	<0.00005 Abs RMS (500 nm) <0.00008 Abs (900 nm) <0.00003 Abs(1500nm)	
Photometric Modes	Absorbance (Abs), Transmittance (%), Reflectance, Energy (E)	
Resolution	1 nm	
Wavelength Adjustment	Automatic scanning	
Baseline Flatness	±0.004 Abs (185-200 nm) ±0.001 Abs (200-3000 nm) ±0.005Abs（3000-3300nm）	
Photometric Range	-6 to 6 Abs	
Baseline Correction	Computer automatic correction (baseline stored at power-on, can be recalibrated)	
Detectors	PMT, InGaAs, PbS	
Light Source	50W halogen lamp and deuterium lamp (socket type)	
Display	None	10.1-inch capacitive touchscreen
Internal Storage	None	32GB storage, can store 1 million spectra
External Interface	USB 2.0	USB 2.0, LAN, WIFI

3. Application



Environmental Science

Scientific Research

Life Science

Agriculture & Forest

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Animal Husbandry& Fishery

Metrology Calibration

Manufacturing

Administrative Agencies

Water Conservancy

Petrochemical

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