OPTOSKY Spectroscopy Solutions

Datasheet

Dual Beam Visible Spectrophotometer UV3000

Features

- Super Stability: During data acquisition, the ratio monitors the dual-beam optical system to ensure high precision and long-term stability of the instrument
- Automatic six-cell pool: 6 samples can be placed at a time, which greatly improves the speed of sample analysis.
- Ultra-low stray light: to ensure the accuracy of detection
- The light source uses a long-life xenon lamp: reduces maintenance costs
- High-speed data acquisition: the scanning speed is as high as 100000 points/s, and the entire wavelength range (180-1100nm) can be scanned within 5s
- Equipped with three-color breathing lights to visually display the status of the instrument

Application

- Research institutes
- Biology
- Redical analysis
- Agriculture and Food Inspection
- Environmental science
- Water Quality Analysis
- Metallurgical industry

Description

UV3000 is a brand-new product carefully crafted by Optosky. It adopts UV enhanced detector and superior optical path design to ensure the accuracy of detection results. Simultaneous proportional detection dual-beam system can enable the instrument to obtain high precision and high reliability at the same time.

UV3000 is equipped with a USB data output interface, which can be connected to a computer, which is more convenient for data processing. Not only that, UV3000TP is equipped with a 10-inch high-definition large screen, which can display data and graphics without being online, so that users can view test results more quickly.

Aiming at the problem that the performance of the light source of the instrument decreases with the increase of the service life, the flashing pulse xenon lamp adopted by the UV3000 not only does not need to be warmed up, which saves a lot of time, but also has excellent performance and can be used for a long time without changing the light source, which reduces the consumption of later maintenance. The assembled xenon lamp flashes x times per second and can scan the full wavelength range in x seconds.

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1. Performance

Model	UV3000	UV3000TP
Wavelength range	180~1100nm	
Optical system	Double beam	
Number of channels in the sample cell	6 channels, automatic switching	
Spectral bandwidth	Configuration 1: 0.5nm, 1.0nm, 2.0nm, 4.0nm, software can be set Configuration 2: 0.1nm-4.0nm continuously adjustable	
Wavelength Accuracy	±0.3nm	
Wavelength repeatability	<0.1nm	
Transmittance Accuracy	l±0.3% (0-100%) l±0.002% (0~0.5A) l±0.003% (0.5A~1A)	
Transmittance repeatability	l±0.15% (0-100%) l±0.001% (0~0.5A) l±0.0015% (0.5A~1A)	
Stray light	≤0.03% (220nm NaCl, 340nm NaNO3)	
Stability	0.0005A/h (after preheating, 500nm)	
Metering method	Transmittance, absorbance, concentration, energy	
Wavelength adjustment	auto scan	
Photometric range	-4~4A	
Detector	Imported low noise UV enhanced silicon photodiode	
light source	Imported pulse xenon lamp	
Monitor	none	10.1 inch capacitive touch screen
Built-in storage	none	32GB storage, can store 1 million spectra
External Interface	USB2.0	USB2.0, LAN, WIFI
Power supply and power consumption	AC110~240V, 100W	
Volume	45.5x 28.6x22.5	
Weight	22 kg	22.5Kg

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2. Purchase Guide

Model	Does it have a touch screen?
UV3000	no
UV3000TP	yes, with10.1inch touch screen, built-in operating system, large capacity32Gstorage

Note:

*1: The wavelength range can be customized

*2: The optimal resolution is related to the slit width of the spectrometer; if the slit width is further reduced, the resolution can be further improved;

*3: In the table parameters, only the parameters of the company's standard products are indicated; Optosky instruments are all self-developed and produced products, and the corresponding parameters can be customized;

Order Guide:

Naming example:

UV3000: USB interface can be operated online, UV cooling detector, equipped with breathing light

UV3000TP: Add Android system touch screen (10.1 inches) and 32G storage space, more convenient for customers to operate

3. Appearance

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4. Some Application Cases

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