MICRO SPECTROPHOTOMETER

Micro Spectrophotometer I Product Introduction

Nano-D600 micro spectrophotometer is a highly reproducible full-wavelength spectrophotometer that adopts a dual detection mode on the base and cuvette for a wider concentration range of sample testing. It is easy to operate and can be used not only for measuring DNA and RNA purity and concentration, protein concentration, but also for absorbance detection in general substance analysis.

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Product Features

- Intelligent Android operating system, 7-inch capacitive touch screen, multi-touch, dedicated APP software, more intuitive interface, user-friendly design.
- Cuvette slot for easy detection of bacterial/microbial culture concentration.
- Only 0.5-2 µl sample is required for each test. After the measurement is completed, the sample can be recovered for safe research of precious samples.
- The sample is directly added to the detection platform without dilution. The test can be completed in 6 seconds and the result is directly output as the sample concentration.
- Xenon flash lamp with a lifespan of 10^9 times (up to 10 years). No preheating is required when starting up, and it can be detected at any time.
- The sample is directly spotted on the loading platform without dilution. The detectable sample concentration is 50 times higher than that of a conventional UV-visible spectrophotometer, and the result is directly output as the sample concentration without additional calculation.
- Stable and fast USB data output, convenient for exporting data for analysis.
- The instrument does not need to be connected to a computer, and the sample detection and data storage can be completed by the instrument alone.
- Image and table storage formats, table compatible with Excel, convenient for subsequent data processing, supports JPG image export.

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Technical Parameters

Model	Nano-D600
Wavelength Range	200-800nm; Cuvette mode (OD600 measurement): 600±8nm
Sample Volume Requirement (Loading Amount)	0.5-2.0ul
Optical Path Length	0.2mm (High Concentration Measurement); 1.0mm (Normal Concentration Measurement)
Light Source	Xenon Flash Lamp
Detector	2048-pixel Linear CCD Array
Wavelength Accuracy	1nm
Wavelength Resolution	⩽3nm (FWHM at Hg 546nm)
Absorbance Precision	0.003 Abs
Absorbance Accuracy	1% (7.332 Abs at 260nm)

Technical Parameters

Absorbance Range (Equivalent to 10mm)	0.02-100A; Cuvette mode (OD600 measurement): 0-4A
Test Time	<6S
Nucleic acid detection range	2~5000ng/μl (dsDNA)
OD600 Accuracy	[0,3) ⩽ 0.005A+1%; [3,4) ⩽ 2%
Data output	USB
Sample pedestal material	Quartz fiber and high-hardness aluminum
Print	Optional thermal printer
Power adapter	12V 4A
Power consumption	48W
Software operating platform	Android system (Chinese/English)
Weight	3.5kg
Dimensions	270*210*196 (WxDxH) mm