



Nano Spectrophotometer | Product Introduction

Nano-800 Nano Spectrophotometer is a high-reproducibility full-wavelength spectrophotometer that uses a dual-detection mode on both the pedestal and cuvette for a wider concentration range of sample detection. It is easy to operate and can be used not only to measure the purity and concentration of DNA, RNA, and protein, but also for absorbance detection in general substance analysis.





Product Features

- Uses independently developed light source control algorithm and data acquisition correction algorithm to make data more accurate and stable.
- Unique motor control technology, using "4" optical path detection mode, with better stability, repeatability, linearity, and larger measurement range.
- Samples do not need to be diluted, and the concentration range of samples that can be measured is more than 150 times that of conventional UV-visible spectrophotometers.
- Strong repeatability and high linearity.
- Equipped with an OD600 optical path detection system, which is more convenient for detecting the concentration of bacteria, microorganisms, and other culture media than the cuvette mode.
- Independently developed Android operating system, 7-inch capacitive touch screen, no need to connect to a computer, can be operated as a standalone device.
- Easy-to-use data-to-printer options, you can directly print reports through the built-in printer.
- With fluorescent quantification reagents, it can detect pg-level concentration of dsDNA {Nano-800 exclusive}.



Technical Parameters

Nano-800
190nm-900nm
0.5-2µl
Xenon lamp
HAMAMATSU UV-enhanced CMOS linear array sensor
0.002Abs
±1% (7.332Abs at 260nm)
0.02 - 300A (equivalent to 10mm)
<0.2nm
2.0 - 27,500 ng/μL dsDNA and 0.06 - 820 mg/mL BSA
<5S

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Technical Parameters

Fluorescence Sensitivity	DsDNA: 0.5pg/ul
Fluorescence Linearity	≤1.5%
Optical Density Reproducibility	[0,3)≤0.5%,[3,4)≤0.2%
Optical Density Accuracy	[0,2) <0.005%, [2,3) <1%, [3,4) <2%
Wavelength Accuracy	<1nm
Data Output	USB
Photometric Accuracy	<0.005A or <1%
4-Path Length	0.02mm, 0.05mm {for high concentration measurement},
	0.2mm, 1.0mm {for normal concentration measurement}
Sample Volume Requirement	0.2mm, 1.0mm {for normal concentration measurement} 0.5~2ul
Sample Volume Requirement Sample Pedestal Material	0.2mm, 1.0mm {for normal concentration measurement} 0.5~2ul Quartz Fiber and High Hardness Aluminum
Sample Volume Requirement Sample Pedestal Material Print	0.2mm, 1.0mm {for normal concentration measurement} 0.5~2ul Quartz Fiber and High Hardness Aluminum Built-in Thermal Printer
Sample Volume Requirement Sample Pedestal Material Print Power Adapter	0.2mm, 1.0mm {for normal concentration measurement} 0.5~2ul Quartz Fiber and High Hardness Aluminum Built-in Thermal Printer 24V DC
Sample Volume Requirement Sample Pedestal Material Print Power Adapter Power Consumption	0.2mm, 1.0mm {for normal concentration measurement} 0.5~2ul Quartz Fiber and High Hardness Aluminum Built-in Thermal Printer 24V DC 25W
Sample Volume Requirement Sample Pedestal Material Print Power Adapter Power Consumption Weight	0.2mm, 1.0mm {for normal concentration measurement} 0.5~2ul Quartz Fiber and High Hardness Aluminum Built-in Thermal Printer 24V DC 25W