

Nano-1000 Micro-spectrophotometer



The Nano-1000 micro-spectrophotometer is a full-wavelength micro-spectrophotometer that can provide ultraviolet/visible light absorption detection. It is suitable for enterprises and research institutions that need to measure a large number of nucleic acid or protein samples. The Nano-1000 inherits the design concept of the company's Nano series products and also has OD600 and single-tube fluorescence detection functions.

The instrument is equipped with a 10-inch high-resolution touch screen as standard. It can complete the detection of a single sample in about 8 seconds. The test results can be quickly viewed without connecting to a computer. It can also be optionally equipped with software that complies with the US FDA 21 CFR to achieve audit traceability of data results.

Product Features

01 Convenient Operation

10-inch touch screen, Android system, no need to connect to an additional computer.

02 Fast Detection

Results can be obtained within 8 seconds.

03 Performance Improvement

It can detect wavelengths in the range of 190-1100 nm, and the maximum detection concentration can reach 27500 ng/ μ L (DNA).

04 Free Sample Loading

Samples can be loaded for detection with either hand.

05 Sample Monitoring

Built-in camera for quickly judging the formation of the liquid column.

06 Human-Computer Interaction

Log in to the instrument software through the face recognition function.



Specification

DNA Micro Detection	Sample Volume	0.5 μ L~2 μ L, suggest 2 μ L
	Optical Path	0.02 mm, 0.03 mm, 0.05 mm, 0.1 mm, 0.2 mm, 1 mm
	Light Source / Lifespan	Xenon flash lamp / Xenon flash lamp>10 ⁹
	Detector	2048-element linear CMOS array
	Wavelength Range	190~1100 nm
	Wavelength Accuracy	± 1 nm
	Wavelength Resolution	≤ 1.6 nm (FWHM@Hg 253.652 nm)
	Absorbance Repeatability	0.002Abs
	Absorbance Accuracy	$\pm 1\%$ (7.332 Abs @260 nm)
	Absorbance Range	0.04~550 (@260nm, equivalent to a 10mm optical path)
	Nucleic Acid Detection Range	2 ng/ μ L dsDNA~27500 ng/ μ L dsDNA
	Test Time	<8 s
PVF-1 Detection	Absorbance Repeatability	Typical values: 0.01A (1mm optical path) or 1% CV, taking the larger one (10 separate measurements of SD)
	Absorbance Accuracy	3% (0.97A@302 nm, 25 $^{\circ}$ C)
OD600 Detection	Absorbance Range	0~4.000 Abs
	Absorbance Stability	[0,3] $\leq 0.5\%$, [3,4] $\leq 2\%$
	Absorbance Repeatability	[0,3] $\leq 0.5\%$, [3,4] $\leq 2\%$
	Absorbance Accuracy	[0,2] $\leq 0.005A$, [2,3] $\leq 1\%$, [3,4] $\leq 2\%$
Fluorescence Detection	Fluorescence Light	Blue, red (optional, default is blue)
	Linearity	$R^2 > 0.995$
	Linear Range	<1.5%
	Sensitivity (Limit of Detection)	<1.5%
Others	Dimension (W×D×H)	260×333×346 mm
	Input Voltage	DC24 V 2 A
	Power	25 W
	Weight	5.7 kg
	Data Export	USB, Label Printer, Networks
	Networking	Wi-Fi and Ethernet

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