

Nano-8000

Micro-Spectrophotometer



Nano-8000 is a high-throughput full wavelength micro-spectrophotometer that can provide UV/Vis absorbance detection for up to 8 samples in one run. It is suitable for enterprises and research institutions that need to measure a large number of nucleic acid or protein samples. Nano-8000 follows the design concept of Allsheng Nano series products, and also has OD600 and single-tube fluorescence detection functions.

The instrument is standard equipped with a 10-inch high-resolution touch screen, which can detect 8 samples simultaneously in about 20 s without the need to connect a computer, allowing for quick viewing of test results. It also can be optional

to comply with US FDA 21 CFR software to achieve audit traceability of data results.

Nano-8000 can quickly quantify DNA, RNA and protein with only 1-2 μL of sample and automatically provide ratio determination and contaminant indication. It is equipped with a cuvette mode for detecting microbial concentration. In addition, the instrument has a built-in fluorescence detection mode, paired with fluorescence quantitative cartridges, which can accurately quantify the concentration of DNA, RNA and protein through the specific binding of fluorescent dyes to the target substances, with a minimum limit of 0.1 $\text{pg}/\mu\text{L}$ (dsDNA).

■ Features

01 Easy to Operate

10-inch screen, Android system, no need to connect a computer.

02 Fast Detection

Detect 8 samples in one run and obtain results in 20 s.

03 Improved Performance

Realize wavelength detection at 190-1100 nm, with a maximum detection concentration of 10000 $\text{ng}/\mu\text{L}$ (DNA).

04 Free Sample Loading

Samples can be tested on both hands.

05 Sample Monitoring

Built-in camera for quick determination of liquid column formation.

06 Human-Machine Interaction

Log in to the instrument software through facial recognition function.



■ Specification

Micro Detection	Sample size	1-2 μ L
	Light source	Xenon flash lamp
	Path length	0.075 mm, 0.2 mm, 1 mm
	Detector type	2048-linear CMOS array
	Wavelength range	190-1100 nm
	Wavelength accuracy	± 1 nm
	Wavelength resolution	≤ 1.5 nm (FWHM @Hg253.652 nm)
	Absorbance repeatability	0.002A (1 mm path length, SD)
	Absorbance accuracy	3 % (0.97 A, 302 nm, 23 \pm 2 $^{\circ}$ C)
	Absorbance range	0.04-200 A
	Nucleic acid detection range	2-10000 ng/ μ L (dsDNA)
	Measurement time	About 20 s / 8 samples
OD600 Detection	Absorbance range	0 to 4.000 Abs
	Absorbance stability	[0,3) ≤ 0.5 %; [3,4) ≤ 2 %
	Absorbance repeatability	[0,3) ≤ 0.5 %; [3,4) ≤ 2 %
	Absorbance accuracy	[0,2) ≤ 0.005 A; [2,3) ≤ 1 %; [3,4) ≤ 2 %
Fluorescence Detection	Linear	$R^2 > 0.995$
	Linear range	5 orders of magnitude
	Sensitivity (detection limit)	< 0.1 pg/ μ L (dsDNA HS)
Others	Dimension	262 \times 367 \times 340 mm
	Weight	6.6 kg

■ Ordering Information

Code	Product name
AS-11090-00	Nano-8000 micro-spectrophotometer
AS-11091-01	PVF-1 calibration reagent (0.5 mL)

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