

Nano-1000 Micro-spectrophotometer



The Nano-1000 micro-spectrophotometer is a full-wave-length 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 - 1100nm, and the maximum detection concentration can reach 15000ng/μL (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

| | | |
|------------------------|----------------------------------|---|
| Micro Detection | Sample Volume | 0.5-2 μ L |
| | Light Source | Xenon flash lamp |
| | Optical Path | 0.075mm、0.2mm、1mm |
| | Detector | 2048-element linear CMOS array |
| | Wavelength Range | 190-1100nm |
| | Wavelength Accuracy | ± 1 nm |
| | Wavelength Resolution | ≤ 1.5 nm (FWHM@Hg253.652nm) |
| | Absorbance Repeatability | 0.002A (1mm optical path, SD) |
| | Absorbance Accuracy | 3% (0.97 A, 302 nm, 23 ± 2 °C) |
| | Absorbance Range | 0.04-300A |
| | Nucleic Acid Detection Range | 2-15000ng/ μ L (dsDNA) |
| | Test Time | About 8s/sample |
| OD600 Detection | Absorbance Range | 0 to 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 | Linearity | $R^2 > 0.995$ |
| | Linear Range | 5 orders of magnitude |
| | Sensitivity (Limit of Detection) | < 0.1 pg/ μ L (dsDNA HS) |
| Others | Dimensions | 262 \times 367 \times 340 mm |
| | Weight | 6.6kg |


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