



MICRO NUCLEIC ACID ANALYZER

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Darsun Scientific MICRO NUCLEIC ACID ANALYZER DS Nano-700



Product Overview

It delivers fast and accurate detection of nucleic acids and cell solutions. Equipped with cuvette mode, it supports concentration testing of bacterial culture medium and fluorescence analysis. When matched with fluorescent quantitative kits, specific binding between fluorescent dyes and targets enables precise quantification of DNA, RNA and protein.

2026 New Upgraded Version

Standard built-in fluorescence detection function

Optimized pollutant detection performance

Upgraded software algorithm

Product Features

1. Nucleic acid analysis: Dual wavelength detection at 260/280 nm, auto-calculate purity ratio
2. OD600 test: Built-in cuvette mode to monitor real-time growth curves of bacteria & yeast
3. Fluorescence detection: Works with dedicated kits to detect low-level dsDNA
4. Micro & rapid test: 0.5–2 μ L sample loading, results ready in 5–6 seconds; samples recyclable
5. Independent touch control: 7-inch large screen for standalone operation, with built-in printing & USB data export
6. Light source system: LED light source with ≥ 8000 -hour service life, no preheating required



Technical Specifications

Category	Specification
Optical System	
Model	DS-Nano-700
Interface	Android System + 7-inch HD Capacitive Touch Screen
Light Source Type	LED Cold Light Source
Photoelectric Detection	UV Silicon Photocell
Wavelength Range	260 nm, 280 nm
Wavelength Accuracy	±1 nm
Wavelength Repeatability	≤ ±0.2 nm
Multi-Optical Path Detection	0.05 mm, 0.2 mm, 1.0 mm
Base Material	Quartz Optical Fiber + Stainless Steel
Nucleic Acid Performance	
Required Sample Volume	0.5–2 µL micro sample
Detection Time	Less than 6 seconds
Nucleic Acid Detection Range	0–15000 ng/µL dsDNA
Absorbance Range	0.04–300 A (Equivalent to 10 mm optical path)
Absorbance Accuracy	±1% (7.332 Abs @ 260 nm)
Absorbance Precision	0.003 Abs (0.2 mm optical path)
Optical Performance	
Fluorescence Detection	Compatible with dedicated kits, pg-level sensitivity for dsDNA
Fluorescence Sensitivity	dsDNA detection limit as low as 0.5 pg/µL
Fluorescence Linearity	R ² > 0.9995
Fluorescence Stability	≤1.5%
OD600 Performance	
Absorbance Range	0–6.0000 Abs
Absorbance Stability	<3: ≤0.5%; 3–4: ≤2%
Absorbance Accuracy	<2: ≤0.005%; 2–3: ≤2%; 3–4: ≤2%
Absorbance Repeatability	<3: ≤0.5%; 3–4: ≤2%
Other Functions	
Data Printing	Built-in printer supports direct report printing
Data Export	USB interface, supports storage and export of images & tables
Input Power Supply	DC 24V 2A, 25W
Packing Dimensions	W.415 × D.345 × H.285 mm
Packing Weight	4.5 kg
Warranty Period	2 years