

# NanoBio Spectrophotometer 3000 Series



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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## ►► DESCRIPTION :

### 1. User-friendly software, easy to use.

It is easy to use, free software updates are available

### 2. Micro-volumes measuring.

Only require 0.5~2µl sample to accurate determinate of nucleic acids, proteins

### 3. Fast and easy measurements.

Turn on and instantly measure without lamp warm up time; Easy measurement within 8 sec

### 4. Long life's Xenon flash lamp.

Xenon flash lamp, 10 flashes, up to 10 years, no cells or cuvettes, no dilutions and expensive consumables

### 5. No consumables required.

Direct microvolume measurements from 1–2µL of sample. Eliminates the need for expensive accessories.

### 6. No computer required and with touch screen (Nano-3200, Nano-3300)

Nano-3300 is equipped with Android system operation.

### 7. The Nano-3100 / Nano-3300 are full range of wavelength (200-800nm) detection ability;

The Nano-3200 is a basic UV spectrophotometer specifically designed (only three types of wavelength 230nm, 260nm and 280nm) for nucleic acids and proteins

## NANO-3100 HIGHLIGHTS

1. Turn on and instantly measure without lamp warm up time; Full scan capability from 200-800nm within 5 sec
2. Detects Nucleic Acids up to 4500ng/ul (dsDNA)
3. Element linear silicon CCD array

## NANO-3200 HIGHLIGHTS

1. Nano-3200 is a basic micro-volume UV spectrophotometer designed (only 3 types of wavelength: 230nm, 260nm and 280nm) for the measurement of nucleic acids and proteins.
2. Touch screen and panel operation with built-in controls and software, without computer
3. The data can be printed with built-in printer, the data can output via SD-RAM Card and USB memory
4. Measure nucleic acids concentration at 260nm, and purity using the 260/280 ratio. Measure purified protein at 280nm

## NANO-3300 HIGHLIGHTS

1. Nano-3300 is an improved Micro-Spectrophotometer based on Nano-3100 with 200-800nm. It is added a function of bacterium cell concentration detection (OD600)
2. Android system operation, 7 inch touch screen no computer, APP soft, simple interface, easy to use
3. Turn on and instantly measure without lamp warm up time; Full scan capability from 200-800nm within 6 sec
4. The data can be printed with built-in printer, and can output via SD-RAM Card and USB memory
5. When the Nano-3300 is idly left more than 5mins, it will switch off automatically. Then, the user can awake the machine by touching the screen

►► **SPECIFICATIONS :**

Model	Nano 3100	Nano 3200	Nano 3300
Wavelength Range	200~800nm	230nm, 260nm, 280nm	200~800nm
Minimum Sample Size	0.5~2.0µl	0.5~2.0µl	0.5~2.0µl
Path Length	0.2mm(High concentration) 1.0mm (Ordinary concentration)	0.2mm(High concentration) 1.0mm (Ordinary concentration)	0.2mm (High concentration) 1.0mm (Ordinary concentration)
Light Source	Xenon flash lamp	Xenon flash lamp	Xenon flash lamp
Detector Type	2048-Element linear silicon CCD array	Photodiode	vElement linear silicon CCD array
Wavelength Accuracy	1nm	----	1nm
Spectral Resolution	≤3nm(FWHM at Hg 546nm)	----	≤3nm(FWHM at Hg 546nm)
Absorbance Precision	0.002Abs	0.002Abs	0.003Abs
Absorbance Accuracy	1% (7.332Abs at 260nm)	1% (7.332Abs at 260nm)	1% (7.332Abs at 260nm)
Absorbance Range	0.02-300A (10mm equivalent absorbance)	0.02-250A (10mm equivalentabsorbance)	0.02-290A (10mm equivalentabsorbance)
Detection Limit	2 ng/µl (ds DNA)	10 ng/µl (ds DNA)	10 ng/µl (ds DNA)
Maximum concentration	15,000 ng/µl (ds DNA)	14,500 ng/µl (ds DNA)	16,000 ng/µl (ds DNA)
Measurement time	<5S	<10S	<10S
Dimensions (W x D x H)mm	200 x 250 x 166	210 x 268 x 181	210 x 268 x 181
Weight	2.6kg	2.8kg	3.0kg
Sample pedestal Material	Aluminum alloy and Quartz fiber	Aluminum alloy and Quartz fiber	Aluminum alloy and Quartz fiber
Operating Voltage	12V DC	24V DC	24V DC
Operating Power Consumption	20W	40W	40W
Standby Power Consumption	5W	5W	5W
Software Compatibility	Windows 7, Windows XP, Windows10	Win CE	Android System

OD600nm Measurement

Light Source	----	----	LED
Wavelength Range	----	----	600±8nm
Absorbance Range	----	----	0~3A

▶▶ Regulatory compliances



▶▶ Corporate Social Responsibility

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**Analytical**<sup>®</sup>  
Technologies Limited

HPLC Solutions

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Analytical Foundation (Trust)

**Corporate & Regd. Office:**  
Analytical House, # E67 & E68,  
Ravi Park, Vasna Road, Baroda,  
Gujarat 390 015. INDIA

T: +91 265 2253620  
+91 265 2252839  
+91 265 2252370  
F: +91 265 2254395

E: [info@hplctechnologies.com](mailto:info@hplctechnologies.com)  
[info@multiplelabs.com](mailto:info@multiplelabs.com)  
[info@analyticalgroup.net](mailto:info@analyticalgroup.net)  
[info@analyticalbiomed.com](mailto:info@analyticalbiomed.com)

W. [www.ais-india.com](http://www.ais-india.com)  
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