

MBI Nano-Spectrophotometer 300



Product Information

The Nano-300 is an advanced model of Micro UV VIS Spectrophotometer based on Nano-100, with full range of wavelength (200-800nm). It is with an added new function of bacterium cell concentration measurement (OD600) in a cuvette. The Nano-300 only requires 0.5-2ul sample to measure nucleic acids, protein as quickly like Nano-100 do. Nano-300 come with a 7-inch touch screen and integrated Android operating system, with no computer required. It is an ideal equipment for a biology laboratory to make life science research more efficient.

Features:

1. 7-inch touch screen with simple interface. No computer required
2. Android operating system with free software update
3. Only require 0.5-2ul sample to perform accurate measurements.
4. Long life's Xenon flash lamp for up to 10 years
5. Flexible data output. The data can be printed with built-in printer, and output via USB memory stick

6. OD600 measurement, ideal for bacterial concentration measurement
7. Direct micro-volume measurement with 0.5-2ul of sample. Eliminates the need for expensive accessories.
8. Wide range of wavelength (200-800nm)
9. Turn on and instantly measure without lamp warm up time; Full scan capability from 200-800nm with 6 sec.
10. Switch off automatically when the machine is idle for more than 5mins, and awake by touching the screen.

Technical Data:

Model	MBI Nano-Spectrophotometer 300
Wavelength Range	200~800nm
Sample Size	0.5~2.0ul
Path Length	0.2mm (For high concentration measurement)
	1.0mm (Ordinary concentration)
Light Source	Xenon flash lamp
Detector Type	3864-element linear silicon CCD array
Wavelength Accuracy	1nm
Spectral Resolution	≤3nm (FWHM at Hg 546nm)
Absorbance Precision	0.003Abs
Absorbance Accuracy	1% (7.332Abs at 260nm)

Absorbance Range	0.02 – 100A
Detection Range	10~5000ng/ul (dsDNA)
Measurement Time	<6s
Dimensions (W x D x H)mm	210 x 268 x 181
Data Output	USB, SD-RAM Card
Weight	2.8kg
Sample Pedestal Material	Aluminum alloy and Quartz fiber
Operating Voltage	24VDC
Operating Power Consumption	40W
Standby Power Consumption	5W
Software Compatibility	Android System
OD600nm Measurement:	
Light Source	LED
Wavelength Range	600±8nm
Absorbance Range	0~4A

Accessories:

No.	Code	Description
1	ZR-00919-99	Nano-300 Micro-Spectrophotometer, DC24V 5W
2	ZR-00910-90	Cuvette for Nano-300