

# NANO-100 Micro Spectrophotometer



The Nano-100 is a perfect instrument for micro-volume UV-VIS spectrophotometer. It can accurately measure DNA, RNA and Oligonucleotide concentrations, protein assays etc. The Nano-100 utilizes CCD detector, a light source for long lifetime Xenon lamp, together with simple software. Simply pipette 0.5~2 $\mu$ l sample onto the pedestal, and the measurement can be completed within 5 seconds.

No	Code	Description
01	AS-11010-00	Nano-100 Micro-Spectrophotometer, DC24V 5W

## Features

1. Turn on and instantly measure without lamp warm up time
2. Full range of wavelength (200-800nm) with scan capability from 200-800nm within 5sec.
3. User-friendly software with free software updates
4. Simply pipette a sample onto the pedestal, measure, wipe the pedestal
5. Direct micro-volume measurement with only 0.5-2ul sample required to accurately determinate nucleic acids and protein concentrations
6. Long life Xenon flash lamp, 10 flashes, up to 10 years
7. No cell or cuvette and expensive consumable required
8. Detects Nucleic Acids up to 4500ng/ul (dsDNA)
9. 3864-Element linear silicon CCD array

## Technical Data

Model	Nano-100
Wavelength Range	200~800nm
Sample Size	0.5~2.0ul
Path Length	0.2mm (For high concentration measurement) 1.0mm (For ordinary)
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 – 90A
Detection Range	2~4500ng/ul (dsDNA)
Measurement Time	<8s
Data Output	Connect PC
Dimensions (W x D x H)mm	200 x 250 x 166
Weight	2.6kg
Sample Pedestal Material	Aluminum alloy and Quartz fiber
Operating Voltage	24VDC
Operating Power Consumption	20W
Standby Power Consumption	5W
Software Compatibility	Win XP, Windows 7, Windows 8