

Micro-Spectrophotometer

Nano-100 / Nano-200 Micro-Spectrophotometer

Nano-100 is a perfect instrument for micro-volume UV-VIS spectrophotometer, designed specifically for the life science market. It can accurately measure DNA, RNA and Oligonucleotide calculations, protein assays etc.. The Nano-100 utilises CCD detector, a Xenon light source for long lifetime lamp together with simple software. Simple pipette 0.5~2 μ l sample onto the pedestal, laying down the sampling arm, it can complete the measurement within 5 seconds.

Nano-200 Nucleic Acid Analyzer is a basic micro-volume UV spectrophotometer specifically designed (only three types of wavelength: 230nm, 260nm and 280nm) for the measurement of nucleic acids and proteins.

■ Features:

User-friendly software

It is easy to use, and as always free software updates are available

Easy use

Simply pipette a sample onto the the pedestal, measure, wipe the pedestal

Micro-volumes

Only require 0.5~2 μ l samples to accurate determinate of nucleic acids, proteins

Fast measurement

Turn on and instantly measure without lamp warm up time; Full scan capability from 200-800nm within 5 sec



Nano-100

No Expensive consumables

Direct measurement without wasteful dilutions and expensive consumables

Long life's Xenon flash lamp

Xenon flash lamp, 10⁹ flashes, up to 10 years, no cells or cuvetes

Flexible data output

The data can be printed with built-in printer, the data can output via SD-RAM Card and USB memory

No computer required

Touch screen and panel operation with built-in controls and software, without computer

Micro-volumes

Only require 0.5~2 μ l samples to accurate determinate of nucleic acids, proteins the same as Nano-100



Nano-200

Easy & Fast

Direct, easy measurements within 5 sec
No dilutions for samples and no warm up

Long life & No consumables

Xenon flash lamp, 10⁹ flashes, up to 10 years, no cells or cuvetes, no dilutions and expensive consumables

Measure nucleic acid & protein

Measure nucleic acid concentration at 260nm, and purity using the 260/280 ratio. Measure purified protein concentration at 280nm

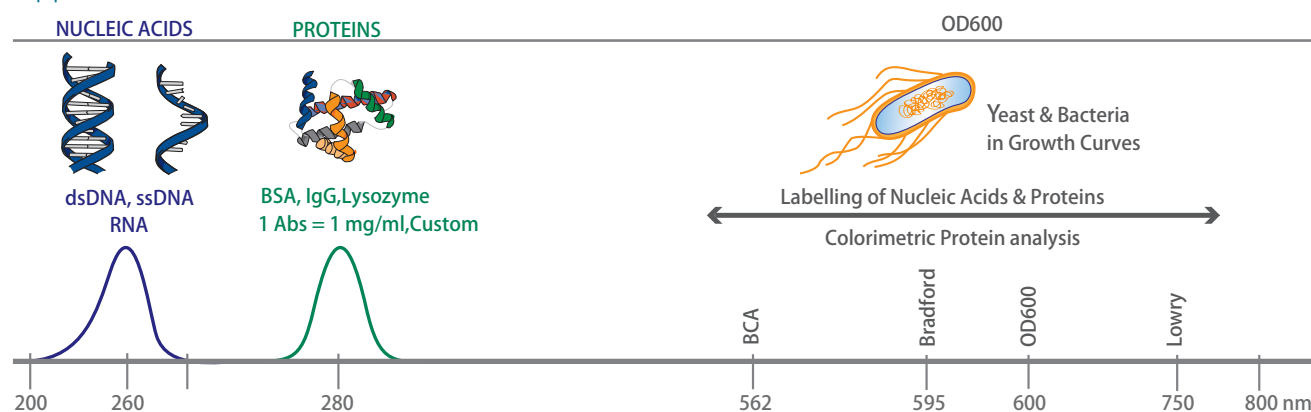
Code	Description
AS-11010-00	Nano-100 DC24V
AS-11030-00	Nano-200 DC24V

Micro-Spectrophotometer

■ Specification:

Model	Nano-100	Nano-200
Wavelength Range	200~800 nm	230nm, 260nm,280nm
Minimum Sample Size	0.5~2.0ul	0.5~2.0ul
Path Length	0.2mm (For high concentration measurement) 1.0mm (For ordinary)	0.2mm (For high concentration measurement) 1.0mm (For ordinary)
Light Source	Xenon flash lamp	Xenon flash lamp
Detector Type	3864-element linear silicon CCD array	Photodiode
Wavelength Accuracy	1nm	----
Spectral Resolution	≤ 3 nm (FWHM at Hg 546 nm)	----
Absorbance Precision	0.003 Abs	0.003 Abs
Absorbance Accuracy	1% (7.332Abs at 260 nm)	1% (7.332Abs at 260 nm)
Absorbance Range	0.02 - 90 (10 mm equivalent absorbance)	0.02 - 80 (10mm equivalent absorbance)
Detects Nucleic Acid up to	3~4500ng/ul (dsDNA)	10~4000ng/ul (dsDNA)
Measurement Time	< 5s	< 5s
Dimensions (W x D x H)mm	200 x 262 x 154	210 x 280 x 166
Weight	2.5kg	2.7kg
Sample Pedestal Material	Aluminum alloy and Quartz fiber	Aluminum alloy and Quartz fiber
Operating Voltage	24V DC	24V DC
Operating Power Consumption	12 - 18 W	12 - 18 W
Standby Power Consumption	5W	5W
Software Compatibility	Windows 7, Windows XP	----

■ Applications:



■ Easy Handling:



Adding sample



Measuring sample



Quick and easy cleaning