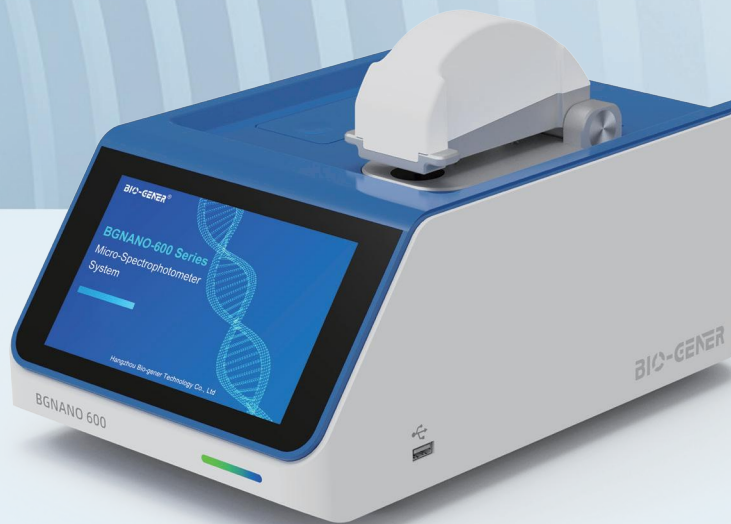


BGNANO-600 Series

Micro-Spectrophotometers

The BGNANO-600 series launched by Bio-gener Technology is a full-wavelength (190-850nm) micro-spectrophotometer. It can quickly and accurately detect nucleic acids, proteins and cell solutions. It is also equipped with a cuvette mode to detect the concentration of bacterial culture fluids, and the sample volume required for the test is only 0.5 to 2 μ l. The sample can be added directly to the sample loading table without the use of a cuvette or capillary. After the measurement, you can choose to wipe the sample directly or recover it with a pipette. All steps are simple and fast. This device can be used in a variety of fields such as clinical diagnosis, blood concentration detection, forensic identification, environmental microbiology detection, food safety, molecular biology research, etc.



- ① 7-inch capacitive TFT screen, multi-touch, intuitive interface, simple operation.
- ② It has its own automatic detection function, which significantly improves the detection efficiency.
- ③ The sample volume required for the test is only 0.5 to 2 μ l, and it can be recovered after the measurement.
- ④ With high-precision motor drive, the accuracy of the optical path reaches 0.001mm, and the absorbance detection repeatability is high.
- ⑤ It has dual-channel fluorescence detection function, high sensitivity and good linearity.
- ⑥ OD600 function with stirring and heating function can detect the growth of bacteria, microorganisms, etc.

Parameters

Model/Specification		
Name	Micro-Spectrophotometers	
Model No.	BGNANO-601	BGNANO-602
Volume	0.5ul-2ul	
Dimension	318×210×188mm（L×W×H）	
Weight	4.85kg	4.5kg
Optical Performance		
Optical Path	0.03mm、0.05mm、0.1mm、0.2mm、1mm	
Light Source	Xenon flash lamp/number of flashes	
Detector Type	2048 pixel linear array CCD	
Wavelength Range	190nm-850nm	
Accuracy	±1nm	
Performance Parameters		
Spectral Resolution	≤3nm（FWHM@Hg253.7nm）	
Absorption Accuracy	0.002Abs（1mm optical path）	
Absorption Accuracy	±1%（7.332Abs absorbance @ 260nm）	
Absorbance Range	0.04-550（at 260nm wavelength, equivalent to 10mm optical path）	
Concentration Range	2ng/ul dsDNA-27500ng/ul dsDNA	
Detection Time	<6s	
OD600		
Light Source	Single color LED	/
Absorbance Range	0-4.000Abs	/
Absorbance Stability	(0,3) ≤0.5%, (3,4) ≤1.5%	/
Repeatability	(0,3) ≤0.5%, (3,4) ≤1.5%	/
Absorption Accuracy	(0,2) ≤0.005A, (2,3) ≤1%, (3,4) ≤2%	/
Heating Temperature	37°C±0.5°C	/
Stirring Speed	12 adjustable speeds, 100-1200rpm	/
Fluorescence Detection		
Sample Volume	≥50ul (0.5ml PCR Tube)	/
Detection Time	4s	/
Detection Channel	2 channel	/
Repeatability	<1.5%	/
Stability	<1.5%	/
Linearity	R² ≥0.995	/
Light Source	Single color LED	/
Excitation Wavelength	470nm,624nm	/
Emission Wavelength	525nm,692nm	/
Other Performance		
Printing	Built-in thermal printer	
Communication	USB2.0 x2	
Date Export Formats	Excel, JPG	
Experimental Data	>10,000	
Input Voltage	DC12V 5A	
Power Supply	60W	

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