

NANO DROP SPECTROPHOTOMETER

Brand - **BioGenix®**



APPLICATION

- Biology Laboratory
- Molecular Biology
- Science-and Research
- University
- Chemistry

Basic features

- Computer Connectivity Display with software
- Measure Purified Protein at 280 nm
- Quick and Easy Cleaning

Nano Spectrophotometer Model - BS -5100

Brand - BioGenix®



Product Overview

Nanodrop spectrophotometer is a conventional laboratory equipment, not only widely used in molecular biological experiment, such as DNA, RNA, protein detection, but also used in absorbance detection for the general substance analysis. It includes three common detections to the nucleic Acid Markers and proteins.

The variable path length of spectrophotometer realizes both the minimum sample volume detection as low as 0.5 μ l, suitable for precious samples, and the detection to the high concentration samples without dilution at all. Including the liquid drop, it builds in the standard cuvette detection module for more use.

Features:

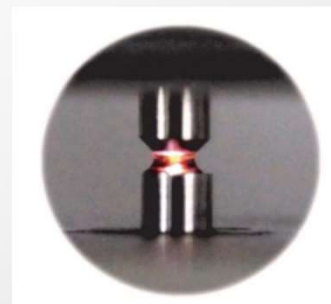
- **High Sensitivity:** 2028 linear CCD Detection unit new generation product, has higher sensitivity, accuracy as well as repeatability.

- **Stability for long life:** Long-life xenon flash lamp of Hamamatsu ensures the stability of detection and the long life of the instrument. The lifting detection base with a sliding bearing structure has high precision, not easy to damage.

- **Variable path length:** The mini-detection path length is 0.05 mm, samples with high concentration can be detected directly without dilution. The max 15000 ng/ μ l ds DNA, the smallest detection volume of precious samples is 0.5 μ l. The user-defined settings are allowed if the path length is more than 1 mm. The instrument has a flexible and convenient detection function.

- **Ultra-wide wavelength range:** with a continuous wavelength range as 185-910 nm, the instrument can detect various samples through select any brand. It adapts to a variety of detection requirements with wide range of near-infrared wavelengths.

- **Accurate Pathlength:** the stepper motor combined unique double track technology (DPTL), allows the precision of optical pathlength as 0.001 mm, thus to achieve highly repeatability of absorbance detection.



Measuring sample



Easy Handling

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■ **Cuvette Detection Mode:** the cuvette detection mode comes with magnetic stirring function. User can set the heating function and stirring speed for dynamic analysis detection. And the user can define different pathlength, such as 1 mm, 2mm, 5mm, 10mm.

■ **Unique designed pipette holder for easy sample adding:** Auxiliary holding for adding liquid can ensure the accuracy of adding liquid during micro measurement. It is also suitable for other mainstream brands of micro UV-Vis spectrophotometers in the market to achieve a stable and simple process of adding liquid.

■ **User-friendly software:** The simply designed interface makes the software user-friendly. It will save the detection data and name file automatically, and it is easy to review the files. There is no need to worry about the loss of experimental data. Set U disk upgrade interface, and maintain the latest and most complete function at any time.

■ **Wireless connection:** Wi-Fi-connected PAD to control the detection and results display and storage without need the cables. Dynamic detection realizes remote controlling and timing reading of the results without manual intervention.

■ Multifunction:

Nucleic Acid Detection: Built-in common calculation formula of dsDNA, ssDNA, RNA, Oligo-DNA, Oligo-RNA, can get the concentration and purity of samples automatically.

UV Visible Custom Scanning: In the full wavelength range, set the detected wavelength through increasing or decreasing wavelength with 1 nm expected.

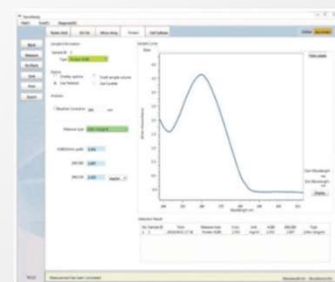
Protein Detection: can detect the concentration of protein solution, or detect protein concentration of dye marker. Built in common detection methods of BCA, Bradford, Lowry, Pierce 660 nm.

Nucleic acid fluorescence marker detection: preinstall extinction factor of commonly used fluorescent dyes of dsDNA, ssDNA, RNA, Oligo-DNA, Oligo-RNA.

Cell Detection: can detect absorbance value at 600nm automatically. Meanwhile, it can detect absorbance value at any brand under a set wavelength range.



Adding sample



Software Detection



Quick And Easy Cleaning

TECHNICAL SPECIFICATION

Model	BS-NDS-5200
Detector	2048-element liner CCD array
Mini. Sample	0.5 µl
Mini. Pathlength	0.05 mm
Wavelength Range	185-910 nm
Wavelength Accuracy	+ -1
Spectral Resolution	1.8 (FWH Mat Hg 253.7 nm)
Absorbance Accuracy	0.002 (1 mm optical length)
Absorption Accuracy	3% (at 0.64A at 350nm)
Limit Of Detection	2 ng/ul ds DNA
Detection Time	5 Sec.
Heating Temp. (C)	37+-0.5
Mixing Speed (RPM)	150-850
Optical Length (Mm)	10, 5, 2, 1
Limit Of Detection	0.4 ng/µl dsDNA
Max. Detection	750 ng/µl dsDNA
Data Interface	USB
Wireless Connection	Wi-Fi
Software Update	USB direct update
Accessory	Pipette holder
Power	AC 110V-220V 50 HZ/60HZ (Power Adapter)
NET Weight	2.1 kg

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Dealer Details

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