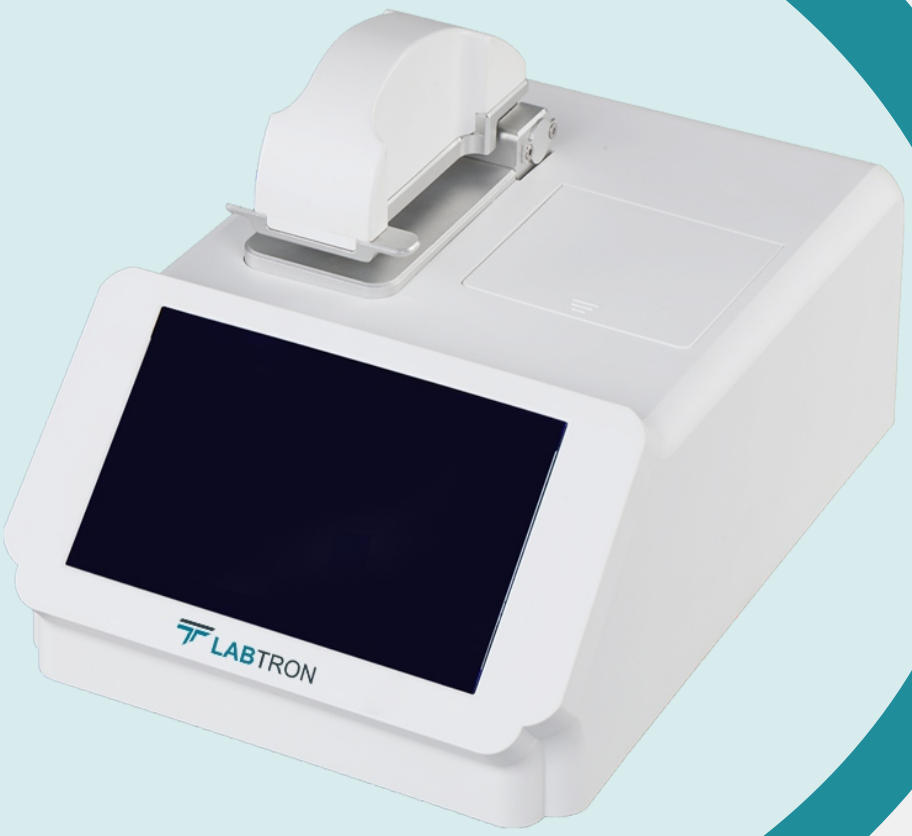
LABTRON



NANO SPECTROPHOTOMETER
LNS-B20

www.labtron.com | info@labtron.com

NANO SPECTROPHOTOMETER LNS-B20

Nano spectrophotometer LNS-B20 is an advanced model of micro UV spectrophotometer with full range of wavelength 200 to 800 nm. It utilizes CCD array and Xenon flash lamp as light source which has high stability and long operating life. It requires 0.5 to 2.0 µl samples to measure nucleic acids, protein as quickly as possible. It has 7 inch touch screen display and data can be printed with built in printer and can be transferred via USB. It is integrated with android operating system, no computer required and only minimal amount of sample is used for accurate measurement.

FEATURES

- Designed with 0.05 mm optical path length
- The highest detection concentration up to 15000ng/ul
- Equipped with Fluorescence detection function, which can be used for accurate quantification of extremely low concentration nucleic acid with a lower limit of 0.5pg/µl
- Designed with 7 inch touch screen with simple interface
- Offers cuvette type measurement
- Full scanning capability from 200 to 800 nm within 6 sec
- Adopts 2048-Element linear CCD array detector
- Sample size ranges from 0.5 to 2.0 µl
- Detect concentration of bacteria and microorganism are more convenient with OD600 function
- Designed with inbuilt printer and can output via USB for data analysis and storage
- It locks the screen when kept idle for more than 5 min, unlocks on touching screen
- Android operating system with free software update

APPLICATIONS

Nano spectrometer is used to measuring nucleic acid, protein also used in laboratory, food industries, chemistry, microbiology, medicine research and development.

SPECIFICATION

Model	**LNS-B20**
Wavelength Range	200 to 800 nm
Sample Size	0.5 to 2.0 µl
Path length	0.05 mm
	0.2 mm
	1.0 mm
Light Source	Xenon flash lamp
Detector Type	2048-Linear CCD array
Wavelength Accuracy	1 nm
Spectral resolution	≤3 nm (FWHM at Hg546nm)
Absorbance Precision	0.003 Abs
Absorbance Accuracy	1% (7.332Abs at 260nm)
Absorbance range	0.04 to 200 A
Detected nucleic acid	2 to 15000 ng/ul (ds DNA)
Measurement time	<6S
Data output	USB
Sample pedestal material	Aluminum alloy and Quartz fiber
Dimension	210 × 310 × 181 mm
Power consumption	25 W
Power supply	24 V DC
Stand by power	5 W
Software compatibility	Android system
Weight	2.8 kg

FLUORESCENT DETECTION

Sensitivity	dsDNA 0.5 pg/μl
Linear Dynamic Range	R2＞0.995
Repeatability	＜1.5%
Light	Blue
Excitation Filters	460 ± 20 nm
Emission Filters	525 to 570 nm (45 nm)
Normal kits	Pico Green, oligreen, RiboGreen,GFP, Protein, Fluorescein, Quant-it
Applications	dsDNA, ssDNA, RNA quantification, GFP gene detection, Fluorescein detection, Protein detection