

Smart Nano Touch Series Drop/Cuvette UV-Vis spectrophotometer

With built-in 7-inch color touch screen, can complete all detection functions without connecting a computer, display test results in real time, store historical data, and export to a computer.

The Android operating system, optimized for the touch operation habits, improves the operating feelings.

The integrated design and more compact size are ideal to save the space in the crowded laboratories, or as the in-vehicle mobile inspection device.



It can be applied to the concentration detection of nucleic acids, proteins, bacterial cell cultures, etc., as well as the absorbance measurement of unknown samples:

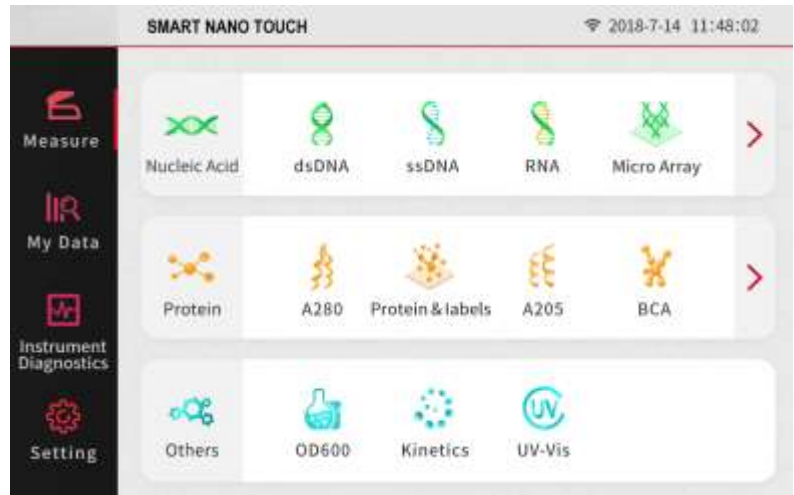
Features:

- Micro volume samples low to 5 μ l
- Fastest detection time: 5 seconds
- Wider detection conc. range: 0.2-27500 ng/ μ l
- Bigger detection UV-Vis range: 185-910 nm



Large size color touch screen—

Built-in 7-inch high-resolution color touch screen for more detection information, all operations can be done on the screen.



Wider detection range—

The 0.03 mm minimum detection path length, combined with a new generation of spectrometers, increases the maximum detection concentration to 27,500 ng/μL and the lowest detection concentration as low as 0.2 ng/μL dsDNA.

Vary models for your choice—According to different demands, you can choose different models of products, the full wavelength or the fixed wavelength, micro volume or cuvette, to meet the flexible detection needs. The cuvette module has a heating stirrer function.

Customizable wavelength—Built-in spectrometer, fixed wavelength model, can be upgraded to any wavelength configuration in the wavelength range according to your needs.

Light status prompt—The lighting strip around the test stand flashes with different states to show the detection process straightforwardly.

Android operating system—The machine has built-in operating system and detection software, without need a computer. Graphical touch operation is more in line with user friendly design and improves work efficiency.

Stable and reliable detection value—Both low concentration and ultra-high concentration of nucleic acid can be stably and accurately detected.

Canada Smart Tech Co., Ltd.

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Detector	2048-element CCD linear image sensor
Light Source	Xenon flash lamp
Minimum Sample Volume(μ L)	0.5
Pathlength(mm)	0.03, 0.05, 0.1, 0.2, 1.0 auto-ranging
Wavelength Upgrade	Available
Wavelength Range(nm)	Default 230,260,280,350,600, optional 185-910 for customized
Wavelength Accuracy(nm)	± 1
Spectral Bandwidth	≤ 1.8 (FWHM at Hg 253.7nm)
Photometric(Abs)	0-550 (10mm equivalent)
Measurement Repeatability	0.002(1mm path),or 1%CV,whichever is greater
Photometric Accuracy	$\pm 2\%$ (at 0.86A at 257 nm)
Limit of Detection	Pedestal:2ng/ μ L dsDNA,0.06mg/mL BSA,0.03mg/mL IgG
Maximun Concentration	Pedestal:27,500ng/ μ L dsDNA,820mg/mL BSA,400mg/mL IgG
Measurement Time(S)	≤ 5
Cuvette Temperature($^{\circ}$ C)	37 \pm 0.5
Cuvette Stirring	10-900RPM 10 Speeds
Cuvette Photometric	0-1.5A (10mm)
Cuvette Limit of Detection	0.2ng/ μ LdsDNA 0.006mg/mL BSA 0.003mg/mL IgG
Display	7 inch,1280 \times 800high-definition LCD. touch
Operating System	Android
Internal Storage	32GB flash memory
P C Software Requirements	Windows 7:32/64 bit,Windows8/10:64 bit
Data transfer & PC connecting	USB,Wifi
Supply	AC110V-220V, 50Hz/60Hz(power adapter)

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