

UltraNano Plus **Micro Spectrophotometer**



Product Description

UltraNano Plus does not require a computer equipped full wavelength (190-850nm) micro spectrophotometer. It can quickly and accurately detect nucleic acids, proteins and cell solutions. And euipped with a colorimetric dish mode for detecting bacterial and other culture medium concentrations, with a minimum limit of 0.5ng/uL (dsDNA).

The sample size required for each measurement of nucleic acid testing is only 0.5 to 2.0uL, and the sample can be directly placed on the sampling table without the need for accesories such as colorimetric cups or capillaries. After the measurement is completed, You can choose to directly wipe off the sample or use a pipette to recover the sample. All steps are simple, fast, and completed in one time. It can be applied in various fields such as clinical disese diagnosis, blood transfusion safety, forensic identification, environmental microbiology testing food safety monitoring and molecular biology research.

Product Feature

- Light source flicker: The flicker frequency of the ligh source is short, which increases the service life of the light source compared to traditional detection methods. The ligh intensity stimulation is small, and the test sample can be detected faster and is not easily degraded;
- Adopting 4 optical paths detection technology: unique motor control technology, By using "4" optical paths detection method, with better stability, repeatability, linearity, and larger measurement range;
- Sample contractiono: The sample does not need to be diluted, and the concentration range of the measurable sample is more than 50 times that of a conventional UV visible spectrophotometer;
- Fluorescence function: paired with fluorescence quantitative reagents, it can detect pg level concentration of dsDNA;
- Built-in printer: With a simple and easy-to-use data to printer option, you can directly print reports through the built-in printer;
- Operating system: An independently developed Android operating system with a 7-inch capacitive touch screen, which does not required a computer to be connected and can be tested on a single machine.

- it is more convenient to detect the concentration of bacterial, microorganisms, and other culture solutions than the dish mode.
- Strong repeatability and high linearity:

14000	
12000	
10000	
8000	
6000	
4000	
2000	
0	

Accessories

	Item No.
Ult	raNano Plus

Detection Mode Nucleic Acid Testing A280 0.00 A230 0.00 20.0 1824/281

Can quickly and accurately detectin nucleic acids.

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	原目 FetPojed	Et 220420_1629
	法章 0.00 ~~~	
	A280 0.00	**
	4290 0.00	

Software Functions



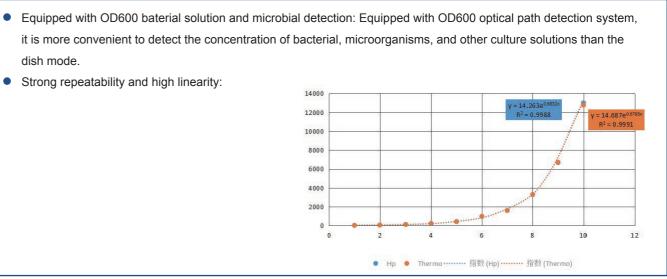
Simple and user-friendly interface

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	. 42	0.00	
	10	0.00	-0
	AZ	00.00	
	A260/42	0.00	
	A280/42	99 0.00	42
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	- 30	-	-

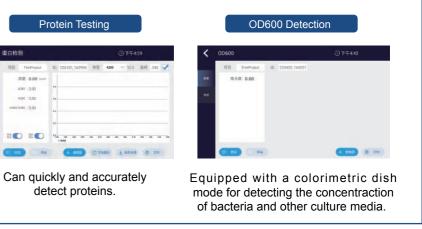
< 核酸检测

Measurement interface Fast and stable operation without delay.





Description	
Colorimetric dish	

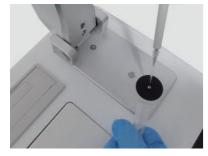




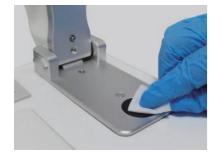


Operation Instruction

Micro detection



Before using the instrument, first use 0.5~2.0uL clean two sample stands and two light machine stands with ultrapure water or sample buffer solution, and wipe the solution clean with dust-free paper; Repeat at least 2 times.



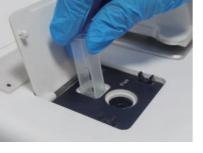
After testing, use 0.5~2.0uL clean two sample holders and two light holders with ultrapure water, and wipe the solution clean with dust-free paper; 3 to 4 times.

Technical Specification



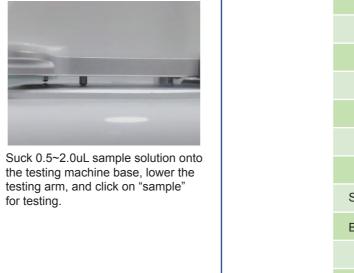
Suck 0.5~2.0uL sample buffer onto the testing machine base, lower the testing arm, click "blank" to obtain the baseline, and wipe it clean with dustfree paper after completion Colorimetric dish detection.

for testing.



Insert the OD600 detection cuvette solt and click on "sample" to test the absorbance of the sample.

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Model	UltraNano Plus
Optical Path	0.02mm, 0.05mm (high concentration measurement) 0.2mm, 1.0mm (Ordinary concentration measurement)
Detector	HAMAMATSU UV Enhanced CMOS Linear Array Sensing
Nucleic Acid/Protein Detectin Range	0~27,5000 ng/uL dsDNA 0.06~820mg/mL BSA
Fluorescence Sensitivity	dsDNA: 0.5pg/uL
Fluorescence Linearity	≤1.5%
Wavelength Range	190nm ~ 850nm
Sample Volume	0.5 ~ 2.0uL
OD600 Absorbance range	0 ~ 6.000Abs
OD600 Absorbance Stability	(0,3)≤0.5%, (3,4)≤2%
OD600 Absorbance Accuracy	(0,2)≤0.005A, (2,3)≤1%, (3,4)≤2%



OD600 Absorbance Repeatability	
Absorbance Range	
Absorbance Accuracy	
Absorbance Accuracy	
Spectral Resolution	
Photometric Accuracy	
Wavelength Accuracy	
Wavelength Reproducibility	
Sample Wavelength Scanning	
Base Measurement Required	
Sample Base Material	
Detecting Time	
Power Consumption (Standby)	
Data Output Method	
Light Source	
Power Adapter	
Power Consumption	
Overall Dimension	
Net Weight	

Ultrassay BioTech Co., Ltd. RM 3018 Poly D9, No. 999 Luzhou Avenue, Baohe District, Hefei, Anhui, China Tel/Fax: 86-551-62881663 E-mail: info@ultrassay.com Website: http://ultrassay.com

Model

Absorbance Accuracy	
Absorbance Accuracy	
Spectral Resolution	
Photometric Accuracy	
Wavelength Accuracy	
Wavelength Reproducibility	
Sample Wavelength Scanning	
Base Measurement Required	
Sample Base Material	
Detecting Time	
Power Consumption (Standby)	
Data Output Method	
Light Source	
Power Adapter	
Power Consumption	
Overall Dimension	
Net Weight	

UltraNano Plus
(0,3)≤50.%, (3,4)≤2%
0.02~300A (Equivalent to 10mm)
0.002Abs (0.2mm optical path)
±1% (7.332Abs at 260nm)
<1nm
±0.005A or ±1%
Within ±1%
<±0.2nm
190~850nm
0.5~2.0uL
Quartz fiber optic and stainless steel
< 5 seconds
5W
USB
Xenon flashing lamp
24V DC
25W
W200mm x D260mm x H165mm
5 ka

