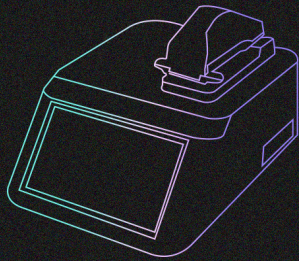


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ULTRA MICRO SPECTROPHOTOMETER



The TSS-200 is a UV-visible spectrophotometer dedicated for micro volume analysis of purified nucleic acids and multiple proteins. The TSS-200 comes with pre-installed software and touch display for detections using 0.5 to 2 μ L samples with high accuracy and repeatability. The Sample Retention System applies surface tension to keep the sample between the two detection fibers, allowing the instrument to detect a higher concentration of the sample without dilution. Using this technique, the highest concentration of the full wavelength (180~910nm) ultra fine spectrophotometer to detect samples is hundreds of times that of the standard cuvette.

Product characteristics

- Intelligent Android operating system with a 7-inch capacitive touch screen
- Cuvette slot for culture medium detection
- Small sample volume (0.5- 2 μ L)
- Direct sample addition, dilution free. 2-6 s for results. 50 times than a conventional UV-visible spectrophotometer
- Life time up to 10 years
- Stabilized, fast USB data output
- No need for computer connection
- Multiple formatting includes Excel and JPG image export
- High precision, accuracy of optical path to 0.001mm
- Automatic detection after arm closure
- Optional printer



Product Specifications

Model	TSS-200	
Sample Volume	0.5 μ L~2 μ L. suggestion 2 μ L	
Optical path length	0.05 mm, 0.2 mm, 1.0 mm, 1.2 mm	
Light source/ life	Fl flashing xenon lamp/flicker times $>10^9$	
Types of detectors	2048 cell linear CMOS array	
wavelength coverage	180~910 nm	
wavelength accuracy	± 1 nm	
wavelength resolution	≤ 1.5 nm (FWHM@Hg 253.7 nm)	
Absorption precision	0.002 Absorbance value (1mm optical path)	
Absorption accuracy	$\pm 1\%$ (7.332 Abs at 260 nm)	
Absorbance range	0.02~300 (260 nm wavelength, equivalent to 10 mm optical path wavelength)	
concentration range	2 ng/ μ L dsDNA~15000 ng/ μ L dsDNA	
Detection time	< 6 s	
OD600	Absorbance range	0~4.000 Abs
	Absorbance stability	[0,3] $\leq 0.5\%$, [3,4] $\leq 1.5\%$
	Absorbance repeatability	[0,3] $\leq 0.5\%$, [3,4] $\leq 1.5\%$
	Absorbance accuracy	[0,2] $\leq 0.005A$, [2,3] $\leq 1\%$, [3,4] $\leq 2\%$
Input voltage	DC12V 4A	
Power	48 W	
Dimensions	270 \times 210 \times 196 mm (W \times D \times H)	
Weight	3.5 kg	

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