

T600/T700 Series UV-Vis Spectrophotometer

Our purpose:

To carry out the analysis and test efficiently, conveniently, accurately and reliable

INSTRUMENT CHARACTERISTICS

01 Convenient Operation, Free Extensibility

- Thanks to the scientific and reasonable process design, you can start your measurement work with three clicks.
- The instrument system platform can be extended for applications to achieve online teaching, intelligent assessment, water quality tests, and other functions.
- Customizable user-specific methods that support storage device and network form migration.
- Data can be exported to a USB flash disk, and storage space supports extensibility.

02 Stable Performance, Fast and Correct

- Completes a spectral scan in 2 seconds, with a spectral scanning speed of 30000 nm/min.
- - 4 to+4 Abs absorbance range, no fear of high concentration samples.
- Easy to cope with the test of complicated samples with the minimum spectral bandwidth of 0.2 nm.
- The instrument indicators have passed the testing by the authoritative institute of metrology, with an accuracy of Level I.
- Network port communication, stable and fast.

03 Beautiful Design, Practical

- Excellent finish with firm and smooth lines.
- 9.7-inch capacitive touch screen.
- The paint surface is resistant to corrosion by acids, alkalis and organic solvents.
- Anti-tipping and liquid leakage of the sample cell.



Model Selection Table

Model	Quasi-double light beams	Double light beams	5-grade changeable slit	Fixed slit	Color touch screen
T700AS		√	√		√
T700A		√		√	√
T700S		√	√		
T700B		√		√	
T600AS	√		√		√
T600A	√			√	√
T600S	√		√		
T600B	√			√	

Performance indicator

Maximum allowable error of wavelength	±0.1nm (D2@656.1nm) ± 0.3 nm full wavelength range
Wavelength repeatability	≤0.1nm
Wavelength transmission speed	Max. wavelength scanning speed 30000 nm/min
Spectral bandwidth	T600S, T600AS, T700S, T700AS: 0.2, 0.5, 1.0, 2.0, 5.0 nm
Stray light	< 0.01T% (220nm); ≤ 0.05T% (360nm)
Photometric range	-4.0-4.0Abs
Maximum allowable error of transmittance	±0.3%T (0-100%T) ±0.002Abs(0.5Abs) ±0.004Abs (1.0Abs)
Transmittance repeatability	<0.1%T (0-100) %T <0.0002Abs(0.5Abs) <0.0002Abs(1Abs)
Noise	≤0.05%T RMS: within 0.00005Abs (700nm)
Baseline flatness	±0.0005Abs
Drift	≤ 0.1% T (500nm, preheating for 1h, test for 1h) ±0.0004Abs/h (500nm)

Functional Indicators

Optical system	T700 series double light beams, T600 series quasi-double light beams
Screen	T600A, T600AS, T700A, T700AS: 9.7 inch color capacitive touch screen; T600B, T600S, T700B, T700S: no screen;
Light source	Imported tungsten halogen lamp, imported deuterium lamp
Detector	Imported silicon photodiode
Optical grating	Imported blazed holographic grating
Data export	Data can be exported to a USB flash disk
Printing	Supports all printer models
Online mode	Network port communication, supports wifi
Overall dimensions	Dimensions of T600A and T600AS spectrophotometers: width 512.1, height 274, depth 505 Dimensions of T600B and T600S spectrophotometers: width 512.1, height 249.7, depth 505 Dimensions of T700A and T700AS spectrophotometers: width 512.1, height 274, depth 572.1 Dimensions of T700B and T700S spectrophotometers: width 512.1, height 249.7, depth 572.1 Outer package size: width 715, height 575, depth 715 Note: Unit: mm
Weight	Bare instrument: 28 kg
Wavelength range	190-1100 nm
Power	150W

Optional Accessories

Optional accessory	Functional description
Standard optical path sample cell	A 10mm * 10mm conventional cuvette can be selected for use You can also choose to use a micro cuvette with an optical path of 10mm to reduce the volume of the measurement sample used
Adjustable optical path fixed length sample cell	Colorimetric cells with optical paths of 5, 10, 20, 30, 40, 50 and 100 mm can be accommodated through insertion
Adjustable optical path quintuplet long sample cell	Colorimetric cells with optical paths of 5, 10, 20, 30, 40, 50 and 100 mm can be accommodated through insertion The sample cell can be freely switched from No. 1 to No. 5 for convenient measurement
Octuple cell	Optional 10mm * 10mm conventional cuvette for use The sample cell can be freely switched from No. 1 to No. 8 for convenient measurement



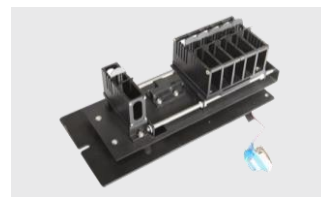
Solid sample cell frame



Changeable angle sample table



Relative mirror reflection



Adjustable optical path quintuplet long sample cell



Adjustable optical path fixed length sample cell



Test tube rack



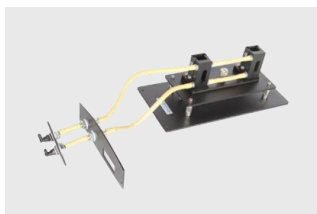
Octuple cell



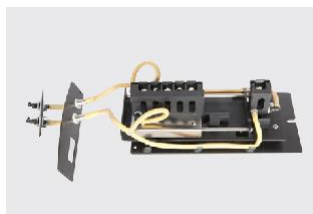
Micro sample cell



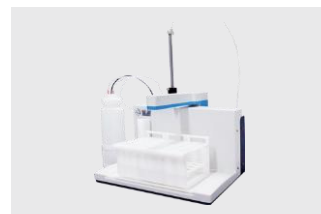
Double-channel peristaltic pump accessory



Thermostatic sample cell



Quintuplet thermostatic cell



Automatic sampler

Note: The T700 series is taken as an example, and the T600 series is also provided with accessories with the same functions



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