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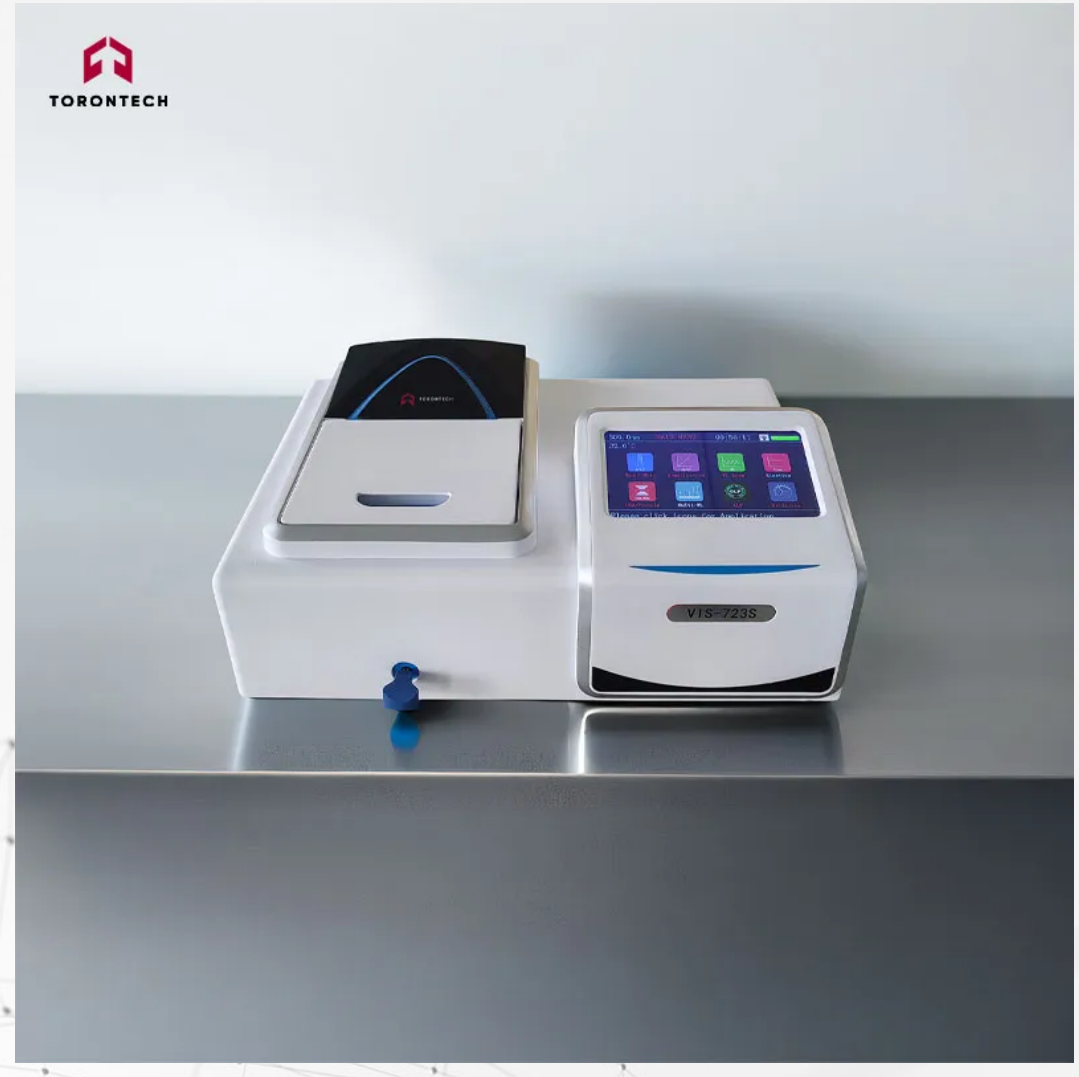

SPECTROPHOTOMETER
TORONVIS™-723S

Spectrophotometer ToronVIS™-723S offers precise single-beam wavelength scanning from 320 1100 nm with multiple spectral bandwidth options. Designed for reliability, it features advanced optics, versatile measurement modes, and optional accessories for enhanced functionality. PC-controlled operation via USB ensures accuracy and flexibility.

APPLICATIONS

Standard

- **Biochemical & Life Sciences** – Protein and nucleic acid quantification, enzymatic studies, and kinetic assays.
- **Pharmaceutical Industry** – Routine quality control, raw material analysis, and compliance with pharmacopoeia standards.
- **Academic & Research Institutions** – A versatile platform for teaching, training, and scientific investigations.
- **Environmental Monitoring** – Testing of water quality, detection of pollutants, and chemical analysis.
- **Food & Agriculture** – Quality testing, additive detection, and nutritional content analysis.
- **Clinical & Public Health** – Diagnostic method development, absorbance assays, and research applications.

FEATURES

1. Single-beam wavelength scanning across a full range of 320~1100 nm.
2. Five selectable spectral bandwidth options: 5 nm, 4 nm, 2 nm, 1 nm, and 0.5 nm, tailored to customer needs and compliant with pharmacopoeia standards.
3. Standard manual 4-cell holder supports cell sizes from 5–50 mm, with an option to switch to a long-path holder for 100 mm cells.
4. Optional accessories include a peristaltic pump automatic sampler, water temperature-controlled sample holder, Peltier temperature control sample holder, single-slot test tube holder, and film sample holder.

5. Advanced optical and electronic design, along with a high-quality light source and detector from globally recognized manufacturers, ensures top performance and reliability.
6. Versatile measurement modes: wavelength scanning, time scanning, multi-wavelength analysis, multi-order derivative determination, as well as dual- and triple-wavelength methods to support various testing needs.
7. Data output available via a printer port.
8. Parameter and data storage prevents loss in case of power failure.
9. PC-controlled measurement via a USB port for enhanced precision and flexibility.

TECHNICAL SPECIFICATIONS

Specification	Details
Wavelength Range	320-1100nm
Spectral Bandwidth	2nm (5nm, 4nm, 1nm, 0.5nm optional)
Wavelength Accuracy	±0.5nm
Wavelength Reproducibility	≤0.2nm
Monochromator	Single beam, plane grating of 1200L/mm
Photometric Accuracy	±0.3%T (0-100%T)
Photometric Reproducibility	≤0.2%T
Photometric Range	-0.301~2A
Working Mode	T, A, C, E
Stray Light	≤0.1%T (NaI 220nm, $NaNO_2$ 360nm)
Baseline Flatness	±0.003A
Stability	≤0.002A/h (at 500nm, after warming up)

Specification	Details
Light Source	Tungsten halogen lamp
Detector	Silicon photodiode
Display	7 inches colorful touch screen
Power	AC: 90-250V, 50V/60Hz
Dimensions	470mm×325mm×220mm
Weight	8kg

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