

UV/VIS SPECTROPHOTOMETER TORONUV™ - 1801P/1801S



UV/VIS Spectrophotometer ToronUV™-1801P/1801S offers a single-beam scan with a broad wavelength range and customizable spectral bandwidth options. It features manual and automatic cell holders, advanced measurement methods, and PC-controlled operation via USB for precision and flexibility. Optimized optics and high-quality components ensure reliable performance across various applications.

APPLICATIONS

UV/VIS Spectrophotometer ToronUV-1801P/1801S

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 scan type with a broad wavelength range, meeting diverse industry needs.
2. Five selectable spectral bandwidth options: 5nm, 4nm, 2nm, 1nm, and 0.5nm - customizable to user requirements and compliant with pharmacopoeia standards.

3. Standard manual 4-cell holder accommodates 5 - 50mm cells and can be adapted for a 100mm long-path cell holder.
4. Automatic 4-cell holder supports 5 - 50mm cells and can be upgraded to an 8-cell holder for 10mm cells (UV-1801P model only).
5. 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.
6. Optimized optical and electronic design, featuring a high-quality light source and detector from a globally recognized manufacturer for superior performance and reliability.
7. Comprehensive measurement options: wavelength scan, time scan, multi-wavelength determination, multi-order derivative determination, double-wavelength, and triple-wavelength methods to support various testing needs.
8. Data output available via a printer port.
9. Power failure protection ensures parameters and data are retained for user convenience.
10. PC-controlled operation via USB for enhanced precision and flexibility.

TECHNICAL SPECIFICATIONS

Specification	Details
Wavelength Range	190-1100nm
Spectral Bandwidth	2nm (5nm, 4nm, 1nm, 0.5nm optional)
Wavelength Accuracy	±0.3nm (for UV-1081P), ±0.5nm (for UV-1081S)
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
Working Mode	T, A (-0.301-3A), C, E

Specification	Details
Stray Light	$\leq 0.1\%T$ (NaI, 220nm; NaNO ₂ , 340nm)
Baseline Flatness	$\pm 0.003A$
Stability	$\leq 0.002A/h$ (at 500nm, after warming up)
Noise	$\leq 0.2\%T/3min$ (0% line)
Detector	Silicon photo-diode
Display	7 inches colorful touch screen
Power	AC: 90-250V, 50V/60Hz
Dimensions	470mm×325mm×220mm
Weight	9kg



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