



TORONTECH



UV/VIS SPECTROPHOTOMETER TORONUTM-1601

UV/VIS Spectrophotometer ToronUV™-1601 offers a broad wavelength range, precise split-beam monitoring, and multiple spectral bandwidth options. With automated operation, advanced optics, versatile measurement modes, and USB connectivity for PC control, it ensures high performance, reliability, and flexibility for various applications.

APPLICATIONS

Standards

- **Biochemical Research** - Quantitative and qualitative analysis of biomolecules, enzyme activity monitoring, and nucleic acid/protein concentration determination.
- **Pharmaceuticals** - Quality control, formulation analysis, and compliance with pharmacopoeia testing requirements.
- **Education & Research** - A versatile tool for universities and research institutions across chemistry, biology, and environmental sciences.
- **Environmental Monitoring** - Water testing, pollutant detection, and chemical content analysis.
- **Food & Agriculture** - Additive detection, nutritional studies, and safety compliance testing.
- **Clinical Diagnostics & Public Health** - Routine absorbance testing, assay development, and medical research support.

FEATURES

1. Broad wavelength range to accommodate diverse applications.
2. Split-beam ratio monitoring system ensures precise measurements and enhanced baseline stability.
3. Four selectable spectral bandwidth options - 1nm, 2nm, 4nm, and 5nm - tailored to user needs and pharmacopoeia standards.
4. Fully automated operation for effortless measurements.

- 5. Advanced optics and high-integration circuit design, featuring light sources and receivers from globally recognized manufacturers, ensure top-tier performance and reliability.
- 6. Versatile measurement modes, including wavelength scan, time scan, multi-wavelength analysis, multi-order derivative analysis, and dual- and triple-wavelength methods, to support various testing requirements.
- 7. Automatic 10mm 8-cell holder, with an optional automatic 5mm-50mm 4-position cell holder for greater flexibility.
- 8. Data output available via printer port.
- 9. Parameters and data are securely stored to prevent loss during power interruptions.
- 10. USB connectivity enables PC-controlled measurements for greater precision and adaptability.

TECHNICAL SPECIFICATIONS

Specification	Details
Wavelength Range	190-1100nm
Spectral Bandwidth	2nm (5nm, 4nm, 1nm optional)
Wavelength Accuracy	±0.3nm
Wavelength Reproducibility	0.15nm
Photometric System	Split-beam ratio monitoring; Auto scan; Dual detectors
Photometric Accuracy	±0.3%T (0-100%T) ±0.002A(0 0.5A) ±0.004A(0.5A 1A)
Photometric Reproducibility	0.2%T
Working Mode	T, A, C, E
Photometric Range	-0.3-3A
Stray Light	≤0.1%T(NaI, 220nm, NaNO2 340nm)

Specification	Details
Baseline Flatness	±0.002A
Stability	0.001A/30min (at 500nm, after warming up)
Noise	±0.001A (at 500nm, after warming up)
Display	6 inches high light blue LCD
Detector	Silicon photodiode
Power	AC: 220V/50Hz, 110V/60Hz, 180W
Dimensions	630×470×210mm
Weight	26kg



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