TORONTECH

DOUBLE BEAM UV/VIS SPECTROPHOTOMETER TORONUV™-2200

Double Beam UV/VIS Spectrophotometer ToronUV-2200 is a high-precision double beam UV/VIS spectrophotometer designed for advanced research. It features ultra-low stray light, multiple spectral bandwidth options, comprehensive data processing tools, and a built-in DNA/Protein module. With intuitive PC control and a spacious sample compartment, it ensures accurate and efficient analysis across a broad wavelength range.

APPLICATIONS

Standard

- **Biochemical Research** - Protein and nucleic acid quantification, enzyme kinetics, molecular interaction studies, and advanced biomolecular analysis supported by the built-in DNA/Protein module.
- **Pharmaceutical Industry** - High-precision drug formulation development, raw material identification, impurity profiling, and compliance testing with pharmacopoeia standards.
- **Education and Academia** - Advanced training and research in chemistry, life sciences, and biotechnology, with flexible parameter settings for diverse experiments.
- **Environmental Monitoring** - Sensitive detection of pollutants, water quality assessment, and chemical composition analysis across a wide wavelength range.
- **Food Safety and Agriculture** - Nutritional content determination, additive detection, and quality assurance for agricultural and food products.
- **Clinical Diagnostics & Public Health** - Quantitative and qualitative testing for diagnostic research, clinical assays, and method development for healthcare laboratories.

FEATURES

1. Research-grade double beam, double monochromator UV/VIS spectrophotometer.

2. Fully PC-controlled operation with intuitive software and advanced functionality.
3. Ultra-low stray light allows direct measurement of high-concentration samples without dilution.
4. Six-step adjustable spectral bandwidth: 0.1nm, 0.2nm, 0.5nm, 1.0nm, 2.0nm, 5.0nm.
5. Spectrum scanning across 190–1100nm with a minimum sampling interval of 0.02nm.
6. Comprehensive data processing tools, including spectrum conversion, overlay, derivation, peak detection, and curve smoothing.
7. Multi-wavelength analysis in photometric mode, with user-defined calculations that can be stored.
8. Multiple calibration curve methods in quantitative analysis, including single-, double-, and triple-wavelength options, along with customizable methods for future use.
9. Flexible parameter settings in kinetics mode, enabling time scans at a fixed wavelength with full data processing capabilities.
10. Built-in DNA/Protein module for direct concentration measurements.
11. Spacious sample compartment accommodating cell sizes from 5mm to 100mm.

TECHNICAL SPECIFICATIONS

Specification	Details
Wavelength Range	190-1100nm
Spectral Bandwidth	0.1, 0.2, 0.5, 1.0, 2.0, 5.0 nm
Wavelength Accuracy	±0.3nm
Wavelength Reproducibility	0.1nm
Photometric Accuracy	±0.3%T (0-100%T)
Photometric Reproducibility	0.1%T
Working Mode	T, A, C, E
Stray Light	≤0.001%T (220nm NaI, 360nm $NaNO_2$)

Specification	Details
Baseline Flatness	±0.0002Abs
Stability	0.0002A/h (at 500nm, after warming up)
Detector	Import PMT and silicon photodiode
Light Source	Famous brand tungsten and deuterium Lamp
Power	AC: 220V/50Hz, 400W
Dimensions	73x53x23 cm
Weight	40kg

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