

UV-Vis Spectrophotometer, Single Beam



The instrument can meet the requirement of quantitative analysis for most samples conducted within the visible and ultraviolet-visible spectral range in conventional laboratories and is suitable for use in medicine and health, clinical examination, biochemical, petrochemical, environmental protection, quality control departments, colleges and universities and others.

Features:

- **7-inch Multi-Color Touch Screen:** Provides simple and effective human-computer interaction with clear display of test data.
- **Built-in Thermal Printer (Optional):** Facilitates printout of test results for data reports.
- **USB Communication Port and UVWIN8 Software (Optional):** Enables data processing, mapping functions, and storage of large data files. Also supports secondary development by customers.
- **Automatic Wavelength Setting:** Fast and accurate. Includes functions like

wavelength scanning (S model only), kinetic time scanning, automatic wavelength, linear regression, direct read-out of concentration, peak detection, and regular printing.

- **Advanced Power Shut-Down Protection:** Memorizes detected data, regression equation, and instrument correction parameters for fast initialization.
- **Tungsten Lamp and Deuterium Lamp:** Lifetime protection.

Specifications:

- **Model:** MSSPIUV4SWISS (Single beam)
- **Monochromator Type:** Czerny-Turner
- **Focal Length:** 160mm
- **Grating:** 1200 lines/mm
- **Detector:** Silicon photocell
- **Spectrum Bandwidth:** 2nm
- **Wavelength Range:** 190-1100nm
- **Wavelength Accuracy:** $\pm 1\text{nm}$
- **Wavelength Repeatability:** $\pm 0.5\text{nm}$
- **Photometric Range:**
 - %T: 0.0-200.0%
 - Absorbance (A): -0.301 to 4.000
 - Concentration ©: 0.000-9999
- **Photometric Accuracy:**
 - %T: $\pm 0.3\%$
 - Abs (0-0.5A): ± 0.002
 - Abs (0.5-1A): ± 0.004
- **Photometric Repeatability:**
 - %T: $\pm 0.15\%$
 - Abs (0-0.5A): 0.001
 - Abs (0.5-1A): 0.002
- **Stray Light:** $\pm 0.1\%$ T (at 220nm NaI, 360nm NaNO₂)
- **Noise:**
 - 100% (T): Noise $\pm 0.5\%$ (T)
 - 0% (T): Noise $\pm 0.2\%$ (T)
- **Drifting:** ± 0.002 Abs/30min (at 250nm and 500nm after 2h warm-up)

- **Electricity:** AC220V $\pm$ 22V, 50Hz $\pm$ 1Hz, 180W
- **Dimensions (LWH):** 475x365x200mm
- **Weight (N.W./G.W.):** 14kg/17.2kg
- **Shipping Dimensions (WDH):** 640x550x420mm

Standard Accessories:

- User Manual (1pc)
- Glass Cuvette 1cm (4pcs)
- Quartz Cuvette 1cm (2pcs)
- Power Cable (1pc)
- Fuse (2pcs)

Optional Accessories:

- Internal Thermal Printer
- UV WIN8 Spectrum Data Processing Software
- Cuvette Holder 50mm
- Cuvette Holder 100mm