

UV-Vis Spectrophotometer, Double Beam



Key Features of the Double Beam UV-Vis Spectrophotometer

1. **Advanced Optical System:** Utilizes a double beam optical system with a blazed holographic grating.
2. **High Precision and Competitive Pricing:** Offers exceptional test precision at a very competitive price point.
3. **User-Friendly Interface:** Features an 8-inch color touch-screen with a modern user interface, making it powerful yet easy to operate.
4. **Versatile Testing Capabilities:** Excels in both qualitative and quantitative testing, including:
 - o Full-spectrum scanning
 - o Linear regression
 - o Detailed spectrum scanning
 - o Direct concentration reading
 - o Time-based kinetics determination
 - o Peak/Valley detection
 - o GOTO ? function

- o Multi-wavelength measurement
- 5. **Robust Power Protection:** Equipped with a sophisticated power protection system and high internal memory capacity, allowing for fast initialization and storage of test results, scanned images, regression equations, and correction data.
- 6. **Printer Connectivity:** Can be connected to a dedicated printer to print test results and draw curves from spectral scanning, fixed wavelength time-based scanning, and linear regression.
- 7. **PC Connectivity:** Features a USB COM port for PC connection, enhancing data testing and spectrum scanning capabilities while expanding memory for additional test result storage.

Specifications

- **Model:** MSSPIUV7SWISS
- **Photometry:** Double Beam
- **Monochromator Type:** Czerny-Turner
- **Focal Length:** 160mm
- **Grating:** 1200 lines/mm
- **Detector:** Silicon Photocell
- **Spectrum Bandwidth:** 1.8nm
- **Wavelength Setting:** 8-inch color touch-screen
- **Wavelength Range:** 190-1100nm
- **Wavelength Accuracy:** $\pm 0.5\text{nm}$
- **Wavelength Repeatability:** $\pm 0.2\text{nm}$
- **Scanning Speed:** Fast-Medium-Slow
- **Stray Light:** $\pm 0.03\%T$ (at 220nm NaI, 360nm NaNO₂)
- **Photometric Range:** 0.0-200.0%T, -0.301-4.000A, 0.000-9999C
- **Photometric Accuracy:** $\pm 0.3\%T$, $\pm 0.002\text{Abs}$ (0-0.5A), $\pm 0.004\text{ Abs}$ (0.5-1A)
- **Photometric Repeatability:** $\pm 0.15\%T$, 0.001 Abs (0-0.5A), 0.002 Abs (0.5-1A)
- **Baseline:** $\pm 0.002A$ (200-1090nm)
- **Noise:** 100% (T) noise $\pm 0.15\%(T)$, 0% (T) noise $\pm 0.1\%(T)$
- **Drifting:** $\pm 0.0009\text{ Abs}/30\text{min}$ (250nm and 500nm after 2h warm up)
- **Power:** AC220V $\pm 22V$ 50Hz $\pm 1\text{Hz}$, 200W
- **Packaging Size:** 710mm $\times$ 590mm $\times$ 505mm, 0.21M³, 36kg

Standard Accessories

- Operation manual (1)
- Glass cuvette (1cm, 4pcs)
- Quartz cuvette (1cm, 2pcs)
- Power cable (1)
- Fuse (2pcs)

Optional Accessories

- UV WIN8 Spectrum data processing software