

UV-Vis Spectrophotometer, Double Beam



Double Beam UV Visible Spectrophotometer

The **Double Beam UV Visible Spectrophotometer** is vital for quality control, technical evaluation, and scientific research. It is extensively applied in fields such as susceptibility testing, medicine and health, biochemistry, environmental monitoring, commodity inspection, and petrochemical analysis.

Features

- **New Optical Platform:** Delivers excellent optical properties with low stray light and noise, ensuring high metering accuracy and stability.
- **Easy Operation & Reliable Performance:** Includes a USB communication port for seamless connectivity.
- **7-inch Color Touch-Screen:** Provides an intuitive user interface and effortless operation.
- **High-Quality Lamps:** Equipped with an imported long-life deuterium lamp and OSRAM tungsten lamp for optimal performance.
- **Advanced Lamp Installation System:** Automatically adjusts the light source to the best position, making replacement and maintenance accurate and safe.
- **Sophisticated Data Processing:** Capable of automatic scanning, multi-wavelength measurement, kinetic measurement, curve fitting, and derivative spectra analysis. Supports spectrum printing, storage, and data analysis.

Specifications

- **Model:** MSTQJVB201SWISS
- **Photometry:** Double beam
- **Monochromator Type:** Czerny-Turner
- **Focal Length:** 200mm
- **Grating:** 1600 lines/mm
- **Detector:** Silicon photocell
- **Spectrum Bandwidth:** 0.5nm, 1nm, 2nm, 4nm, 5nm
- **Wavelength Range:** 190–1100nm
- **Wavelength Accuracy:** $\pm 0.3\text{nm}$
- **Wavelength Repeatability:** $\pm 0.1\text{nm}$
- **Scanning Speed:** Fast, Medium, Slow
- **Stray Light:** $\pm 0.02\%T$ (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:**
 - $\pm 0.15\%T$
 - 0.001Abs (0–0.5A)

- 0.002Abs (0.5–1A)
- **Baseline:** $\pm 0.0008A$ (200–1090nm)
- **Sound Emission:**
 - 100%T: $\pm 0.1\%T$
 - 0%T: $\pm 0.02\%T$
- **Drifting:** $\pm 0.004Abs/h$ (250nm and 500nm after 2 hours warm-up)
- **COM Port:** USB
- **Light Source:** Hamamatsu D2 lamp, OSRAM tungsten halogen lamp
- **Power Requirements:** AC 220V $\pm$ 22V, 50Hz $\pm$ 1Hz, 200W
- **Weight:** Net: 34kg, Gross: 42.5kg
- **Product Dimensions (L×W×H):** 584 × 504 × 360 mm
- **Shipping Dimensions (L×W×H):** 730 × 630 × 450 mm

This spectrophotometer ensures precise measurements, robust performance, and advanced data processing capabilities, making it a reliable choice for diverse applications.