



SP UV Series

SP2000UV / SP4000UV — Single-Beam UV-Vis Spectrophotometry

The SP2000UV and SP4000UV are single-beam UV-Vis spectrophotometers built for laboratories that demand precise, reliable absorbance measurements across a broad spectral range. Both instruments share the same robust platform — dual tungsten and deuterium lamps, a silicon photodiode detector, 2 nm spectral bandwidth, and a 5-inch TFT color touchscreen — delivering a consistent, intuitive experience whether performing routine photometry or more demanding quantitative work.

Product Overview



SP2000UV

Single-beam UV-Vis

- 195–1050 nm UV-Vis range with dual tungsten and deuterium lamp system
- 2 nm spectral bandwidth with ± 0.8 nm wavelength accuracy (0.3 nm at 656.1 nm)
- Photometric accuracy of ± 0.003 A (0–0.5 A) for reliable routine measurements
- Low stray light (≤ 0.2 %T at 220 nm) for clean, accurate UV absorbance readings



SP4000UV

Single-beam UV-Vis

- 190–1100 nm extended UV-Vis range with dual tungsten and deuterium lamp system
- 2 nm spectral bandwidth with improved ± 0.5 nm wavelength accuracy (0.3 nm at 656.1 nm)
- Enhanced photometric accuracy of ± 0.002 A (0–0.5 A) for high-precision measurements
- Lower stray light (≤ 0.05 %T at 340 nm) for superior performance in demanding applications

Key Features

Dual-Lamp UV-Vis Coverage

Tungsten and deuterium lamps combine to deliver continuous spectral coverage across the full UV-Vis range, supporting everything from standard colorimetric assays to demanding UV absorbance measurements

High Photometric Precision

Exceptional photometric accuracy and repeatability — down to ± 0.002 A in the 0–0.5 A range on the SP4000UV — ensures confidence in results across routine and high-demand analytical workflows alike.

Low Noise, High Stability

RMS noise of ≤ 0.0001 A at 0.0 A and baseline drift of ≤ 0.002 A/h after preheating deliver the long-term signal stability needed for consistent, reproducible measurements throughout the working day.