



# SP3000 Spectrophotometer



The SP3000 Spectrophotometer is a precision-engineered, single-beam instrument designed for high-accuracy quantitative and qualitative analysis in professional laboratory settings. Integrating a robust optical system with an intuitive user interface and comprehensive connectivity, the SP3000 sets a new performance standard. Furthermore, the accompanying EasyUV software unlocks advanced analytical functions—including Quantitative Analysis, Kinetics, and Wavelength Scanning—providing centralized data storage, powerful spectral evaluation, and flexible data export for seamless integration into existing Laboratory Information Management Systems (LIMS).

## SP3000 Spectrophotometer

Optical system	Single Beam								
Light source	Tungsten lamp								
Spectral bandwidth	4 nm								
Calibration	Automatic self-calibration upon start-up								
Detector	Silicon photodiode								
Stray Light	$\leq 0.05\%T$ @ 340 nm (NaNO <sub>2</sub> )								
Photometric	<table><tr><td>Range</td><td>-0.3 ~ 3 A, 0 ~ 200 %T, 0 ~ 9999.9 C</td></tr><tr><td>Accuracy</td><td><math>\pm 0.002\text{ A}</math> @ 0.0 ~ 0.5 A, <math>\pm 0.004\text{ A}</math> @ 0.5 ~ 1 A, <math>\pm 0.5\%T</math> @ 0 ~ 100 %T</td></tr></table>	Range	-0.3 ~ 3 A, 0 ~ 200 %T, 0 ~ 9999.9 C	Accuracy	$\pm 0.002\text{ A}$ @ 0.0 ~ 0.5 A, $\pm 0.004\text{ A}$ @ 0.5 ~ 1 A, $\pm 0.5\%T$ @ 0 ~ 100 %T				
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Wavelength	<table><tr><td>Range</td><td>320 - 1100 nm</td></tr><tr><td>Accuracy</td><td><math>\pm 0.5\text{ nm}</math></td></tr><tr><td>Repeatability</td><td><math>\leq 0.2\text{ nm}</math></td></tr><tr><td>Setting</td><td>Automatic</td></tr></table>	Range	320 - 1100 nm	Accuracy	$\pm 0.5\text{ nm}$	Repeatability	$\leq 0.2\text{ nm}$	Setting	Automatic
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Setting	Automatic								
Blanking	Automatic blanking function								
Display	5 inch TFT color touchscreen								
Sample Compartment	10 mm 4-cell manual changer								
Interface	RS232 serial port x1 (printer), USB-Ax1 (USB storage), USB-Bx1 (PC)								
Storage	236 KB (built-in), unlimited expansion (USB storage)								
Power	100 ~ 240 V AC, 50/60 Hz, 75 VA								
Dimensions (W x D x H)	456 x 360 x 185 mm								
Weight	10.5 kg								

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laboratory instruments.

