

Technical Specifications

Specification	SP1000UV	SP3000UV
Optical System	Single Beam	
Light Source	Tungsten / Deuterium	
Spectral Bandwidth	4 nm	
Wavelength Range	195 ~ 1050 nm	190 ~ 1100 nm
Wavelength Accuracy	±0.8 nm (±0.5 nm @ 656.1 nm)	
Wavelength Repeatability	≤0.3 nm	≤0.2 nm
Wavelength Resolution	0.1 nm	
Wavelength Scanning Speed (max)	10,000 nm/min	
Wavelength Scanning Speed (variable)	—	20 ~ 4,200 nm/min
Photometric Range	-0.3 ~ 3 A, 0 ~ 200 %T, 0 ~ 9999.9 C	
Photometric Accuracy	±0.003 A (0.0~0.5 A), ±0.006 A (0.5~1 A), ±0.5 %T (0~100 %T)	±0.002 A (0.0~0.5 A), ±0.004 A (0.5~1 A), ±0.5 %T (0~100 %T)
Photometric Repeatability	≤0.002 A (0.0~0.5 A), ≤0.003 A (0.5~1 A), ≤0.2 %T (0~100 %T)	≤0.001 A (0.0~0.5 A), ≤0.002 A (0.5~1 A), ≤0.2 %T (0~100 %T)
Photometric Noise	≤0.0001 A @ 0.0 A (500 nm, RMS)	
Baseline Drift	≤0.002 A/h @ 500 nm (2h after preheat)	
Baseline Flatness	—	±0.002 A
Stray Light	≤0.2 %T @ 220 nm (NaNO ₂), ≤0.05 %T @ 220 nm (NaI)	≤0.05 %T @ 340 nm (NaNO ₂), ≤0.05 %T @ 220 nm (NaI)
Measurement Modes	Photometry, Quantitation	Photometry, Quantitation, Scanning
Detector	Silicon Photodiode	
Sample Compartment	10 mm 4-cell manual charger	
Display	5" TFT color touchscreen	
Data Storage	236 KB (built-in), unlimited via USB	
Interfaces	RS232 ×1 (printer), USB-A ×1, USB-B ×1 (PC)	
Power Supply	100 ~ 240 V AC, 50/60 Hz, 120 VA	
Dimensions (W×D×H in/mm)	18 x 14 x 17 / 456 x 360 x 185	
Weight (lbs/kg)	23.5 / 10.6	

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