UPRtek

UV100N

Handheld UV Spectrometer

↘ Specification

Spectrum	
Sensor	CMOS Linear Image Sensor
Wavelength Range	250 to 450 nm
Wavelength Data Increment	1 nm
Spectral Bandwidth	Approximately 1nm (Half Bandwidth)
Wavelength Reproducibility	± 0.8 nm
Measurement Range	UVA*1,4 : 315 to 400nm / 0.5 to 10,000 mW/cm^2 UVB*2,4 : 280 to 315nm / 0.5 to 8,000 mW/cm^2 UVC*3,4 : 250 to 280 nm / 0.5 to 6,000 mW/cm^2
Accuracy	10 to 5,000 mW/cm^2 : ± 3% 1 to 3,000 mW/cm^2 : ± 5% 0.5 to 1,000 mW/cm^2 : ± 8%
Stray Light	-25 dB max. *5
Integration Time Range	3 ms to 2,000 ms
Digital Resolution	16 bits
Feature	
Capture Function	One time / Continuous
Operation Mode	Standalone
Integration Mode	Auto / Manual
Dark Calibration	Auto
Measuring Modes	1. Basic Mode
	2. Spectrum Mode

	3. Logging Mode
	4. Browser Mode
	5. Option Mode
Measuring Capabilities	1. Spectral Irradiance (mW/m^2 , mW/cm^2)
	2. Joul (mJ/ cm^2)
	3. Peak Wavelength (λp)
	4. Peak Wavelength Value (λpV)
	5. Integration Time (I-Time)
	6. UVA Peak Wavelength (λa-p)
	7. UVA Peak Wavelength Value (λa-v)
	8. UVB Peak Wavelength (λb-p)
	9. UVB Peak Wavelength Value (λb-v)
	10. UVC Peak Wavelength (λc-p)
	11. UVC Peak Wavelength Value (λc-v)
System Configurations	
Display	4.3" 800X480 Capacitive Touch LCD
Max. Files	≒ 68,000 Files @ 8GB SD Card (Excel)
Battery Operation Time	≦ 3 hours / Fully Charged
Power	Adapter; 3200 mAh (3.7V Rechargeable Li-ion Battery)
Data Output Interface	MicroSD Card (SD2.0,SDHC / up to 32G)
Data Format	Compatible Excel
Operating Temperature / Humidity	5 to 35 ℃, relative humidity 70% or less without condensation
Storage Temperature / Humidity	-10 to 40 ℃, relative humidity 70% or less without condensation

*1：Processing the test under the 365nm LED light source.

*2：Processing the test under the 310nm LED light source.

*3：Processing the test under the 255nm LED light source.

*4：Temperature 23±2℃ and relative humidity 50% or less.

*5：Input the monochromatic light and measure the stray light ratio at ± 40nm.

The company reserves the right to change product specifications at any time without prior notice.