



UV100N

Handheld UV Spectrometer

▾ Specification

Spectrum	
Sensor	CMOS Linear Image Sensor
Wavelength Range	250 to 430 nm
Wavelength Data Increment	1 nm
Spectral Bandwidth	Approximately 1nm (Half Bandwidth)
Wavelength Reproducibility	± 0.8 nm
Measurement Range	UVA* ^{1,4} : 315 to 430nm / 0.25 to 500 mW/cm ² UVB* ^{2,4} : 280 to 315nm / 0.3 to 200 mW/cm ² UVC* ^{3,4} : 250 to 280 nm / 0.2 to 300 mW/cm ²
Accuracy	± 5% (10 to 500 mW/cm ²) ± 10% (0.2 to 10 mW/cm ²)
Stray Light	-25 dB max. * ⁵
Integration Time Range	1 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

Measuring Capabilities	4. Browser Mode
	5. Option Mode
	1. Spectral Irradiance (mW/m^2 , mW/cm^2)
	2. Joul (mJ/cm^2)
	3. Peak Wavelength (λ_p)
	4. Peak Wavelength Value (λ_{pV})
	5. Integration Time (I-Time)
	6. UVA Peak Wavelength (λ_{a-p})
	7. UVA Peak Wavelength Value (λ_{a-v})
	8. UVB Peak Wavelength (λ_{b-p})
	9. UVB Peak Wavelength Value (λ_{b-v})
10. UVC Peak Wavelength (λ_{c-p})	
11. UVC Peak Wavelength Value (λ_{c-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 °C, relative humidity 70% or less without condensation
Storage Temperature / Humidity	-10 to 40 °C, 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 $23 \pm 2^\circ\text{C}$ and relative humidity 50% or less.

*5 : Input the monochromatic light and measure the stray light ratio at $\pm 40\text{nm}$.

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