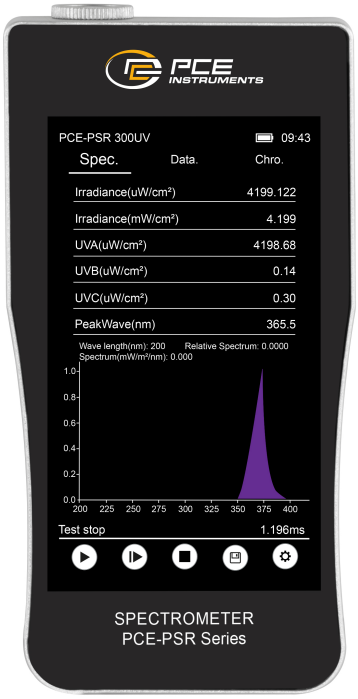
SPECTROMETER

PCE-PSR 300UV



- **UV-A, UV-B and UV-C light**
- **spectral resolution: ± 0.2 nm**
- **reproducibility: ± 0.5 nm**
- **wavelength: 200 ... 400 nm**
- **accuracy of the chromaticity coordinate (Δx, Δy): ±0.005**
- **capacitive 5-inch IPS touch screen**
- **rechargeable 4000 mAh lithium-ion battery**
- **8 GB internal memory**
- **PC software**

The UV Colorimeter is a high-precision meter for analysing UV-A, UV-B and UV-C radiation and offers exceptional measuring accuracy and versatility. With a measurement range of 0.1 to 500,000 µW/cm² and an accuracy of ±0.01 µW/cm², it is ideal for demanding applications in photobiology, material testing and UV protection analysis. The spectral resolution is ±0.2 nm, while the reproducibility is ±0.5 nm, which guarantees constant and reliable data acquisition.

In addition to precise UV radiation measurements, the device captures colour coordinates and spectral distributions with a chromaticity coordinate accuracy of ±0.005 (Δx, Δy). The Colorimeter is not only technically powerful but also designed to be user-friendly. The capacitive 5-inch IPS touch screen offers intuitive operation and ensures that all measurement data is clearly displayed, even in difficult lighting conditions. With the integrated rechargeable 4000 mAh lithium-ion battery, the Colorimeter guarantees long operating times so that even extensive measurements can be carried out without any problems. The internal memory of 8 GB offers sufficient space for a large amount of measurement data, which can be saved directly to the device.

PC software is available for seamless data processing and advanced analysis functions. This allows measured values to be easily transferred, analysed and archived.

Specification

Radiation	
Measuring range	0,1 ... 500000 µW/cm²
Resolution	0,001 µW/cm²
Accuracy	0.01 µW/cm²

General technical data	
Display Typ	LCD touchscreen
Display size	5 Inch
Display resolution	480 x 854
Storage medium	Internal memory
Storage capacity	8 GB
Memory capacity Additional information	approx. 5000 data records
Classification	Class A
Interface	USB, BLE switch
Operating time	20 h
Automatic shutdown adjustable	2 ... 60 min.
Reproducibility	±0.5 nm
Color spaces	CIE1931, CIE1960, CIE1976, SDCM, CRI1, CRI2, TM30 (Distribution of Fidelity), TM30 (Change Distribution), TM30 (Rg/Rf)
Wavelength range	200 ... 400 Nm
Light parameters	Irradiance (µW/cm²), Irradiance (mW/cm²), UV hazard Ee (µW/cm²), UVA (µW/cm²), UVB (µW/cm²), UVC (µW/cm²), PeakWave (nm), HalfWidth (nm), Dark signal, Peak signal, IntegTime (ms), Transmittance (%)
Menu language	English (US), Chinese, English (GB)
Protection class (device)	IP56
Power supply	100 ... 240V AC | 50/60 Hz
Connector type	Euro plug
Battery/battery	1 x 3,7 V intern , Lithium-ion battery
Battery capacity	4000 mAh
Operating conditions	-10 ... 40 °C , 70 %RH
Storage conditions	-20 ... 45 °C , 70 %RH
Dimensions (L x W x H)	160 x 82 x 22 mm
Weight	390 g