

## UV-3C Data Sampler

- + 3 channel
- + individual UV, UV-A, UV-B, UV-C measuring
- + UV intensity  $mW/cm^2$
- + UV dose  $mJ/cm^2$
- + wireless data acquisition
- + built-in sensors
- + 16 digits LCD display
- + parameter selection
- + auto scale function
- + free selectable Integral
- + high storage capacity
- + graphic charts on computer via ComPort
- + Microsoft Software
- + auto off



The UV-3C Data Sampler is a portable, Pocket-PC based UV-Data logger for UV Curing systems, UV Profile Analysing and 3D-UV Data Acquisition.

The following versions are available:

- 11.2. UV-3C Wireless Data Sampler      UV-A + UV-B + UV-C
- 11.2.1 UV-3C Wireless Data Sampler    UV-A + UV-B + UV-V\*

The UV-3C Data Sampler profiling ultraviolet radiometer system has been specifically designed to measure UV-radiation on high-end UV-curing printing market. Via ComPort stored data can be downloaded to a computer for further editing by Microsoft Evaluation Software. The measurement, integrating, and recording of data from all sensor channels takes place at user-defined intervals.

The UV-3C Data Sampler is equipped with three UV sensors for the individual measuring of UV-A, UV-B, UV-C. The UV-sensors contain a cosine corrected UV filter with a spectral range of 250 to 410 nm.

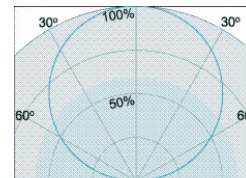


Fig. 12.1 Relative spatial response of an ideal cosine diffuser.

Special features are a ComPort and Microsoft software for the download of data to a computer.

The measured values are displayed on graphs as  $mW/cm^2$  and  $mJ/cm^2$ . The monitor displayed graphs shows the complete profile and offers zooming and auto scale functions. Peaks and Integrals are free selectable on screen and will be displayed as digital numbers

# THE WIDE RANGE OF UV - IR TECHNOLOGY

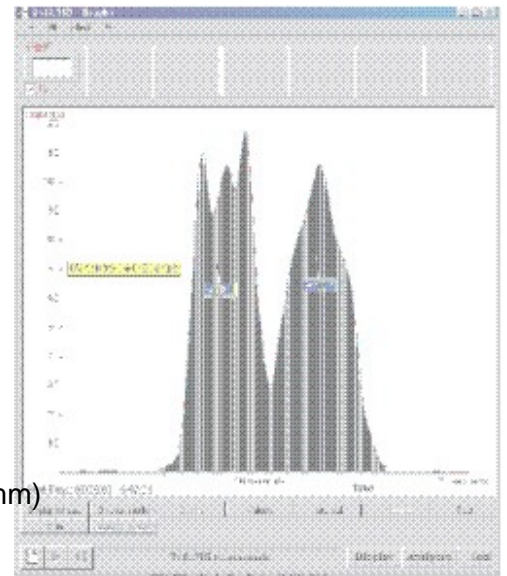
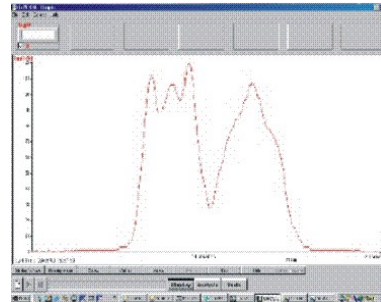


## UV-3C Data Sampler

The powerful Datalog 38 evaluation software is included and enables the user to synchronise the UV-3C Wireless Data Sampler with a PC via RS232/USB ComPort.

### Technical Data:

Spectral range:	UV 250 – 410 nm UV-A 315 – 400 nm UV-B 280 – 315 nm UV-C 230 – 280 nm UV-V 395 – 445 nm*
Measuring range:	0 to 5,000 mW/cm <sup>2</sup>
Dose range:	0 to 100,000 mJ/cm <sup>2</sup>
Dynamic range:	0 to 1,000 mW/cm <sup>2</sup>
Display:	LCD, 2x16 digits
Sample rate:	0.01 sec to 1 h
Recording time:	12 min to 300 days
Power source:	8 x 1.5 V rechargeable Battery
Power consumption:	20 µA
Battery service life:	2,000 hrs
Dimensions:	approx. 9" x 3.5" x 1" (225 x 90 x 25 mm)
Weight:	approx. 35 ounce (900 g)
Temperature range:	0 to 113° F / 0 to 45° C
Heat protection:	Heat shield on back plate
Base Accuracy:	± 5 %



While on the conveyer belt, the UV-3C Wireless Data Sampler can withstand max. 110° C / 230° F for up to 10 seconds. The temperature of the housing should not exceed 45° C / 113° F.

### Calibration:

In order to keep its full function and precision it is recommended to have re-calibration done once per year. Re-calibration will also be necessary after change of battery. PTB traceable calibration