

UV-T Data Sampler

- + 2 channel
- + UV intensity mW/cm^2
- + UV dose mJ/cm^2
- + temperature measuring
- + pass-through data acquisition
- + built-in sensors
- + computer programmable
- + parameter selection
- + auto scale function
- + free selectable Integral
- + graphic charts on PC via ComPort
- + result storing capability on PC via ComPort
- + Microsoft Evaluation Software
- + auto off



The UV-T Data Sampler is a portable, pass-through UV-Data logger for UV Curing systems, UV + Temperature Profile Analysing and 3D-UV Data Acquisition.

The following versions are available:

- 11.1.1 UV-T Wireless Data Sampler UV 230 – 410 nm
- 11.1.2 UV-T Wireless Data Sampler UV-A315 – 410 nm
- 11.1.3 UV-T Wireless Data Sampler UV-B280 – 315 nm
- 11.1.4 UV-T Wireless Data Sampler UV-C230 – 280 nm

The UV-T Data Sampler profiling ultraviolet + temperature radiometer system has been specifically designed to measure UV-radiation on high-end UV-curing printing market.

Via ComPort, it is connected to a PC in order to pre-select parameters for the measuring cycle. After passage of the UV light source(s) the recorded 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-T Data Sampler is equipped with one UV sensor and one temperature sensor.

The UV-sensor contains a cosine corrected UV filter with a spectral range of 250 to 410 nm.

Precise temperature measuring is made possible by a fast response temperature sensor.

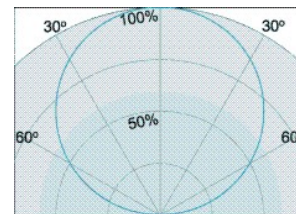


Fig. 12.1 Relative spatial response of an ideal cosine diffuser.

The sensors are on the back of the unit which also serves as a heat shield.

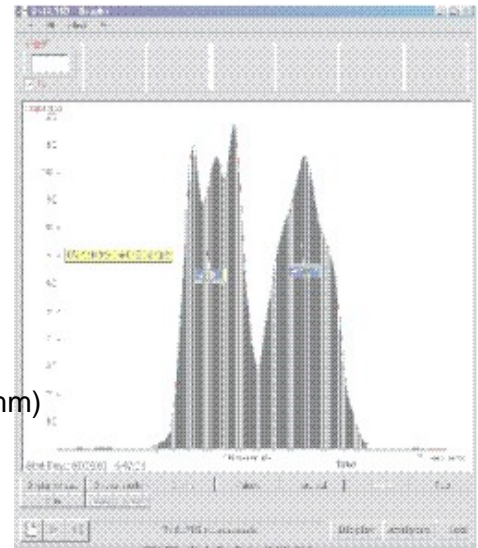
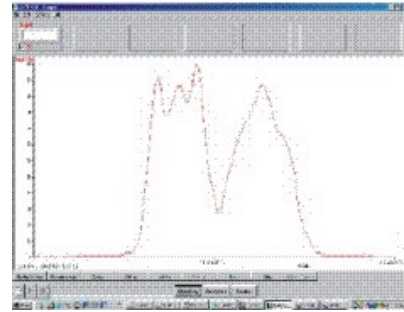
The measuring results are displayed on graphs as mW/cm^2 and mJ/cm^2 and $^{\circ}C / ^{\circ}F$. The monitor displayed graphs show the complete profile and offers zooming and auto scale functions. Peaks and Integrals are free selectable on screen and will be displayed as digital numbers

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

Technical Data:

Spectral range:	UV 250 – 410 nm (Standard)
Measuring range:	0 to 5,000 mW/cm ²
Measuring range:	0 to 230° F / 0 to 110° C
Dose range:	0 to 100,000 mJ/cm ²
Dynamic range:	0 to 1,000 mW/cm ²
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 x25 mm)
Weight:	approx. 35 ounce (900 grs.)
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-T Profiler-Full UV can withstand max. 110° C / 230° F for up to 10 seconds. The temperature of the housing should not exceed 45° /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