

# THE WIDE RANGE OF UV - IR TECHNOLOGY



## UV-T COLOR Wireless Data Sampler SD

- + 2 channel
- + individual UV-A, UV-B, UV-C or UV-V measuring\*
- + UV intensity  $mW/cm^2$
- + UV dose  $mJ/cm^2$
- + temperature measuring
- + wireless data acquisition
- + big high resolution color display
- + built-in sensors
- + auto scale function
- + free selectable Integral
- + SD-Memory Card Slot
- + high storage capacity
- + graphic and numeric charts on computer
- + Evaluation Software Sanchart
- + auto off



The UV-T Color Data Sampler SD is a portable UV-Data logging system for UV Curing systems, UV + Temperature Profile Analysing and 3D-UV Data Acquisition.

The following versions are available as a standard:

58.1.1 UV-T Color Wireless Data Sampler UV	230 – 410 nm
58.1.2 UV-T Color Wireless Data Sampler UV-A	315 – 410 nm
58.1.3 UV-T Color Wireless Data Sampler UV-B	280 – 315 nm
58.1.4 UV-T Color Wireless Data Sampler UV-C	230 – 280 nm

The UV-T Color Data Sampler SD profiling ultraviolet + temperature radiometer system has been specifically designed to measure UV-radiation on high-end UV-curing printing market. Measuring data are stored on an SD-Memory Card and can be downloaded to a computer for further editing by means of the Sanchart Evaluation Software.

The UV-T Color Data Sampler SD is equipped with one UV sensor for the individual measuring of either UV-A, UV-B, UV-C or UV-V. The UV-sensors contain 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.

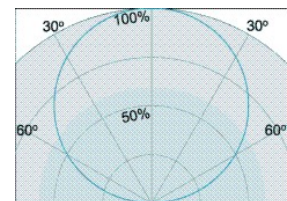


Fig. 12.1 Relative spatial response of an ideal cosine diffuser.

Special features are the two line LCD Display and a slot to accept SD-Memory Cards for storing data.

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

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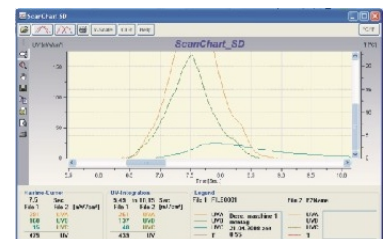
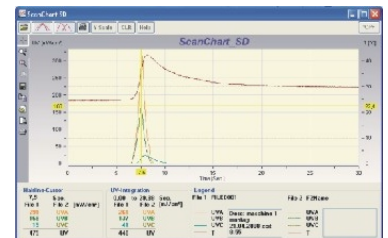
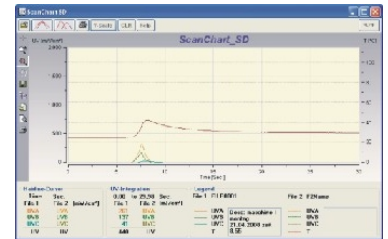


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The powerful Scanchart evaluation software is included and enables the user to display, edit and save all measuring data uploaded from the SD-Memory Card.

### Technical Data:

Spectral ranges:	UV 250 – 410 nm UV-A 315 – 410 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>
Measuring range:	0 to 230° F / 0 to 110° C
Dose range:	0 to 100,000 mJ/cm <sup>2</sup>
Dynamic range:	0 to 1,000 mW/cm <sup>2</sup>
Display:	TFT Colour Display, 45 x 34 mm (1.75" x 1.3")
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-T Color Wireless Data Sampler SD can withstand max. 110° C / 232° F for up to 10 seconds. The temperature of the housing should not exceed 45° C / 113°.

### 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

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