



UV-3C-T COLOR Wireless Data Sampler SD

- + 4 channel
- + individual UV-A, UV-B, UV-C and UV-V measuring
- + UV intensity mW/cm^2
- + UV dose mJ/cm^2
- + temperature measuring $^{\circ}C/^{\circ}F$
- + big high resolution color display
- + wireless data acquisition
- + built-in sensors
- + SD-Memory Card Slot
- + auto scale function
- + free selectable Integral
- + high storage capacity
- + graphic and numeric charts on computer
- + Evaluation Software Sanchart
- + auto off



The UV-3C-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:

- | | | |
|---------------|---|----------------------------------|
| 58.3. | UV-3C-T COLOR Wireless Data Sampler SD | UV-A + UV-B + UV-C + Temp |
| 58.3.1 | UV-3C-T COLOR Wireless Data Sampler SD | UV-A + UV-B + UV-V + Temp |

The UV-3C-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-3C-T COLOR Data Sampler SD is equipped with three UV sensors for the individual measuring of UV-A, UV-B, UV-C and 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.

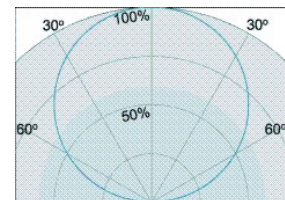


Fig. 12.1 Relative spatial response of an ideal cosine diffuser.

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

THE WIDE RANGE OF UV - IR TECHNOLOGY

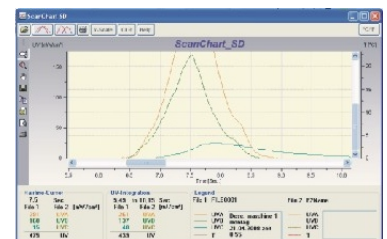
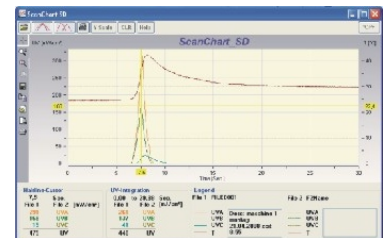
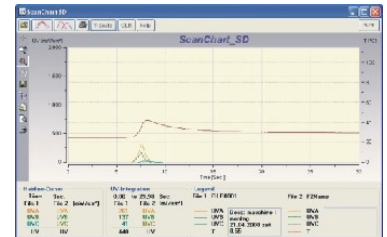


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The powerful Scanchart evaluation software is included and enables the user to display, edit and save all measuring data uploaded from the SD-Memory Card.

Technical Data:

Spectral range:	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 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
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-3C-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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