

UV-Microlog 08 SD

- + 8 channel
- + individual UV-A, UV-B, UV-C and UV-V measuring
- + UV intensity mW/cm^2
- + UV dose mJ/cm^2
- + temperature measuring $^{\circ}C/^{\circ}F$
- + 2 line LCD display
- + wireless data acquisition
- + up to 8 different built-in sensors
- + SD-Memory Card Slot
- + high storage capacity on SD
- + graphic and numeric charts on computer
- + Evaluation Software Scanchart
- + free selectable peaks and integrals on-screen
- + zooming, pan and synchronisation function on-screen
- + auto off



The UV-Microlog 08 SD is a portable UV-Data logging system for UV Curing systems, UV + Temperature Profile Analysing and 3D-UV Data Acquisition. According to the customers' individual requirements it can be equipped and configured with up to 8 different UV and/or temperature sensors for the individual measurement of:

UV-A	315 – 410 nm
UV-B	280 – 315 nm
UV-C	230 – 280 nm
UV-V	395 – 445 nm
Temp.	0 to 230° F / 0 to 110° C

The UV-Microlog 08 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 Scanchart Evaluation Software.

The UV-Microlog 08 SD is equipped with up to eight different 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.

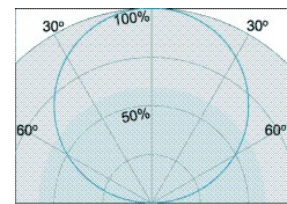


Fig. 12.1 Relative spatial response of an ideal cosine diffuser.

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

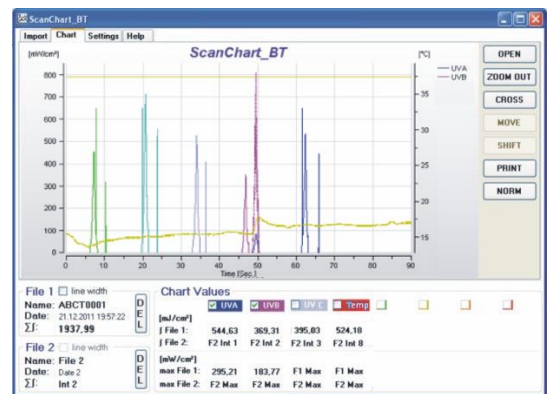
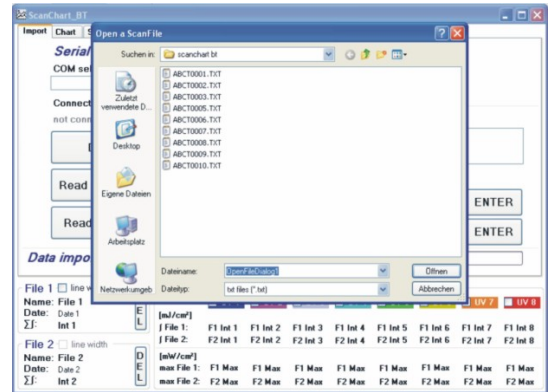
The measured values are displayed on graphs as mW/cm^2 and mJ/cm^2 and $^{\circ}C/^{\circ}F$. The monitor displayed graphs show the complete profile and offer zooming and auto scale functions. Peaks and Integrals are free selectable on screen and will be displayed as digital numbers

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The powerful Sanchart 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:	2 line
Sample rate:	0.02 sec
Recording time:	90 sec
Power source:	3.7 V rechargeable accu-cell
Power consumption:	60 µA
Accu service life:	1,000 charges
Dimensions:	approx. 4" x 6.5" x 1" (105 x 160 x 24 mm)
Weight:	approx. 36 ounce (1000 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-Microlog 08 SD 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. Ongoing, PTB traceable calibration with certificate