UV-3C Microlog 10

+ UV-A intensity mW/cm² + UV-A dose mJ/cm²
+ UV-B intensity mW/cm² + UV-B dose mJ/cm²
+ UV-C intensity mW/cm² + UV-C dose mJ/cm²
+ *UV-V intensity mW/cm² + UV-V dose mJ/cm²
+ Full UV intensity mW/cm² + Full UV dose mJ/cm²
+ Temperature °C/°F (option)
+ extra flat 10 mm / .4 inches
+ Permanent or triggered recording*
+ SD Memory Card
+ graphical and numerical display on a PC
+ re-chargeable accu-pack with charging unit

The ***UV-3C Microlog 10 with SD Memory card*** is a self-contained, high quality UV measuring instrument. It is designed to measure, record and display peak UV intensity, UV dosage and temperature in the UV curing process.

It is equipped with three different UV sensors and one temperature sensor for the individual measuring of

UV-A 315 – 410 nm
UV-B 280 – 315 nm
UV-C 230 – 280 nm
UV - 230 – 410 nm

With these three different UV-bands plus the total UV band, most of the measuring requirements of UV curing applications can be covered.
Due to its three different UV sensors and the integrated microprocessor the ***UV-3C Microlog 10 with SD Memory card*** can measure, record and display the peak of the UV-intensity (mW/cm^2) for each UV-band individually plus the peak of total UV energy.
Additionally, this UV-Integrator is calculating the UV-dosage (mJ/cm^2) of the UV energy supplied during the time of exposure of one measuring cycle. The UV-dosage is calculated for each UV-band (UV-A, UV-B and UV-C) individually and as total Integral of UV-dosage over all three UV-bands.
This allows to determine not only the total energy, but also how that energy is delivered, i.e., what intensity and dose at what UV-band.
Optionally, an extra sensor measures temperatures from 0 to 230° F / 0 to 110° C
*The ***UV-3C Microlog 10 with SD Memory card*** features a selectable „triggered mode“, i.e. the recording of the measuring starts first if the incident UV-intensity exceeds 2 mW/cm².
The four sensors are on the back of the unit which also serves as a heat shield. After completion of the measuring cycle all measuring results can be scrolled through on the built in 2 x 16 digit LCD display.
A special AUTO-OFF feature that turns off the unit automatically after one minute serves as energy saving and extension of the battery service life.

This microprocessor integrator is additionally equipped with a Card Slot for the use of SD-Memory Cards. All measuring data of a measuring cycle are stored to the SD-Memory card with an identifying file name. The number of storable measuring files depends on the capacity of SD-Memory Card. Data can be loaded to a PC for further editing. The special evaluation software allows to show, edit and store a history of the measuring results of the entire measuring cycle as graphic charts (mW/cm^2) and (mJ cm^2) and (°C/°F)

Item 66.2. UV-3C Microlog 10 (UV-A, UV-B, UV-C)
Item 66.2.1 UV-3C Microlog 10 (UV-A, UV-B, UV-V)

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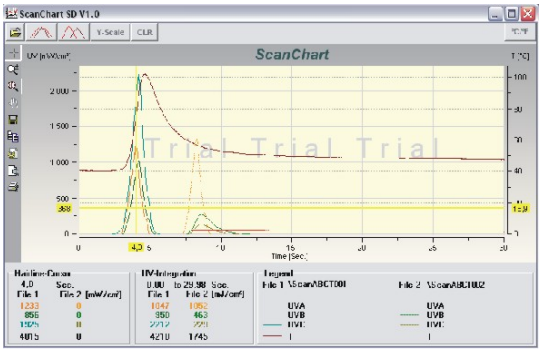
UV-3C Microlog 10

Technical Data:

Spectral ranges:	UV-A 315 – 410 nm UV-B 280 – 315 nm UV-C 230 – 280 nm (or UV-V 395 – 445 nm) UV 230 – 410 nm
Temperature range:	32 to 230° F / 0 to 115° C (option)
Max. Power Input	0 to 5,000 mW/cm^2
Measuring range:	0 to 2,000 mW/cm^2
Sampling rate:	0.005 sec (200/sec)
Recording cycle:	30 sec.
Readiness phase:	120 sec.
Display range:	0 to 36,000 mJ/cm^2
Display:	LCD, 2 x 16 digits
Power source:	2 x 3.7 V LiPO Accu Cells
Power consumption:	20 µA
Battery service life:	1,000 re-charging cycles
Dimensions:	115 x 65 x 10 mm (4.5 x 2.4 x 0.4”)
Weight:	approx. 6 ounce (170 g)
Operating temperature:	32° to 113° F / 0 to 45° C
Heat protection:	Heat shield on back plate
Base Accuracy:	± 5 %

Graphic Chart:

With SD Card slot.
Stores data to an SD-Memory card
For transmission to a computer



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

Because of uneven radiation distribution of the UV light source and different type of construction of the measuring devices by different manufacturers, different readings may appear under the same measurement conditions.

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 acc. to DIN EN ISO / IEC 17025 with certificate

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