

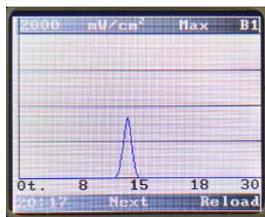
## UV-4C-T Microlog SD Colour TFT

- + UV-A intensity  $mW/cm^2$  + UV-A dose  $mJ/cm^2$
- + UV-B intensity  $mW/cm^2$  + UV-B dose  $mJ/cm^2$
- + UV-C intensity  $mW/cm^2$  + UV-C dose  $mJ/cm^2$
- + UV-V intensity  $mW/cm^2$  + UV-V dose  $mJ/cm^2$
- + Full UV intensity  $mW/cm^2$  + Full UV dose  $mJ/cm^2$
- + temperature measuring  $^{\circ}C / ^{\circ}F$  (Option)
- + big colour graphic display
- + numerical and graphical display
- + permanent or „triggered“ measuring mode\*
- + pre-selectable scan-time
- + SD Memory Card
- + real-time clock
- + graphic chart on computer
- + re-chargeable accu cells with charger

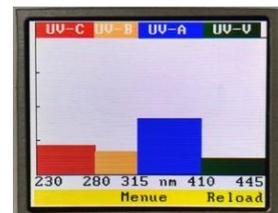


The **UV-4C-T Microlog SD Colour TFT Radiometer + Dosimeter** is a self-contained, high quality UV measuring instrument. It is designed to measure and record UV intensity and UV dosage in the UV curing process. Measuring results are indicated both, graphically and numerically on a big colour display.

It is equipped with four different UV sensors plus one temperature sensor for the individual measuring of



UV-A	315 – 410 nm
UV-B	280 – 315 nm
UV-C	230 – 280 nm
UV-V	395 – 445 nm
Temp 32 to 230° F / 0 to 110° C	



With these four different UV-bands plus the temperature measuring most of the measuring requirements of UV curing applications can be covered.

Due to its four different UV sensors and the integrated microprocessor the **UV-4C-T Microlog SD Colour TFT Radiometer + Dosimeter** 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 instrument 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, UV-C and UV-V) individually and as total Integral of UV-dosage over the full UV-range. 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.

\*This instrument features a selectable „triggered mode“, i.e. the 30 sec recording cycle starts within a 120 second readiness phase not before the incident UV-intensity exceeds  $2 mW/cm^2$ .

Additionally it is equipped with an extra sensor for measuring temperatures from 0 to 230° F / 0 to 110° C.

The five sensors are on the back of the unit which also serves as a heat shield. After completion of the measuring cycle the measuring results are instantly displayed numerically and graphically auto-scaled on the built in 45 x 34 mm (2 1/2") TFT colour 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 Radiometer + Dosimeter is equipped with an SD-Memory Card Slot and an evaluation software for downloading the data to a computer to show, edit and store a history of the measuring results of the entire measuring cycle as graphic charts ( $mW/cm^2$ ) and ( $mJ/cm^2$ )

### Item 20.8. UV-4C-T Microlog SD Colour TFT Radiometer + Dosimeter, UV-A + UV-B + UV-C + UV-V + Temp

Subject to change without prior notice © 2018-01

UV-DESIGN Edgar Höhn GmbH  
Geschäftsführer Edgar Höhn  
Amtsgericht Hanau: HRB 96948  
VAT-ID No.DE814427103

(Office & Workshop)  
Fabrikstrasse 12  
63636 Brachtal  
GERMANY

Tel.: +49 (0)6053 8095431  
Fax: +49 (0)6053 8095433

## UV-4C-T Microlog SD Colour TFT

### Technical Data:

Spectral ranges:	UV-A 315 – 410 nm UV-B 280 – 315 nm UV-C 230 – 280 nm UV-V 395 – 445 nm
Temperature range:	32-230° F / 0-110° C
Max. Power Input	0 to 5,000 mW/cm <sup>2</sup>
Measuring range:	0 to 2,000 mW/cm <sup>2</sup>
Sampling rate:	0.01 sec (100/sec)
Recording cycle:	30 – 400 sec. (pre-selectable)
Readiness phase:	450 sec. (trigger time)
Display range:	0 to 36,000 mJ/cm <sup>2</sup>
Display:	TFT Colour Display, 45 x 34 mm (2 1/2")
Power source:	3.7 V LiPO Accu , 800 mA
Power consumption:	80 µA
Accu service life:	1,000 re-charging cycles
Dimensions:	approx. 2.5" x 6" (65 x 140 mm), height .5" (13 mm)
Weight:	approx. 10 ounce (310 g)
Operating temperature:	32° to 113° F / 0 to 45° Celsius
Heat protection:	Heat shield on back plate
Base Accuracy:	± 5 %

While on the conveyer belt, the **UV-4C-T Microlog SD Colour TFT Radiometer + Dosimeter** can withstand max. 230° F / 110° C for up to 10 seconds. The temperature of the housing should not exceed 113° F / 45° C.

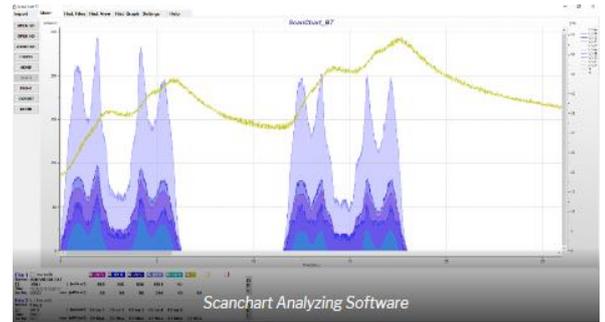
Because of uneven radiation distribution of the UV light source and different type of construction of the measuring devices by different manufacturers, different readings may appear under the same measurement conditions.

### 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 with certificate

### Special Feature:

Stores data on SD-Memory Card for the download of data to a Computer



sample display on PC