

## UV-1350 Colour RE UV-3C SD

- + 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\*
- + SD Memory Card
- + real-time clock
- + graphic chart on computer
- + re-chargeable accu cells with charger

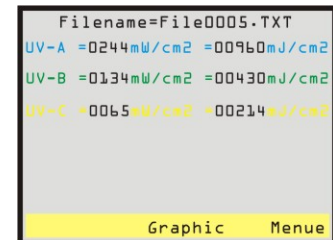


The **UV-1350 Colour RE Radiometer + Dosimeter SD** is a self-contained, high quality UV measuring instrument. It is designed to measure and record UV intensity and UV dosage in the UV curing process. Measuring results are indicated both, graphically and numerically on a big colour display.

It is equipped with three 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\*  
UV - 230 – 410 nm

Temp 32 to 230° F / 0 to 110° C (Option)



With these three different UV-bands plus the temperature sensor 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-1350 Colour RE Radiometer + Dosimeter SD** 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 or 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  $2 mW/cm^2$ .

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

The 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 65.2. **UV-1350 Colour RE UV-3C SD, UV-A + UV-B + UV-C**

Item 65.2.1. **UV-1351 Colour RE UV-3C SD, UV-A + UV-B + UV-V**

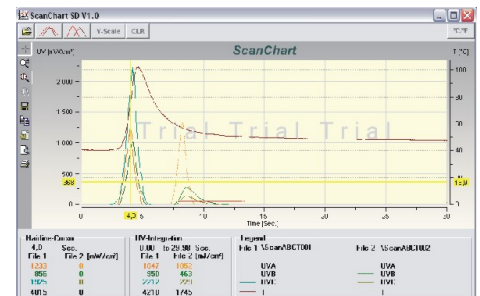
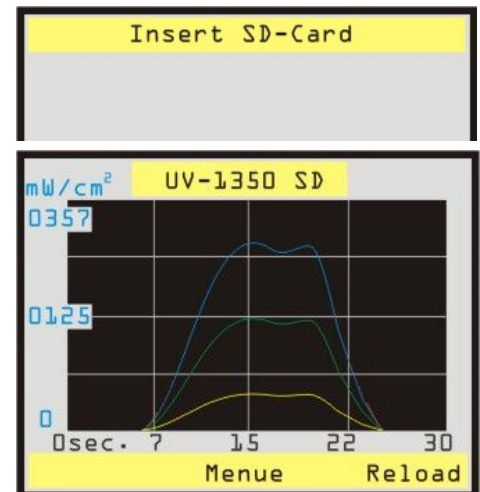
## UV-1350 Colour RE UV-3C SD

### 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:	0.02 sec (50/sec)
Recording cycle:	30 sec.
Readiness phase:	120 sec.
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
Power consumption:	80 µA
Accu service life:	1,000 re-charging cycles
Dimensions:	approx. 4" x 6.5" (105 x 165 mm), height .55" (14 mm)
Weight:	approx. 17.5 ounce (500 g)
Operating temperature:	32° to 113° F / 0 to 45° Celsius
Heat protection:	Heat shield on back plate
Base Accuracy:	± 5 %

### Special Feature:

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



Graphical display on PC

While on the conveyer belt, the **UV-1350 Colour SD Radiometer + Dosimeter RE** 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

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