

UV-1200 Colour RE UV-2C

+ choice of a combination of two different spectral ranges:

are indicated both, graphically and numerically on a big colour display.

Equipped with two different UV sensors for the individual measuring of a combination of:

- + UV-A intensity mW/cm² + UV-V dose mJ/cm²
- + UV-B intensity mW/cm² + UV-V dose mJ/cm²
- + UV-C intensity mW/cm² + UV-A dose mJ/cm²
- + UV-V intensity mW/cm² + UV-V dose mJ/cm²
- + temperature measuring °C/°F (option)
- + big colour graphic display
- + numerical and graphical display
- + permanent or "triggered" measuring mode*
- + SD Memory Card (Option)
- + real-time clock
- + graphic chart on computer
- + re-chargeable accu cells with charger

The UV-1200 Colour RE Radiometer + Dosimeter is a self-contained, high quality UV measuring instrument. It is designed to measure and record UV intensity, UV dosage and temperature in the UV curing process. Measuring results Filename=File0005.TXT JV-A =0244mW/cm2 =00960mJ/cm2 UV-B =0134mW/cm2 =00430mJ/cm2

Graphic

Menue

UV-A 315 - 410 nm UV-B 280 - 315 nm UV-C 230 - 280 nm UV-V 395 – 445 nm UV - 230 - 410 nm

With these two different UV-bands many of the measuring requirements of UV curing applications can be covered. Due to its two different UV sensors and the integrated microprocessor the UV-1200 Colour RE Radiometer + Dosimeter can measure, record and display the peak of the UV-intensity (mW/cm²) for each UV-band individually plus the peak of total UV energy.

Additionally, this instrument is calculating the UV-dosage (mJ/cm²) 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 or UV-V) 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 available with an extra sensor for measuring temperatures from 0 to 230° F / 0 to 110° C.

*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/cm².

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 (1.75" x 1.3") 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 can optionally be 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/cm2) and (mJ/cm2) and (°C/°F)

The following versions are available as a standard :

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64.5.1. UV-1201 Colour RE UV-2C, UV-A + UV-V
64.5.2. UV-1202 Colour RE UV-2C. UV-A + UV-B
64.5.3. UV-1203 Colour RE UV-2C, UV + UV-A
64.5.4. UV-1204 Colour RE UV-2C, UV + UV-B
64.5.5. UV-1205 Colour RE UV-2C, UV + UV-V
64.5.6. UV-1206 Colour RE UV-2C, UV-B + UV-V
64.5.7. UV-1207 Colour RE UV-2C, UV-C + UV-V
64.5.8. UV-1208 Colour RE UV-2C, UV-C + UV-A
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UV-1200 Colour RE UV-2C

Technical Data:		Optional Feature:		
Spectral ranges: Available:	UV-A 315 – 410 nm UV-B 280 – 315 nm UV-C 230 – 280 nm UV-V 395 – 445 nm*	Stores data on SD-Memory Card for the download of data to a Computer		
Temperature range:	32-230° F / 0-110° C			
Max. Power Input	0 to 5,000 mW/cm ²			
Measuring range:	0 to 2,000 mW/cm ²			
Sampling rate:	0.02 sec (50/sec)	mW/cm ² 0357	UV-1200	
Recording cycle:	90 sec.			
Readiness phase:	120 sec.	0125		
Display range:	0 to 36,000 mJ/cm ²			
Display:	TFT Colour Display, 45 x 34 mm	(2 1/2") Osec.	7 15 22 30	
Power source:	3.7 V LiPO Accu		Menue Reload	
Power consumption:	80 μΑ	l⊒∕ ScanChart SD V1.0		
Accu service life:	1,000 re-charging cycles	Contraction of the second seco	Image: Second content Training Image:	
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	Option:	Graphical display on PC	
Base Accuracy:	±5%			

While on the conveyer belt, the *UV-1200 Colour RE 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

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