

## UV Control 4C TFT, 4CT TFT, 4C LED TFT, 4CT LED TFT

## Integrator for measuring UV intensity and dose plus temperature\*

- intensity in mW + Dose in mJ for UV-A, -B -C, VIS, UV-LED (UV Control 4C LED)
- full UV intensity in mW/cm<sup>2</sup> + Dose in mJ/cm<sup>2</sup>
- temperature in °C / °F (UV Control 4CT)
- storage of all measured values on SD card
- colour display for graphical and numerical display of the measured values
- PC software with many user-friendly features

The UV Control Microprocessor Integrator is a UV multi-channel-measuring instrument for curing applications. It is designed to measure, record and display peak UV intensity, UV dosage and temperature.

Due to its different UV diodes and the integrated microprocessor the UV Control can measure, record and display the peak of the UV intensity for each UV band individually. Additionally, this UV-Integrator is calculating the uv dosage of the uv energy supplied during the time of exposure of one measuring cycle for each uv bandwidth separately. 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. The sensors are on the reverse side 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 TFT colour display.





The readings are stored on the included SD card and can be downloaded to a PC, edited and stored, e.g. to document a diagram based on the measured values history of a UV lamp through graphics. A simple data export to spreadsheet programs is possible.

The LED version of the UV control has switchable measuring ranges to measure either UV medium pressure lamps (up to 2000 mW/cm) or UV LEDs (up to 20 W/cm).





Technical data							
Measuring range	2 to 2,000 mW/cm <sup>2</sup> (UV-A, -B, -C, -Vis)						
	20 to 20,000 mW/cm <sup>2</sup> (= 20 W/cm <sup>2</sup> ) (UV LED)						
Sampling rate	10 msec (100 measurements / sec.)						
Recording cycle	30 to 400 sec. (selectable)						
Accuracy	± 5%						
Display	TFT colour display 40 x 31,5 mm						
Power source	LiPo rechargeable battery, charging via USB cable						
	auto-off after 1 ninute						
Dimensions / weight	140 x 65 x 12 mm / approx. 230g						
Temperature range	0 to 110° C / 32 to 230° F (UV Control 4CT)						
Operating temperature	0 to 45° C / 32° to 113° F, abient temp.max. 110 °C / 230 ° F for 10s						
Memory card	SDHC (SD 2.0; 432 GB)						
Scope of delivery	UV Control; plastic case, built in LiPo rechargeable battery, USB able (2m),						
	PC software, SD card, manual, calibration certificate						
Calibration	Calibration is conform to DIN EN ISO/IEC 17025 and can be traced back to						
	PTB (Phys. Technische Bundesanstalt). Each UV Control Integrator is						
	certified.						

## Software for PC (scope od delivery): Examples of some functions





Example 2:



## Example 3:

k	🔆 ScanChart	BT	-0/0		1.5			1 I.S.		B1 -										
	Import	Chart	History Files	History \	/iew S	Settings	He	p												
	Date \	[mW/cm <sup>2</sup> ]		L1 UV-A	L1 UV-B	L1 UV-C	L1 UV-V	L2 UV-A	L2 UV-B	L2 UV-C	L2 UV-V	L3 UV-A	L3 UV-B	L3 UV-C	L3 UV-V	L4 UV-A	L4 UV-B	L4 UV-C	L4 UV-V	
	17.06.20	14 16:07:57	UV4C0595.TX1	62	68	82	143	62	64	78	76	111	92	123	59	74	47	45	4	

'History View' - Tabular view of peak values of all UV lamps. The UV lamp (L1 to L4, i.e. 4 UV lamps) are automatically separated. The irradiance values are listed individually for each bandwidth. This facilitates the evaluation on machines where multiple UV lamps are operated simultaneously.