

UV-Cube Logger



- + 3D measuring
- + UV-intensity mW/cm^2
- + UV-dose mJ/cm^2
- + triggered or standard mode
- + LCD display
- + temperature $^{\circ}C/^{\circ}F$ (option)
- + SD Memory Card
- + graphic chart on computer
- + re-chargeable accu cell

The *UV-Cube Logger* is a self-contained, high quality UV measuring instrument. It is designed to measure, record and display peak UV intensity and UV dosage in the UV curing process.

In the standard version it is equipped with one UV sensor for the measuring of:

Full UV 230 – 410 nm

With this total UV band peak intensity and dose measuring, most of the measuring requirements of UV curing applications can be covered.

Due to its UV sensor and the integrated microprocessor the *UV-Cube Logger* can measure, record and display the peak UV-intensity of the total UV spectrum (mW/cm^2).

Additionally, this *UV-Cube Logger* 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 as the total Integral of UV-dosage over the full UV spectral bands.

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

*This Datalogger 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 .

The sensor is on one side of the unit, while the display is on the opposite side. After completion of the measuring cycle the 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 *UV-Cube Logger* is additionally equipped with an SD-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)

The *UV-Cube Logger* is available in six different measuring ranges:
(Please state upon order)

Item 53.1.1 UV-Cube Logger, Type 1 Diazo	350 – 460 nm
Item 53.1.2 UV-Cube Logger, Type 2 UV-A	315 – 400 nm
Item 53.1.3 UV-Cube Logger, Type 3 UV	230 – 410 nm (Standard)
Item 53.1.4 UV-Cube Logger, Type 4 UV-B	280 – 315 nm
Item 53.1.5 UV-Cube Logger, Type 5 UV-C	230 – 280 nm
Item 53.1.6 UV-Cube Logger, Type 6 UV-V	395 – 445 nm

Also available with 2, 3 or 4 sensors and temperature measuring
+ further spectral ranges upon request

UV-2C Cube Logger

Technical Data:

Spectral ranges:	UV-A 315 – 410 nm UV-B 280 – 315 nm UV-C 230 – 280 nm UV-V 395 – 445 nm UV 230 – 410 nm
Max. Power Input	0 to 5,000 mW/cm ²
Display:	LCD, 2x16 digits
Display range:	0 to 36,000 mJ/cm ²
Measuring range:	0 to 2,000 mW/cm ²
Sampling rate:	0.01 sec (100/sec)
Measuring period:	90 sec.
Readiness phase:	120 sec.
Power source:	7.2 V NiMH Accu-Pack, 70 mA, re-chargeable
Power consumption:	20 µA
Battery service life:	1,000 charging cycles
Dimensions:	2.4" x 2.4" x 2.4" (60 x 60 x 60 mm)
Weight:	approx. 17.5 ounce (500 g)
Operating temperature:	0 to 113° F / 0 to 45° C
Heat protection:	Heat shield
Base Accuracy:	± 5 %

While on the conveyer belt, the *UV-2C Cube Logger* 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

+ available up to 20W/cm²

+ available with high speed sampling rate 0.0007s (1400/s)

Subject to change without prior notice © 2014-01

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

