

UV-T Integrator 120-10 SD special LED versions available

- + UV-intensity mW/cm²
- + UV-dose mJ/cm²
- + triggered or standard mode
- + LCD display
- + temperature °C/°F (option)
- + SD Memory Card
- + graphic chart on computer
- + re-chargeable accu cell
- + further spectral ranges upon request
- + available up to 20W/cm2
- + available with high speed sampling rate 0.0007s(1400/s)
- + 4.75" (120 mm), height .4" (10 mm)



The UV-T Integrator 120-10 SD is a self-contained, high quality UV measuring instrument. It is designed to measure, record and display peak UV intensity, UV dosage and temperature in the UV curing process. Thank to its special dimensions it is particularly suitable for the CD and DVD production

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

Full UV 230 – 400 nm Temp 32° to 230° F / 0° to 110° C

With this total UV band measuring and an extra temperature measuring, most of the measuring requirements of UV curing applications can be covered.

Due to its UV sensor and the integrated microprocessor the UV-T SD can measure, record and display the peak UV-intensity of the total UV spectrum (mW/cm²).

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

An extra sensor measures temperatures from 32° to 230° F / 0° to 110° C

*This Microprocessor Integrator 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 two sensors are on the back 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 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 microprocessor integrator is additionally equipped with an SD Memory Card Slot. All measuring data are stored and can be downloaded to a computer. The special evaluation software allows to show, edit and store a history of the measuring results of the entire measuring cycle as graphic and numeric charts (mW/cm²) and (mJ cm²) and (°C/°F)

The UV-T Integrator 120-10 SD is available in six different measuring ranges:

(Please state upon order)

Item 73.3.1 UV-T Integrator 120-10 SD, Type 1 Diazo	350 – 460 nm
Item 73.3.2 UV-T Integrator 120-10 SD, Type 2 UV-A	315 – 400 nm
Item 73.3.3 UV-T Integrator 120-10 SD, Type 3 UV	230 – 410 nm
Item 73.3.4 UV-T Integrator 120-10 SD, Type 4 UV-B	280 – 315 nm
Item 73.3.5 UV-T Integrator 120-10 SD, Type 5 UV-C	230 – 280 nm
Item 73.3.6 UV-T Integrator 120-10 SD, Type 6 UV-V	395 – 445 nm

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^{*}also available in other spectral ranges upon request



UV-T Integrator 120-10 SD

Technical Data:

Spectral range: UV 230 – 410 nm (Standard)

Max. Power Input 0 to 2,000 mW/cm²

Measuring range: 0 to 230° F / 0 to 110° C

Display: LCD, 2x16 digits

Display range: 0 to 36,000 mJ/cm²

Measuring range: 0 to 2,000 mW/cm²

Sampling rate: 0.01 sec (100/sec)

Recording cycle: 90 sec.

Readiness phase: 120 sec.

Power source: 3.7 V LiPO Accu

Power consumption: 20 µA

Accu service life: 1,000 re-charging cycles

Dimensions: Ø 4,75" (120 mm), height .4" (10 mm)

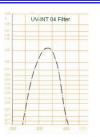
Weight: approx. 10 ounce (300 g)

Operating temperature: 32 to 113° F / 0 to 45° C

Heat protection: Heat shield on back plate

Base Accuracy: ± 5 %

In the standard version it is measuring an integral in the spectral range from 230-400 nm, with a peak at the area of 330 nm.

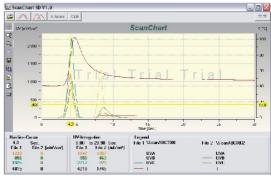


Special Feature:

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







While on the conveyer belt, the UV-T Integrator 120-10 SD 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

*also available up to 20 W/cm², display resolution in relation to maximum power input *also available with high-speed sampling rate 0.0007 (1400/sec)

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