

UV Tube

UV integrator for measuring UV intensity, UV dose and temperature

Features

- Several UV ranges are measured separately
- Measurement of UV intensity and UV dose
- Calibration acc. to DIN EN ISO / IEC 17025; traceable to PTB
- High sampling rate for fast running machines

Advantages

- Detailed examinations thanks to several UV diodes
- Ease of use
- Software with numerous functions
- csv data export
- Compact design
- Low weight (51 g)

UV Tube

UV integrator

The UV Tube 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 device can measure, record and display the peak of the UV intensity for each UV spectral range 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 spectral range 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 spectral range.

Application

The sensor has to be fixed in a dummy provided by the customer during the run. The small dimensions and extremely low weight allow UV measurements under realistic conditions.

Operation

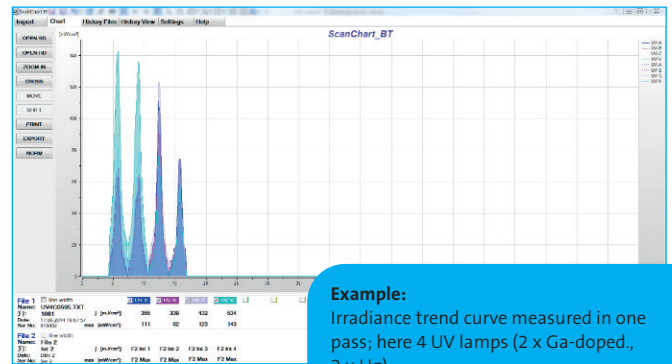
The measured values are stored on the enclosed Micro SD card and can be loaded onto a PC, edited and also stored there, e.g. to document a lamp history based on the measured values. Data export to spreadsheet programs is possible.

Delivery

The UV Tube is supplied with SD card and software, instruction manuals and calibration certificate in a plastic case.

Technical data

Spectral measuring ranges					
C	B	A			UV Tube 3C
C	B	A		Temp	UV Tube 3CT
C	B	A	Vis		UV Tube 4C
Spectral ranges					
UV-A	315 – 410 nm		UV-B	280 – 315 nm	
UV-C	230 – 280 nm		UV-VIS	395 – 445 nm	
UV Full	250 – 410 nm (calculated with -A, -B, -C)				
Temperature range					
0 to 110° C / 32 to 230° F (UV Tube 3CT)					
Housing					
Aluminium housing. The housing must be protected from strong UV light and heat, e.g. by a suitable support or light shield.					
Measuring ranges		1 to 2,000 mW/cm ²			
Sampling Rate		5 msec (200/sec)			
Max. ambient temperature		110° C for 10 sec.			
Power source		LiPo-Akku			
Dimensions / Weight		Ø25mm, L=60mm / approx. 55g			
Protection class		IP20			





Disinfection

Drying

Curing

Control

Measuring








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