

THE WIDE RANGE OF UV - IR TECHNOLOGY



UV-1060 Colour ComPort Radiometer + Dosimeter

- + UV-intensity mW/cm^2
- + UV-dose mJ/cm^2
- + temperature measuring $^{\circ}C/^{\circ}F$
- + big colour graphic display
- + numerical and graphical display
- + permanent or „triggered“ measuring mode*
- + USB ComPort



The **UV-1060 Colour ComPort 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 are indicated both, graphically and numerically on a big colour display.

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

Full UV spectral area 230 – 410 nm
Temp 32 to 230° F / 0 to 110° C

Due to its UV sensor and the integrated microprocessor the **UV-1060 Colour ComPort Radiometer + Dosimeter** can measure, record and display the peak UV-intensity of the total UV spectrum (mW/cm^2). Additionally, this instrument 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.

With an extra sensor for measuring temperatures from 32 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/cm^2 .

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.

The **UV-1060 Colour ComPort Radiometer + Dosimeter** comes with an USB ComPort 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-1060 Colour ComPort Radiometer + Dosimeter** is available in five different measuring ranges:

(Please state upon order)

Item 63.3.1 UV-1061 Colour ComPort Radiometer + Dosimeter Diazo	350 – 460 nm
Item 63.3.2 UV-1062 Colour ComPort Radiometer + Dosimeter UV-A	315 – 400 nm
Item 63.3.3 UV-1063 Colour ComPort Radiometer + Dosimeter UV	230 – 410 nm
Item 63.3.4 UV-1064 Colour ComPort Radiometer + Dosimeter UV-B	280 – 315 nm
Item 63.3.5 UV-1065 Colour ComPort Radiometer + Dosimeter UV-C	230 – 280 nm

Subject to change without prior notice © 2007-08

UV-IR TECHNOLOGY

Talstr. 37 * D-63128 Dietzenbach * Germany
Tel. +49(0)6074 483079 Fax +49(0)6074 483078
www.uv-ir-technology.de * mail: info@uv-ir-technology.de

THE WIDE RANGE OF UV - IR TECHNOLOGY



UV-1060 Colour ComPort Radiometer + Dosimeter

Technical Data:

Spectral range: UV 230 – 410 nm (Standard)

Max. Power Input 0 to 5,000 mW/cm²

Display: TFT Colour Display, 45 x 34 mm (1.75" x 1.3")

Display range: 0 to 36,000 mJ/cm²

Measuring range: 0 to 2,000 mW/cm²

Sampling rate: 0.005 sec (200/sec)

Recording cycle: 30 sec.

Readiness phase: 120 sec.

Power source: 2 x long life 3.6 V Lithium Battery

Power consumption: 20 µA

Battery service life: 2,000 measuring cycles

Dimensions: Ø 5.5" (140 mm), height ½" (13 mm)

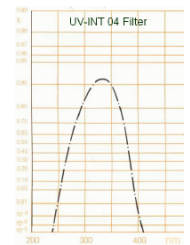
Weight: approx. 17,5 ounce (500 g)

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 230-410 nm, with a peak at the area of 330 nm.



While on the conveyer belt, the **UV-1060 Colour ComPort 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 acc. to DIN EN ISO / IEC 17025 with certificate

Subject to change without prior notice © 2007-08