UV-2C Power Integrator 614

special LED versions available

+ choice of a combination of two different spectral ranges:
+ UV-intensity mW/cm²
+ UV-dose mJ/cm²
+ Permanent or triggered recording*
+ LCD display
+ temperature °C/°F (option)
+ SD Memory Card (option)
+ graphical and numerical display on a PC (option)
+ re-chargeable accu cell
+ further spectral ranges upon request
+ available up to 20W/cm²
+ available with high speed sampling rate 0.0007s(1400/s)

The UV-2C Power Integrator is a small, self-contained, high quality UV measuring instrument. It is designed to measure, record and display peak UV intensity (mW/cm²), UV dosage (mJ/cm²) and temperature in the UV curing process.

It is equipped with two different UV sensors for the individual measuring of a combination of either:

UV-A 315 – 410 nm
UV-B 280 – 315 nm
UV-C 230 – 280 nm
UV-V 395 – 445 nm
UV 250 – 410 nm

With two different UV-bands, many of the measuring requirements of UV curing applications can be covered.
Due to its UV sensor and the integrated microprocessor the UV-2C Power Integrator can measure and display the peak UV-intensity of the total UV spectrum (mW/cm^2).
Additionally, this UV-measuring 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.

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 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.

The UV-2C Power Integrator is available in the following sensor combinations:

(Please state upon order)

Item 40.5.1. UV-2C Power Integrator, UV-A + UV-V
Item 40.5.2. UV-2C Power Integrator, UV-A + UV-B
Item 40.5.3. UV-2C Power Integrator, UV-B + UV-C
Item 40.5.4. UV-2C Power Integrator, UV + UV-V
Item 40.5.5. UV-2C Power Integrator, UV + UV-A
Item 40.5.6. UV-2C Power Integrator, UV + UV-B
Item 40.5.7. UV-2C Power Integrator, UV + UV-C
Item 40.5.8. UV-2C Power Integrator, UV-C + UV-A

***also available in other spectral range combinations upon request**

UV-DESIGN (Office)
Triebstrasse 3
63636 Brachttal
GERMANY
Tel.: +49 (0)6053 619824
Fax: +49 (0)6053 619820

(Office & Workshop) UV-DESIGN
Fabrikstrasse 12
63636 Brachttal
GERMANY
Tel.: +49 (0)6053 8095431
Fax: +49 (0)6053 8095433

www.uv-design.de *** mail: info@uv-design.de

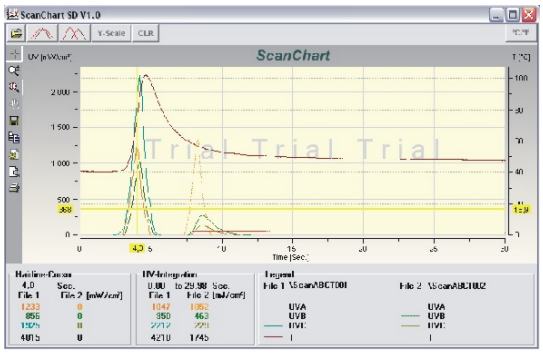
UV-2C Power Integrator

Technical Data:

Spectral range:	UV 230 – 410 nm (Standard)
Max. Power Input*:	0 to 2,000 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
Measuring temperature:	32 to 230° F / 0 to 115° C
Sampling rate:	0.01 sec (100/sec)
Recording cycle:	90 sec.
Readiness phase:	120 sec.
Power source:	3.7 V LION Accu
Power consumption:	20 µA
Battery service life:	approx. 1,000 measurements
Dimensions:	140 x 65 x 13 mm (5.5 x 2.4 x 0.55”)
Weight:	approx. 8 ounce (250 g)
Operating temperature:	32 to 113° F / 0 to 45° C
Heat protection:	Heat shield on back plate
Base Accuracy:	± 5 %

OPTION: SD-Memory Card

Option:
Graphic Chart:
With SD Card slot.
Stores data to an SD-Memory card
For transmission to a computer



While on the conveyer belt, the UV-2C Power Integrator 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. Ongoing, PTB traceable calibration with certificate

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

UV-DESIGN (Office)
Triebstrasse 3
63636 Brachttal
GERMANY
Tel.: +49 (0)6053 619824
Fax: +49 (0)6053 619820

(Office & Workshop) UV-DESIGN
Fabrikstrasse 12
63636 Brachttal
GERMANY
Tel.: +49 (0)6053 8095431
Fax: +49 (0)6053 8095433

www.uv-design.de *** mail: info@uv-design.de