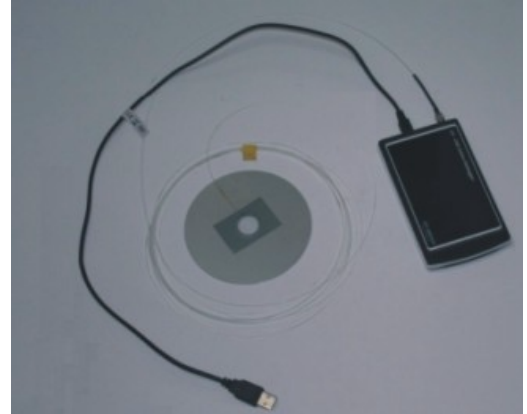


## UV-USB Online Datalogger flexible Wire 2-5

- + permanent online monitoring
- + permanent data recording
- + flexible wire data acquisition
- + UV intensity  $mW/cm^2$
- + UV dose  $mJ/cm^2$
- + high sampling rate
- + extra thin sensor head 2 mm (.10/128")
- + flexible light guide 5 m (200")
- + selectable triggered mode\*
- + auto scale function
- + free selectable Integral
- + high storage capacity
- + graphic charts on computer via USB ComPort
- + Microsoft Evaluation Software



The **UV-USB Online Datalogger flexible Wire 2-5** is a portable, 1 channel UV Monitoring and logging system for UV Curing systems, UV Profile Analysing and 3D-UV Data Acquisition in hard accessible areas, e.g. flexographic printers or other installations with limited head-space. It is designed for permanent connection to a PC via USB to monitor and log UV emitting installations.

The following version is available:

### 23.8.3 UV-USB Online Datalogger flexible Wire 2-5, UV 230 – 410 nm

The **UV-USB Online Datalogger flexible Wire 2-5** has been specifically designed to measure UV-radiation on high-end UV-curing machines. Via USB ComPort the acquired data from the sensor is permanently transferred to a computer for online display and further editing by Microsoft Evaluation Software. The measurement, integrating, and recording of data from the only 2 mm thick sensor takes place at a high sample rate.

The **UV-USB Online Datalogger flexible Wire 2-5** is equipped with an extremely flat UV sensor head on a flexible optical light guide of 5 m length for measuring in hard accessible areas. The UV-sensor contains a cosine corrected UV filter with a spectral range of 230 to 410 nm.

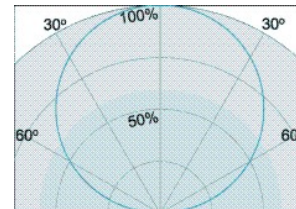


Fig. 12.1 Relative spatial response of an ideal cosine diffuser.

Special features are the USB ComPort and Microsoft software for direct UV monitoring on a computer.

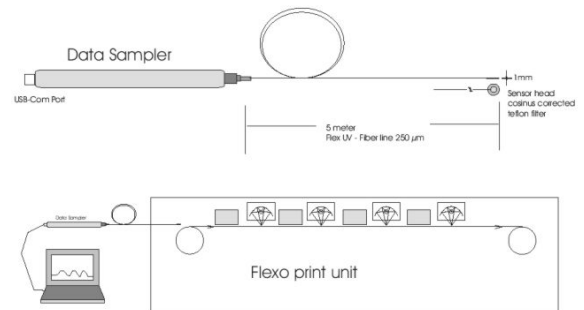
The measured values are displayed graphically and numerically in  $mW/cm^2$  and  $mJ/cm^2$ . The monitor displayed graphs show the complete profile and offers zooming and auto scale functions. Peaks and Integrals are free selectable on screen and will be displayed as digital numbers

## UV-USB Online Datalogger flexible Wire 2-5

The powerful Windows Scanchart evaluation software is included and enables the user to synchronise the **UV-USB Online Datalogger flexible Wire 2-5** with a PC via USB ComPort.

### Technical Data:

Spectral range:	UV 230 – 410 nm (Standard) or other
Measuring range:	0 to 5,000 mW/cm <sup>2</sup>
Length of Sensor cable:	5 m (16 ft./200")
Height of Sensor:	2 mm (1/12 inch)
Dose range:	0 to 65,000 mJ/cm <sup>2</sup>
Dynamic range:	0 to 5,000 mW/cm <sup>2</sup>
Sample rate:	0.01
Recording time:	PC data file
Power source:	USB
Power consumption:	20 mA
Dimensions:	base unit : approx. 5.5" (140 mm) x 3" (75 mm) x 0.5"(13 mm) sensor : round approx. 1.5", 2", 2.5" x .10/128" (40, 50, 60 x 2 mm)
Weight:	approx. 6 ounce (150 g)
Temperature range:	0 to 113° F / 0 to 45° C
Base Accuracy:	± 5 %



The sensor head of the **UV-USB Online Datalogger flexible Wire 2-5** can withstand max. 150° C / 302° F for up to 10 seconds. The temperature of the housing should not exceed 45° C / 113° F. 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