

### Item 1. UV-Integrator 04

UV-Integrator, measuring UV dose in mJ, diameter 120 mm (CD-size), height 13 mm, various spectral ranges available. Please note: To be discontinued soon!



### Item 2. Digital UV-Integrators with Microprocessor

#### 2.1. UV-MC Microprocessor Integrator:

UV-Integrator, diameter 140 mm, height 13 mm, measuring UV intensity (mW/cm<sup>2</sup>) and total Integral of UV dose(mJ/cm<sup>2</sup>).  
various spectral ranges available



#### 2.2. UV-3C Microprocessor Integrator:

UV-Integrator, with three sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and total Integral of UV dose(mJ/cm<sup>2</sup>) in the spectral ranges of UV-A, UV-B and UV-C or UV-V plus the total UV

#### 2.3. UV-T Microprocessor Integrator:

UV-Integrator, one UV-sensor, one temperature sensor, measuring UV dose (mJ/cm<sup>2</sup>), UV intensity (mW/cm<sup>2</sup>) and the peak of the temperature.  
various spectral ranges available



#### 2.4. UV-3C-T Microprocessor Integrator:

UV-Integrator, with three UV sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and total Integral of UV dose(mJ/cm<sup>2</sup>) in the spectral ranges of UV-A, UV-B and UV-C or UV-V plus the total UV  
Additionally equipped with one temperature sensor.



#### 2.5. UV-2C Microprocessor Integrator:

UV-Integrator, with two sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and Integral of UV dose(mJ/cm<sup>2</sup>). Choice of the spectral ranges of UV-A, UV-B or UV-V

#### 2.6. UV-2C-T Microprocessor Integrator:

UV-Integrator, with two sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and Integral of UV dose(mJ/cm<sup>2</sup>). Choice of the spectral ranges of UV-A, UV-B or UV-V. Additionally equipped with one temperature sensor.

#### 2.7. UV-4C Microprocessor Integrator:

UV-Integrator, with four sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and total Integral of UV dose(mJ/cm<sup>2</sup>) in the spectral ranges of UV-A, UV-B, UV-C and UV-V or the total UV

### Item 3. UV-Integrators with SD-Memory Card Slot

#### 3.1. UV-MC SD Microprocessor Integrator:

UV-Integrator, diameter 140 mm, height 13 mm, measuring UV intensity (mW/cm<sup>2</sup>) and total Integral of UV dose(mJ/cm<sup>2</sup>).  
with SD-Memory Card for storing and download data to a computer.

#### 3.2. UV-3C SD Microprocessor Integrator:

UV-Integrator, with three sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and total Integral of UV dose(mJ/cm<sup>2</sup>) in the spectral ranges of UV-A, UV-B and UV-C or UV-V plus the total UV, with SD-Memory Card for storing and download data to a computer.



#### 3.3. UV-T SD Microprocessor Integrator:

UV-Integrator, one UV-sensor, one temperature sensor, measuring UV dose (mJ/cm<sup>2</sup>), UV intensity (mW/cm<sup>2</sup>) and temperature. With SD-Memory Card for storing and download data to a computer.

#### 3.4. UV-3C-T SD Microprocessor Integrator:

UV-Integrator, with three UV sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and total Integral of UV dose(mJ/cm<sup>2</sup>) in the spectral ranges of UV-A, UV-B and UV-C or UV-V plus the total UV, with SD-Memory Card for storing and download data to a computer. Additionally equipped with one temperature sensor.



#### 3.5. UV-2C SD Microprocessor Integrator:

UV-Integrator, with two sensors for individual measuring of UV energy (mW/cm<sup>2</sup>) and Integral of UV dose(mJ/cm<sup>2</sup>). Choice of the spectral ranges of UV-A, UV-B or UV-V

#### 3.6. UV-2C-T SD Microprocessor Integrator:

UV-Integrator, with two sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and Integral of UV dose(mJ/cm<sup>2</sup>). Choice of the spectral ranges of UV-A, UV-B or UV-V. Additionally equipped with one temperature sensor.



#### 3.7. UV-4C SD Microprocessor Integrator:

UV-Integrator, with four sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and total Integral of UV dose(mJ/cm<sup>2</sup>) in the spectral ranges of UV-A, UV-B, UV-C and UV-V or the total UV with SD-Memory Card for storing and download data to a computer.

### Item 4. Wireless Sensor Digital Integrators

#### 4.1. UV-Integrator "MICRO PUCK"

UV-Integrator measuring UV-Intensity in  $mW/cm^2$ , consisting of two parts, portable, hand held base station and one small sensor (round or rectangular). Sensors in various spectral ranges available (Item 4.3.)

#### 4.2. UV-Integrator "MICRO PUCK MULTI":

UV-Integrator, based on the "MICRO PUCK" STANDARD, measuring UV-Intensity in  $mW/cm^2$ , but up to 8 different sensors can be connected.

Sensors in various spectral ranges available (Item 4.3.)

#### 4.3. Wireless sensors for MICRO PUCK

Round or rectangular shape wireless sensors in various spectral ranges are available

#### 4.5. UV-Integrator "MICRO PUCK II"

UV-Integrator measuring UV-Intensity in  $mW/cm^2$ , UV-Dose in  $mJ/cm^2$ , and eventually temperature, consisting of two parts, portable, bench-top base station and one small sensor (round or rectangular). Sensors in various spectral ranges available (Item 4.7.)

#### 4.6. UV-Integrator "MICRO PUCK MULTI II":

UV-Integrator, based on the "MICRO PUCK II" STANDARD, measuring UV-Intensity in  $mW/cm^2$ , UV-Dose in  $mJ/cm^2$  and temperature, but up to 8 different sensors can be connected.

Sensors in various spectral ranges available (Item 4.7.)

#### 4.7 Wireless sensors for MICRO PUCK II

Round or rectangular shape wireless sensors in various spectral ranges are available



### Item 5. UVP 3000 UV Profiler / UV Profiler Multi

The Pocket-PC based UV-Profiler UVP 3000 can be operated as an instantaneous profiler of UV and temperature radiation. The measurement, integrating, and recording of data from all sensor channels takes place at user-defined intervals. ( e.g: 20 sec. measuring time with a sample rate of 20 milli sec.)

In the standard version it is equipped with one UV-sensor with a cosine corrected UV filter in the spectral range of 250 to 410 nm.

Precise temperature measuring is made possible by a fast response temperature sensor.

Special features are TFT touch screen display, ComPort and Microsoft software for the download of data to a computer.

The measured values are immediately displayed on a graph as  $mW/cm^2$  and  $mJ/cm^2$ . The TFT touch screen display shows 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.



Size only approx. 9 inch x 4 inch x 1 inch (225 x 90 x 25 mm)

The UV-Profiler UVP 3000 is available with a random choice of up to three sensors, various UV-ranges and/or temperature sensors.

### Item 6. Various UV-Meter

UV radiometers for simple intensity and control measurement of UV light. Various spectral ranges available

#### 6.1 The Black Standard Series

#### 6.2 The Silver Line Series

#### 6.3 The Black Standard Series MINI

#### 6.4 The White Line Series low Intensity

#### 6.5 Lux Meter

#### 6.6 UV Silver Line for Light Guide



### Item 7. UV-Integrator 07

Very small size round shape UV-Integrator, for measuring UV dose ( $mJ/cm^2$ ), diameter 70 mm only, height 13 mm, various spectral ranges available.



### Item 8. UV-Integrator 14

Big size round shape UV-Integrator for measuring UV dose ( $mJ/cm^2$ ), diameter 140 mm, height 13 mm, various spectral ranges available.



**!!!Beware of counterfeits and fakes of this instrument!!!**

### Item 9. UV-Integrator 140

Big size round shape UV-Integrator for measuring UV dose (mJ/cm<sup>2</sup>), diameter 140 mm, height 13 mm, various spectral ranges available. Special feature: Kidney shaped recess in the housing for convenient handling.  
**!!!Beware of counterfeits and fakes of this instrument!!!**



### Item 10. UV-Integrator 126

Rectangular shape UV-Integrator for measuring UV dose (mJ/cm<sup>2</sup>), dimensions 115x60x13 mm, various spectral ranges available.



### Item 11. UV-Wireless Data Sampler

Programmable, pass through data sampler for the acquisition of UV-intensity, UV-dose and temperature with up to five different sensors.  
 Via USB ComPort stored data can be downloaded to a computer for further editing by Microsoft Evaluation Software. Also for direct measuring of UV-Intensity

#### 11.2 UV-3C Wireless Data Sampler

UV-A, UV-B and UV-C

#### 11.3 UV-T Wireless Data Sampler

UV and temperature

#### 11.4 UV-3C-T Wireless Data Sampler

UV-A, UV-B and UV-C + temperature

#### 11.5 UV-2C Wireless Data Sampler

Choice of 2 UV ranges

#### 11.6 UV-3C-T Wireless Data Sampler

Choice of 2 UV ranges + temperature

#### 11.7 UV-4C Wireless Data Sampler

UV-A, UV-B, UV-C and UV-V

#### 11.8 UV-4C-T Wireless Data Sampler



### Item 12. UV Power Monitoring (1 channel)

One channel UV power monitoring for the permanent surveillance of the UV energy of one lamp, sensor standard 230-410 nm or other, output signal 0-10V, alert signal optionally various versions available



### Item 13 UV Power Monitoring Microprocessor 8-Channel

UV Power Controller for UV sources with up to 8 different UV-sensors.  
 Sensors UV-A, UV-B, UV-C, UV (Standard 250-410 nm). No computer required.  
 Display of two channels at a time.  
 Option: Connection of power controller to computer via RS 232 or USB for transmitting and editing data. On a computer all channels can be displayed as graphic chart simultaneously.



### Item 14. Automatic UV-Power Regulation (1-8 channel) (available in conjunction with continuous UV power control only)

Emitted UV-energy of UV-source will be constantly monitored. Threshold values for the UV-energy can be set. In case of deviation of the set values the UV-power will automatically be adjusted to meet the set values.  
 System consisting of 1-8 channel UV microprocessor power monitoring plus electronic UV-regulation unit(s). Various versions available  
 Option: graphic chart on computer



### Item 15 UV-T MICROLOG 6

Small pass-through UV sensor unit for the measuring of UV energy, UV dose and temperature.  
 Size approx. 80x30x6 mm.  
 Measuring of the performance of the entire UV process with peaks, dose and temperature for each lamp individually, and total UV-dose. Measuring period 30 sec.  
 Connection to a computer via USB for read-out of measuring results in mW/cm<sup>2</sup> and mJ/cm<sup>2</sup>.  
 Including special computer software.  
 Spectral area 230-410 nm



### Item 16 UV-T MICROLOG D

Small pass-through UV sensor unit for the measuring of UV intensity, UV dose and temperature.  
 Size approx. 80x30x6 mm.  
 Identical to UV-T MICROLOG 6 but with display. Connection to a computer via USB for read-out of measuring results in mW/cm<sup>2</sup> mJ/cm<sup>2</sup> and °C/°F. Including special computer software. Spectral area 230-410 nm



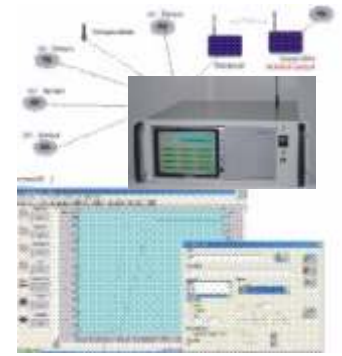
### Item 17 UV-Monitoring Datalog 12 Channel

UV-Monitoring of UV-energy, UV-dose and temperature with up to 12 sensors. Various UV-sensors and temperature sensors 0-110 °C (0-230 °F) available.

Positioning or installation of the sensors possible almost everywhere. Transmission of measuring values to data logger via fixed connection, or wireless via receiver and transmitter system (one radio transmitting system for each channel necessary).

Automatic reset of sensors after data transmission. Connection of data logger to computer via RS 232 or USB for transmitting and editing data. (computer can be provided on request)

Various versions available.



### Item 18. UV-MICROLOG SD

Small pass through data sampler for the acquisition of UV-energy, UV-dose or temperature. Size 115 x 60 x 14 mm (4.5 x 2.4 x 0.55"). With SD Memory Card Slot for storing data can be downloaded to a computer for further editing by Microsoft Evaluation Software.

#### 18.1 UV MICROLOG SD

UV-intensity, UV-dose and temperature, various spectral ranges available

#### 18.2 UV-3C MICROLOG SD

UV-intensity and UV-dose separate for UV-A, UV-B and UV-C

#### 18.3 UV-T MICROLOG SD

UV-intensity, UV-dose and temperature, various spectral ranges available

#### 18.4 UV-3C-T MICROLOG SD

UV-intensity and UV-dose separate for UV-A, UV-B and UV-C + temperature

#### 18.7 UV-4C MICROLOG SD

UV-intensity and UV-dose separate for UV-A, UV-B, UV-C and UV-V



### Item 19 UV-MICROLOG

Small pass-through UV sensor unit for the measuring of UV intensity in  $mW/cm^2$  and UV dose  $mJ/cm^2$ .

Measuring of the performance of the entire UV process with peaks and dose for each lamp individually, and total UV-dose. Measuring period 30/60 sec.

Auto-OFF function for battery saving. Connection to a computer via USB for read-out of

Available round or rectangular and in 5 different UV-ranges  
 round diameter 70 mm, height 12 mm  
 rectangular: 60 x 50 mm, height 12 mm



### Item 21 UV-Probe LIGHT GUIDE SILVER

It is used for measuring in hard accessible areas. The flexible light guide is fixed directly into the lamp to enable stable measuring results of the light emission.

The measuring result is expressed in  $mW/cm^2$ .

Available in various spectral ranges



### Item 22 UV-DUMMIES

UV-Dummies are specially manufactured UV-radiometers or sensors, built in models of workpieces according to customers' specifications.

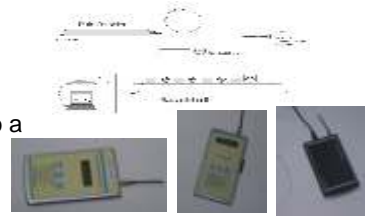
They are used to run through the production process together with regular workpieces in order to take precise UV measuring right at the place.

Custom made available in various models and shapes



### Item 23 UV-Flexible Data Samplers 2-5

UV Data Samplers for UV intensity and UV dose with very thin sensor unit (2 mm only) on an approx. 5 m long flexible light guide for measuring UV sources in hard accessible areas. Various types in different technical configurations are available, partly with data transmission to a computer for graphic or numeric display and further editing.  
Standard spectral area: 250-410 nm



### Item 24 Expomat BC 100/2

Microprocessor based control computer for the automatic control of exposure cycles. Up to 99 different settings for exposure time and vacuum can be stored. Aging of the lamp and thus less light emission are automatically balanced by extending exposure times  
UV-lamp test function, big, 40 digit display.  
For installation in a copying machine or front plate.



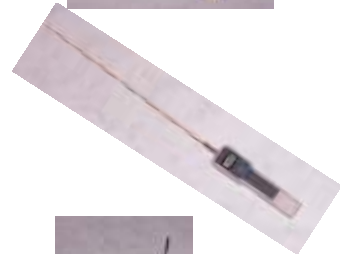
### Item 25 UV-Spot Cure Intensity Meter 5-10

Electro-optic UV measuring instrument. Self-contained, battery-operated, portable, light-weight and easy to handle. Specially designed to measure and display peak UV intensity emitted by UV spot curing systems in order to evaluate system performance.  
Light guide adapters available from 3 to 10 mm. Various UV-bands.



### Item 26 UV-Ceramic Probe 4-45

Electro-optic UV measuring instrument. Self-contained, battery-operated, portable, light-weight and easy to handle. Specially designed to measure and display peak UV intensity in hard accessible curing chambers such as e.g. narrow web presses in order to evaluate system performance.  
18" rigid light guide made of non-conductive ceramic material to insulate and protect the user from accidental electric shock.



### Item 27 UV-Intensity Meter SMA

Self-contained, electro-optic, battery-operated, portable, light-weight and easy to handle UV intensity meter. Specially designed to measure and display peak UV intensity in hard accessible curing chambers such as e.g. narrow web presses in order to evaluate system performance.  
Torch-like instrument with flexible light guide and SMA socket for the connection to the lamp housing.



### Item 28 UV-Probe Integrator/UV-ComPort Probe Integrator

Portable, light-weight and easy to handle UV Probe Integrator to measure UV-intensity in mW/cm<sup>2</sup> directly. Additional function is the scan of the peak value of the UV-energy in mW/cm<sup>2</sup> and to measure the UV dose in mJ/cm<sup>2</sup> within a pre-set period of 30 seconds.  
ComPort for the download of data to a computer  
Available in various UV ranges.



### Item 29 UV-Integrator 150

Very small size round shape UV-Integrator, for measuring UV dose (mJ/cm<sup>2</sup>), diameter 90 mm only, height 12 mm, various spectral ranges available. Formerly exclusively distributed by Tonglu UVmee, Zhejiang China



**!!!Beware of counterfeits and fakes of this instrument!!!**

### Item 30 Spectrometer UV-VIS

Small, high-resolution, portable Spectrometer with operation software. Ready-to-use, simple, uncomplicated operation. For stationary operation or as mobile, pass-through, data logging system. In various technical configurations available.

- 30.1. Mini-Spectrometer USB UV-VIS 200 850 nm
- 30.2. Spectrometer UV-VIS 19 200 850 nm
- 30.3. Spectro Logger UV-VIS 6 200 850 nm
- 30.8. Mirror Measuring Head with Light Guide SMA
- 30.9.1 Evaluation Software Spectrasuite
- 30.9.2 Fibre Optical Light Guide 2.0 SMA
- 30.9.3 Reflection measuring head for spectral reflection measuring with two SMA connections



### Item 31 UV-Probe Data Sampler 8 Channel (PL 2508)

The UV-IR Data Sampler 8 Channel is a portable, pass-through, UV & temperature data sampling unit for UV & IR Curing systems, UV & Temp Profile Analysing and 3D-UV & Temp Data Acquisition. According to the customers' requirements, the UV-Data Sampler 8 Channel is available in various configurations:  
Any combination of up to 8 individual sensors, UV, UV-A, UV-B, UV-C or temperature can be configured



### Item 32 VOC & AIR FLOW Data Samplers

portable, pass-through, self-contained data logger for IR, convection and other heat curing systems using solvent containing inks, glues, lacquers and paints.  
 Detecting organic solvent vapours, other volatile vapours and combustible gases  
 heat resistance up to 200°C, ideal to be used in conveyorized thermal curing ovens  
 ComPort connection to pre-select parameters for the measuring cycle and download to a computer for further editing by a Powerful Data Acquisition Software  
 Various versions available



### Item 33 UV-Probe Integrator Multi/UV-ComPort Probe Integrator Multi

UV-Probe Integrator Multi to measure and display UV energy in mW/cm<sup>2</sup>. Additional function is the scan of the peak value of UV-energy in mW/cm<sup>2</sup> and to measure the UV dose in mJ/cm<sup>2</sup> within a pre-set period of 30 seconds.  
 Automatic detection of up to 4 different sensors in up to 4 different UV-bands  
 ComPort for the download of data to a computer



### Item 34 UV-IR Monitoring System PL 2506-D

The UV-IR Monitoring System PL 2506-D is a fix installed, UV & temperature monitoring system for UV & IR Curing systems, UV & IR Profile Analysing and 3D-UV & IR Data Acquisition.  
 In connection with a provided analog or digital speed signal from the curing machine it is calculating the UV-dose.  
 According to the customers' requirements, the UV-IR Monitoring system is available in various configurations and any combination of up to 6 individual sensors, UV, UV-A, UV-B, UV-C or temperature can be configured



### Item 35 UV-Datalogger USB

The UV-Datalogger USB is a UV monitoring instrument for long-term data recording.  
 It is designed to measure and record UV energy in mW/cm<sup>2</sup> e.g. of low pressure HG lamps for the water purification. Various customer specific configurations are available  
 The UV-Datalogger USB is available in various versions and with different UV-sensors in up to five different UV-bands (UV-A, UV-B, UV-C, UV-V Diazo- or full UV)  
 The detachable USB stick can record up to 32.000 measuring results.  
 It comes with a special evaluation software



### Item 36 UV-Probe Integrator Twin/UV-ComPort Probe Integrator Twin

UV-Probe Integrator to measure and display UV energy in mW/cm<sup>2</sup>.  
 Twin sensor head for UV-A + UV-B  
 Additional function is the scan of the peak value of UV-energy in mW/cm<sup>2</sup> and to measure the UV dose in mJ/cm<sup>2</sup> within a pre-set period of 30/60 seconds.  
 Optionally equipped with USB ComPort for download and further editing of data to a PC



### Item 37 UV-Integrator 12

Medium (CD/DVD) size round shape UV-Integrator, for measuring UV dose (mJ/cm<sup>2</sup>), diameter 120 mm only, height 12 mm, various spectral ranges available.



### Item 38 Electronic Ballast Units EVG UV AC

Fully electronic, adjustable AC ballast unit for UV-lamps from 0,4 kW to 20 kW.  
 Designed for industrial use.  
 Specially tuned to operate with mercury discharge UV-lamps.  
 Dark phases during the zero axis known from standard, sinus shaped power supplies are eliminated by operating the lamps with a square-wave current.



### Item 39 Ballast Units Type HRI UV AC

Ballast Units of the Type HRI are used for the power regulation of UV-lamps up to 15 KW nominal power. Special feature is the hot re-ignition capability.  
 Operation of mercury medium pressure and metal halide lamps with electrical characteristics corresponding to the wide working range of the ballast unit.  
 With or without half power switch. More power steps available on request.



### Item 40. UV-Power Integrators 612

Small Integrator to measure UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>). Available in various technical configurations, partly with temperature measuring, Dimensions: 60 x 120 x 12 mm (2.4" x 4.7" x .5")  
In various spectral areas available

#### 40.1. UV-Power Integrator 612:

UV-Power Integrator to measure UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>)

#### 40.2 UV-3C Power Integrator 612:

UV-Power Integrator to measure UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>) in three ranges

#### 40.3. UV-T Power Integrator 612:

UV-Power Integrator to measure UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>), with additional temperature sensor to measure the peak temperature.

#### 40.4 UV-3C-T Power Integrator 612:

UV-Power Integrator to measure UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>) in three ranges, with additional temperature sensor to measure the peak temperature.  
In various spectral areas available

#### 40.7 UV-4C Power Integrator 612:

### Item 41 Electronic Lamp tester LT 200

The electronic lamp tester LT 200 is used for the quick fault-check of gas-filled low pressure and medium pressure lamps. The following lamps can be tested:

- Mercury low pressure lamps
- Mercury medium pressure lamps
- High pressure sodium discharge lamps
- Fluorescent lamps
- Metal halogen lamps
- Low pressure sodium discharge lamps

The electronic lamp tester can also be used to measure voltage and electricity flow.

### Item 42. UV-Integrators specially designed for the CD / DVD Production

Diameter 4.7" (120 mm), height 1/4" (6,5 mm), with center hole  
Option: With ComPort and evaluation software for downloading data to a computer (see item 43)

**(Please note: models with more than 2 sensors are presently not available, please see item 72)**

#### 42.1. UV-Integrator CD:

UV-Integrator, measuring UV intensity (mW/cm<sup>2</sup>) and total Integral of UV dose(mJ/cm<sup>2</sup>).  
various spectral ranges available

#### 42.2. UV-3C Integrator DVD:

UV-Integrator, with three sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and total Integral of UV dose(mJ/cm<sup>2</sup>) in the spectral ranges of UV-A, UV-B and UV-C or the total UV

#### 42.3. UV-T Integrator DVD:

UV-Integrator, one UV-sensor, one temperature sensor, measuring UV dose (mJ/cm<sup>2</sup>), UV intensity (mW/cm<sup>2</sup>) and the peak of the temperature.  
various spectral ranges available

#### 42.4. UV-3C-T Integrator DVD

UV-Integrator, with three UV sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and total Integral of UV dose(mJ/cm<sup>2</sup>) in the spectral ranges of UV-A, UV-B and UV-C or the total UV  
Additionally equipped with one temperature sensor.

#### 42.5. UV-2C Integrator DVD:

UV-Integrator, with two sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and Integral of UV dose(mJ/cm<sup>2</sup>). Choice of the spectral ranges of UV-A, UV-B or UV-V

#### 42.6. UV-2C-T Integrator DVD:

UV-Integrator, with two sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and Integral of UV dose(mJ/cm<sup>2</sup>). Choice of the spectral ranges of UV-A, UV-B or UV-V. Additionally equipped with one temperature sensor.

#### 42.7. UV-4C Integrator DVD:

UV-Integrator, with four sensors for individual measuring of UV intensity (mW/cm<sup>2</sup>) and total Integral of



### Item 43. UV-Integrators with ComPort, specially designed for the CD / DVD Production

Diameter 4.7" (120 mm), height 1/4" (6,5 mm), with center hole  
With ComPort and evaluation software for downloading data to a computer

**(Please note: models with more than 2 sensors are presently not available, see item 73)**

#### 43.1. UV-ComPort Integrator CD:

UV-Integrator, measuring UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of UV dose( $\text{mJ}/\text{cm}^2$ ).  
various spectral ranges available

#### 43.2. UV-3C ComPort Integrator DVD:

UV-Integrator, with three sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of UV dose( $\text{mJ}/\text{cm}^2$ ) in the spectral ranges of UV-A, UV-B and UV-C or the total UV

#### 43.3. UV-T ComPort Integrator DVD:

UV-Integrator, one UV-sensor, one temperature sensor, measuring UV dose ( $\text{mJ}/\text{cm}^2$ ), UV intensity ( $\text{mW}/\text{cm}^2$ ) and the peak of the temperature.  
various spectral ranges available

#### 43.4. UV-3C-T ComPort Integrator DVD

UV-Integrator, with three UV sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of UV dose( $\text{mJ}/\text{cm}^2$ ) in the spectral ranges of UV-A, UV-B and UV-C or the total UV  
Additionally equipped with one temperature sensor.

#### 43.5. UV-2C ComPort Integrator DVD:

UV-Integrator, with two sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and Integral of UV dose( $\text{mJ}/\text{cm}^2$ ). Choice of the spectral ranges of UV-A, UV-B or UV-V

#### 43.6. UV-2C-T ComPort Integrator DVD:

UV-Integrator, with two sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and Integral of UV dose( $\text{mJ}/\text{cm}^2$ ). Choice of the spectral ranges of UV-A, UV-B or UV-V. Additionally equipped with one temperature sensor.

#### 43.7. UV-4C ComPort Integrator DVD:

UV-Integrator, with four sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of

### Item 44 UV-C Meter low UV

Specially designed for the measurement of the intensity of UV light in the low UV-C area from 160 nm to 240 or 260 nm. Three versions are available as standard\* to measure the typical emission of low pressure UV-C lamps in the area of 254 nm and/or 185 nm. All measurements are expressed in  $\text{mW}/\text{cm}^2$  in order to compare light sources or to check uniformity of the light emission.

Typical application fields are the control of sterilisation, disinfection, ozone generating units and other fields of photo biology.

44.1. UV-C Meter 240, 160 - 240 nm

44.2. UV-C Meter 260, 160 - 260 nm

44.3. UV-C Meter 200, 160 - 200 nm

\*Further UV-C ranges available on request

### Item 45 Ballast Unit Component UV AC

Ballast Units of the Type UV AC are used for the power regulation of UV-lamps up to 15 kW nominal power. Reliable ignition even of "bad starter"UV lamps.  
Operation of mercury medium pressure and metal halide lamps with electrical characteristics corresponding to the wide working range of the ballast unit.  
With or without half power switch. More power steps available on request.  
Mounted on ground plate for installation into UV Curing machine

### Item 46. UV-Power Integrators 06

Small, extra flat, only 6 mm / .25 inch high Integrator to measure UV-Intensity ( $\text{mW}/\text{cm}^2$ ) and UV-Dose ( $\text{mJ}/\text{cm}^2$ )  
Available in various technical configurations, partly with temperature measuring  
Dimensions: 60 x 120 x 6 mm (2.4" x 4.7" x .25")  
In various spectral areas available

#### 46.1. UV-Power Integrator 06:

UV-Power Integrator to measure UV-Intensity ( $\text{mW}/\text{cm}^2$ ) and UV-Dose ( $\text{mJ}/\text{cm}^2$ )  
In various spectral areas available

#### 46.2. UV-T Power Integrator 06:

UV-Power Integrator to measure UV-Intensity ( $\text{mW}/\text{cm}^2$ ) and UV-Dose ( $\text{mJ}/\text{cm}^2$ ), with additional temperature sensor to measure the peak temperature.  
In various spectral areas available



### Item 47 UV Fast check Strips

Simple, reliable and easy to use method to check accumulated UV light dose.

Two different types are available:

Type 5005: Indicates UV-energies from 0-5.000 mJ

The self-stick strips contains five photo-chromatic fields with different sensitivities to UV-light that will change their colour in relation to the UV-energy applied.

Type 5001: With one photo-chromatic field

that will change its colour in relation to the UV-energy applied.



### Item 48. UV-Integrator 160

Small Integrator for the measuring of UV-Intensity (mW/cm<sup>2</sup>), UV-Dose (mJ/cm<sup>2</sup>) and temperature, with SD Memory Card Slot for storing data and transfer to a PC, with special PC evaluation software

In various spectral areas available

(Formerly exclusively distributed through: Tonglu Uvmee, Zhejiang, China)

48.2.1 UV-Integrator 160, Type 1 Diazo	350 - 460 nm + Temp
48.2.2 UV-Integrator 160, Type 2 UV-A	315 - 410 nm + Temp
48.2.3 UV-Integrator 160, Type 3 UV	230 - 410 nm + Temp
48.2.4 UV-Integrator 160, Type 4 UV-B	280 - 315 nm + Temp
48.2.5 UV-Integrator 160, Type 5 UV-C	230 - 280 nm + Temp
48.2.6 UV-Integrator 160, Type 6 UV-V	395 - 445 nm + Temp

**!!!Beware of counterfeits and fakes of this instrument!!!**

### Item 49 Light Sources

Light sources with Xenon or Halogenlamp in housing with SMA-socket For the connection of a optical fibre cord

49.1.1. Light source with Halogen lamp 35 W, 360-2000 nm, in Box 250x100x60 mm, with SMA-socket

49.2.1. Light source with Xenon lamp 35 W, 225-1600 nm In housing 150x150x200 mm, with SMA-socket

49.2.2. Light source with Xenon lamp 35 W, 225-1600 nm In housing 200x200x300 mm, with shutter and timer

49.9.2.1 Optical fibre cord 2.0 SMA, UV-VIS, 300-800 nm

49.9.2.2 Optical fibre cord 2.0 SMA, UV-VIS, 190-800 nm

49.9.4. Reflection measuring head for spectral reflection measuring with two SMA connections



### Item 50 Reference Equipment for periodic check of UV measuring equipment

Reference Lamp with shutter, electronic timer for the periodic check of UV-measuring equipment with interchangeable adaptors for customer specific measuring equipment identically calibrated reference integrators available

Item 50.1.	Reference Lamp UV (incl. one adaptor)
Item 50.2.1.	Master UV-Integrator UV-V 350-460 nm
Item 50.2.2.	Master UV-Integrator UV-A 315-400 nm
Item 50.2.3.	Master UV-Integrator UV 250-410 nm
Item 50.2.4.	Master UV-Integrator UV-B 280-315 nm
Item 50.2.5.	Master UV-Integrator UV-C 230-280 nm
Item 50.3.ff	Adaptors acc. to customer specification*
Item 50.4.	Spare Bulb for Reference Lamp UV, pre-aged



### Item 51. UV-Integrator SQUARE

Small, handy Integrator for the measuring of UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>)

Available in various configuration, partly with SD Memory card and also with temperature measuring

#### 51.2.1. UV-Integrator SQUARE / 51.3.1. UV-Integrator SQUARE SD:

UV-Integrator for UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>) available in various spectral areas

#### 51.2.2. UV-3C Integrator SQUARE / 51.3.2. UV-3C Integrator SQUARE SD:

UV-Integrator for UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>) UV-A+UV-B+UV-C

#### 51.2.3. UV-T Integrator SQUARE 51.3.3. UV-T Integrator SQUARE SD :

UV-Integrator for UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>) and temperature available in various spectral areas

#### 51.2.4. UV-3C-T Integrator SQUARE / 51.3.4. UV-3C-T Integrator SQUARE SD:

UV-Integrator for UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>) UV-A+UV-B+UV-C+Temp.

#### 51.2.7. UV-4C Integrator SQUARE / 51.3.7. UV-4C Integrator SQUARE SD:

UV-Integrator for UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>) UV-A+UV-B+UV-C+UV-V



### Item 52. Digital UV-Cube Integrator with Microprocessor

#### 52.1. UV-Cube Integrator:

UV-Integrator, Size 60 mm x 60 mm x 60 mm, incl. Heatshield. Measuring of UV Intensity (mW/cm<sup>2</sup>) and UV Dosis(mJ/cm<sup>2</sup>)  
In various spectral areas available.

#### 52.2. UV-3C Cube Integrator:

UV-Integrator, with three sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV Dose(mJ/cm<sup>2</sup>) in the spectral areas UV-A, UV-B, UV-C and Full UV

#### 52.3. UV-T Cube Integrator:

UV-Integrator, one UV-Sensor, one temperature sensor, measuring of UV Dose (mJ/cm<sup>2</sup>), UV Intensity (mW/cm<sup>2</sup>) and the peak temperature.  
In various spectral areas available.

#### 52.4. UV-3C-T Cube Integrator:

UV-Integrator, with three sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV Dose(mJ/cm<sup>2</sup>) in the spectral areas UV-A, UV-B, UV-C and Full UV  
Additionally equipped with temperature sensor.

#### 52.5. UV-2C Cube Integrator:

UV-Integrator, with two UV sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV Dose(mJ/cm<sup>2</sup>). Choice of a combination of two spectral areas UV-A, UV-B or UV-V

#### 52.6. UV-2C-T Cube Integrator:

UV-Integrator, with two UV sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV Dose(mJ/cm<sup>2</sup>). Choice of a combination of two spectral areas UV-A, UV-B or UV-V.  
Additionally equipped with temperature sensor.

#### 52.7. UV-4C Cube Integrator:

UV-Integrator, with four sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV Dose(mJ/cm<sup>2</sup>) in the spectral areas UV-A, UV-B, UV-C, UV-V and Full UV



### Item 53. UV-Cube Datalogger with SD-Memory Card Slot

#### 53.1. UV-Cube Logger:

UV-Datalogger, Size 60 mm x 60 mm x 60 mm, incl. Heatshield, Measuring and recording of UV Intensity (mW/cm<sup>2</sup>) and UV Dose(mJ/cm<sup>2</sup>), with SD-Memory Card.  
In various spectral areas available.

#### 53.2. UV-3C Cube Logger:

UV-Datalogger, with three sensors for the individual measuring and recording of UV Intensity (mW/cm<sup>2</sup>) and UV Dose(mJ/cm<sup>2</sup>) in the spectral areas UV-A, UV-B, UV-C and Full UV, with SD-Memory Card.

#### 53.3. UV-T Cube Logger:

UV-Datalogger, one UV-Sensor, one temperature sensor, Measuring and recording of UV Dose (mJ/cm<sup>2</sup>), UV Intensity (mW/cm<sup>2</sup>) and temperatur, with SD-Memory Card.  
In various spectral areas available.

#### 53.4. UV-3C-T Cube Logger:

UV-Datalogger, with three sensors for the individual measuring and recording of UV Intensity (mW/cm<sup>2</sup>) and UV Dose(mJ/cm<sup>2</sup>) in the spectral areas UV-A, UV-B, UV-C and Full UV, with SD-Memory Card.  
Additionally equipped with temperature sensor.

#### 53.5. UV-2C Cube Logger:

UV-Datalogger, with two sensors for the individual measuring and recording of UV Intensity (mW/cm<sup>2</sup>) and UV Dose(mJ/cm<sup>2</sup>), with SD-Memory Card.  
Choice of two spectral areas UV-A, UV-B oder UV-V

#### 53.6. UV-2C-T Cube Logger:

UV-Datalogger, with two sensors for the individual measuring and recording of UV Intensity (mW/cm<sup>2</sup>) and UV Dose(mJ/cm<sup>2</sup>), with SD-Memory Card.  
Choice of two spectral areas UV-A, UV-B oder UV-V Additionally equipped with temperature sensor.

#### 53.7. UV-4C Cube Logger:

UV-Datalogger, with four sensors for the individual measuring and recording of UV Intensity (mW/cm<sup>2</sup>) and UV Dose(mJ/cm<sup>2</sup>) in the spectral areas UV-A, UV-B, UV-C, UV-V and Full UV, with SD-Memory



### Item 54 UV-MICROLOG II

Small, extra flat, pass-through UV sensor unit for the measuring of UV intensity in mW/cm<sup>2</sup> and UV dose mJ/cm<sup>2</sup>.

Measuring of the performance of the entire UV process with peaks and dose for each lamp individually, and total UV-dose. Measuring period 30/60 sec.

Auto-OFF function for battery saving. Connection to a computer via USB for read-out of

Available round or rectangular and in 5 different UV-ranges

round diameter 70 mm, height 8 mm

rectangular: 60 x 50 mm, height 8 mm



### Item 55. UV-1400 Radiometer + Dosimeter

Small, versatile instrument to measure UV-Intensity (mW/cm<sup>2</sup>) and UV-Dose (mJ/cm<sup>2</sup>) available in various spectral areas

Item 55.1 UV-1400 Radiometer + Dosimeter, Type 1, Diazo	350 - 460 nm
Item 55.2 UV-1400 Radiometer + Dosimeter, Type 2, UV-A	315 - 400 nm
Item 55.3 UV-1400 Radiometer + Dosimeter, Type 3, UV	250 - 410 nm
Item 55.4 UV-1400 Radiometer + Dosimeter, Type 4, UV-B	280 - 315 nm
Item 55.5 UV-1400 Radiometer + Dosimeter, Type 5, UV-C	230 - 280 nm



### Item 56 UV-Meter DUO

Direct measuring of the UV-Intensity in mW/cm<sup>2</sup> in two different spectral areas. With two probe-type sensors. The sensors are automatically detected when plugged to the hand unit. Available in various combinations

56.2.1 UV-Meter DUO, Type 1, UV + UV-A	250 - 410 nm + 315 - 400 nm
56.2.2 UV-Meter DUO, Type 2, UV + UV-B	250 - 410 nm + 280 - 315 nm
56.2.3 UV-Meter DUO, Type 3, UV + UV-C	250 - 410 nm + 230 - 280 nm
56.2.4 UV-Meter DUO, Type 4, UV + UV-V	250 - 410 nm + 350 - 460 nm
56.2.5 UV-Meter DUO, Type 5, UV-A + UV-B	315 - 400 nm + 280 - 315 nm
56.2.6 UV-Meter DUO, Type 6, UV-A + UV-C	315 - 400 nm + 230 - 280 nm
56.2.7 UV-Meter DUO, Type 7, UV-A + UV-V	315 - 400 nm + 350 - 460 nm
56.2.8 UV-Meter DUO, Type 8, UV-B + UV-C	280 - 315 nm + 230 - 280 nm
56.2.9 UV-Meter DUO, Type 9, UV-B + UV-V	280 - 315 nm + 350 - 460 nm



### Item 57. UV-Wireless Data Sampler SD

Pass through data sampler for the acquisition of UV-intensity, UV-dose or temperature. Measuring data are stored on an SD-Memory Card and can be downloaded to a computer for further editing by a special Scanchart Evaluation Software.

#### 57.2 UV-3C Wireless Data Sampler SD

UV-intensity and UV-dose separate for UV-A, UV-B and UV-C

#### 57.3 UV-T Wireless Data Sampler SD

UV-intensity, UV-dose and temperature, various spectral ranges available

#### 57.4 UV-3C-T Wireless Data Sampler SD

UV-intensity and UV-dose separate for UV-A, UV-B and UV-C + temperature

#### 57.5 UV-2C Wireless Data Sampler SD

UV-intensity and UV-dose with a choice out of UV, various combinations and spectral ranges available

#### 57.6 UV-2C-T Wireless Data Sampler SD

UV-intensity, UV-dose and temperature with a choice out of UV, various combinations and spectral ranges available

#### 57.7 UV-4C Wireless Data Sampler SD

UV-intensity and UV-dose separate for UV-A, UV-B, UV-C and UV-V

#### 57.8 UV-4C-T Wireless Data Sampler SD

UV-intensity, UV-dose and temperature separate for UV-A, UV-B, UV-C and UV-V + temperature

#### 57.9.1 Battery Charger for Wireless Data Sampler



### Item 58. UV COLOR Wireless Data Sampler SD

Pass through data sampler for the acquisition of UV-intensity, UV-dose or temperature. Big, high resolution Color display for graphic and numerical display of measuring data. Measuring data are stored on an SD-Memory Card and can be downloaded to a computer for further editing by a special Scanchart Evaluation Software.

#### 58.2 UV-3C COLOR Wireless Data Sampler SD

UV-intensity and UV-dose separate for UV-A, UV-B and UV-C

#### 58.3 UV-T COLOR Wireless Data Sampler SD

UV-intensity, UV-dose and temperature, various spectral ranges available

#### 58.4 UV-3C-T COLOR Wireless Data Sampler SD

UV-intensity and UV-dose separate for UV-A, UV-B and UV-C + temperature

#### 58.5 UV-2C COLOR Wireless Data Sampler SD

UV-intensity and UV-dose with a choice out of UV, various combinations and spectral ranges available

#### 58.6 UV-2C-T COLOR Wireless Data Sampler SD

UV-intensity, UV-dose and temperature with a choice out of UV, various combinations and spectral ranges available

#### 58.7 UV-4C COLOR Wireless Data Sampler SD

UV-intensity and UV-dose separate for UV-A, UV-B, UV-C and UV-V

#### 58.8 UV-4C-T COLOR Wireless Data Sampler SD

UV-intensity, UV-dose and temperature separate for UV-A, UV-B, UV-C and UV-V + temperature

#### 58.9.1 Battery Charger for Wireless Data Sampler

### Item 59. UV-IR Data Sampler 16 Channel XPC2516

Small, portable, pass-through, UV & temperature data sampling unit for UV & IR Curing systems, UV & IR Profile Analysing and 3D-UV & IR Data Acquisition.

Any combination of up to 16 individual sensors can be configured.

Mini IDX computer, radio-controlled mini keyboard and a 17" TFT monitor.

After passage of the curing chamber the recorded data can be viewed and further edited by a special Microsoft Evaluation Software.

The sensors are probe-type round sensors connected with a flexible cable.

The measuring results are displayed on graphs as mW/cm<sup>2</sup>, mJ/cm<sup>2</sup> and as a temperature curve. The monitor displayed graphs show the complete profile and offers zooming and auto scale functions.

### Item 60. UV-IR Monitoring 16 Channel PC2516

UV-Monitoring System PC2516 for fix installation and permanent surveillance of up to 16 lamps.

The system is based on a MINI IDX computer installed in a 19" rack and comes with radio-controlled keyboard. Display of the actual lamp power for up to 16 lamps simultaneously on a built in 8" TFT screen .

Any combination of up to 16 individual sensors, UV, UV-A, UV-B, UV-C or temperature can be configured

The UV-Monitoring System PC2516 is available with cabled sensors or data transmission via WLAN .

60.1 UV-Monitoring Pc2516

60.2 UV-Monitoring PC2516 Wireless LAN

60.1.ff Sensors UV

60.3.1 Sensor Temperature 0-150 °C (32-302 °F)

60.4.1 Sensor Nitrogen

60.2.1 WLAN Transmission Set

### Item 61 UV-Tester LED

Small, handy equipment for testing of UV meters. Equipped with an LED-Light source 400 nm, 1000 mW. Interchangeable adaptors for different sensors are available.



**Item 62. UV-1000 Colour Series Radiometer + Dosimeter**

(Please note: models with more than 2 sensors are presently not available, please refer to item 64)

**62.1. UV-1000 Colour:**

Radiometer + Dosimeter with extra big TFT colour display, diam. 140 mm, height 13 mm incl. heat shield. Graphical and numerical display of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>), In various spectral areas available.

**62.2. UV-1300 Colour:**

Radiometer + Dosimeter with three sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B and UV-C or UV-V as well as full UV

**62.3. UV-1010 Colour:**

Radiometer + Dosimeter with one UV sensor, one temperature sensor, Graphical and numerical display of UV Intensity (mW/cm<sup>2</sup>), UV dose (mJ/cm<sup>2</sup>) and temperature. In various spectral areas available.

**62.4. UV-1310 Colour:**

Radiometer + Dosimeter with three sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B and UV-C or UV-V as well as full UV  
Additionally equipped with one temperature sensor.

**62.5. UV-1200 Colour:**

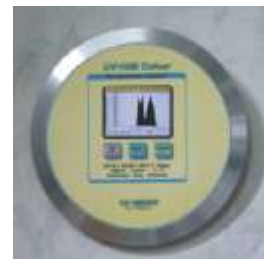
Radiometer + Dosimeter with two sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>). Choice of a combination of UV-A, UV-B, UV-C oder UV-V

**62.6. UV-1210 Colour:**

Radiometer + Dosimeter with two sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>). Choice of a combination of UV-A, UV-B, UV-C oder UV-V. Additionally equipped with one temperature sensor.

**62.7. UV-1400 Colour:**

Radiometer + Dosimeter with four UV sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B, UV-C and UV-V as well as full UV.

**Item 63. UV-1050 Colour SD Series Radiometer + Dosimeter**

(Please note: models with more than 2 sensors are presently not available, please refer to item 65)

**63.1. UV-1050 Colour SD:**

Radiometer + Dosimeter with extra big TFT colour display, diam. 140 mm, height 13 mm incl. heat shield. Graphical and numerical display of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>), With SD-Memory Card Slot and PC evaluation software. In various spectral areas available.

**63.2. UV-1350 Colour SD:**

Radiometer + Dosimeter with three sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B and UV-C or UV-V as well as full UV

**63.3. UV-1060 Colour SD:**

Radiometer + Dosimeter with one UV sensor, one temperature sensor, Graphical and numerical display of UV Intensity (mW/cm<sup>2</sup>), UV dose (mJ/cm<sup>2</sup>) and temperature. In various spectral areas available.

**63.4. UV-1360 Colour SD:**

Radiometer + Dosimeter with three sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B and UV-C or UV-V as well as full UV  
Additionally equipped with one temperature sensor.

**63.5. UV-1250 Colour SD:**

Radiometer + Dosimeter with two sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>). Choice of a combination of UV-A, UV-B, UV-C oder UV-V

**63.6. UV-1260 Colour SD:**

Radiometer + Dosimeter with two sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>). Choice of a combination of UV-A, UV-B, UV-C oder UV-V. Additionally equipped with one temperature sensor.

**63.7. UV-1450 Colour SD:**

Radiometer + Dosimeter with four UV sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B, UV-C and UV-V as well as full UV.



### Item 64. UV-1000 RE Colour Series Radiometer + Dosimeter

#### 64.1. UV-1000 RE Colour:

Radiometer + Dosimeter with extra big TFT colour display, dim. 105 x 165 mm, height 13 mm incl. heat shield. Graphical and numerical display of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>), In various spectral areas available.

#### 64.2. UV-1300 RE Colour:

Radiometer + Dosimeter with three sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B and UV-C or UV-V as well as full UV

#### 64.3. UV-1010 RE Colour:

Radiometer + Dosimeter with one UV sensor, one temperature sensor, Graphical and numerical display of UV Intensity (mW/cm<sup>2</sup>), UV dose (mJ/cm<sup>2</sup>) and temperature. In various spectral areas available.

#### 64.4. UV-1310 RE Colour:

Radiometer + Dosimeter with three sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B and UV-C or UV-V as well as full UV  
Additionally equipped with one temperature sensor.

#### 64.5. UV-1200 RE Colour:

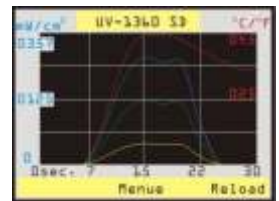
Radiometer + Dosimeter with two sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>). Choice of a combination of UV-A, UV-B, UV-C oder UV-V

#### 64.6. UV-1210 RE Colour:

Radiometer + Dosimeter with two sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>). Choice of a combination of UV-A, UV-B, UV-C oder UV-V. Additionally equipped with one temperature sensor.

#### 64.7. UV-1400 RE Colour:

Radiometer + Dosimeter with four UV sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B, UV-C and UV-V as well as full UV.



### Item 65. UV-1050 SD Colour RE Series Radiometer + Dosimeter

#### 65.1. UV-1050 SD Colour RE:

Radiometer + Dosimeter with extra big TFT colour display, dim. 105 x 165 mm, height 13 mm incl. heat shield. Graphical and numerical display of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>), With SD-Memory Card Slot and PC evaluation software. In various spectral areas available.

#### 65.2. UV-1350 SD Colour RE:

Radiometer + Dosimeter with three sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B and UV-C or UV-V as well as full UV

#### 65.3. UV-1060 SD Colour RE:

Radiometer + Dosimeter with one UV sensor, one temperature sensor, Graphical and numerical display of UV Intensity (mW/cm<sup>2</sup>), UV dose (mJ/cm<sup>2</sup>) and temperature. In various spectral areas available.

#### 65.4. UV-1360 SD Colour RE:

Radiometer + Dosimeter with three sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B and UV-C or UV-V as well as full UV  
Additionally equipped with one temperature sensor.

#### 65.5. UV-1250 SD Colour RE:

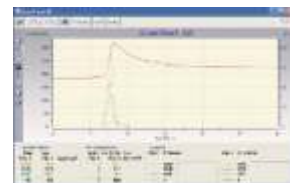
Radiometer + Dosimeter with two sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>). Choice of a combination of UV-A, UV-B, UV-C oder UV-V

#### 65.6. UV-1260 SD Colour RE:

Radiometer + Dosimeter with two sensors for the individual measuring of UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>). Choice of a combination of UV-A, UV-B, UV-C oder UV-V. Additionally equipped with one temperature sensor.

#### 65.7. UV-1450 SD Colour RE:

Radiometer + Dosimeter with four UV sensors for the individual measuring UV Intensity (mW/cm<sup>2</sup>) and UV dose (mJ/cm<sup>2</sup>) in the spectra UV-A, UV-B, UV-C and UV-V as well as full UV.



### Item 66. UV-MICROLOG 10

Small, extra flat, pass through data sampler for the acquisition of UV-energy, UV-dose or temperature. Size 115 x 60 x 10 mm (4.5 x 2.4 x 0.4"). With SD Memory Card Slot for storing data can be downloaded to a computer for further editing by Microsoft Evaluation Software.

#### 66.1 UV MICROLOG 10

UV-intensity and UV-dose, various spectral ranges available

#### 66.2 UV-3C MICROLOG 10

UV-intensity and UV-dose separate for UV-A, UV-B and UV-C

#### 66.3 UV-T MICROLOG 10

UV-intensity, UV-dose and temperature, various spectral ranges available

#### 66.4 UV-3C-T MICROLOG 10

UV-intensity and UV-dose separate for UV-A, UV-B and UV-C + temperature

#### 66.7 UV-4C MICROLOG 10

UV-intensity and UV-dose separate for UV-A, UV-B, UV-C and UV-V



### Item 67. Data Sampler PL 2516 SD (16-Channel)

The Data Sampler 1-16 Channel is a portable, pass-through, UV & temperature data sampling unit for UV & IR Curing systems, UV & temp Profile Analysing and 3D-UV & temp Data Acquisition.

Measuring data of up to 16 different sensors are stored on an SD Memory card for transfer and further evaluation to a PC.

Via USB connection it can be used for permanent direct measuring of up to 16 different sensors.

According to the customers' requirements, the UV-Data Sampler 16 Channel is available in various configurations.

Any combination of up to 16 individual sensors, UV, UV-A, UV-B, UV-C or temperature can be configured



### Item 68. Microlog 08 SD (8-Channel)

The Microlog 08 SD 1-8 Channel is a portable, pass-through, UV & temperature data sampling unit for UV & IR Curing systems, UV & temp Profile Analysing and 3D-UV & temp Data Acquisition.

Measuring data of up to 8 different sensors are stored on an SD Memory card for transfer and further evaluation to a PC.

The sensors are built-in and are on the back of the instrument.

According to the customers' requirements, any combination of up to 8 individual sensors, UV, UV-A, UV-B, UV-C or temperature can be configured



### Item 69 UV Online Monitoring PL 2506 SMA

The UV-Online Monitoring System PL 2506-SMA is a fix installed, UV monitoring system for UV Curing systems, UV Profile Analysing and 3D-UV Data Acquisition. In connection with a provided analogue or digital speed signal from the curing machine it is also in the position calculating the UV-dose. According to the customers' requirements, the UV-Monitoring system is available in various configurations

In its standard version the sensors resist temperatures up to 70° C/158° F. The optionally available optical light guides resist temperatures up to 350°/660° F. It comes without display. The system processes the UV-Intensity input and provides a 0-10 Volts output signal for each channel individually. Any combination of up to 6 individual sensors, UV, UV-A, UV-B, UV-C can be configured



### Item 70 UV Monitoring System PC 2532

UV-Monitoring System PC2532 for fix installation and permanent surveillance of up to 32 lamps. The system is based on a computer with radio controlled keyboard and mouse and a 19" monitor for the display of the actual lamp power for up 32 lamps simultaneously..

According to the customers' requirements, the UV-Monitoring PC2532 is available in various configurations. Any combination of up to 32 individual sensors, UV, UV-A, UV-B, UV-C or temperature can be configured. The UV-Monitoring System PC2532 is available with cabled sensors or data transmission via WLAN .

70.1 UV-Monitoring PC2532

70.2 UV-Monitoring PC2532 Wireless LAN

70.2.1 WLAN Transmission Set for UV-Monitoring PC25326

Sensors with cable connection:

70.1.1	Sensor UV	250-410 nm
70.1.2	Sensor UV-A	315-410 nm
70.1.3	Sensor UV-B	280-315 nm
70.1.4	Sensor UV-C	230-280 nm
70.1.5	Sensor UV-C	160-200 nm
70.1.6	Sensor UV-C	160-240 nm
70.1.7	Sensor UV-C	160-260 nm
70.1.8	Sensor UV-V	395-445 nm
70.5.0	pressure housing	
70.5.4	Sensor UV-C	240-290 nm in pressure housing
70.5.5	Sensor cable 5 m, 4 pole	
70.8.	Mirror Measuring Head for Optical Light Guide SMA	
70.9.2	Optical Light Guide 2.0 SMA	



### Item 71 UV-Datalogger Outdoor

The UV-Datalogger Outdoor is a portable System specially designed for the long-term monitoring and recording of the Intensity of the sun. The UV-Monitoring System Outdoor can be configured according to the customers' specifications with any choice of up to six sensors for daylight, UV-A, UV-B, UV-C, Full UV or temperature. Sample rates reach from 1 sec to 10 min, further sample rates can be configured.

With big TFT colour display, SD-Memory Card for recording.

Equipped with re-chargeable accu-cells and adaptor.

71.1.0	UV-Monitoring System Outdoor for up to 6 sensors
71.2.1	Sensor UV 250-410 nm
71.2.2	Sensor UV-A 315-400 nm
71.2.3	Sensor UV-B 280-315 nm
71.2.4	Sensor UV-C 230-280 nm
71.2.5	Sensor daylight 350-700 nm
71.3.1	Sensor Temperatur 0-150 °C (32-302 °F)
71.4.0	Display of $\mu\text{W}/\text{cm}^2$ (caillbrated) per sensor
71.5.0	Surcharge for water-tight sensors



## Item 72. UV-Integrators 120-10, specially designed for the CD / DVD Production

### Production

Diameter 4.7" (120 mm), height .4" (10 mm)

Option: With SD-Memory Card Slot for storing and evaluation software for downloading data to a computer (see item 73)

#### 72.1. UV-Integrator 120-10:

UV-Integrator, measuring UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ). various spectral ranges available

#### 72.2. UV-3C Integrator 120-10:

UV-Integrator, with three sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ) in the spectral ranges of UV-A, UV-B and UV-C or the total UV

#### 72.3. UV-T Integrator 120-10:

UV-Integrator, one UV-sensor, one temperature sensor, measuring UV dose ( $\text{mJ}/\text{cm}^2$ ), UV intensity ( $\text{mW}/\text{cm}^2$ ) and the peak of the temperature. various spectral ranges available

#### 72.4. UV-3C-T Integrator 120-10

UV-Integrator, with three UV sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ) in the spectral ranges of UV-A, UV-B and UV-C or the total UV. Additionally equipped with one temperature sensor.

#### 72.5. UV-2C Integrator 120-10:

UV-Integrator, with two sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ). Choice of the spectral ranges of UV-A, UV-B or UV-V

#### 72.6. UV-2C-T Integrator 120-10:

UV-Integrator, with two sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ). Choice of the spectral ranges of UV-A, UV-B or UV-V. Additionally equipped with one temperature sensor.

#### 72.7. UV-4C Integrator 120-10:

UV-Integrator, with four sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ) in the spectral ranges of UV-A, UV-B, UV-C and UV-V or the total UV

## Item 73. UV-Integrators 120-10 with SD-Memory Card Slot, specially designed for the CD / DVD Production

Diameter 4.7" (120 mm), height .4" (10 mm)

With SD-Memory Card for recording and evaluation software for downloading data to a computer

#### 73.1. UV-Integrator 120-10 SD:

UV-Integrator, measuring UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ). various spectral ranges available

#### 73.2. UV-3C Integrator 120-10 SD:

UV-Integrator, with three sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ) in the spectral ranges of UV-A, UV-B and UV-C or the total UV

#### 73.3. UV-T Integrator 120-10 SD:

UV-Integrator, one UV-sensor, one temperature sensor, measuring UV dose ( $\text{mJ}/\text{cm}^2$ ), UV intensity ( $\text{mW}/\text{cm}^2$ ) and the peak of the temperature. various spectral ranges available

#### 73.4. UV-3C-T Integrator 120-10 SD:

UV-Integrator, with three UV sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ) in the spectral ranges of UV-A, UV-B and UV-C or the total UV. Additionally equipped with one temperature sensor.

#### 73.5. UV-2C Integrator 120-10 SD:

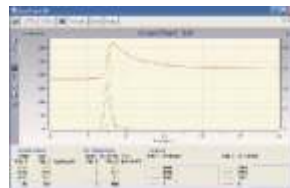
UV-Integrator, with two sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ). Choice of the spectral ranges of UV-A, UV-B or UV-V

#### 73.6. UV-2C-T Integrator 120-10 SD:

UV-Integrator, with two sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ). Choice of the spectral ranges of UV-A, UV-B or UV-V. Additionally equipped with one temperature sensor.

#### 73.7. UV-4C Integrator 120-10 SD:

UV-Integrator, with four sensors for individual measuring of UV intensity ( $\text{mW}/\text{cm}^2$ ) and total Integral of UV dose ( $\text{mJ}/\text{cm}^2$ ) in the spectral ranges of UV-A, UV-B, UV-C and UV-V or the total UV



### Item 74. UV-Meter UNIVERSAL

High quality instrument for the measurement of the UV-Intensity. Automatic detection of up to four different probe-type sensors.

Upon connection of a sensor, the instrument automatically changes to the required sensitivity. Additionally a manual switch allows switching of high/low intensity.

#### 74.1 UV-Meter UNIVERSAL

for available Probe-Type Sensors please see item 74.2.ff

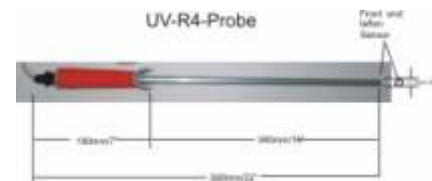
- 74.2.1 Probe-Type Sensor, Type 1, Diazo 350 - 460 nm
- 74.2.2 Probe-Type Sensor, Type 2, UV-A 315 - 400 nm
- 74.2.3 Probe-Type Sensor, Type 3, UV-B 280 - 315 nm
- 74.2.4 Probe-Type Sensor, Type 4, UV-C 230 - 280 nm
- 74.2.5 Probe-Type Sensor, Type 5, UV 250 - 410 nm
- 74.2.6 Probe-Type Sensor, Type 6, UV-V 350 - 460 nm



### Item 76 UV-Meter R4 Probe

Probe-type instrument with a rigid measuring rod on a handle for measurement of UV-intensity in hard accessible areas.

- 76.1.1 UV-Meter 54-Probe, Type 1, Diazo 350 - 460 nm
- 76.1.2 UV-Meter 54-Probe, Type 2, UV-A 315 - 400 nm
- 76.1.3 UV-Meter 54-Probe, Type 3, UV-B 280 - 315 nm
- 76.1.4 UV-Meter 54-Probe, Type 4, UV-C 230 - 280 nm
- 76.1.5 UV-Meter 54-Probe, Type 5, UV 230 - 410 nm
- 76.1.6 UV-Meter 54-Probe, Type 6, UV-V 395 - 445 nm



### Item 77 UV-Power Integrator 10

Small and flat, rectangular Integrator for the measuring of UV-Intensity (mW/cm2) and UV-Dose (mJ/cm2) Height only 10 mm / .4 inch, with re-chargeable accu-cells

In various configurations, partly with temperature measuring, available

- Item 77.1.1 UV-Power Integrator 10, Type 1 Diazo 350 - 460 nm
- Item 77.1.2 UV-Power Integrator 10, Type 2 UV-A 315 - 410 nm
- Item 77.1.3 UV-Power Integrator 10, Type 3 UV 230 - 410 nm
- Item 77.1.4 UV-Power Integrator 10, Type 4 UV-B 280 - 315 nm
- Item 77.1.5 UV-Power Integrator 10, Type 5 UV-C 230 - 280 nm
- Item 77.1.6 UV-Power Integrator 10, Type 6 UV-V 395 - 445 nm

- Item 77.2. UV-3C Power Integrator 10 UV-A, UV-B, UV-C
- Item 77.2.1. UV-3C Power Integrator 10 UV-A, UV-B, UV-V

- Item 77.3.1 UV-T Power Integrator 10, Type 1 Diazo 350 - 460 nm + Temp.
- Item 77.3.2 UV-T Power Integrator 10, Type 2 UV-A 315 - 410 nm + Temp.
- Item 77.3.3 UV-T Power Integrator 10, Type 3 UV 230 - 410 nm + Temp.
- Item 77.3.4 UV-T Power Integrator 10, Type 4 UV-B 280 - 315 nm + Temp.
- Item 77.3.5 UV-T Power Integrator 10, Type 5 UV-C 230 - 280 nm + Temp.
- Item 77.3.6 UV-T Power Integrator 10, Type 6 UV-V 395 - 445 nm + Temp.

- Item 77.4. UV-3C-T Power Integrator 10 UV-A, UV-B, UV-C + Temp
- Item 77.4.1. UV-3C-T Power Integrator 10 UV-A, UV-B, UV-V + Temp.

- Item 77.7. UV-4C Power Integrator 10 UV-A, UV-B, UV-C + UV-V



### Item 78. UV-Dosimeter UNIVERSAL

Kleines Durchlaufmessgerät zur Messung der UV-Intensität, der UV-Dosis und, je nach Ausführung, der Temperatur. Mit Display und aufladbaren Akkuzellen. Jede Kombination von bis zu 8 verschiedenen Sensoren kann konfiguriert werden

Optional kann das Gerät mit Aufzeichnungsfunktion auf SD-Karte und PC Auswertesoftware geliefert werden

- 78.0 UV-Dosimeter Universal ohne Sensor
- 78.1.1 Sensor UV 250-410 nm
- 78.1.2 Sensor UV-A 315-410 nm
- 78.1.3 Sensor UV-B 280-315 nm
- 78.1.4 Sensor UV-C 230-280 nm
- 78.1.8 Sensor UV-V 395-445 nm
- 78.1.5 Sensor UV-C 160-200 nm
- 78.1.6 Sensor UV-C 160-240 nm
- 78.1.7 Sensor UV-C 160-320 nm
- 78.3.1 Sensor Temperatur 0-150 °C (32-302 °F)

