

Guarantee Card

For this unit CON-TROL-CURE grants one year guarantee commencing on the date of shipping. The guarantee covers material and manufacturing defects and covers not only individual parts but also the cost of repair work. In the event of a claim please contact CON-TROL-CURE directly. The guarantee becomes void if the unit has been damaged by improper use or if repairs have been undertaken by unauthorized persons.

Type: DISKURE 365

Serial No.: _____

 Date of purchase

 Stamp and signature of dealer

Operating Instructions DISKURE 365

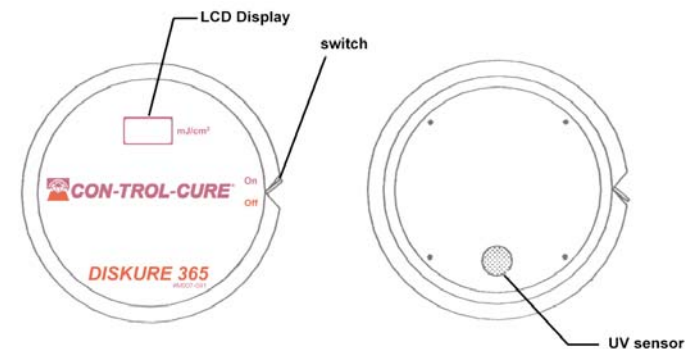


Figure 1: Front and rear view

1. General

With the CON-TROL-CURE® DISKURE 365 you have purchased a high-quality measuring unit for ascertaining UV capacity. Please read these instructions carefully and observe the advice given. These operating instructions will show you how to use the unit properly and also make you acquainted with the safety precautions.

2. Description of unit

The CON-TROL-CURE® DISKURE 365 is intended for measuring the UV capacity of exposure installations. A measuring head located at the rear of the unit records the UV emission in the spectral range between 250-410 nm. The measurement can be read directly on a LCD in millijoule per square centimeter (mJ/cm²). The UV Integrator is operated with a 3.6 volt lithium battery located inside the unit. By the use of special energy-saving circuits the battery will last for approx. 10,000 hours. Special filters absorb the visible as well as the infrared range of emission so that measuring is only done in the spectral range required.



Never look into direct or indirect (reflected) UV-light. Be sure to protect all parts of the body from UV light.

3. Application

The DISKURE 365 is to be used for determining UV capacities. Due to its flat design the unit is particularly suitable for measuring capacities in exposure units with low headroom.

Areas of application are e.g.:

- * UV drying installations
- * PCB exposure
- * Continuous exposure units
- * Copying units

5. Calibration

As all the electrical components, particularly light sensors, are subject to a certain aging process we recommend that the unit be calibrated once a year. The battery will also be replaced at this time.

6. Technical data

Display:	6-digit LCD display 0-999999 mJ/cm ²
Measuring range:	0-5000 mW/cm ²
Dimensions:	140 mm. diameter, 13 mm. thick
Weight:	500 g
Operating temperature:	0 - 700 C
Power supply:	3.6 V lithium battery
Service life:	approx. 10,000 hours
Spectral measuring range:	250 - 410 nm Max. 365 nm
Housing:	aluminum Stainless steel cover

7. Accessories

An extra conveyance housing with a heat shield is available for the two-sided continuous curer. The heat shield prevents the DISKURE 365 from warming up too much. At the same time the conveyance housing bridges interruptions in the conveyor system so that continuous passage of the DISKURE 365 can be assured.

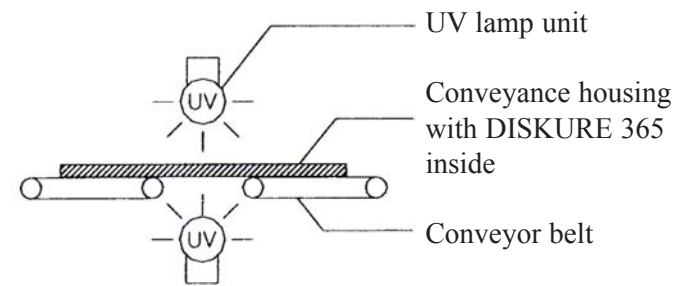


Figure 2: Bridging interruptions in the transport system

8. Important Information

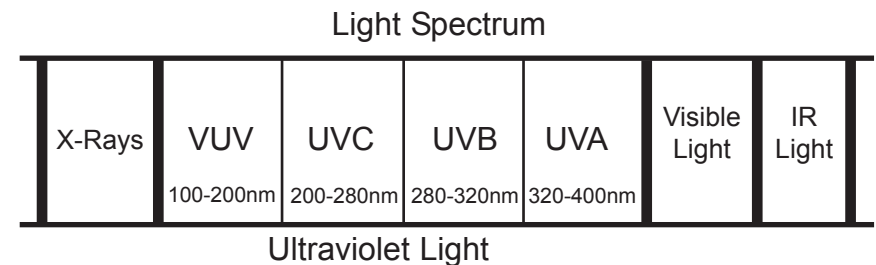


Figure 3: Light Spectrum

The visible light is only a small part of the electromagnetic radiation. The short-wave, still visible light appears to us to be violet. If the wave-lengths are even shorter, and we cannot see the radiation anymore, we are then within the range of the ultraviolet radiation (wave-length range approx. 100-400 nm).

We differentiate between the following UV rays:

UV-A 320 - 400 nm
UV-B 280 - 320 nm
UV-C 200 - 280 nm
Vacuum UV- VUV 100 - 200 nm

Nowadays UV rays are mainly produced by mercury vapor lamps. However, these lamps produce not only the required UV radiation but also infrared radiation as well as visible light.

We shall be pleased to answer any further questions you might have:

UV Process Supply, Inc.
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Fax 773-880-6647
e-mail info@uvps.com
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UV PROCESS SUPPLY, INC.

 **Attention:**

Please see that there is sufficient headroom where UV drying installations are concerned !!

4. Handling

In order to operate the unit please proceed as follows:

- * Set the DISKURE 365 into operation by activating the flip switch. A “0” appears on the LCD.
- * Put the measuring unit under the UV light source and let the exposure time expire, or in the case of UV drying installations place the integrator on the transport belt and let it run through (position the UV head at the rear of unit so that it is directed onto the light source).
- * After exposure, the measuring result appears on the display e.g. 550 mJ/cm².
- * Switch off the unit by using the flip switch or by switching off and on again to reset the integrator to “0”

 **Attention:**

Please make sure that the temperature of the housing does not exceed 70° C for more than a short time.