

UV Disc

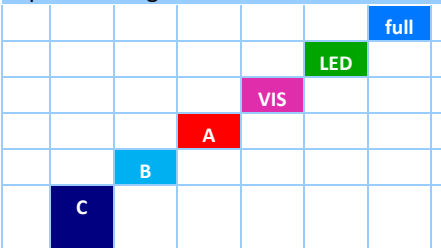
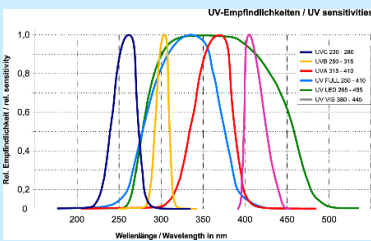
Integrator with integrated heat shield for measuring the uv dose

This measuring instrument measures the applied dose thereby examining the effects of UV lamp aging and contamination. It can be used where a conveyor belt (or similar) passes underneath uv lamps, e.g. in UV-curing ovens, photo-resist exposure systems, printed board exposure systems etc. which is typical in the furniture and printing industry, as well as PCB manufacturing and others where uv medium pressure lamps are used.

The UV Disc is placed on the conveyor belt or similar, so that the uv sensor on the back of this unit is facing towards the uv lamp. The sensor receives the incoming UV radiation while passing the lamps in one range and integrates it over the exposure time. The total dose afterwards is displayed on the LCD in mJ/cm^2 .



With regular measurements it is therefore possible to anticipate the time and minimum UV dose needed to avoid uncured products. UV lamps can then be cleaned or replaced at the right time, i.e. not too soon to save costs and not too late, to prevent curing problems.

Technical data		
Spectral ranges	Art. No.	Spectral range
	321 02500 0000 (standard version)	UV Full 250 – 410 nm
	321 02503 0000	UV-LED 265 – 495 nm *
	321 02513 0000	UV-VIS 395 – 445 nm
	321 02504 0000	UV-A 315 – 410 nm
	321 02508 0000	UV-B 280 – 315 nm
	321 02512 0000	UV-C 230 – 280 nm
	321 02509 0000 (low pressure)	UV-C 230 – 280 nm
Display	LCD, 6 digits	
Display range	1 – 999,999 mJ/cm^2 321 02509 0000 for UV-C low pressure lamps: 0.1-99,999.9 mJ/cm^2	
Intensity range	1 – 5,000 mW/cm^2 321 02503 0000 for UV-LED: 1 – 10.000 mW/cm^2 321 02509 0000 for UV-C-low pressure: 0.1 – 500.0 mW/cm^2	
Spectral measuring ranges	 <p>* UV-LED: 265 – 495 nm: for UV LEDs 320...405 nm</p>	
Heat shield	integrated	
Max. ambient temperature	110° C for 10 sec.	
Accuracy	± 5%	
Power source / Power consumption	lithium battery 3.6 V / 100 μA (up to approx. 10.000 operating hours)	
Housing	aluminium	
Dimensions / Weight	Ø 90 mm, height 12 mm / approx. 140 g	
Delivery	Battey, plastic case, calibration certificate	
Calibration	Acc. to DIN EN ISO / IEC 17025, can be traced back to PTB	

Note: An individual printing on for this UV Disc Integrator is possible (e.g. company logo), even for smaller quantities. If this is of interest, please contact us.