

UV-int[®]

UV-Integrator 150

The UV-Integrator 150 is a high quality UV measuring instrument. It is used to measure UV energy of different light sources, especially on printing machines. It is ideal to ensure quality control of printing and UV drying processes.

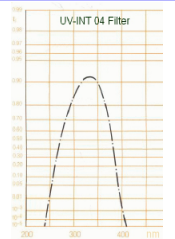
Small size, heavy duty pass-through Integrator with a diameter of 90 mm. It is reliable and simple to use.

The UV-Integrator 150 is available in five different measuring ranges:
(Please state upon order)

Model: UV-int 150

.1 Type 1 UV-Diazo	350 – 460 nm
.2 Type 2 UV-A	315 – 400 nm
.3 Type 3 UV	250 – 410 nm (Standard)
.4 Type 4 UV-B	280 – 315 nm
.5 Type 5 UV-C	230 – 280 nm
.6 Type 6 V-UV	130 – 250 nm

In the standard version it is measuring an integral in the spectral range from 250-410 nm, with a peak at the area of 365 nm.



By addition of the incidence of the light quantities during the exposure cycle, relative values are calculated.

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.

Technical Data:

Spectral range:	UV 250 – 410 nm
Measuring range:	0 to 5,000 mW/cm ²
Display:	6-digit LCD
Display range:	0 to 999,999 mJ/cm ²
Power source:	long life 3.6 V Lithium Battery
Power consumption:	100 µA
Battery service life:	10,000 hrs
Dimensions:	Ø 3.5" (90 mm), height ½" (12 mm)
Weight:	approx. 5.25 ounce (150 grs.)
Temperature range:	0 to 45° Centigrade
Heat protection:	Heat shield on back plate
Base Accuracy:	± 5 %



While on the conveyer belt, the UV-Integrator 150 can withstand max. 110° Centigrade for up to 10 seconds. The temperature of the housing should not exceed 45° Centigrade.

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.