

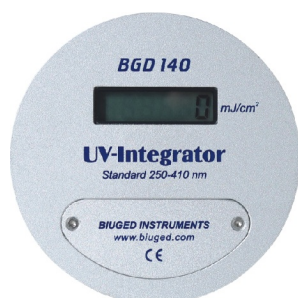
UV Integrator (UV Radiometer Dosimeter)

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

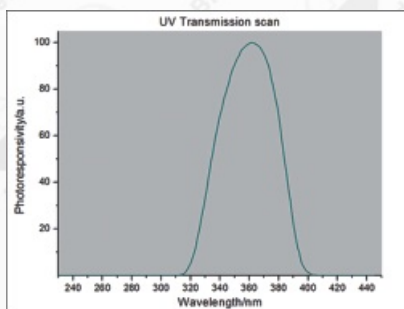
It is measuring an integral in the spectral range from 250nm~410 nm or 340nm~420nm, with a peak at the area of 365 nm or 395nm.

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

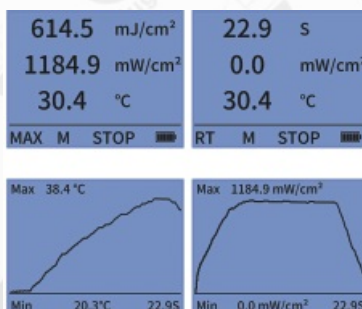
Because of uneven radiation distribution of the UV light source and different type of construction of the measuring devices by different manufacturers, different readings may appear under the same measurement conditions.



Ordering Information→ Parameter ↓	BGD 140 UV Integrator	BGD 142 UV LED Integrator
Suitable Light Source	High-Pressure Mercury Lamp& Halogen Lamp	UV LED Lamp
Spectral Response Range	250nm ~ 410nm, $\lambda_p = 365\text{nm}$	340nm ~ 420nm, $\lambda_p = 395\text{nm}$
Measurement Power Range	0 ~ 5,000 mW/cm ²	0 ~ 40,000 mW/cm ²
Measurement Energy Range	0 ~ 999, 999mJ/cm ²	
Power Resolution	0.1 mW/cm ²	1 mW/cm ²
Power Curve	No	Yes
Temperature Range	No	-55°C ~ 125°C
Power Supply	3V Lithium Battery (Replaceable)	2 AAA Alkaline Batteries
Overall Size	φ 95mm; Thickness is12mm	φ 120mm; Thickness is13mm
Net Weight	160 g	245 g
Work Environment	While on the conveyer belt, it can withstand max.110°C for up to 10 seconds	
Suggested Calibration Period	One year	



BGD142 Spectral Response Curve



Simultaneous measurement of energy, power, and temperature with display of power curve and temperature curve (BGD 142)