Biuged

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Professional
SERVICE

Four-Band UV Integrator

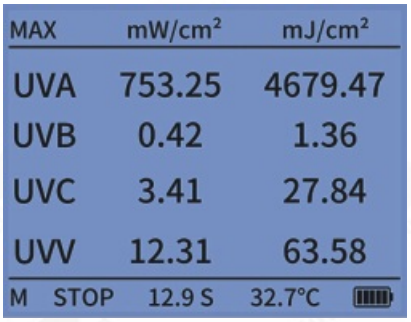
The **BGD 144 Four-Band Intergrator** simultaneously measures UV energy, UV intensity, temperature, and irradiation duration across four spectral bands. It is suitable for comprehensive UV intensity testing in various applications, including UV curing machines, UV drying systems, smartphone UV coating machines, exposure units, printing presses, and more. Compatible with multiple UV light sources such as high-pressure mercury lamps, halogen lamps, gallium lamps, iron lamps, and xenon lamps.

Features:

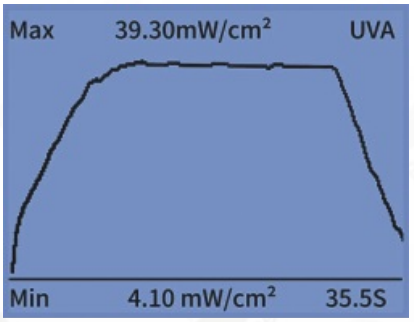
- Simultaneous measurement of UVA, UVB, UVC, and UVV energy & intensity
- Real-time monitoring of temperature & UV power with graphical display
- Ultra-high-speed sampling at 2048 times/second for precise measurements
- Built-in timer for accurate curing duration recording
- High-precision temperature sensor for dynamic temperature measurement in curing environments
- High-temperature resistance stable operation in 100℃ environments
- PC software included for data export and report generation

Large LCD Screen

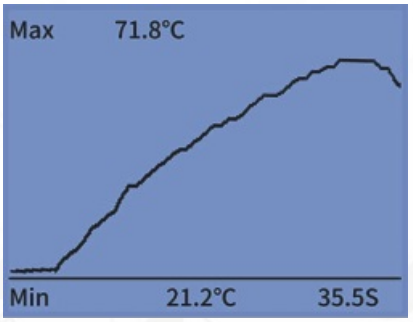
Equipped with a spacious LCD display that shows UV power and temperature in real time, along with clear graphical test curves and peak values.



Maximum Value Interface



Power Curve Interface for Each Band



Temperature Curve Interface

Main Technical Parameters:

- ★ Spectral Range: UVC (230~280nm; λp=254nm); UVB (280~315nm; λp=310nm); UVA (315~400nm; λp=365nm); UVV (395~445nm; λp=420nm)
- ★ Power Measurement Range: 0 ~ 2000 W/cm²
- ★ Power Resolution: 0.01 W/cm²
- ★ Energy Measurement Range: 0 ~ 999,999 mJ/cm²
- ★ Energy Accuracy: ±0.5 mW/cm² (H <5 mW/cm²); ±10% (H ≥5 mW/cm²)
- ★ Sampling Rate: 2048 times/sec
- ★ Power Data Logging Rate: 32 times/sec
- ★ Temperature Logging Rate: 2 times/sec
- ★ Max Recording Duration: 32 minutes
- ★ Measurement Units: μW/cm², mW/cm², W/m²
- ★ Dimensions: 120 mm (diameter)
- ★ **Ordering Information:** BGD 144––– Four–Band UV Integrator



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