KÜHNAST

RM300

UV-Radiometer III

Touch screen operation / 1 billion range / intelligent probe

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Overview

The RM300 touch screen ultraviolet irradiance meter adopts a high-definition full touch screen design, making operation simpler; Even in weak light, it can be quickly read with higher accuracy; The measurement mode can be switched, and the uniformity can be evaluated by testing different areas of the surface light source; The range can be automatically recognized and switched, truly achieving one machine testing from weak light to strong light,making instrument operation simpler and faster. Quickly and accurately measure the UV irradiance of various industries such as UV curing, lithography, phototherapy, sterilization, physical therapy fluorescence analysis, plant cultivation, water treatment, meteorology, and agricultural production under different light source intensities.

The instrument is divided into two parts: the host and the probe. The same host can be paired with multiple probes according to different usage needs, plug and play, to meet more usage scenarios. It can be widely used in laboratories, factories, or other on-site operations, and can achieve accurate ultraviolet light intensity and energy testing in almost all application fields of quality control.

Characteristic

1、The instrument adopts a 4.3 inch high-definition capacitive screen and a touch screen design, making operation easier; More intuitive display;

2、Adopting high-precision light receiver, testing weak and strong light in one machine;

3、Ultra large range, with a range change of up to 1 billion;

4、The maximum, minimum, average, and uniformity of sustainable statistical irradiance or energy data for each group;

5、Intelligent selection of range, the instrument can switch the range independently based on the strength of the light source;

6、One machine can be used for multiple purposes, and the same host can use different light receivers according to different light sources;

7、Equipped with high-precision temperature sensors, it can measure the actual temperature in real-time during instrument dynamic testing;

8、Compliant with regulations: the verification regulations of "JJG879-2015 Ultraviolet Radiation Illumino meter" and the national standard of "GBT34048-2017 Ultraviolet Radiation Meter";

9、The instrument has a built-in timer that can accurately record the measurement time;

10、The instrument can save 30 sets of test data, and can read and store data through PC software, export and generate reports;

11、Chinese/English language selection;

The main parameters

Model: RM300

Power range: 0.1uw/cm 2- 100000 MW/cm 2 (Automatically switch units based on the intensity of the light source)

Energy range: 0.1uj/cm 2 - 999999999.9 mj/cm 2

Power unit: uw/cm 2、 MW/cm 2、 W/cm 2、 W/m 2 (Can be automatically/manually switched)

Energy unit: uj/cm 2、 Mj/cm 2、 J/cm 2、 J/m 2 (Can be automatically/manually switched)

Range change: 1 billion

Power error: ± 5+5% H (H represents the measured value)

Energy error: ± 5%

Resolution: 0.1

Temperature measurement range: -55 ℃ -125 ℃

Temperature error: ± 0.5 ℃

Response speed: 2048 times/second

Screen refresh rate: 10 times/second

Operation mode: touch screen

Display window: 4.3-inch capacitive touch screen

Battery: 3000mAh lithium battery, with a sustainable range of about 10 hours

Automatic shutdown: 3-minute no induction or no operation automatic shutdown (not effective in charging state)

Operation prompt tone: yes/can be turned off

Operating environment: -20 ℃ -60 ℃, humidity less than 85%, no condensation

Language: Simplified Chinese, English

Size: Host (length 127mm x width 84mm x height 31mm)

Mode selection: regular mode, uniformity mode

Communication method: USB

Calibration cycle: To ensure measurement accuracy and effectiveness more accura