# UV METER

## PCE-UV 50




- **OLED display**
- **Compact design, only 8 mm high**
- **Temperature measurement up to 125°C / 257°F**
- **Measuring rate: 2048 x per second**
- **Data storage in case of power failure**
- **Maximum value storage**
- **Adjustable trigger value: 1 ... 50 mW/cm²**
- **Integrated timer**
- **Robust, heat-resistant metal housing**

The UV meter is a high-precision measuring instrument for the simultaneous measurement of UV irradiance in the range of 0 ...40000 mW/cm², the UV energy from 0 ...999999 mJ/cm² and the temperature in the range from -55°C ...125°C / -67 ... 257°F. With its wavelength range of 340 nm to 420 nm, it is ideal for applications in UV curing systems, UV dryers, UV LED light sources and exposure machines as well as for quality assurance of industrial UV processes in accordance with the QB/T 2826-2017 standard.

Equipped with a 1.4-inch OLED display, a high measuring rate of 2048 scans per second and a maximum recording time of 32 minutes, the UV meter delivers precise, fast and reproducible measurement results. During each measurement, the highest recorded value is automatically saved as the maximum value (MAX) and clearly displayed once the measurement is complete.

In automatic mode with the UV meter, the measurement can be started automatically by an individually adjustable trigger value in the range of 1 ...50 mW/cm² can be used to start the measurement automatically. This enables targeted detection of UV irradiation precisely from the desired threshold value - ideal for reproducible measurement conditions and process monitoring. An integrated timer enables the UV curing time to be recorded precisely and displayed directly.

## Specification

| Radiation | |
|---|---|
| Measuring range | 0 ... 40000 mW/cm² |
| Resolution | 1 mW/cm² |
| Accuracy | <50mW/cm²: ±5 mW/cm², >50 mW/cm²: ± 10% v.Mw. |
| **Radiation** | |
| Measuring range | 0 ... 999999 mJ/cm² |
| Resolution | 1 mJ/cm² |
| Accuracy | ± 10% v.Mw. |
| **Temperature** | |
| Measuring range | -55 ... +125 °C |
| Resolution | 0,1 °C |
| Accuracy | ±2 °C |

| General technical data | |
|---|---|
| Measuring functions | MAX |
| Display type | OLED |
| Display size | 1,4 Inch |
| Measuring rate | 2048 x per second |
| Interface | USB-C |
| Standard(s) | JJG 879-2015, QB/T 2826-2017 |
| Automatic power-off | 3 min |
| Wavelength range | 340 ... 420 Nm |
| Menu language | English, English (GB) |
| Protection class (device) | IP20 |
| Power supply | 5V DC, 1000 mA |
| (Rechargeable) battery | 1 x 3,7 V internal , Lithium-ion battery |
| Capacity | 400 mAh |
| Dimensions ( L x W x H ) | 102 x 102 x 8 mm |
| Weight | 137 g |

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