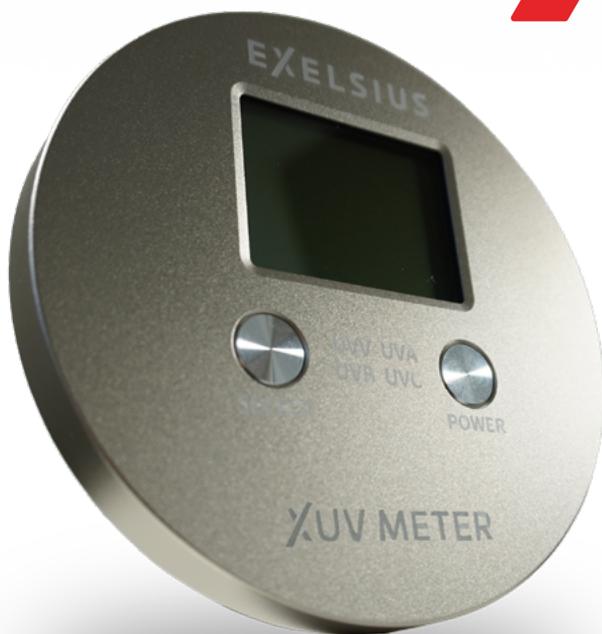


# EXELSIUS

PROCESS PARTNER FOR THE ELECTRONICS INDUSTRY

# XUV METER



**UV  
MEASUREMENT  
DEVICE**

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## **SOFTWARE OPERATION MANUAL**

Please read this manual carefully before using  
and reserve it for reference.

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## 1. INTRODUCTION TO LS\_UV ENERGY METER SOFTWARE

LS\_UV Energy Meter Software is the dedicated support software for the XUV Meter.

It allows users to read all measurement data stored in the device, display measurement curves, export data in Excel format, and generate and print reports.

The device is equipped with a USB communication interface.

To connect the meter to the computer, ensure that the device is in the STOP interface (the software cannot connect in other interfaces), then connect the USB cable and launch the LS\_UV Energy Meter Software. The software will establish communication with the device and read the stored data.

### REPORT GENERATION AND PRINTING

The software includes automatic report generation and printing functions.

Measurement data can be compiled into reports automatically and printed directly. If a PDF printer is installed on the computer, reports can also be generated and saved in PDF format, facilitating data recording and long-term archiving.

### USB DRIVER AND SYSTEM REQUIREMENTS

Manual installation of the USB driver is not required.

Simply connect the device to the computer to enable data reading. When the device is connected for the first time, the system may prompt a computer restart to allow the driver to be loaded automatically.

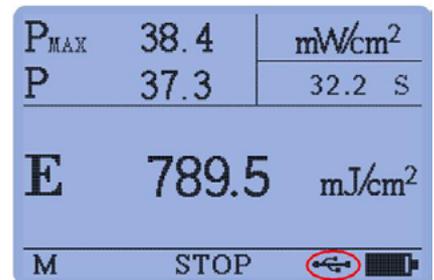
**Operating system:** Windows

**Recommended computer configuration:**

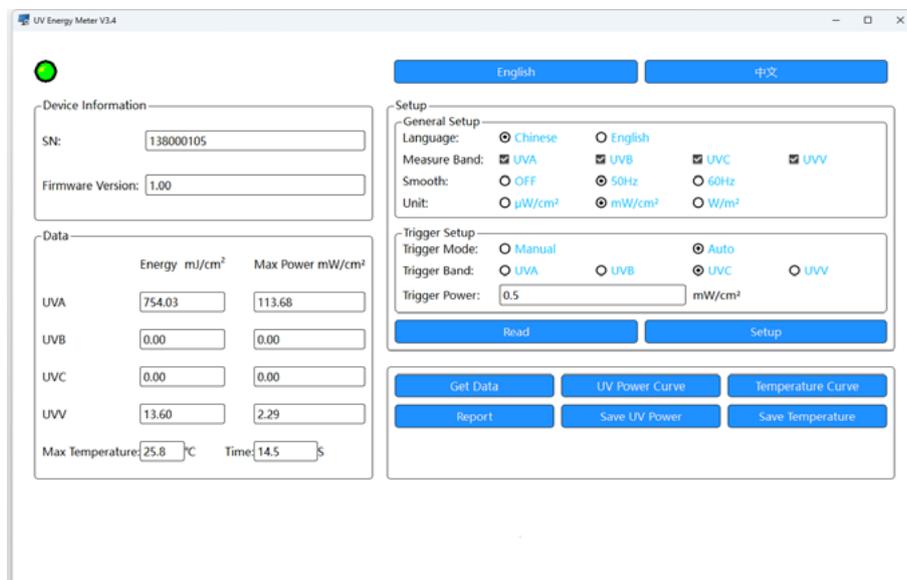
- 6th Generation Intel® Core™ i3 processor or higher
- RAM: more than 4 GB

### HARDWARE CONNECTION

Connect one end of the USB cable to the computer's USB port and the other end to the USB interface on the device. If the device is in measurement mode, a USB icon appears in the bottom-right corner of the display once the connection is established



## 2. SOFTWARE INTERFACE



## USB CONNECTION STATUS INDICATOR

- Normal device connection: Green
- Abnormal or no device connection: Dark red

## DEVICE INFORMATION

Displays the following information:

- Serial Number (SN)
- Firmware Version

## PARAMETER SETTING

### A. LANGUAGE

Sets the software interface language to Chinese or English.

### B. MEASUREMENT BAND

*(Displayed only when connected to a four-band instrument)*

The four-band instrument supports selection of the following bands:

- UVA
- UVB
- UVC
- UVV

### C. SMOOTH

When the UV light source is powered by AC power, the supply frequency can affect the accuracy of irradiance measurements. Selecting the correct frequency improves measurement accuracy.

- OFF: Select when no smoothing is required and the UV light source is powered by direct current (DC).
- 50 Hz: Select when the AC power frequency is 50 Hz.
- 60 Hz: Select when the AC power frequency is 60 Hz.

### D. UNIT

*(Displayed only when connected to a four-band instrument)*

The following measurement units are available:

- $\mu\text{W}/\text{cm}^2$
- $\text{mW}/\text{cm}^2$
- $\text{W}/\text{m}^2$

### E. TRIGGER MODE SELECTION

- Auto: After a measurement is started, the device begins measuring automatically when the measured power value exceeds the preset trigger power, and stops measuring when the measured value falls below the trigger power.
- Manual: Press the button to start and stop a measurement manually.

### F. TRIGGER POWER SETTING

*(Available only in Auto mode)*

Set the trigger power value used to start and stop measurements automatically in Auto trigger mode.

## FUNCTION BUTTONS

- 中文: Switch the interface language to Chinese
- English: Switch the interface language to English
- Setup: Write the configured parameters to the device
- Read: Read the device parameters and display them in the software
- Get Data: Read all historical data stored in the device
- UV Power Curve: Display the recorded UV power data curve
- Temperature Curve: Display the recorded temperature data curve
- Report: Generate and print the test report
- Save UV Power: Save UV power data in Excel format
- Save Temperature: Save temperature data in Excel format

## DATA DISPLAY AREA

Displays the following information:

- UV Energy
- Maximum UV Power
- Maximum Temperature
- Time

*Note: When connected to UV Energy Meter LS120 or LS128, the software supports Temperature Curve display and Save Temperature functions. Other devices do not support temperature-related functions and do not display temperature data.*

## 3.SOFTWARE OPERATION

- When the device is in the STOP interface (the software cannot connect in other interfaces), connect the device to the computer using the USB cable and launch LS\_UV Energy Meter. The software automatically retrieves the basic device information.
- Click “Get Data” to read the historical data stored in the device.
- To generate and print a report, click “Report”. The software automatically creates the report.

The statistical information includes:

- Value
- Maximum Power
- Maximum Temperature
- Time

- Click “Information” to enter the report header details.

After completing the header information, click “Print” to generate and print the report.

