# Ultrasonic Thickness Gauge Series

Software Operation Manual V1.0

## Introduction of the UltrasonicThicknessGauge Software

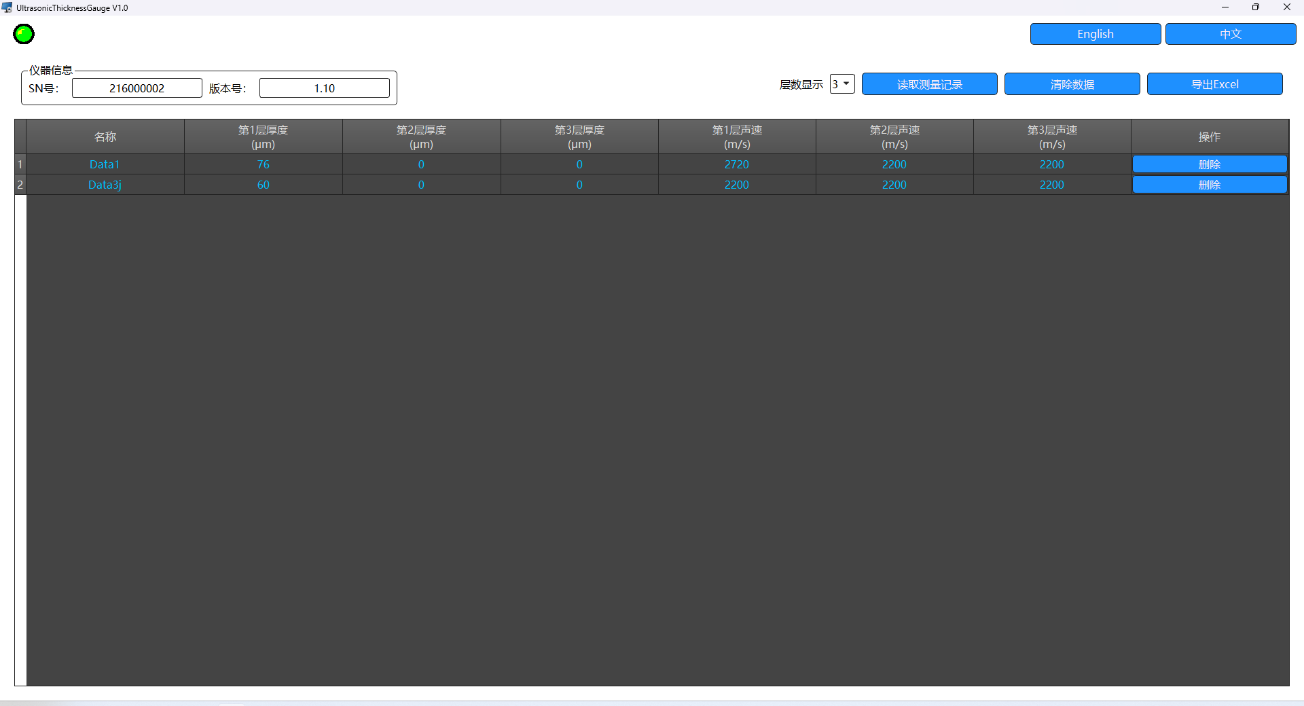
UltrasonicThicknessGauge is the companion software for the Ultrasonic Thickness Gauge series. It allows users to retrieve all recorded data from the instrument, upload measurement records directly to the software, and export data to Excel for convenient storage and analysis. The instrument is equipped with a USB communication port, and once the device is connected to a computer with a USB cable and the UltrasonicThicknessGauge software is launched, the data stored in the instrument can be accessed immediately.

No additional driver installation is required. When the instrument is connected to a computer for the first time, the system may prompt a restart to automatically complete the driver setup. The software currently supports Windows operating systems, with recommended hardware specifications of at least an Intel i3 6th generation processor and 4 GB RAM or higher.

* **Hardware connection**

Connect one end of the USB cable to the computer and the other end to the instrument’s USB port.

## Software Interface



* **USB Connection Status Indicator**

Device connected properly: “Green”

Device not connected or connection error: “Dark Red”

* **Instrument Information**

Displays the instrument serial number (SN) and version number.

* **Function Buttons**

“中文” button: Switch the interface to Chinese.

“English” button: Switch the interface to English.

“Layer Display”: Allows setting the number of layers, selectable as 1, 2, or 3. (This option only appears on multi-layer ultrasonic thickness gauges. Other instruments do not display it.)

“Read Records” button: Reads all historical measurement data stored in the instrument.

“Clear Data” button: Clears all displayed records from the interface.

“Export Excel” button: Saves the record data to an Excel file.

* + **Data Display Area**

Shows: Name, Layer 1 thickness, Layer 2 thickness, Layer 3 thickness, Layer 1 sound velocity, Layer 2 sound velocity, Layer 3 sound velocity, and Operation.

**Note:** The “Name” field only appears when the connected instrument supports record naming. The fields “Layer 2 thickness,” “Layer 3 thickness,” “Layer 2 sound velocity,” and “Layer 3 sound velocity” only appear when the connected instrument supports multi-layer measurements. Other instruments do not display these functions.

“Delete” button: Delete the currently selected record.

## Software Operation

* Connect the instrument to the computer and launch the UltrasonicThicknessGauge software. The software will automatically detect and display the instrument’s basic information.
* Click the “Read Records” button to retrieve all historical measurement data stored in the instrument.
* When taking new measurements with the instrument, the data can be uploaded directly to the software.

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