



Loop Resistance Tester PC Software

Software Manual

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The main interface of the software:

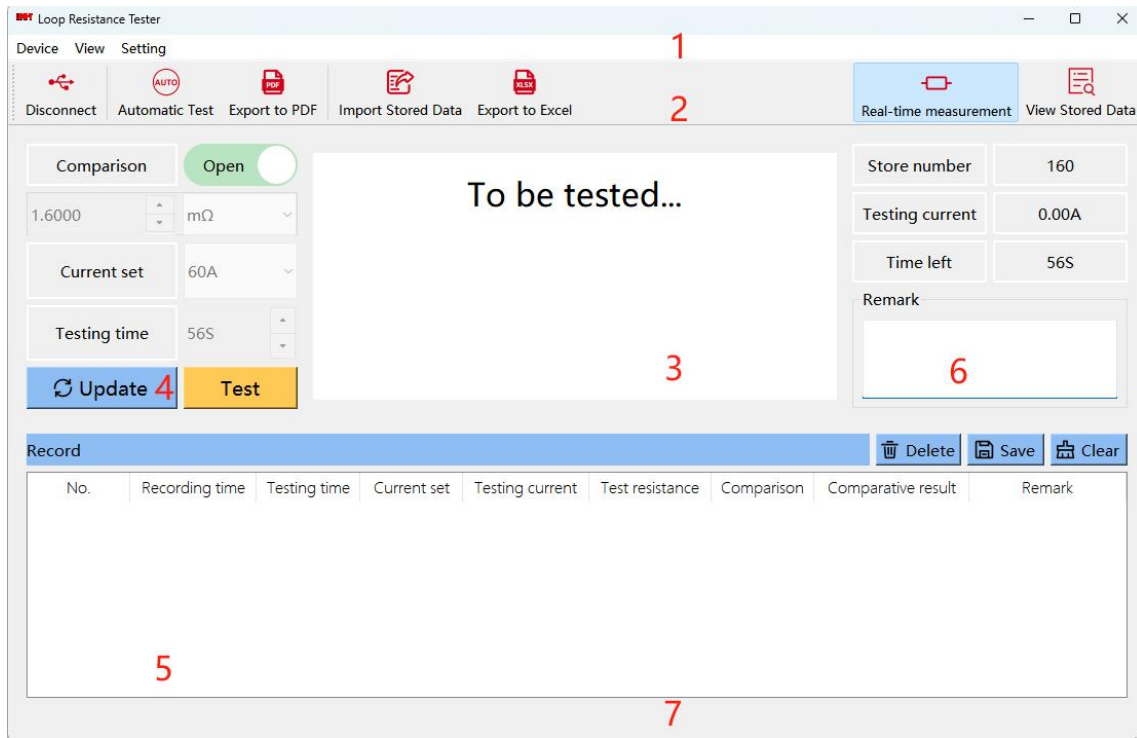


Figure 1 Real-time Measurement Interface

1	Main menu area	Various functions can be accessed through the main menu.
2	Toolbar area	The toolbar provides quick access to various functions.
3	Display area	Displays the real-time sampling data and test status of the device.
4	Command area	Modify the measuring device and send test commands.
5	Record area	Save the test records in the table.
6	Remark area	Make remarks on the test process.
7	Status bar area	Displays prompts and status information.

1. "Device" Menu

1.1. Connect



Connect the computer and the tester with a USB cable, turn on the PC software switch in the tester settings, open the PC software, click the "Connect" button, if the connection is successful, it will be displayed as "Disconnect", and start reading real-time data. Tap "Disconnect" to disconnect the device.

1.2. Automatic Test



Click the "Automatic Test" button:

- > Set the number of tests and the time interval between two tests, click the "OK" button to save the current setting and start the automatic test.
- > Click the "Cancel" button to cancel the automatic test.

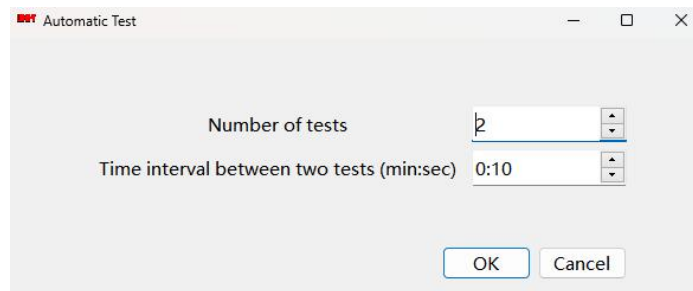


Figure 2 Automatic Test Setting Window

- > Every time a complete test is performed, the data is automatically saved in a record table.
- > Click the "Exit Automatic Test" button in the pop-up window to exit the automatic test.

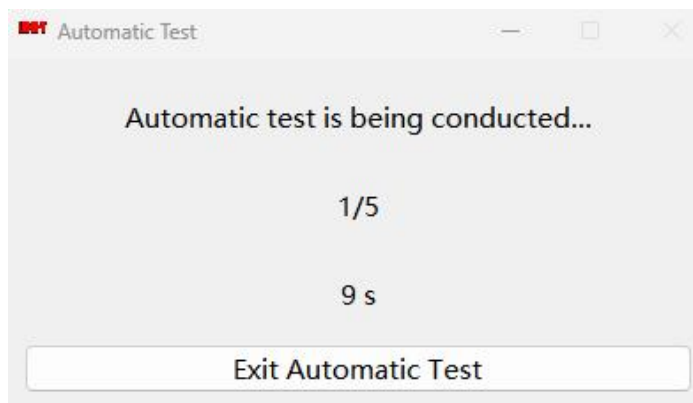
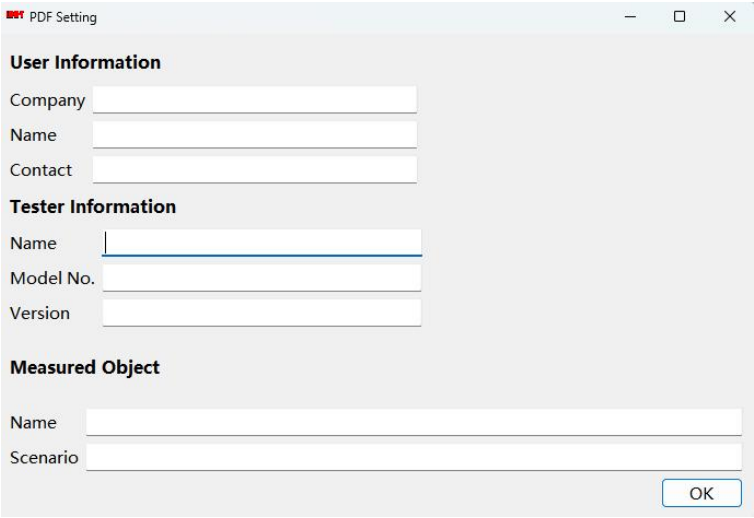


Figure 3 Under Automatic Test Window

1.3. Export to PDF



Click the "Export to PDF" button to pop up the PDF setting window, and click the "OK" button to export the PDF file of real-time data.



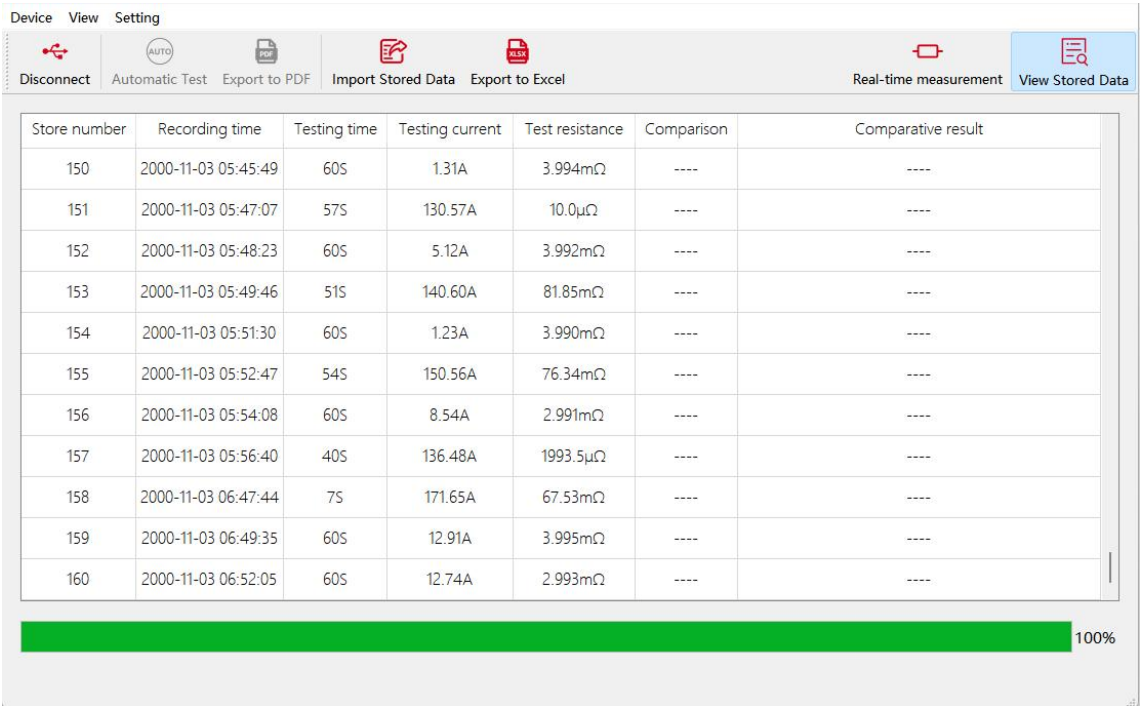
The PDF Setting window is a dialog box with a title bar containing a PDF icon and the text "PDF Setting". It has three main sections: "User Information" with fields for Company, Name, and Contact; "Tester Information" with fields for Name, Model No., and Version; and "Measured Object" with fields for Name and Scenario. An "OK" button is located at the bottom right.

Figure 4 PDF Setting Window

1.4. Import Stored Data



Click the "Import Stored Data" button to read the data stored in the device.If you disconnect the device, or if you click "Real-time measurement", the import of stored data will be interrupted.



The main application window has a menu bar with "Device", "View", and "Setting". Below it is a toolbar with buttons: "Disconnect", "Automatic Test", "Export to PDF", "Import Stored Data" (highlighted), "Export to Excel", "Real-time measurement", and "View Stored Data". The main area contains a table with 7 columns: "Store number", "Recording time", "Testing time", "Testing current", "Test resistance", "Comparison", and "Comparative result". The table has 12 rows of data. At the bottom, there is a green progress bar at 100%.

Store number	Recording time	Testing time	Testing current	Test resistance	Comparison	Comparative result
150	2000-11-03 05:45:49	60S	1.31A	3.994mΩ	----	----
151	2000-11-03 05:47:07	57S	130.57A	10.0μΩ	----	----
152	2000-11-03 05:48:23	60S	5.12A	3.992mΩ	----	----
153	2000-11-03 05:49:46	51S	140.60A	81.85mΩ	----	----
154	2000-11-03 05:51:30	60S	1.23A	3.990mΩ	----	----
155	2000-11-03 05:52:47	54S	150.56A	76.34mΩ	----	----
156	2000-11-03 05:54:08	60S	8.54A	2.991mΩ	----	----
157	2000-11-03 05:56:40	40S	136.48A	1993.5μΩ	----	----
158	2000-11-03 06:47:44	7S	171.65A	67.53mΩ	----	----
159	2000-11-03 06:49:35	60S	12.91A	3.995mΩ	----	----
160	2000-11-03 06:52:05	60S	12.74A	2.993mΩ	----	----

Figure 5 Import Stored Data

1.5. Export to Excel



Click the "Export to Excel" button to export the Excel file of stored data.

1.6. Device Information



Click the "Device Information" button to view the device name, model, and version.

2.“View” Menu

2.1. Real-time Measurement



Click "Real-time measurement" to display the real-time measurement page and start reading the real-time data.

2.2. View Stored Data



Click "View Stored Data" to display the Import Storage Data page, where you can view the imported storage data.

2.3. Measurement Page

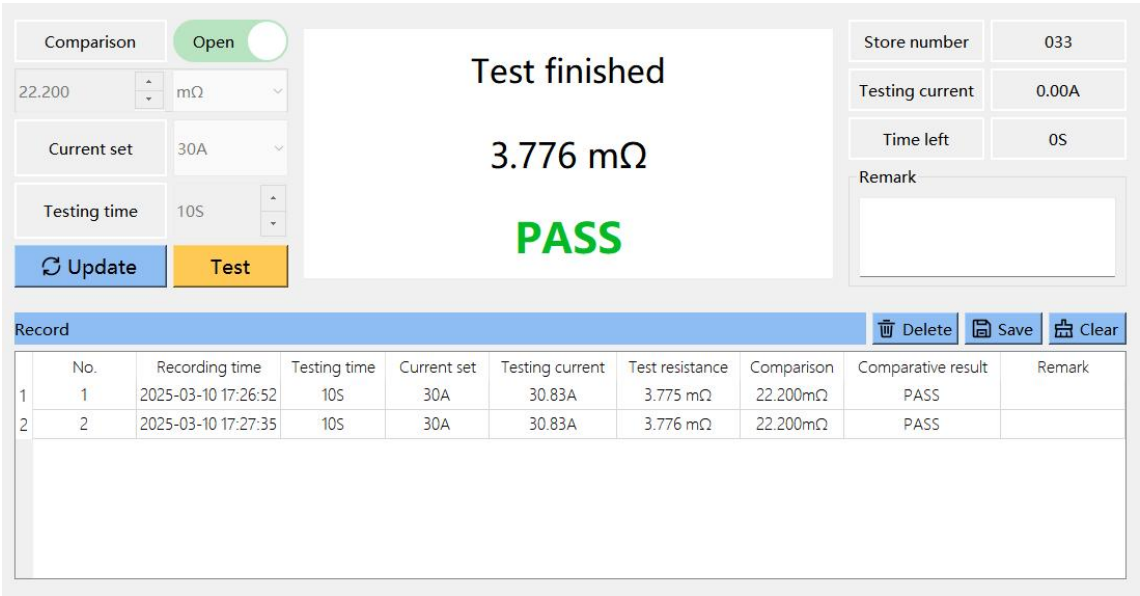


Figure 6 Measurement Page

- 1. Displays real-time measurement data.
- 2. Measurement setting:
 - > When the "Update" button is blue, click the button to turn green, and the measurement parameters can be changed, and reading real-time data is stopped.
 - > When the "Update" button is green, click the button to turn blue, and the measurement parameters cannot be changed, and reading the real-time data is started.

> After the modification of the measurement parameters is completed, press Enter or click other controls to indicate that the modification is completed, if successful, the measurement parameters of the tester will be changed.

> If the setting is failed, the status bar displays "Failed to update measurement setting". If the setting is successful, the status bar displays "Successful to update measurement setting successful."

3. "Test" button:

> When the "Test" button is blue, click the button to turn green and be in the testing state.

> When the "Test" button is green, click the button to turn blue and be in the test stopped state.

4. Remark

Make remarks on the test process.

5. Measurement record

When the test is stopped, the test data is automatically added to the record table.

> Click the "Delete" button to delete the selected rows.

> Click the "Save" button to export the record table to an Excel file.

> Click the "Clear" button to clear all the data in the record table.

3. "Setting" Menu

3.1. Language

• English

Click "Language" -> "English" to clear the data, initialize the interface, and set the page language to English.

• 简体中文

Click "Language" -> "Chinese" to clear the data, initialize the interface, and set the page language to Chinese.

3.2. Sampling Frequency Setting

⚙ Sampling Frequency

Click "Sampling Frequency Setting" to set the sampling Frequency for real-time data. The configurable range is 200ms-800ms.

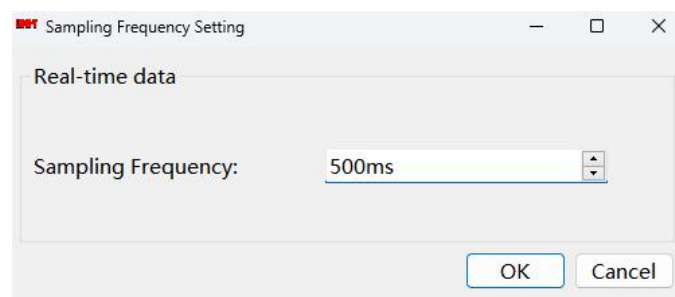


Figure 7 Sampling Frequency Setting Window