TRIPLETT Test Equipment & Tools

Software Help File

SLM600-KIT
Sound Datalogger Kit with Calibrator

Sound Level Meter Software Introduction

Sound Level Meter Software is a program for downloading data from memory of the meter or collecting data from meter which is connected to a PC or notebook. You may process these data with a graphic or text style interface. This program is very easy to use via the graphical user interface. The major functions are all indicated on the main software window with large icons, and users do not have to search the functions on the menus.

System Requirements

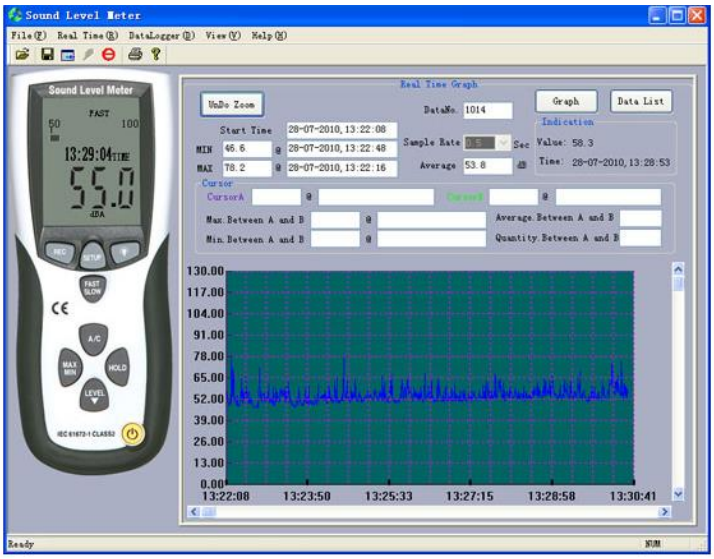
Operating System: Windows XP or Windows 7 or above.

Minimum Hard requirements:

- PC or Notebook Computer with Pentium 90MHz or higher
- 32 MB RAM
- At least 5 MB byte hard disk space for the software supplied.
- Display resolution of at least 800X600 with High Color (16 bit).

PC / Meter Communication

1. Connect the meter to the PC using the supplied USB cable.
2. Turn the meter ON and press the SETUP button.
3. Launch the application program. By Clicking on the SLM600 Shortcut on your Desktop
4. Select the COM port that has the CP210X driver installed.
5. Data will appear on the PC when communication is established.



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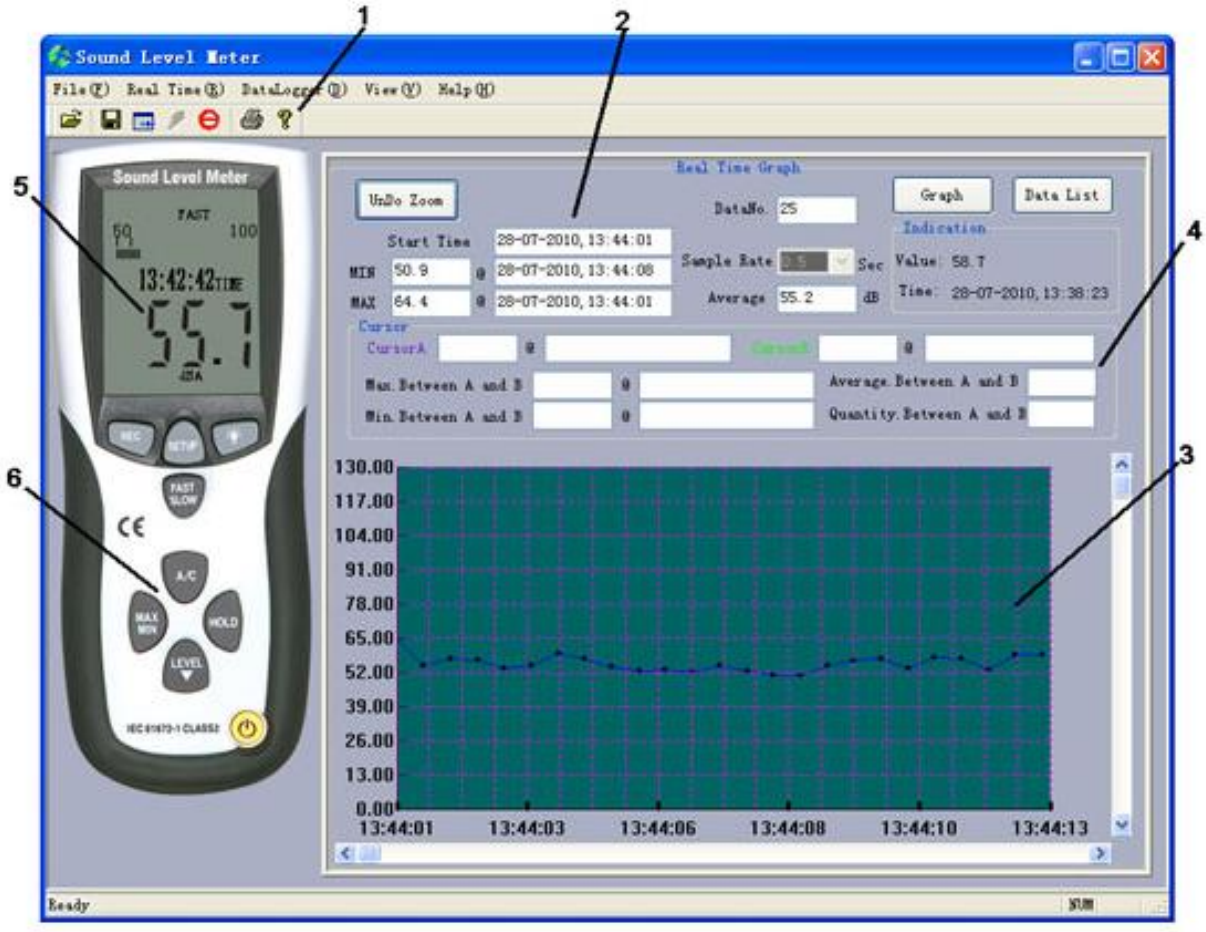
Main Screen

Refer to diagram below:

1. Pull down menus and control icons
2. Graph statistics
3. Graph
4. Cursor statistics (downloaded or saved data only)
5. Real time display
6. Interactive buttons (limited by PC speed)



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Software Help File

Main Menu

File | Open- Retrieve files previously stored on the PC.

Save - Save the data to a file on the PC.

Export - Export data in Excel format.

Real Time Data | Run - Begin collecting real time data.

Stop - Stop collecting real time data.

Print - Print the data of the active window (graph or list).

Tutorial – Quick Start

1. Plotting real time data

1.1 Power ON the Sound Level Meter first and connect it to the PC USB serial port with the cable

1.2 Start the Sound Level Meter program (Press the meter's "Setup" button).

1.3 If the connection is successful the panel will display the same value as the Sound Level Meter.

1.4 Select the sampling rate from Real-Time Graph window

Note: If the PC speed is slow, select a sampling rate above 0.2 second. To sample a large amount of data (more than 5000), at least 64 megabytes of RAM is recommended.

1.5 When the connection is successful, click  to start recording real time data. The data will begin to plot on the Real Time Graph Window.

(or you can select the menu "real time" → "Setup" to set the record data number and the sample rate.)

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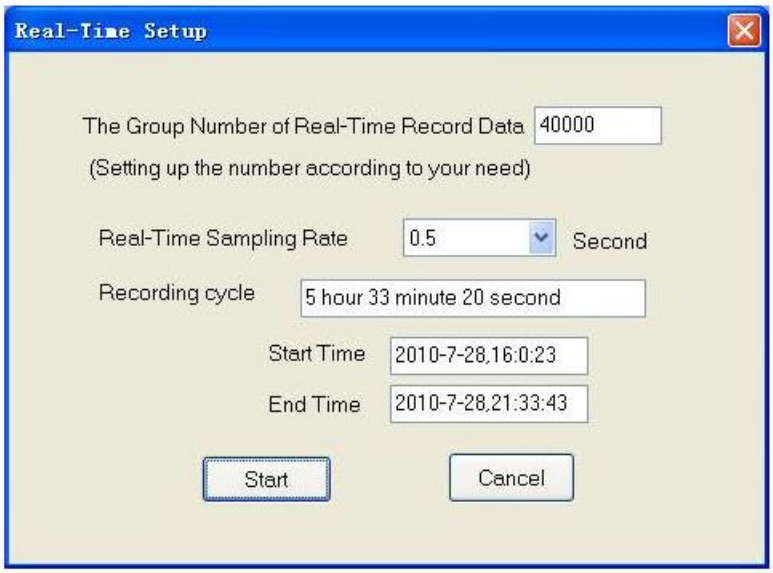
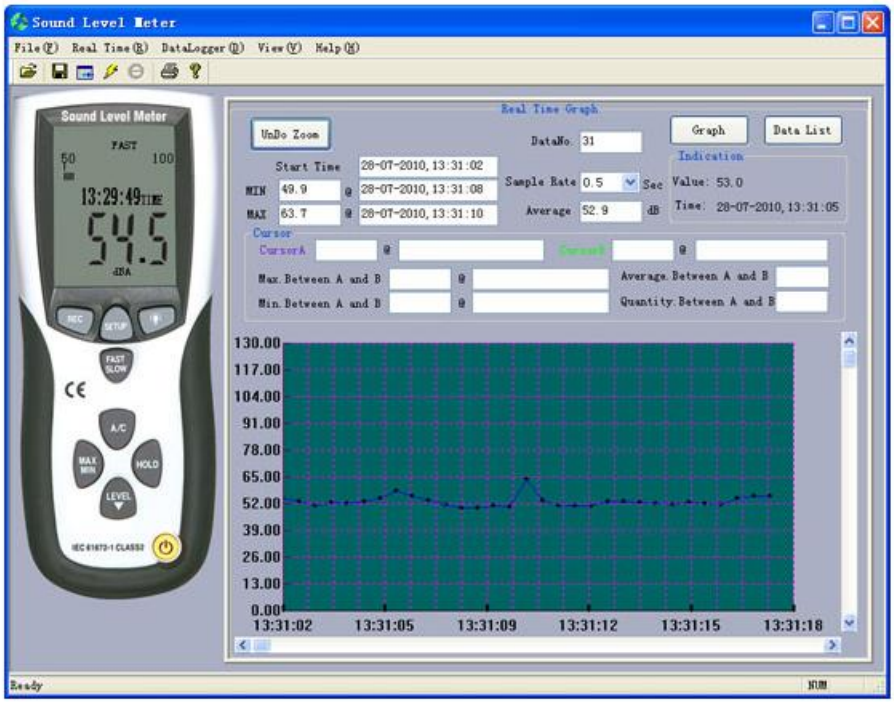


1.6 Click  to stop recording.



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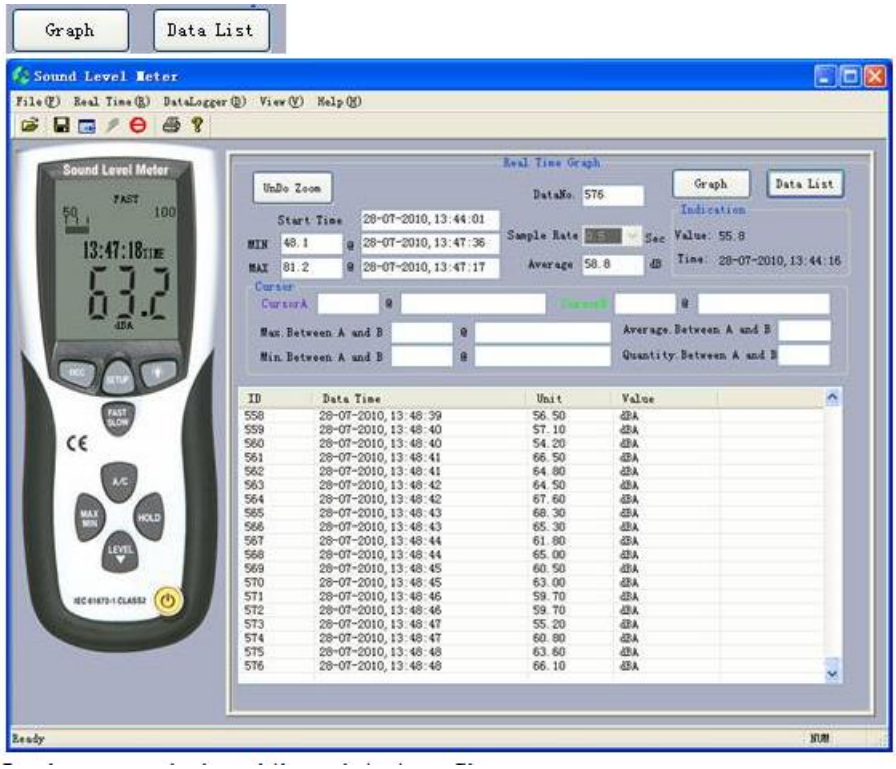
2. **Show the real time data list**

Click the button “Data List” to show the real time data in the table list and click the button “Graph” switch to show the plotting.



3. Saving recorded real time data to a file

3.1 Choose File / Save As from main menu or click from the tool bar to save the file in “*.txt” format.

3.2 Choose File / Export Data from main menu or click from the tool bar to export data to the file in “*.xls” format.

4. Downloading data from the meter's memory and saving it to a file

******NOTE: The Sampling Interval and Clearing Data is Set Up in the Setup Menu of the SLM600 Meter itself. Intervals can be set from 1 to 59s. Full Capacity is 32,700 readings. Each time a START and STOP REC is done, it is logged as a "Data Set". ******

4.1 Power ON the Sound Level Meter.

4.2 Press the REC button of the meter to start recording data.

4.3 Connect the Sound Level Meter to the PC.

4.4 To stop recording, press the REC button again.

4.5 Launch the Sound Level Meter program.

4.6 Choose 'Data Logger' from the main menu.

4.7 The data sets will be downloaded from the meter.

RECORDING DATA

The meter can store up to 20,000 readings at an interval rate of 1 to 59 seconds. Each recording session is saved as a data set and each record is saved with a date and time stamp. This data can be downloaded using the supplied software.

Setting the interval time

1. Press and hold the ☼ button while turning the meter ON. **0001** and **Int** will appear in the display.
2. Press the LEVEL button to set the sample interval from once per second to once per 59 seconds.
3. Press the HOLD button to save the interval setting and exit the setting mode.

Recording readings

1. Press the REC button to begin recording. The **REC** icon will appear on the display.
2. Press the REC button again to stop recording.
3. Auto Power OFF is disabled when the record function is active.

Clearing Stored readings

1. Turn the meter OFF.
2. Press and hold the REC button while turning the meter ON.
3. When CLR (clear) appears on the display, release the REC button.
4. All of the readings that were stored in memory are now erased.

Data Logger and Opening Files

When the Sound Level Meter is connected to the PC, select "Data Logger" from the main menu to download recorded data from the meter's memory.

After the data is downloaded, the left list will show how many data sets are loaded with detailed information for each data set (start data, start time, recording rate and record numbers). Use the scroll bar to view all the information.

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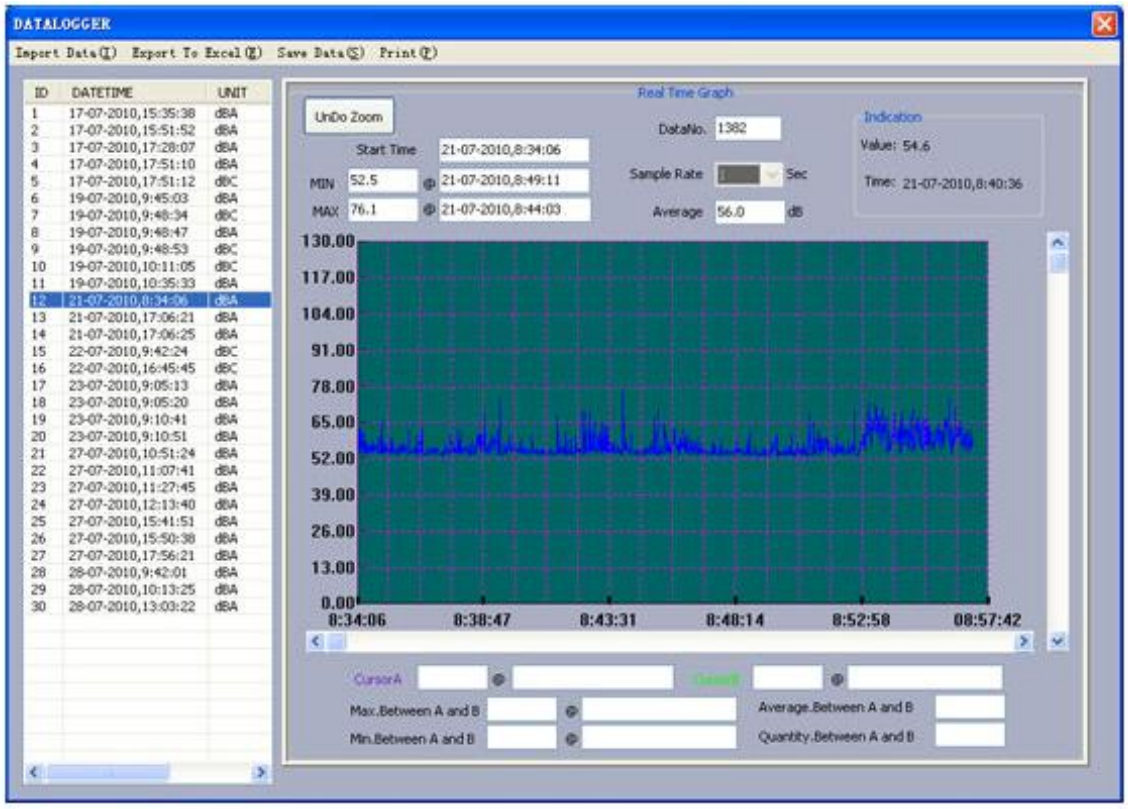
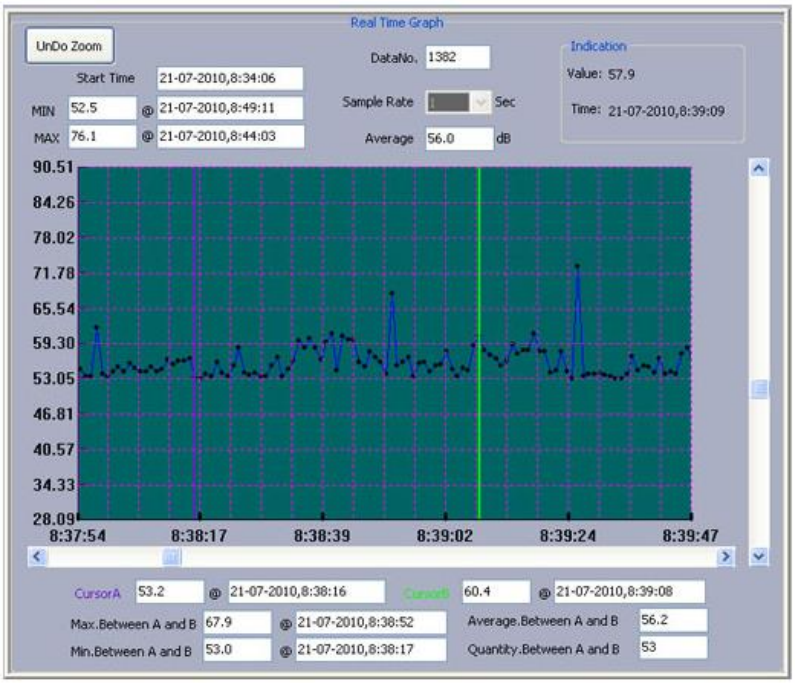
Double click on one set to display the data in the graph. This procedure is also used to open a saved file.



Cursors

Left double click on the datalogger graph then you should left click to set the cursor A and B positions. Statistics for the cursor locations and the area between the cursors is displayed below the graph. Right click on a cursor to delete it. This is also used in real time plotting.



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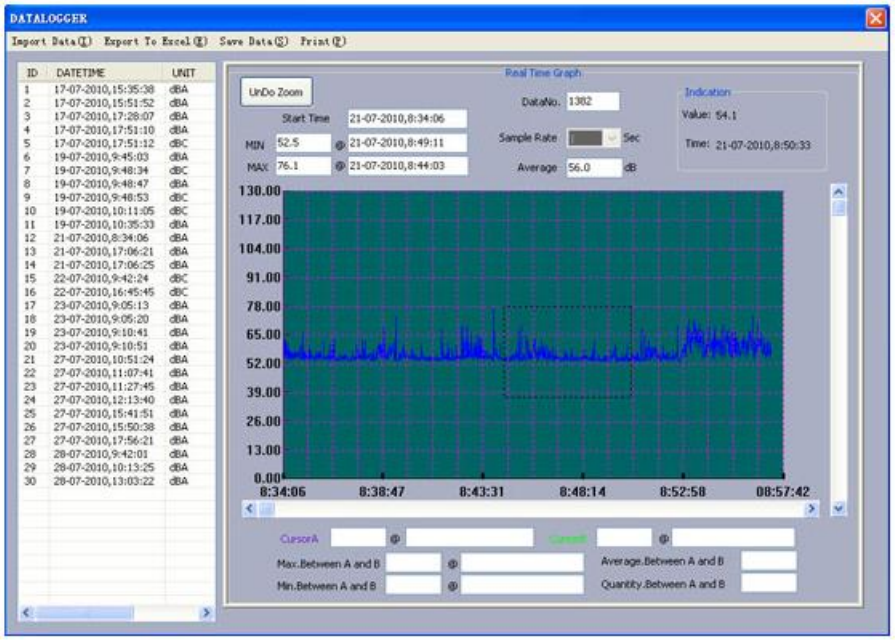
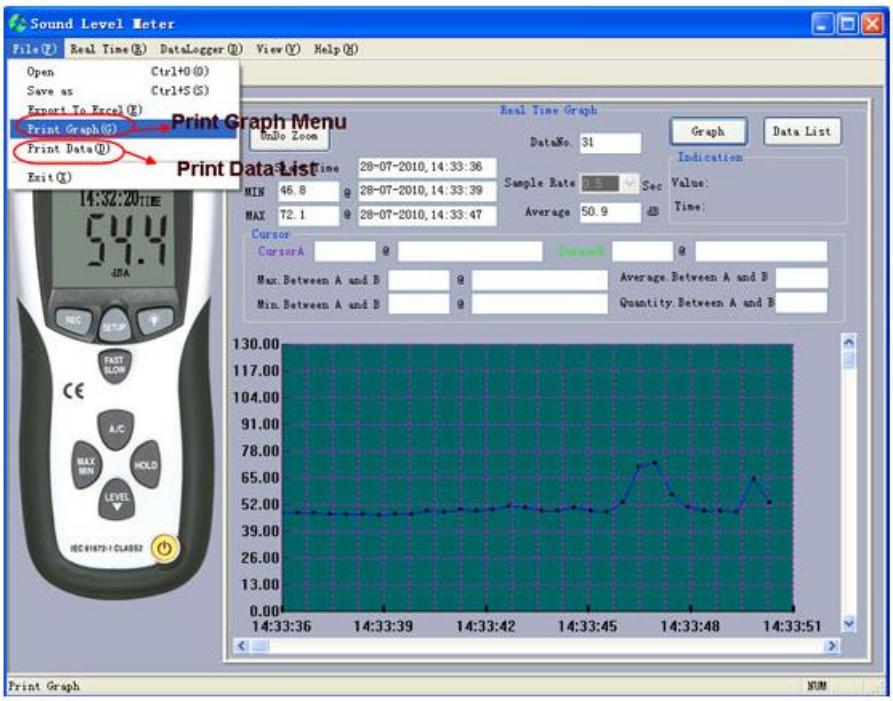
Zoom

Position the mouse cursor on the graph and drag a rectangle to zoom in on any portion of the



Print

When there is plotted in the graph, select the “print graph” from main menu to print the graph or select “print data” to print the data list. This is also used for Data Logger or Open file.



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