



# BENETECH GT1355 Digital Sound Level Meter Instruction Manual

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## Product introduction

### A. Introduce

This Sound Level Meter has been designed to meet the measurement requirement of noise engineers, noise quality control and health prevention in various environments, such as noise measurement in factory, office, traffic road, family and all other noise measurement applications.

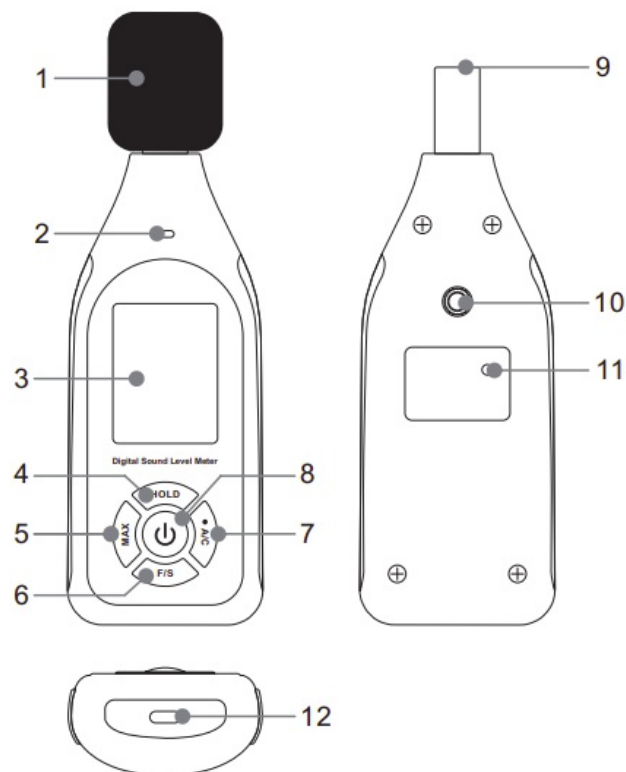
## B. Features

1. Real-time measurement of various environmental noises
2. A/C Frequency weighting selection
3. Fast/Slow Time weighting selection
4. Three-color light alarm
5. Maximum
6. Data HOLD
7. Data storage: 31,000 data record function
8. Data Read(only on PC) and Delete
9. Automatic shutdown for about 10 minutes without button operation
10. Display date and time
11. USB charging and PC communication: Connect with the PC through USB, provides data record download, real-time data sampling analysis, and printing graph & data functions.
12. **This Sound Level Meter was designed according to following standards:**

**a. International electrician committee standard:** IEC PUB 651 TYPE2

**b. US national standard:** ANSI S1.4 TYPE2

## C. Component name



1. Sponge ball (when outdoor use please put on, prevent wind blowing noise disturbing the unit reading)
2. Alarm light
3. LCD display
4. HOLD button
5. MAX button
6. F/S button

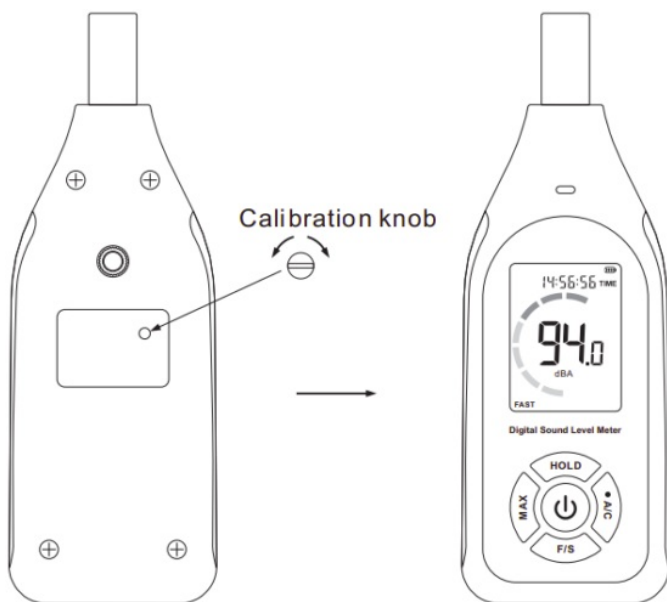
7. A/C button
8. Power button
9. Capacitance microphone
10. Tripod fixed screw aperture
11. Calibration knob
12. Type-C interface

## D. Specifications

Calibration sound source	94dB@1KHz
Measurement range	30~130 dB(A), 35~130dB(C)
Accuracy	±1.5dB(Reference sound pressure standard,94dB@1KHz)
Resolution	0.1dB
Frequency weighting	A/C
Frequency response	31.5Hz~8500Hz
Time weighting	FAST/SLOW
Sampling rate	FAST: 8 times/secondSLOW: 1 times/second
Rated current	70mA
Standby current	5uA
Power supply	3.7V lithium battery /1000mAh
Charging time	1.5h
Duration of service	8h
Data storage	31,000
Microphone	1/2-inch polarization capacitance microphone
Operating temperature	0~50°C
Operating humidity	10~80%RH
Dimension	160*56*31mm(Excluding sponge ball)
Weight	Approx 126g(Excluding sponge ball)

## E. Calibration

1. Please use 94dB@1KHZ standard calibration instrument
2. Setting on sound level meter: Frequency weighting is A,Time weighting is FAST
3. Insert the microphone carefully into a 1/2-inch hole in the standard audio source (94dB@1KHz).
4. Turn on the power switch of the standard sound source, adjust the potentiometer at the circular hole in the battery door with slotted screwdriver, and make the LCD display 94.0



**Note:**

Our products are all well calibrated before Shipment.

**Recommended recalibration cycle:** 1 year.

## Operation instructions

### A. Power on/off

**1. Power on:**

When shutting down, short press the power button to turn on the device.

After about 1~2 second of full screen display, the real-time measurement interface will be displayed;

**2. Shutdown:**

Power on status, long press or short press the power button to shutdown;

**3. Automatic shutdown:**



Automatic shutdown for about 10 minutes without button operation;

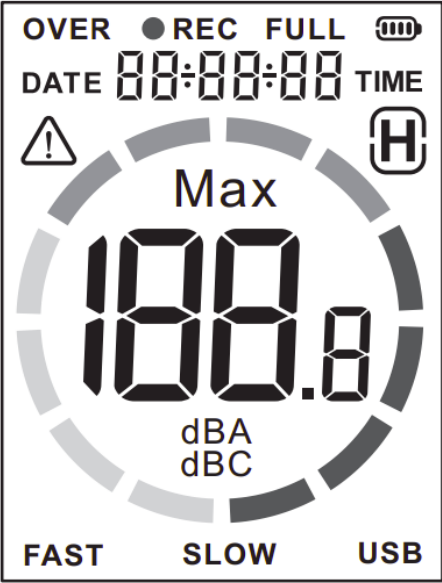
**4. Cancel automatic shutdown:**

When shutting down, long press the power button to turn on the device.

After full screen display, if [UOF] is displayed, the automatic shutdown will be cancelled (only valid for this startup, default automatic shutdown for next startup, need to be cancelled again).

### B. Data HOLD

On the measurement interface, short press the HOLD button to display [  ] data lock; Short press the HOLD button again to release the data, [  ] disappears, and continue measuring.



Full Screen Display



Cancel Automatic Shutdown



Data HOLD

C. DATE/TIME

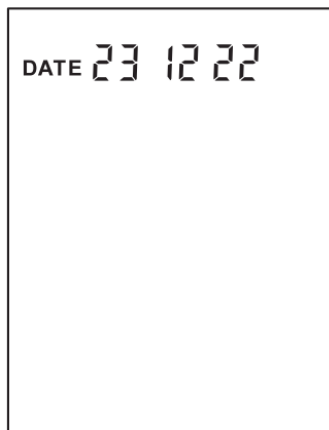
## 1. Date/Time setting:

Long press the Hold button to enter the DATE/TIME setting mode.

Short press the A/C button to switch between year – month – day – hour – minute – second – exit setting mode successively (short press the MAX button to switch in reverse order between second – minute -... – year – exit setting), the value blinks when selected. Short press the HOLD button or F/S button to increase or decrease the value. Long press the HOLD button or F/S button to increase or decrease the value;

## 2. DATE/TIME display switch:

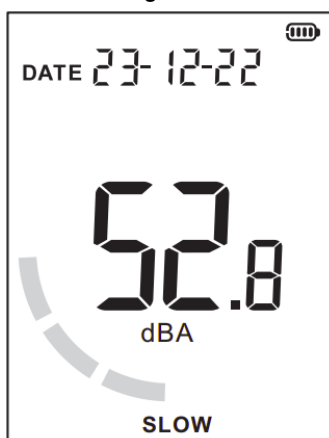
Long press the F/S button to switch the DATE/TIME display



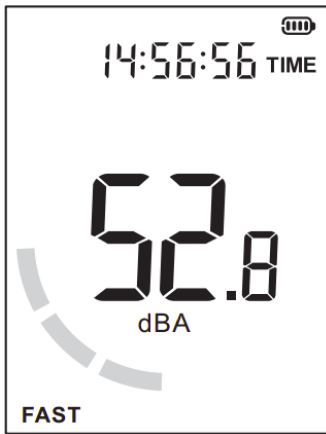
DATE Setting



TIME Setting



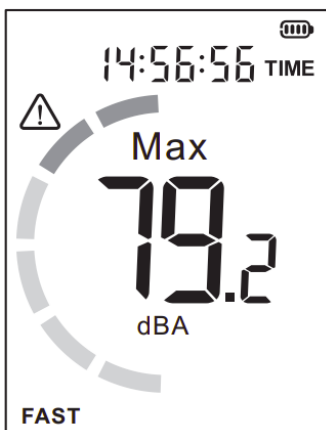
DATE Display



TIME Display

## D. Maximum mode

1. On the measurement screen, short press the MAX button to enter the maximum measurement mode.  
The screen will display [MAX].
2. **Maximum mode:** The value will be the maximum noise value after entering the mode. The value will not be updated until the measured noise value is larger.  
Short press the MAX button again to return to the realtime measurement interface (the screen does not display [MAX])



Maximum mode

## E. High/low alarm value

### 1. High/low alarm value setting:

Long press MAX button to enter alarm value setting, then the screen will display [!]. Short press MAX button to switch high/low alarm value setting. Short press HOLD button or F/S button to increase or decrease alarm value. Long press HOLD button or F/S button to fast increase or decrease alarm value. Long press the MAX button again to exit the alarm setting.


**High alarm:** [MAX] will be displayed, and indicator light will be red; **Low alarm:** [MAX] will not be displayed, and the indicator light will be yellow.

### 2. Measurement display:

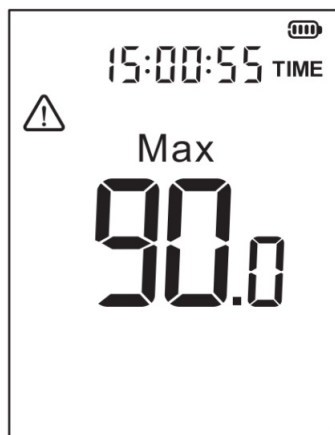
High alarm: When the noise value is greater than or equal to the high alarm value, the screen will display [

3. !], and the red light will be on (if the indicator function is off, it will not be on);



4. **Low alarm:** When the noise value is greater than or equal to the low alarm value, the screen will display [  ], and the yellow light will be on (if the indicator function is off, it will not be on);
6. **Indicator light on/off:**

After entering the alarm value setting, press the A/C button to turn on/off the indicator. Pay attention to the change of the indicator on the panel. If the indicator is on, it means on; if it is off, it means off.



High alarm value setting



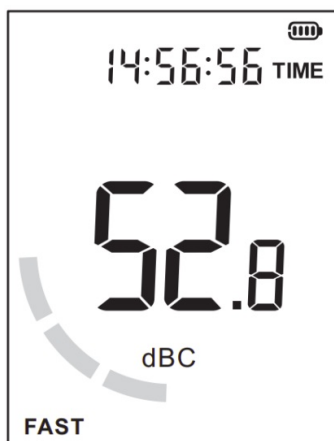
Low alarm value setting

## F. A/C Frequency weighting selection

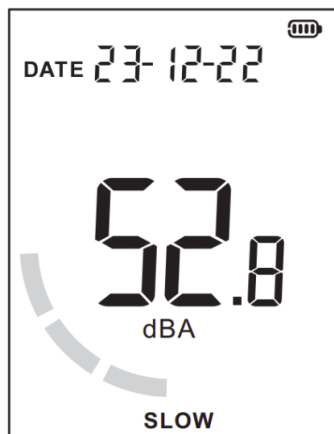
On the measurement interface, short press the A/C button to switch between A (dBA)/C (dBC) weighting  
A-Weighting for general sound level measurements.  
C-Weighting for checking the low-frequency content of sounds.

## G. F/S Time weighting selection

On the measurement interface, short press the F/S button to switch between FAST/ SLOW  
FAST is to pick up the current reading;  
SLOW is to pick up the reading of average within 1 second.



C (dBC) FAST



A (dBA) SLOW

## H. Data record

### 1. Enter the recording mode:

After startup, long press the A/C button to enter the recording mode setting, and the screen will display [REC];

### 2. Record interval setting:

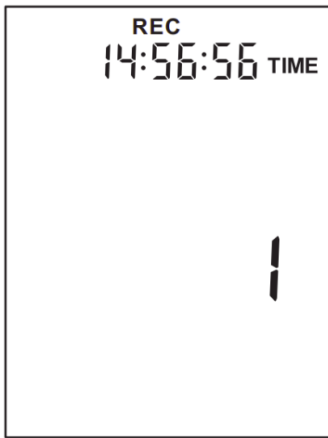
After entering this mode, press the HOLD button or F/S button to set the record interval time (unit: second), and long press the button to fast increase or decrease; The value ranges from 1 to 99 seconds.

3. Short press the A/C button to start recording data. The screen displays [REC] and blinks [●]. Long press the A/C button again to exit the recording mode.

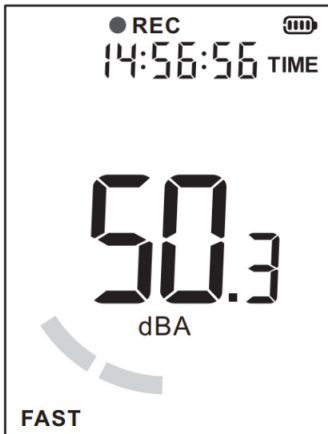
4. When recording, it will not automatically shut down, long press the power button to shut down.

## I. Delete record

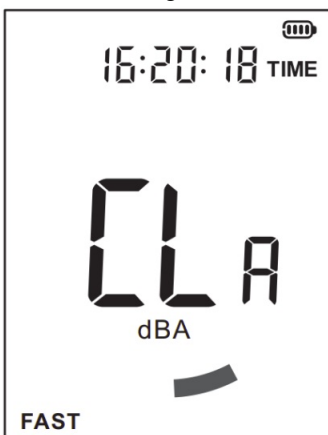
Enter the MAX mode (screen will display [MAX]), long press the A/C button until the screen displays [CLR], and return to the measurement interface. At this time, no [MAX] is displayed, and record deletion is complete.



Data record setting



Start recording



Delete records

## PC software

### A. Requirements of computer configuration

1. **CPU:** Pentium III 600MHZ or above
2. One free available USB connecting interface
3. The lowest screen resolution of monitor is 800\*600 (or much higher), true color
4. At least 8MB available memory
5. At least 50MB available disk memory
6. **Operation system:** Microsoft windows XP/VISTA/windows 7

### B. Software download

Enter the website “www.benetechco.net” in the browser, press enter and enter the page to find the menu “Support”-“Download Catalog”.Click into the page to find the software installation package “Sound Lab 1356.zip”. Click the download button to directly extract the “zip package” after downloading. Double click on “SoundLabSetup.exe” to install.

## C. Connection status

### 1. Connected to device:

“Connected” appears in the bottom left corner of the PC;

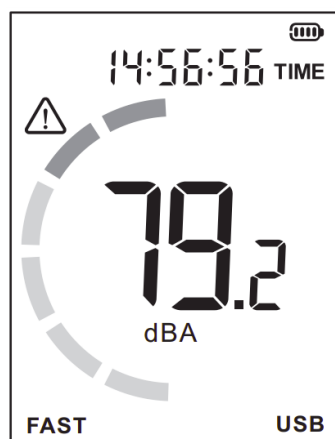
“USB” appears on the lower right corner of the product screen.

### 2. Disconnected to device:

“Disconnected” is displayed in the bottom left corner of the PC;

“USB” is not displayed on the lower right corner of the product screen.

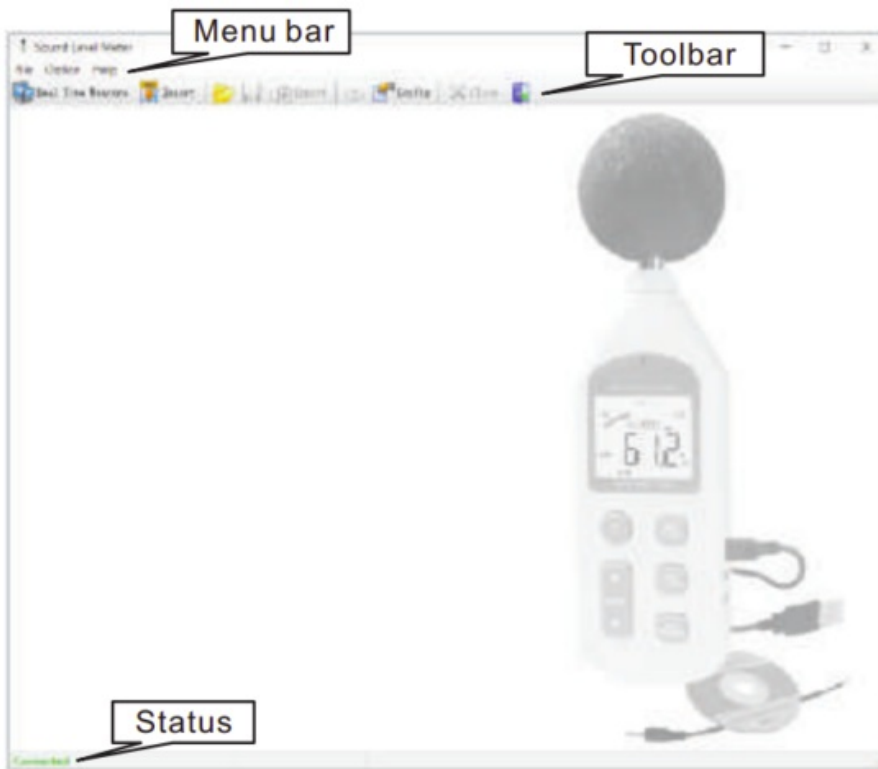
## Connected PC



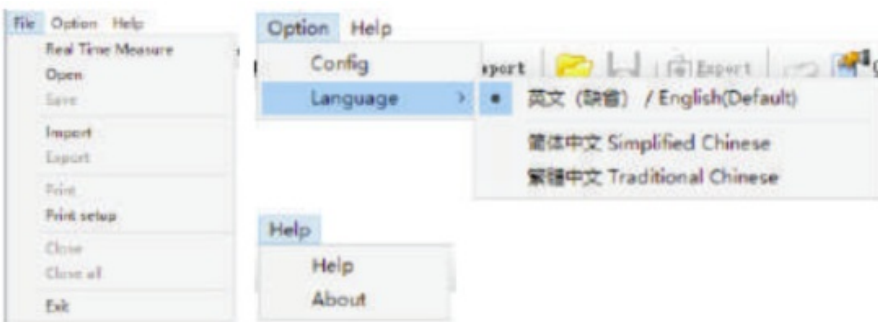
Product screen

## D. Software instruction

### 1. Software window:












## 2. Menu bar:



Command	Function
Real Time Measure	Real-time data measurement, the measurement data will be displayed in real time on the PC software screen
Open	Open measuring data file in Lab format
Save	Save the measurement data
Import	Import the measurement data saved by the product into PC software
Export	Export the measuring data into excel fomate
Print	Print data sheet
Print setup	Printer setting
Close	Close the current page
Close all	Close all pages
Exit	Exit PC software
Config	Selectable Measurement Range, Sample Speed, A/C weight, MAX work Mode, Low and high dB Alarm, Company's Name (i.e. exported data header), Number decimal and thousand.
Language	English,Simplified or Traditional Chinese
Help	Software problem feedback
About	Software version description

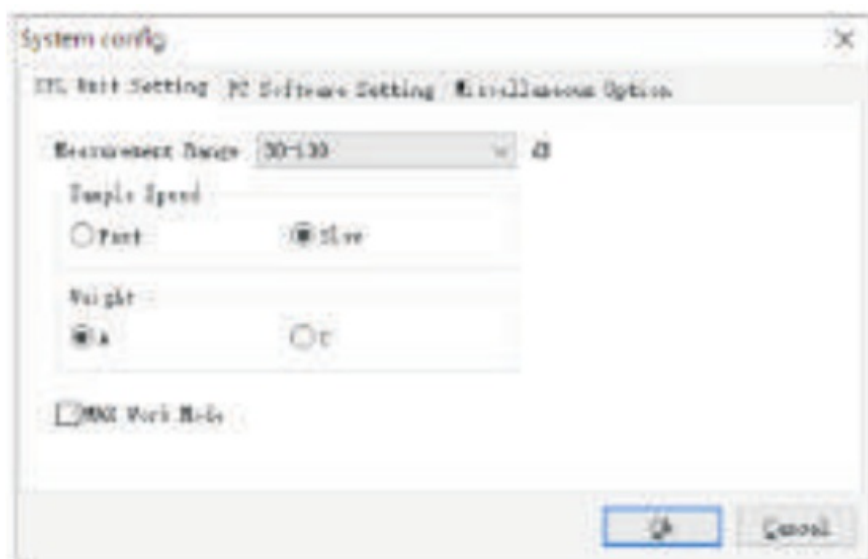
### 3. Toolbar



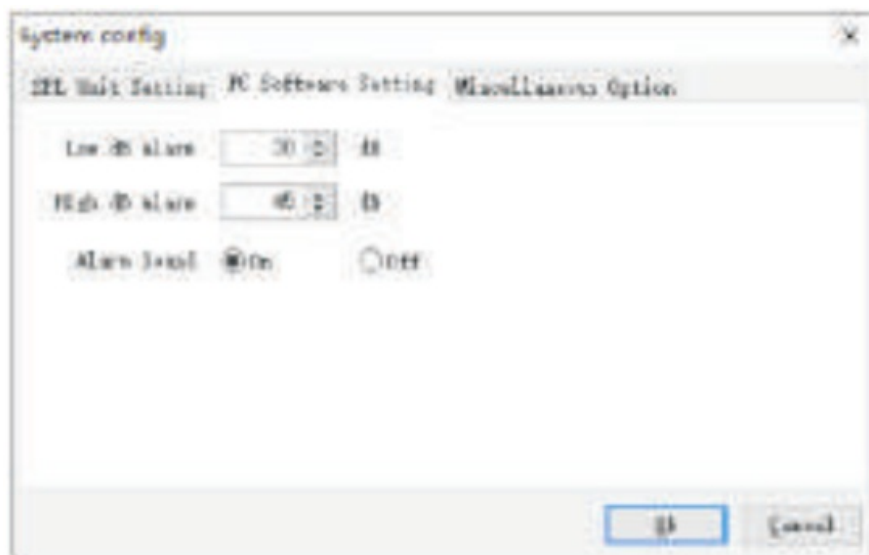
Button	Function
	Real-time data measurement, the measured data in real time will be displayed on computer screen
	Import the measurement data saved by the product into PC software
	Open measuring data file that is saved as Lab format
	Save the measurement data
	Save the measurement data as Excel document
	Print data sheet
	System setup
	Close the current page
	Exit software

#### 4. System setup (Config)

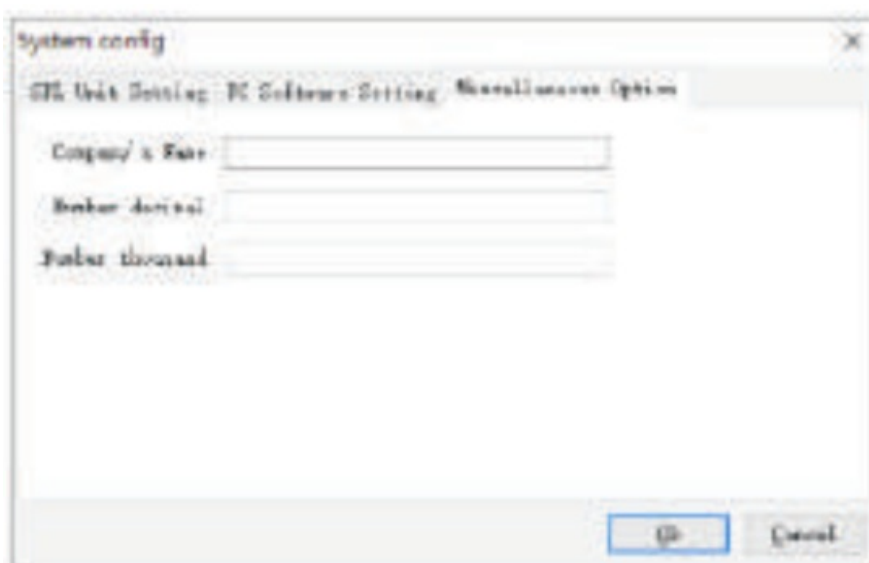
1. **SPL Unit Setting:** Measurement Range, Sample Speed, A/C Weight, MAX Work Mode.



2. **PC Software Setting:** Low/High dB Alarm, Alarm Sound switch.

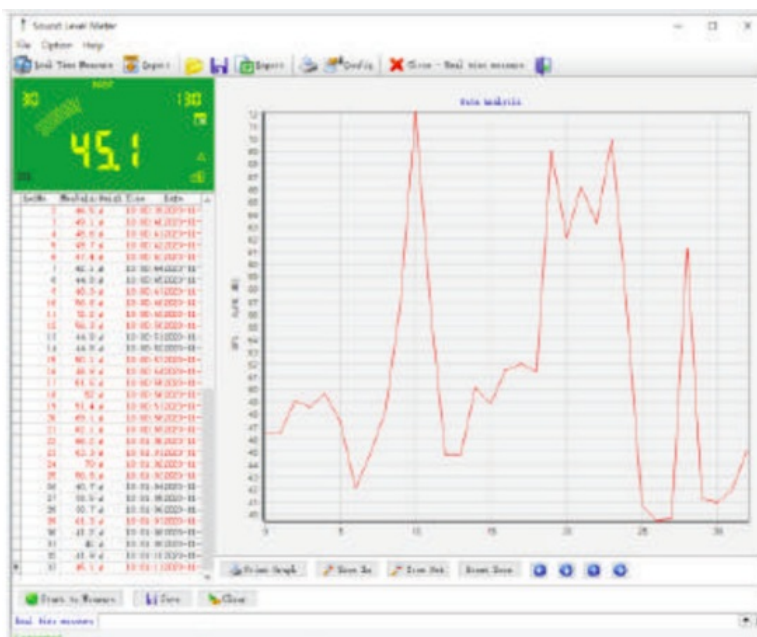


3. **Miscellaneous Option:** Company's Name (i.e. exported data header), Number decimal and thousand.

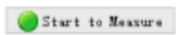
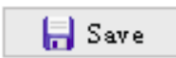
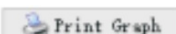
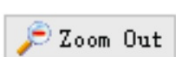


**Note:** The system settings on the PC do not affect product settings. The two are independent from each other.

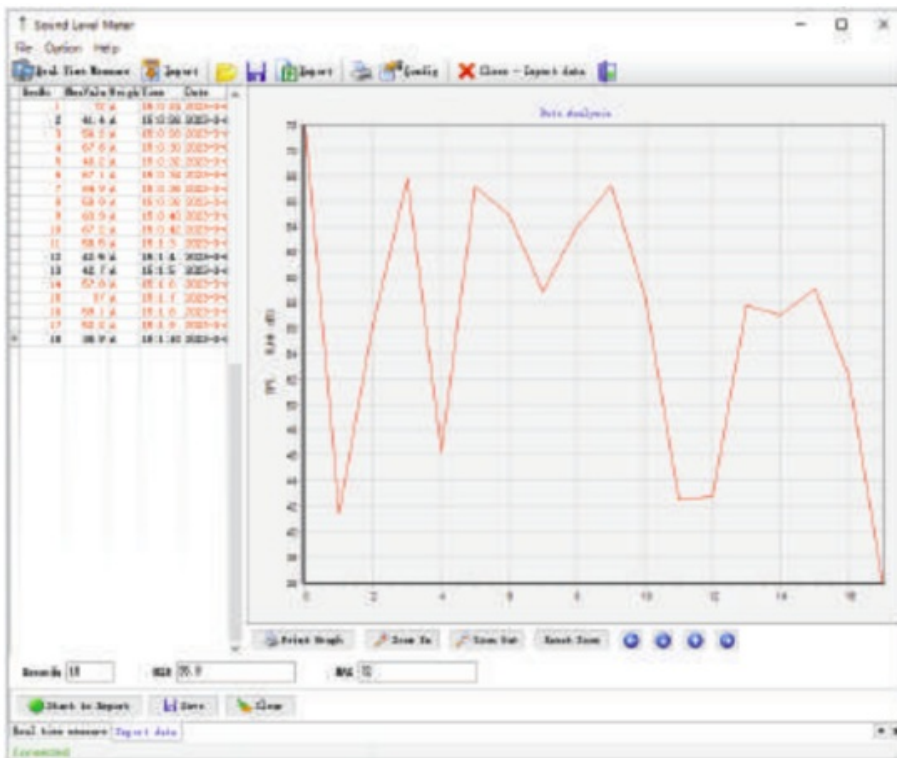
## 5. Real Time Measure





Button	Function
	Click to start Real Time Measure
	Click to stop Real Time Measure
	Click to store real-time measuring data, input file name in popup window, click to save the document format of Lab.
	Click to clear all the measuring data
	Click to print curve diagram
	Zoom in curve diagram
	Zoom out curve diagram
	Reset zoom, resume to defaulted value
	Move curve diagram

## 6. Import



## Other

### A. Attentions

#### 1. Environment conditions on operation:

1. 2000 meters high below;
2. **Temperature:** 0~40℃
3. **Relative humidity:** ≤80%RH

#### 2. Do not store or use the unit in following conditions:

1. Splashes of water or high levels of dust.
  2. Air with high salt or sulphur content.
  3. Air with other gases or chemical materials.
  4. High temperature or humidity or direct sunlight.
3. Never impact the unit or used on humidity conditions.

### B. Maintenance

#### 1. Maintenance of battery:

1. When you do not use this product for a long time, you need to charge it once a month to avoid affecting the battery life.
2. After startup, when the power supply is insufficient, please charge it in time.

#### 2. Cleaning the casing:

Never use alcohol or thinner to clean the unit casing that will especially erode the LCD surface; just clean the unit lightly as needed with little clean water.




### Specific Declarations

- We reserve the rights of the update and amendment of the product design and the manual which are subject to change without further notification.
- Dispose of battery should in accordance with local laws and regulations.
- Our company shall hold no any responsibility resulting from using output from this product as an direct or indirect evidence.
- We reserves the right to modify product design and specification without notice.



### Documents / Resources

	<a href="#">BENETECH GT1355 Digital Sound Level Meter</a> [pdf] Instruction Manual GT1355 Digital Sound Level Meter, GT1355, Digital Sound Level Meter, Sound Level Meter, Level Meter, Meter
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### References

- [Shenzhen Jumaoyuan Science And Technology Co.,Ltd.](#)
- [User Manual](#)

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