



**9351-130
DIGITAL SOUND METER METER
OPERATION MANUAL**

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Preface

Thank you for selecting our production. Please read the following information carefully before using the meter. The Sound Level Meter has been designed to measure sound level for various environments, It is used to detect noise, music level or sound engineerings...

Safety information

1. Please use it according to the following usage. Environment conditions:

- ◆ Altitude: less than 2000 meters.
- ◆ Relatively humidity 80% max.
- ◆ Operation temperature 0~40°C.

2. Safety symbols:

- ☑ Meter is protected by double insulation.
- CE Comply with European Union's 93/68/EEC

Functions & Features

- ◆ The meter has been designed according to the IEC651 Type 2, ANSI S1.4 Type 2.
- ◆ Measurement range is from 30dB to 130dB and automatic ranging.
- ◆ With two equivalent weighted sound pressure levels, A and C.
- ◆ Corresponsive rate select: FAST/SLOW.
- ◆ Maximum value locked.
- ◆ Record data in memory:16000 data, extended up to 128000 data according to user's demand.
- ◆ Infrared interface for connecting with computer.
- ◆ Computer software for data displaying and data recording on a computer.
- ◆ Clock and calendar function.
- ◆ AC and DC analog signals output, which can be linked to frequency analyzer or X-Y axis recorder.
- ◆ Background light for working in the night. to save power, the background light shines for 5 seconds, then closes automatically.
- ◆ Secondary plasticizing meter shell.
- ◆ Good circuit designed to save power, the battery can be used for a long time.

Preparation before using

- ◆ Remove the battery cover on the back and put in six 1.5V 7 # alkalinescent battery.
- ◆ Close the battery cover.
- ◆ When the battery voltage drops below the operating voltage, mark ' ' appears and flashes. It must be done to replace all batteries with new one.
- ◆ When the DC adapter is used, insert the plug of the adapter into the DC 9V connector on the side panel.

Technical Specifications

Technical specification table:

Accuracy	±2dB
Response frequency	31.5Hz—8kHz
Dynamic range	50dB
Frequency weighting	A/C
Time weighting	FAST 125ms, SLOW 1sec
Microphone	Electret Condenser microphone
Digital display	4 digitals, resolution 0.1dB,
Analog bar display	Each analog bar is as 1dB, sampling rate 20 times/s
Measurement ranges	30—80dB, 40—90dB, 50—100dB, 60—110dB, 70—120dB, 80—130dB. Total of 6 ranges
Auto-range	Micro-computer can choose the best measurement ranges
Over range indicator	UNDER(less than range) and OVER (over range)
AC signal output	0.707 Vrms at FS (Auto-range mode isn't included) Output impedance approx. 600Ω
DC signal output	10mV/dB Output impedance approx.100Ω
Power supply	Four LR03 AM4 1.5V SIZE AAA alkaline cell
Power life	About>35hrs(alkaline cells) Continuous operation
AC adapter	Voltage 9vDC; Voltage ripple <100mVpp; Supply Current >100mADC
Socket Data recording	pin Ground; Casing positive ; External Diameter 3.5mm
Operating temperature	16000 data(extended to 128000 data)
Operating humidity	0 ~ +40°C
Storage temperature	10 ~ 80%RH
Storage humidtiy	-10 ~ +60°C
Dimensions	10 to 70%RH
Weight	245(L)×80(W)×35(H)mm
	Approx.350g(including battery)
Accessories	Earphone plug, Operation manual, Battery, Windscreen, computer RS-232 cable, software for windows

The method of usage

- ◆ Press the power switch, LCD displays the default range(40~90dB). and displays the sound level of a spot. If the display appears 'UNDER' or 'OVER' symbol, it indicates the sound level less than or more than 40~90dB, measurement is invalid. you need to set the meter's range to a correct position.
- ◆ Set range: Press LEVEL ▲ or ▼, choose the proper range, measure the sound level of the spot. When LCD appears 'UNDER' symbol, it indicates that the range is low, you need to press LEVEL ▲ to set higher range until no 'OVER' symbol.
- ◆ Choose weighting mode: when you measure a general noise sound level, you could choose 'A' weighting bypressing A/C button. To measure a acoustic sound level, choose 'C'.
- ◆ When you want to get a real-time sound level, choose FAST by pressing FAST/SLOW button. To get average sound level, choose 'SLOW'. When you want to get the maximum value of a sound level, you can press 'MAX' button.
- ◆ When you want to measure in the night, you can open the background light by pressing 'LIGHT' button.

Record and storage

- ◆ To save real-time data in the meter, by pressing the 'RECORD' button for 2 seconds, 'RECORD' symbol displays on the LCD screen. At the same time, the meter starts to record real-time data until it's memory is full. LCD screen displays 'FULL' symbol, it indicates that the meter can't save data continually.
- ◆ To Delete data in Sound Level Meter's memory, by pressing the 'LEVEL▲' button for 2 second, LCD displays 'CEL' symbol, then press LEVEL▼ button for 2 second,'CEL'symbol flashes, after a few seconds, it returns to normal display, it indicates that the data have been deleted.

Software installation

Insert the accessory CD to the CD-ROM driver of a computer, click 'setup.EXE' to install the software in the hard disk. When installation finishes, click 'DIGITAL SOUND LEVEL METER' in the program menu, then the operation window shows on the computer...

Software usage

- ◆ IConnect the infrared output socket of Sound Level Meter and RS232 interface of a computer with the accessory cable.
- ◆ Run 'DIGITAL SOUND LEVEL METER', click 'START' to receive and display data.

- ◆ By pressing 'SENDING' button for 2 second on the meter, real-time sound level data are transmitted to computer. 'SENDING' symbol displays on LCD screen. Press 'SENDING' button for 2 seconds again, transmission stops.
- ◆ By pressing 'A/C' button for 2 seconds, the memory data of the meter are transmitted to computer. Symbol 'SENDING MEMO' display on LCD screen.
- ◆ During transmission computer . Symbol 'SENDING MEMO' display on LCD screen. During transmission computer displays 'Downlodng Please Wait...'. When transmission is complete, it open a dialog box, you need to enter a filename, then save the data in your computer.
- ◆ To open a saved file in the computer, run the.
- ◆ Software of sound level meter, click 'FILE', then click 'OPEN' on the menu. Select and open corpesponsive filename in the dialog box. It is all right

Set time and date

Press 'MAX' button then turn on the meter, LCD display time(hour, minute, second), the second digitals are flashing, press LEVEL ▲ or LEVEL ▼ to increase or decrease time; press 'MAX' to set minute, hour, month, year. after setting is completed, turn off the meter

Calibrating Sound level Meter

When Sound Level Meter is used for a long time, it's accuracy may reduce, we need to check and calibrate it, normally a time for each year. Calibration needs a standard sound source, please contact with us about the method

Cautious

- ◆ Do not use the meter in a high temperature or wet space.
- ◆ When you do not use for a long time, please take out
- ◆ Battery to avoid damaging the meter by electrolyte.
- ◆ Auto-range (30-130dB) is unfit for measuring a instantaneous and impactive noises.
- ◆ To measure sound level in a windy environment, please put windscreen on the microphone to avoid noises from wind.
- ◆ If mark '  ' is on the screen, it indicates the voltage is low, you must replace battery, we advise you to use alkalescnt battery