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UNI-T UT353

UNI-T UT353 Mini Sound Level Meter User Manual

Model: UT353

1. Introduction

The UNI-T UT353 Mini Sound Level Meter is a compact and professional digital device designed for accurately measuring sound levels. It is an essential tool for noise detection, quality control, health control, and environmental noise measurement in various settings such as factories, traffic areas, and home audio environments. Its ergonomic design ensures ease of use and portability.



Figure 1: UNI-T UT353 Mini Sound Level Meter

2. Product Features

- Miniature and ergonomic design for convenient portability.
- Clear LCD screen with white backlight for easy readability in various lighting conditions.
- Adjustable sampling rate: Fast (125ms) and Slow (1000ms).
- Measures minimum (MIN) and maximum (MAX) sound levels.
- Data Hold function to freeze the current reading on the display.
- Equipped with a 1/2 inch condenser microphone for accurate sound capture.
- Automatic power-off feature to conserve battery life.
- Low battery indication to alert users when batteries need replacement.
- Certified with CE and UKCA standards.



Figure 2: The UNI-T UT353 (second from right) alongside other UNI-T mini meters.

3. Components and Controls

Familiarize yourself with the main components and control buttons of the UT353 meter:

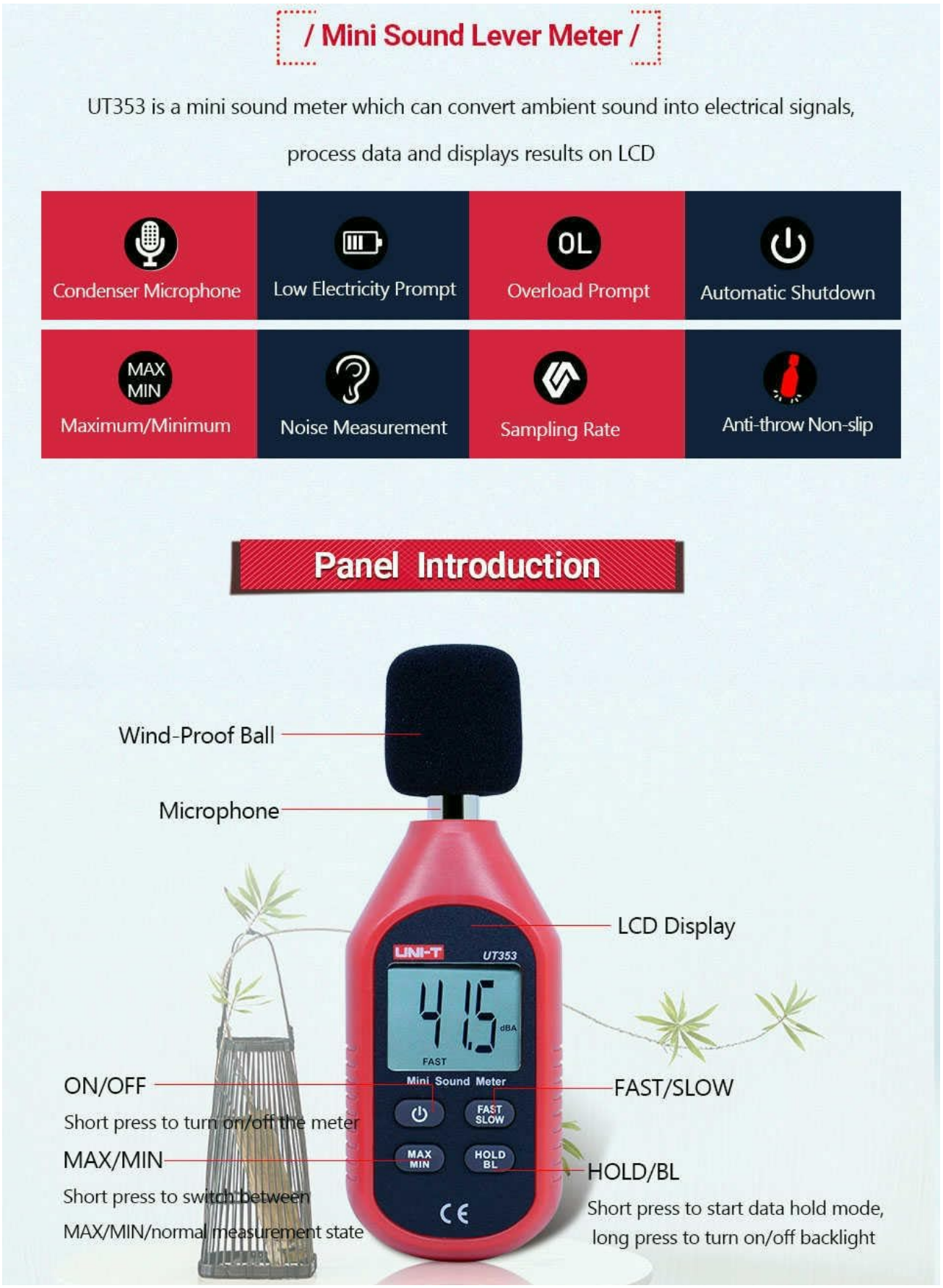


Figure 3: Panel Introduction and Key Functions

- **Wind-Proof Ball:** Covers the microphone to reduce wind noise interference.
- **Microphone:** Captures sound waves for measurement.
- **LCD Display:** Shows measurement readings, mode indicators, and battery status.
- **ON/OFF Button:** Short press to turn the meter on or off.

- **FAST/SLOW Button:** Toggles between fast (125ms) and slow (1000ms) sampling rates.
- **MAX/MIN Button:** Short press to switch between MAX/MIN/normal measurement states.
- **HOLD/BL Button:** Short press to activate data hold mode. Long press to turn the backlight on or off.

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Video 1: Demonstration of the UNI-T UT353 Mini Sound Level Meter's features and operation.

4. Setup

4.1 Battery Installation

The UT353 requires three 1.5V AAA batteries (included). To install or replace batteries:

1. Ensure the device is powered off.
2. Locate the battery compartment cover on the back of the meter.
3. Slide the cover downwards to open the compartment.
4. Insert three AAA batteries, ensuring correct polarity (+/-).
5. Close the battery compartment cover by sliding it back into place until it clicks securely.



Figure 4: Back view of the UT353, illustrating the battery compartment.



Figure 5: Close-up of the back of the UT353, showing the battery compartment and product identifier (C220128943).

WARNING: To avoid damaging the meter, always turn power off before replacing batteries or opening the case.

5. Operating Instructions

5.1 Power On/Off

- Press the **ON/OFF** button to turn the meter on.
- Press the **ON/OFF** button again to turn the meter off.

5.2 Changing Sampling Rate (FAST/SLOW)

- Press the **FAST/SLOW** button to toggle between fast (125ms) and slow (1000ms) sampling rates. The selected mode will be indicated on the LCD.

5.3 MAX/MIN Measurement

- Press the **MAX/MIN** button to cycle through normal measurement, maximum value (MAX), and minimum value (MIN) display modes.

5.4 Data Hold and Backlight

- Short press the **HOLD/BL** button to activate or deactivate the data hold function. When active, the current reading will be frozen on the display.
- Long press the **HOLD/BL** button to turn the LCD backlight on or off.

6. Specifications

Parameter

Functions	Range	Resolution	Accuracy
Noise (A Weighting)	30～130dB	0.1dB	±1.5dB
Sampling Rate	FASH		125ms
	SLOW		1000ms
Overload Indication			OL
MAX/MIN			MAX/MIN
Data Hold			HOLD
LCD Backlight			Yes
Auto Power Off			5min
Low Battery Indication			3.0～3.5V
Battery			4.5V

Current Consumption

Working : ≤40mA

Power off: ≤10uA

Working Environment

Temperature : 0～40℃

Humidity :≤80%RH

Storage Environment

Temperature : 20～60℃

Humidity : ≤75%RH

Product Details



Figure 6: Detailed Parameters of UT353

Parameter	Specification

Parameter	Specification
Noise (A Weighting)	30-130dB
Accuracy	±1.5dB
Resolution	0.1dB
Sampling Rate	Fast: 125ms; Slow: 1000ms
Frequency Range	31.5Hz-8KHz
Microphone	1/2 inch Condenser Microphone
Display	4-bit LCD display (Max 9999)
Overload Indication	"UN" (under range), "OL" (over range)
Auto Power Off	5 minutes
Low Battery Indication	3.0-3.5V
Power Source	3 x 1.5V AAA Batteries
Current Consumption (Working)	<40mA
Current Consumption (Power Off)	<10uA
Working Environment Temperature	0°C to 40°C (32°F to 104°F)
Working Environment Humidity	≤80%RH
Storage Environment Temperature	20°C to 60°C (68°F to 140°F)
Storage Environment Humidity	≤75%RH
Product Dimensions (L*W*H)	150 x 52 x 27 mm (6.5 x 4.33 x 4.72 inches)
Item Weight	1.32 pounds
Material	Acrylonitrile Butadiene Styrene
Certifications	CE, UKCA, ISO 9001, RoHS

UNI-T UT353/UT353BT
Mini Sound Level Meters

UT353/UT353BT mini digital sound level meters measure noise and display results on LCD. These meters can constantly monitor noise level. UT353BT can transfer measurement data through Bluetooth to UNI-T's custom mobile APP (iENV2.0) for further analysis, storage, and export. iENV2.0 can be downloaded from Google Play, Apple Store or UNI-T's website by searching 'iENV2.0'.

(UT353BT) (UT353BT)





UT353BT

Specifications	UT353	UT353BT
Certificates	CE, UKCA	
Noise (A weighted)	30~130dB	30~130dB
Accuracy	±1.5dB	±1.5dB
Resolution	0.1dB	0.1dB
Sampling rate	Fast: 125ms; Slow: 1000ms	Fast: 125ms; Slow: 1000ms
Frequency range	31.5Hz~8kHz	31.5Hz~8kHz
Bluetooth APP		√

Features	
MAX/MIN	Data hold
LCD backlight	Auto power off
Low battery indication	Adjustable sampling rate
1/2 inch condenser microphone	Overload indication

Characteristics	
Standard accessories	Batteries, windscreen, English manual
Power	1.5V battery (R03) x 3
Display	32 x 26mm
Product size	150 x 52 x 27mm
Product net weight	116g
Standard individual packing	Blister
Standard quantity per carton	UT353: 40pcs; UT353BT: 20pcs
Standard carton measurement	UT353: 505 x 330 x 280mm; UT353BT: 367 x 262 x 290mm
Standard carton gross weight	UT353: 8.42kg; UT353BT: 4.2kg

Figure 7: Comparison table for UT353 and UT353BT models.

7. Scope of Application

The UT353 is a stable, safe, and reliable mini sound meter, widely used in various scenarios requiring noise level assessment:

- **Environmental Noise Measurement:** Ideal for monitoring noise levels in urban areas, near traffic, or in residential zones.
- **Industrial Settings:** Useful for noise detection and quality control in factories and workshops to ensure compliance with safety regulations.
- **Health and Safety:** Assists in assessing noise exposure for health control purposes in workplaces.
- **Home Audio and Entertainment:** Can be used to measure sound levels in home theaters, recording studios, or during events.



Figure 8: The UT353 being used in an office setting for noise monitoring.

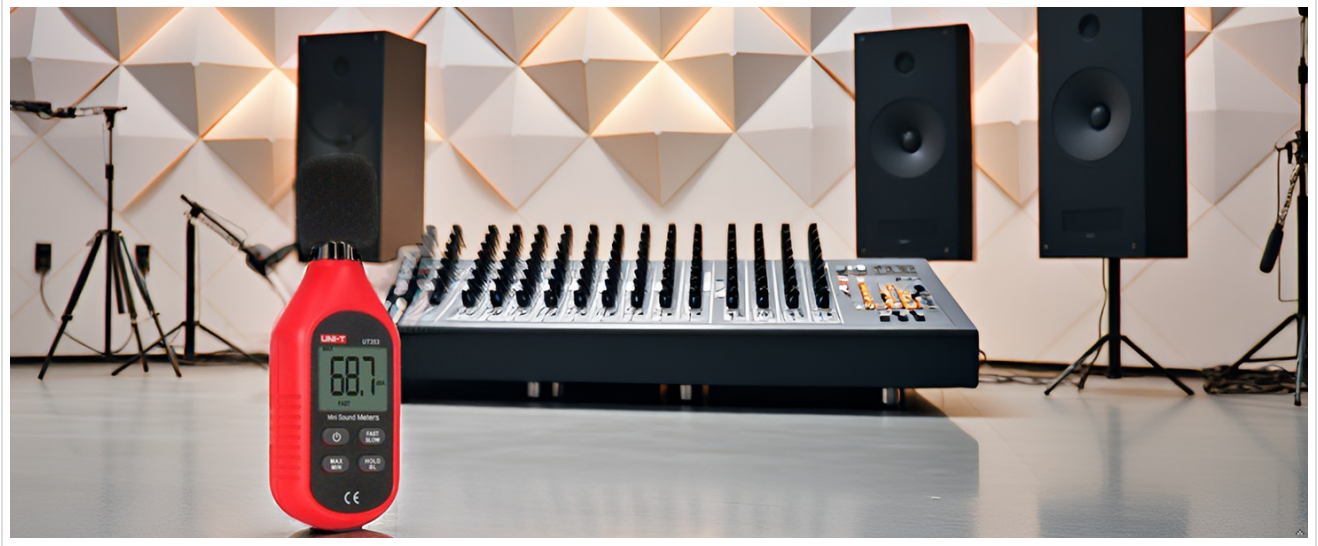


Figure 9: The UT353 positioned in a sound studio, indicating its use in audio environments.



Figure 10: Illustrative examples of the UT353's application in diverse environments.

8. Maintenance

- Keep the device clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Avoid exposing the meter to extreme temperatures or direct sunlight for prolonged periods.
- If the meter will not be used for an extended period, remove the batteries to prevent leakage and damage.
- Store the device in a cool, dry place within the specified storage temperature and humidity ranges.

9. Troubleshooting

If you encounter issues with your UNI-T UT353, consider the following basic troubleshooting steps:

- **No Power:** Check if the batteries are correctly installed and have sufficient charge. Replace them if necessary.
- **Inaccurate Readings:** Ensure the microphone is clean and unobstructed. Verify that the sampling rate (FAST/SLOW) is appropriate for your measurement needs.
- **Display Issues:** If the display is dim or flickering, check the battery level. If the backlight is off, long press the HOLD/BL button to activate it.
- **"OL" or "UN" on Display:** This indicates an over-range or under-range condition. The sound level is outside the meter's measurable range (30-130dB).

For persistent issues, contact UNI-T customer support or refer to the official product documentation for more detailed troubleshooting guides.

10. Warranty and Support

10.1 Warranty Information

The UNI-T UT353 Mini Sound Level Meter comes with a**1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, product inquiries, or warranty service, please contact UNI-T customer support through their official channels. You can find more information and contact details by visiting the UNI-T Store on Amazon or their official website.

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Details

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