

aceline

User Manual

Portable Audio System
APA-100

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Dear Customer,

Thank you for choosing our products.

We are pleased to offer you appliances and devices designed and manufactured to the highest standards of quality, functionality, and design. Before using the device, please read this manual carefully. It contains important information regarding your safety, as well as recommendations for the proper use and care of the product. Please keep this manual in a safe place and use it as a reference guide during future operation of the product.

Intended Use

The audio system is designed for playing sound from external devices.

Safety Precautions

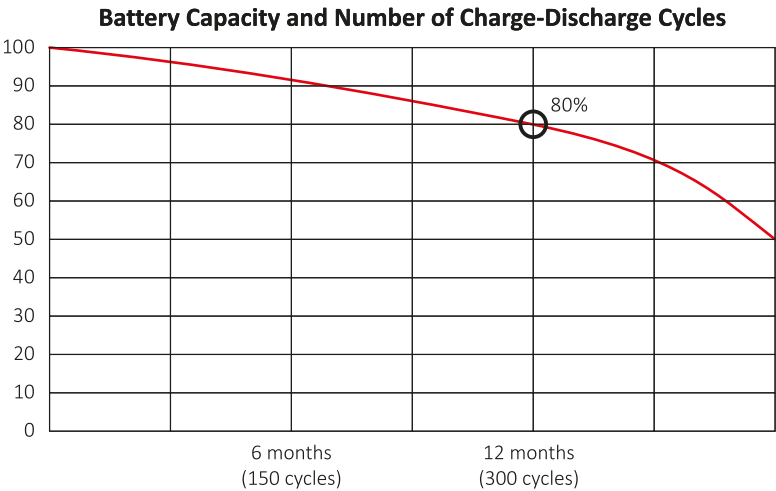
- Before plugging in the device, ensure it is properly assembled. Before each use, check that all parts are securely in place.
- Do not disassemble the device yourself to avoid electric shock. This device contains no user-serviceable parts. Maintenance and repairs should only be performed by qualified technicians at an authorized service center.
- Unplug the device from the power source when not in use.
- Always turn off the device before unplugging it. To disconnect, grasp the plug — do not pull the cord itself.
- Do not touch the device, plug, or power cord with wet hands.
- Do not allow small objects (needles, pins, coins) or insects to enter the device through the openings.
- Protect the device from water, any liquids, moisture, extreme temperatures, dust, and dirt. Do not install the device in areas with high humidity or dust.
- Do not install the device in areas with high humidity or dust. Do not place containers with liquids (vases, glasses, bottles, etc.) on or near the device.
- Protect the device from overheating. Do not place it near powerful heat sources (heating appliances, etc.) or expose it to direct sunlight.
- Do not use benzene-based substances, alcohols, or solvents to clean the device, as they may damage the device and its painted surfaces. To clean the device, use only a soft, dry cloth.
- To avoid damaging the device and to prevent electric shock, use only undamaged connectors for connection.
- This device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the device.
- Use the device only for its intended purpose.
- This device is not intended for commercial use.

Rechargeable Battery Guidelines (Li-pol/Li-ion)

Dear Customer, please note that this device uses a lithium-based rechargeable battery as its power source. Please carefully read the information below to help extend the life of your battery and prevent undesirable consequences during its operation.

Battery Capacity and Charge-Discharge Cycles

During prolonged storage and use, the rechargeable battery (hereinafter referred to as “the battery”) tends to lose its charge and capacity. After 300 charge-discharge cycles (approximately one year of device use), the battery capacity may decrease to 80% of its nominal value. After 400 charge-discharge cycles, the battery capacity may decrease to 60% of its nominal capacity. Partial capacity reduction within these limits and time frames is natural battery wear and is not considered a defect.



Natural Battery Wear

The battery loses charge even when stored separately from the device. The self-discharge rate is approximately 5% per month. Due to their design, batteries are not durable and constantly degrade regardless of whether they are in use. This degradation accelerates at higher temperatures and when the charge level deviates from the “optimal” storage level, which is generally considered to be 40%. In other words, if the battery is not in use, it is advisable to keep the charge level between 40% and 50%.

Use Only the Original Charger

The battery’s charge and discharge capability is controlled by its built-in Battery Management System (BMS) . Forced “fast charging” modes using external chargers for Li-ion batteries are strictly not recommended, as charge and discharge currents are limited. Li-ion batteries do not have a so-called “memory effect” You can start charging or discharging the battery from any charge level.

Most devices have charge and discharge limits—the controller may prevent the battery charging if, for example, the charge is already above 90%. It will also prevent the battery from fully discharging, protecting the cells from damage. Even if the device is powered by the electrical grids, the Li-ion battery should undergo a full charge/discharge cycle at least once a month (until the “low battery” warning appears). Never let the battery discharge completely. A Li-ion battery degrades quickly if stored in a discharged state for a prolonged period. If this happens, charge it immediately. If the battery remains in a discharged state for two weeks or more, irreversible capacity loss occurs in the cells, which will ultimately lead to battery failure.

Observe the Temperature Requirements

Batteries must be stored in a charged state at temperatures between +15 °C and +35 °C with normal humidity. Batteries do not perform well prolonged operation in very high (above +40 °C) or very low (below -10 °C) ambient temperatures. Do not leave the battery in direct sunlight.

Do Not Disassemble, Burn, or Use Damaged Batteries

Under no circumstances should you attempt to disassemble the battery or charge its individual cells. For repair or maintenance, please contact an authorized service center. Puncturing or crushing the cells can cause an internal short circuit, leading to fire and explosion. Melting of lithium due to high temperatures can also cause an explosion. If the seal is broken, water or condensed atmospheric moisture can enter the cell, potentially triggering a reaction that releases hydrogen and causes a fire. You can check the current battery status using the battery indicator, which is available on almost all devices (please check its location and operation method at the time of purchase).

CAUTION:

- Be careful — damaged batteries may release harmful substances.
- If the battery is replaceable (removable), and you discover problems with its performance, contact a service center (see the warranty period in the warranty information). If the battery is built-in (an integral part of the device), the warranty applies to the device itself. You should also contact a service center. The sooner you bring a malfunctioning battery in for repair, the more likely it can be restored with minimal cost.
- Battery operating time depends on many other factors, and the actual operating time may differ from the stated value.
- Rechargeable batteries have a limited number of charge cycles and may eventually need replacement (see the limited warranty conditions for the battery in the warranty information). Battery operating time depends on the usage mode and settings.

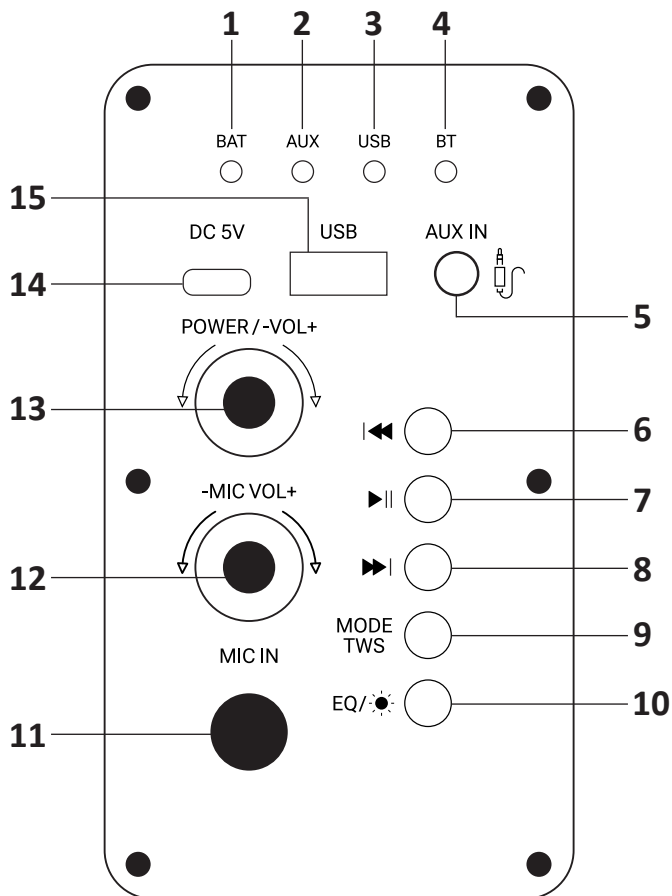
Specifications

- Model: APA-100.
- Trademark: Aceline.
- Power supply: 5 V = 2 A.
- Built-in battery:
 - Type: Li-ion.
 - Capacity: 3600 mA·h.
 - Voltage: 3.7 V.
- Charging time: 3 hours.
- Battery life: 3 hours.
- Battery life at maximum volume: 1.5 hours.
- Number of speakers: 2 pcs.
- Speaker diameter: 162.5 mm.
- Speaker impedance: 2 Ω .
- Signal-to-noise ratio: 85 dB.
- THD: $\leq 10\%$.
- Frequency range: 140 Hz – 20 kHz.
- Output power: 20 W.
- Bluetooth specifications:
 - Bluetooth version: 5.4.
 - Wireless standard: IEEE 802.15.1.
 - Frequency range: 2402–2480 MHz.
 - Transmitter power: < 11 dBm.
 - Bluetooth range: Up to 10 m.
- FM radio: 87.5–108 MHz.
- Maximum memory card capacity: 64 GB.
- Charging port: Type-C.
- Input interfaces: USB A, 3.5 mm jack.
- Cord type: X.
- Protection class: III.
- Scope of application: Domestic.

Package Contents

- Audio system.
- Microphone.
- USB Type-C cable.
- User manual.

Control Panel Diagram



1. Charging indicator.
2. Analog connection indicator.
3. USB indicator.
4. Bluetooth indicator.
5. AUX jack.
6. Previous audio track / decrease microphone echo effect.
7. Multifunction button.
8. Next audio track / increase microphone echo effect.
9. Playback mode selection.
10. Equalizer/backlight.
11. Microphone input jack.
12. Microphone volume control.
13. Power button / speaker volume control.
14. Charging connector.
15. USB connector.

Operating Instructions

1. Connect the device to a power source.
2. Turn on the device by rotating the «POWER/-VOL+» control to the right until it clicks. Note that while the device is charging, the indicator will glow red; when fully charged, the indicator will turn off.
3. Connect the audio source to the device using an AUX audio cable or the corresponding connector. The «AUX» indicator on the back panel of the device will light up.
4. Connect a microphone to the corresponding jack on the device panel. Adjust the microphone volume, speaker volume, and echo level using the appropriate controls.

Playback from External Storage Devices

The audio system can play MP3 audio files from USB drives.

To play audio from a USB drive, connect it to the corresponding connector on the audio system. Playback will start automatically. Control playback using the buttons on the device panel.

CAUTION: The USB connector is intended for USB drives only and does not support charging.

Bluetooth Mode

1. Turn on the device by rotating the «POWER/-VOL+» control to the right until it clicks.
2. Press the «MODE/TWS» button to select Bluetooth mode — the “BT” indicator on the back panel of the device will light up.
3. Activate Bluetooth on the source device. From the list of available devices, select “APA-100”. If necessary, enter the password “0000”. Upon successful connection, the device will emit a sound signal.
4. Control playback from the source device or using the control panel.

Radio Mode

1. Insert the 3.5 mm jack – 3.5 mm jack audio cable (not included) into the AUX jack.
2. Press the «MODE/TWS» button on the device panel to switch to “FM” mode; the “AUX” indicator on the back panel of the device will flash.
3. Press and hold the «▶||» button on the control panel to start automatic radio station search. Found radio stations will be saved in the device memory.
4. To switch between radio stations, press the «◀◀» and «▶▶» buttons on the device panel.
5. To temporarily mute sound in “FM” mode, press the «▶||» button on the device panel.

TWS Function

1. To create a TWS connection, turn on both devices and switch them to Bluetooth mode.
2. Connect one of the devices to a smartphone.
3. To synchronize, press and hold the «TWS» button on both devices simultaneously.
4. Control playback from the source device.
5. To disconnect, press and hold the «TWS» button on both devices again.

Music Control

Multifunction Button

- To pause music playback via USB or Bluetooth, press the multifunction button « ►|| ». To resume playback, press the button again.
- When connected via USB, press and hold the multifunction button « ►|| » to select one of four playback modes:
 - ALL — sequential playback of all tracks.
 - RAND — shuffle playback.
 - ONE — repeat current track.
 - FOL — repeat all tracks in the current folder.

Track Switching

To switch audio tracks, use the « I◀ » and « ▶I » buttons on the device panel.

Echo Effect

- To decrease the echo effect when using the microphone, press and hold the « I◀ » button.
- To increase the echo effect, press and hold the « ▶I » button.

Equalizer

6 modes are available:

- NOR (normal).
- POP.
- ROCK.
- JAZZ.
- CLASSIC.
- CUT.

Press the equalizer button to select a sound mode

Backlight

To turn the backlight on/off, press and hold the corresponding button.

Troubleshooting Guide

Issue	Solution
The device does not turn on	Check the device's connection to the power supply
	The battery is drained; charge the audio system
No sound or sound is too quiet	Check the position of the volume control on both the device and the signal source. Increase the volume if necessary
	Check that the signal source is correctly connected to the audio system
Sound distortion	The cause may be a high input signal amplitude. Adjust the volume directly on the signal source to the optimal level
	The battery is drained; charge the audio system

Rules and Conditions for Installation, Storage, Transportation, Sale (Distribution), and Disposal

- This device requires no assembly or mounting.
- The device must be stored in its original packaging, on heated premises, both at the manufacturer's and at the consumer's sites. The ambient temperature should be between +5 °C and +40 °C, and the relative humidity should not exceed 80% (non-condensing). The storage area must be free from aggressive contaminants (e.g., acid or alkali vapors) that could cause corrosion.
- The device must be transported in a dry place.
- The device requires careful handling. Protect it from exposure to dust, dirt, impact, moisture, fire, and other hazards.
- Sale or distribution of the device must be carried out in accordance with local legislation.
- Upon expiration of the device's service life, it must not be disposed of with unsorted household waste. Instead, it must be taken to an authorized collection point for electrical and electronic equipment for subsequent recycling and disposal in accordance with federal or local legislation. By ensuring proper disposal of this product, you help conserve natural resources and prevent potential harm to the environment and human health that may result from improper handling. For more detailed information about collection and disposal points for this product, please contact your local municipal authorities or your household waste disposal service.
- If a device malfunction is detected, immediately contact an authorized service center or dispose of the device.
- Upon expiration of the service life of batteries supplied with the device, do not dispose of them with other household waste. Batteries must be disposed of in accordance with local waste recycling regulations to prevent potential environmental harm resulting from uncontrolled waste disposal.

Warranty Information

The manufacturer guarantees the device will function properly throughout the warranty period and be free from defects in materials and assembly. The warranty period commences on the date of purchase and applies to new products only. Warranty service includes free repair or replacement of defective parts that fail during the warranty period, provided the failure is not caused by consumer misuse and the product is operated in accordance with the user manual. Repairs or part replacements shall be performed at authorized service centers.

Warranty Period: 12 months

Service Life: 24 months

For the up-to-date list of authorized service centers, please visit:

<https://www.dns-shop.ru/service-center/>

Additional Information

Manufacturer: Shenzhen DuoLeSheng Electronics Co.,Ltd.

1-5F, Building 101A, Building A, Tianxin Industrial Zone, Gushu 2nd Road, Guxing Community, Xixiang Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

Made in China.

The product meets the requirements of the technical regulations of the TR CU (EAEU).

Product specifications, information and appearance are subject to change without prior notice, for quality improvement of our products.



Production date (mm.yyyy): _____ v.1

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