

User Manual

Portable Audio System
All-in-One Wonder V450

Fiero

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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 music playback and providing audio for games, movies, and other multimedia content. It can be connected to a PC, laptop, MP3 or CD player, or other audio sources, and is also capable of playing music from external storage media.

Safety Precautions

- Before plug in, make sure that the voltage of your local power source corresponds to the devices specifications.
- 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.
- Disconnect the device from the audio source if it will not be used for an extended period.
- When disconnecting the device from the power source, only touch the insulated part of the plug. Do not pull or move the device by the cord. Protect the cord from being pinched and do not place objects on it.
- Do not touch the device with wet hands.
- Keep the device and its openings free from foreign objects. Ensure that needles, hairpins, coins, and other small items, as well as insects, do not enter the device.
- Protect the device from water and any liquids, moisture, extreme temperatures, dust, and dirt. Do not install the device in rooms with high humidity and dust.
- Do not place containers with liquids (vases, glasses, bottles, etc.) on or in the immediate vicinity of the device. If liquid spills on the device, immediately disconnect it from the power supply.
- Protect the device from overheating. Do not install it near powerful heat sources (radiators, heaters, etc.) and do not expose it to direct sunlight.
- Do not use benzene-containing substances, alcohols, solvents, etc., for cleaning the device, as they may damage the device and its painted surface. Use only a soft, dry cloth for cleaning.
- To avoid device damage and electric shock, use only functional connectors.
- 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)

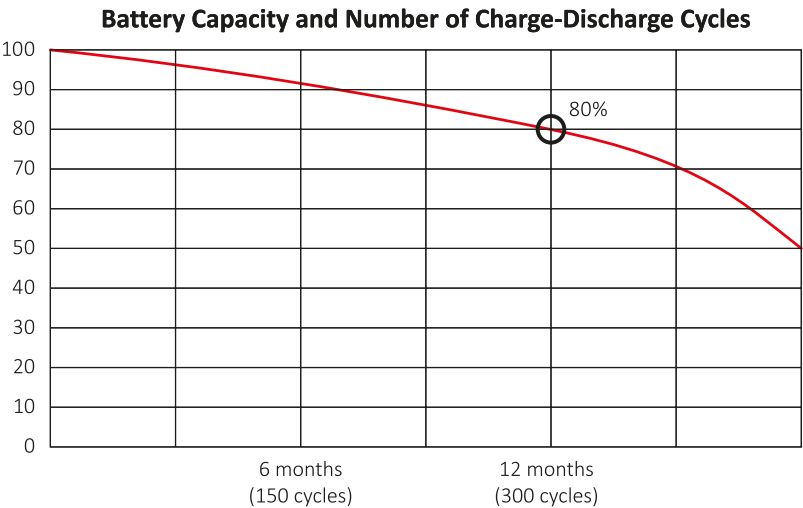
Dear Customer, please note that this device uses a lithium-based rechargeable battery as its power source. Please carefully read the information below to help extend the life of your battery and prevent undesirable consequences during its operation.

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.

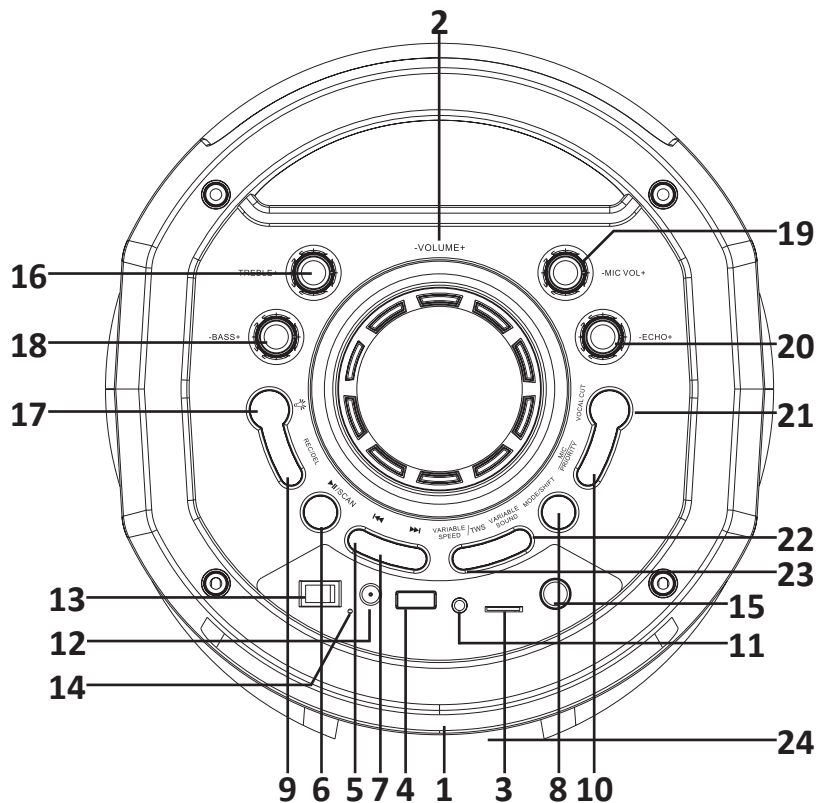
Do Not Disassemble, Burn, or Use Damaged Batteries

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.

Control Panel Diagram



1. LED display.
2. Master volume knob.
3. microSD card slot.
4. USB port.
5. «**⏮**» button: Previous track / radio station.
6. «**⏮**» button: Play/pause / radio frequency scan.
7. «**⏭**» button: Next track / radio station.
8. «**MODE/SHIFT**» button: Switch playback source.
9. «**REC/DEL**» button: Start/stop recording.
10. «**MIC PRIORITY**» button: Microphone priority mode.
11. Line-in jack (AUX).
12. DC charging port.
13. «**POWER**» button: Turn the device on/off.
14. Charging indicator.
15. Microphone input port.
16. Treble knob.
17. «**💡**» button: Switch backlight modes.
18. Bass knob.
19. Microphone volume knob.
20. Microphone echo knob.
21. «**VOCAL CUT**» button: Vocal removal function.
22. «**VARIABLE SOUND**» button: Voice mode change.
23. «**VARIABLE SPEED/TWS**» button: Change music speed / TWS mode.
24. Remote control signal receiver.

Remote Control

1. «» button: Turn the device on/off.
2. Repeat mode button (repeat one/all tracks, random order).
3. «SCAN» button: Radio station search.
4. «TUNE-» button: Tune to the previous radio frequency.
5. «» button: Play/pause/radio frequency scan.
6. «» button: Previous track / radio station.
7. «0-9» buttons: Select track by number / select radio frequency.
8. «» button: Mute sound.
9. «MODE» button: Switch playback source.
10. «EQ» button: Switch equalizer modes.
11. «TUNE+» button: Tune to the next radio frequency.
12. «VOL+» button: Increase volume.
13. «» button: Next track / radio station.
14. «VOL-» button: Decrease volume.



Operating Instructions

1. Connect the device to a power source and turn the power switch to the **«ON»** («Вкл»). position. Please note that the indicator lights up red during charging and turns blue when fully charged. When the battery charge drops below 20–30%, the indicator will start flashing.
2. Connect the audio source to the device using an AUX audio cable or the appropriate port.
3. Connect the microphone to the appropriate port on the device panel. Adjust the microphone volume, treble, bass, and echo levels using the corresponding knobs on the device panel.

Playback from External Storage

The audio system can read MP3 files from USB storage devices. For proper operation, it is recommended to use storage devices with a capacity of no more than 32 GB.

To play audio from an external storage device, connect it to the appropriate port on the audio system. Press the **«USB»** button on the device panel. Playback will start automatically. Control playback using the remote control or the buttons on the device panel.

Note: The USB port is intended for connecting USB storage devices only, not for charging the device.

Radio Mode

1. Insert the 3.5 mm Jack – 3.5 mm Jack audio cable (FM antenna cable) into the line-in jack to enhance the signal.
2. Press the **«MODE/SHIFT»** button on the device panel or the **«MODE»** button on the remote control to switch to **«FM»** mode.
3. Press and hold the **«▶II/SCAN»** button on the front panel to start automatic radio station search. Up to 60 stations will be saved in the device memory even after power-off.
4. To switch between radio stations, press the **«I◀◀»** and **«▶▶I»** buttons on the device panel or the remote control.
5. To temporarily mute the sound in **«FM»** mode, press the **«▶II/SCAN»** button on the device panel.
6. Manually turn off the backlight for more stable radio reception.

Note: Make sure to connect the supplied 3.5 mm Jack – 3.5 mm Jack audio cable.

Replacing Batteries in the Remote Control

1. Open the battery compartment.
2. Insert two AAA batteries, observing the polarity (batteries are not included).
3. Close the battery compartment.

CAUTION: If you are not going to use the remote for a long time, remove the batteries. Do not use old and new batteries together, nor batteries of different types.

Recording to USB

1. Connect a USB storage device to the appropriate port.
2. Start playing audio via Bluetooth, microphone, and/or line input.
3. Press the «**REC**» button to start and stop recording the playback audio onto the USB device. The recording will be saved automatically.

Note: Files played from a USB device cannot be recorded onto the same device.

Backlight Control

Press the «» button on the panel to cycle through 6 preset backlight modes; a seventh press turns the backlight off.

Bluetooth Mode

1. Press the «**MODE / SHIFT**» button on the device panel or the «**MODE**» button on the remote control to switch to «**Bluetooth**» mode. The display will show «**BLUE**».
2. Activate Bluetooth on the source device. Select «V450» from the list of available devices. If prompted, enter the password «0000». Upon successful connection, the device will emit a sound signal.
3. Control playback from your source device, as well as from the remote control or control panel.

Microphone Connection

1. Connect the microphone to the 6.3 mm input jack.
2. Use the corresponding knobs and buttons to adjust the microphone:
«- **MIC VOL** +» — microphone volume adjustment, «- **ECHO** +» — microphone echo adjustment, «**VARIABLE SOUND**» — switching between vocal processing modes.

Notes

- Do not bring the microphone too close to the speaker to avoid generating a sharp sound (feedback).
- For the best effect, hold the microphone at a 45° angle at a distance of 5–15 cm from your mouth.
- When using the microphone, monitor the device's battery level to avoid a drop in sound quality.

TWS Function

TWS (True Wireless Stereo) technology allows you to use two Bluetooth-paired speakers to create a wireless two-channel system with a stereo sound effect.

1. To create a TWS connection, place the two speakers within Bluetooth range. Ensure that both devices are not currently connected to your smartphone/tablet.
2. Turn on both speakers. Press and hold the «**VARIABLE SPEED/TWS**» button on the device panel until a sound signal is heard. When the second device emits a short sound signal, the TWS connection will be successfully established.
3. On your smartphone/tablet, find this audio system in the list of available Bluetooth devices.
4. Control playback on the source device.
5. To disconnect the TWS pair, turn off both speakers.

Karaoke

«Microphone Priority» Function

Press the «**MIC PRIORITY**» button on the device panel to activate the «microphone priority» mode. This function lowers the volume of audio played from USB drives, as well as from line-in and Bluetooth connections, making the microphone sound more pronounced.

Equalizer Adjustment

Use the «EQ» button on the remote control to switch between equalizer presets.

«Vocal Removal» Function

Play a track from your preferred source. Press the «**VOCAL CUT**» button to lower the vocal volume in the played track; use the resulting track as background music for karaoke.

«Speed Change» Function

Play a track from your preferred source. Press the «**VARIABLE SPEED/TWS**» button on the device panel to change the playback speed. Five preset speeds are available: «-2 / -1 / 0 / 1 / 2», where «-2» is the slowest, «2» is the fastest, and «0» is normal speed.

Specifications

- Model: V450.
- Trademark: Fiero.
- Total output power: 80 W.
- Power supply: 220–240 V, 50/60 Hz.
- Built-in battery: 7,4 V, 5000 mAh.
- Charging time: Up to 4 hours.
- Battery life: Up to 6 hours.
- Speakers:
 - Low-frequency speaker: 6,5", 2 pcs.
 - Impedance: 2 Ohm.
 - High-frequency speaker: 1,5".
 - Impedance: 4 Ohm.
- Signal-to-noise ratio: ≥ 65 dB.
- THD: $\leq 10\%$.
- Frequency range: 50 Hz — 20 kHz.
- Bluetooth:
 - Bluetooth version: 5.0.
 - Wireless standard: IEEE 802.15.2.
 - Frequency range: 2400–2483.5 MHz.
 - Transmitter power: 2.5 mW.
 - Bluetooth range: Up to 10 m.
- FM radio frequency range: 87.5–108 MHz.
- Maximum supported USB / microSD capacity: 64 GB.
- Line audio input: 3.5 mm Jack.
- Microphone input: 6.3 mm Jack.
- Cord type: X.
- Protection class: II.
- Dimensions (W × D × H): 230 × 210 × 605 mm.
- Scope of application: Domestic.

Package Contents

- Device.
- Remote control.
- Wired microphone.
- 3.5 mm Jack to 3.5 mm Jack cable.
- AC power adapter.
- User manual.

Troubleshooting Guide

Issue	Solution
The device does not turn on	Check the device connection to the power source
No sound or too quiet sound	Check the position of the volume knob on the device and the signal source. Increase the volume if necessary
	Check the correct connection of the signal source to the speaker
Sound distortion	The input signal amplitude may be too high. Adjust the volume directly on the source device to an optimal level

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.

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 DELUXE-AV ELECTRONICS CO., LTD.

BUILDING A, TIANXIN INDUSTRIAL PARK, GUSHU, BAO'AN DISTRICT, SHENZHEN, 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

Fiero