

Sofa Audio Control Box

AKZQ03

User Manual

Version V0.10

Thank you for choosing our product. Please read this manual carefully before use.

Manufacturer: Hangzhou Zhiyuan Technology Co., Ltd.

**Address: No. 10, Naxian Street, Liangzhu Mainland Industrial Park,
Hangzhou City, • Zhejiang Province**

I、 Technical Parameters

Parameter	Minimum	Typical	Maximum	Unit
Input Voltage	18	29	40	V
Standby Power Consumption	-	2.6	-	W
Operating Temperature	-20	-	60	°C
Storage Temperature	-30	-	85	°C

1.Functional Features

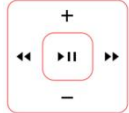
Wired Controller



Front Controls: Motor operation, massage programs, timing functions, etc.

Reverse side functions: music control, music massage and other features.

Buttons and Icons	Function	Usage Method
	Open the sofa	Press and hold to open the sofa, release to stop. Continue until the sofa is fully extended.
	Fold up the sofa	Press and hold to retract the sofa. Release to stop. Continue holding until the sofa returns to its original position. (After returning to the original position, release and then press and hold for 3 seconds to reset.)
	Lumbar Support Elevation	Press and hold to raise the lumbar support, release to stop. Continuous holding will automatically stop at the highest position.
	Retract lumbar support	Press and hold to retract the lumbar support. Release to stop. Continuous holding will automatically stop at the lowest position.
 	Memory Function	Press and hold for 3 seconds—a 'beep' will sound to save the current position (only the reclining position is stored). Press once briefly to move the sofa to the memorized position.(Factory default: Press and hold both SLEEP and TV buttons simultaneously to initialize stroke calibration—this enables the memory function. Note: Only reclining positions can be memorized; lumbar support positions are excluded.)
	Massage Program Selection	After activating the massage function, press this button to switch between massage program modes. There are 3 modes in total: continuous vibration, pulse mode, and wave mode, which cycle in order. The default mode upon activation is continuous massage mode at intensity level 3.
	Timer Setting	The timer has 3 adjustable levels: 10min, 20min, and

		30min. When the massage program is activated, the default auto-shutoff time is set to 30min.
	Massage Intensity Selection & Tips	By default, the massage intensity starts at level 3 when activated. You can adjust it between levels 0-5 using the +/- buttons (level 0 turns off the massage function).
	Status Indicators	BT: Bluetooth music mode USB: USB playback mode (Note: BT and USB modes are mutually exclusive) PRIVACY: Private mode
	Music Playback Function Switch	When pressed, the Bluetooth music function will be turned on, and all functions on the reverse side will be unlocked. A voice prompt will say, 'Bluetooth on, please wait.'
	Audio Source Toggle Switch	In Bluetooth mode, press to switch to USB playback mode. In USB mode, press to return to Bluetooth playback mode. During a massage program, press to switch back to music massage mode.
	Music Massage Intensity Adjustment	The music-sync massage intensity can be adjusted across 6 levels (level 0 turns off the output).
	Quick Playback of Designated Audio Files from USB	Copy your specified audio files into the SLEEP and RELAX folders on the USB drive. These dedicated buttons allow instant access to their respective folders for quick playback.
	Music Playback Control Buttons	▶ Starts or pauses playback; ▶▶ Skips to the next track;

		◀◀ Returns to the previous track; + 、 - Adjusts volume across 15 levels (A beep sounds when reaching maximum volume; no sound at minimum level)
	Private Mode Button	Press to activate Private Mode (top indicator light turns on) Press again in Private Mode to exit and return to normal operation

Combination key:

Buttons and Icons	Function	Usage Method
 + 	Stroke Calibration	Press and hold both buttons for about 3 seconds, then release The sofa will complete one full movement cycle to finish calibration *(Must be performed within 30 seconds after power-on)*
◀◀ + ▶▶	Broadcast Mode	Press and hold both buttons for about 3 seconds until you hear the prompt 'Broadcast mode', indicating successful pairing. (Factory default: pre-paired state).
 + 	Posture Control Direction Reversal	Within 30 seconds of powering on, simultaneously press and hold both buttons for 3 seconds. A confirmation beep will indicate successful reversal of the posture control direction.
 + 	Lumbar Support Control Direction Reversal	Within 30 seconds of powering on, simultaneously press and hold both buttons for 3 seconds. A beep sound will indicate successful reversal of the lumbar support control direction.

II、 Instructions for Use

The control system integrates five independent functional modules: posture adjustment, lumbar support, music playback, massage, broadcast, and dual-device connectivity. These modules operate independently and can be used simultaneously. Below are detailed explanations for each module.

1. posture adjustment, lumbar support

The system provides control of:

Sofa reclining angle

Lumbar support height adjustment

Functional Capabilities:

Position control (recline/lift)

Lumbar support elevation

Reset function

Memory preset function

Reset Operation:

To return to default position: Release all controls, Press and hold the "Retract" button for 3 seconds.

Memory Preset:

To store a preferred position: Adjust to desired position, Press and hold either "SLP" or "TV" button for 3 seconds, A confirmation beep will sound

To recall: Briefly press the corresponding preset button

Important Notes:

During automatic memory position operation, if the user activates any posture or lumbar support buttons, the process will immediately abort and return to standby mode. To complete the memory position, press either the 'SLP' or 'TV' button again.

Refer to the handheld controller button instructions for specific operation methods.

2. music playback

The music system supports two playback modes: Bluetooth audio and USB playback, which

can be switched between seamlessly.

Key Features:

Volume adjustment (increase/decrease)

Track selection (previous/next)

Play/pause control

Private listening mode

Volume Control System:

Device Volume (controlled via handheld unit):

16 adjustable levels (Level 0: mute; Level 15: maximum)

Default volume level: 12 (upon system startup)

Last user-adjusted level will be maintained for subsequent startups

Source Volume (connected device volume):

Adjustable during playback

Note: Source volume adjustments may affect music massage performance

Final output volume = Device Volume × Source Volume

Bluetooth Audio Connection Procedure:

① Activate Bluetooth Mode:

Press the "BT" button on the handheld controller to enable Bluetooth

BT indicator will flash

Voice prompt: "Bluetooth on, Please wait"

Music functions are now unlocked

② Pairing Process:

a. For New Connections:

Enable Bluetooth on your smartphone

Search and select "Sofa Speaker_Nxxxxx"

Upon successful pairing, voice prompt: "Bluetooth connected"

BT indicator becomes solid

b. For Previously Paired Devices:

If device exists in phone's paired list: Automatic reconnection

If not in list but has pairing history: Speaker will send pairing request

③Control Functions:

Available via handheld controller:

Volume +/-

Play/Pause

Previous/Next track

Privacy mode

④Multi-Device Compatibility:

Also works with PCs and Smart TVs

Follow same pairing procedure as smartphones

USB Playback Mode Entry Steps:

①Turn on the Bluetooth switch and insert the USB drive into the USB port on the top of the handheld controller.

②Press the "USB" button on the handheld controller. If successfully entered, a voice prompt will announce "USB Access." If no USB drive is detected, the prompt will say "Unrecognized device." To exit, press "USB" again, and the prompt will announce "USB Eject," after which Bluetooth will automatically turn back on.

③During playback, the handheld controller can be used to adjust "Volume +," "Volume -," "Play/Pause," "Previous Track," "Next Track," and activate private listening mode, among other functions.

④"RELAX" and "SLEEP" are two music styles available in USB playback mode. When the device is powered on, inserting a USB drive will automatically create two folders named "RELAX" and "SLEEP" on the drive. Users simply need to place corresponding music files in these folders to enable categorized playback.

Notes:

The USB drive must contain music files in supported formats: WAV, WMA, or MP3.

Auto-shutdown protection:

After powering on, if no user interaction occurs during vibration-accompanied playback (music mode), the device will automatically shut down after 8 hours (no voice prompt will sound).

3. massage

The massage system includes Music Massage and Program Massage, which can be switched between.

Massage Intensity:

6 adjustable levels: Off、 Level 1 (Lowest)、 Level 2、 Level 3、 Level 4、 Level 5 (Highest)

Massage Areas: Back、 Buttocks

Note: Intensity adjustments apply to both areas simultaneously.

3.1 Music Massage Mode

In this mode, the massage intensity adjusts dynamically based on the music's rhythm. The strength depends solely on the selected gear level and the audio volume—the louder the music, the stronger the massage.

Use the "Music Massage +" and "Music Massage -" buttons on the handheld controller to enter this mode and adjust the intensity level.

The default intensity level after powering on is 3 (Medium).

3.2 Programmed Massage Mode

In this mode, the massager vibrates in a fixed pattern, including three preset modes

Continuous Massage: The massager vibrates continuously at a constant frequency of 35Hz.

Pulse Massage: The massager alternates between vibration and pause in a rhythmic pattern.

Wave Massage: The intensity gradually increases and then decreases in a wave-like motion.

Operation:

Press the "MODE" button on the handheld controller to cycle through the programmed massage modes.

The default intensity level is 3 (Medium).

Timer Settings:

Three adjustable timer options: 10min, 20min, or 30min.

When programmed massage is activated, the default auto-shutdown timer is set to 30 minutes.

4. broadcast

Default Factory Grouping Mode (Synchronized Playback)

The system is preset in a grouped state, enabling synchronized playback of the same audio

source across multiple units.

Connection Method:

When Bluetooth is enabled on all compatible sofas, the system automatically enters grouping standby mode. The user only needs to connect to any one sofa's Bluetooth—this unit will become the master device, while all other Bluetooth-enabled sofas will automatically pair as slave devices. No manual setup is required.

Important Notes:

Functional Consistency:

Only Bluetooth music and USB playback functions are synchronized and controlled by the master device's handheld controller.

All other functions (volume adjustment, private listening mode, programmed massage, sofa posture, and lumbar support) remain independently controllable via each unit's own handheld controller.

Broadcast Mode Limitation:

Dual-device Bluetooth connections are not supported in broadcast mode.

Exiting Grouping Mode:

Prompt: Upon successful exit, the device will play the audio prompt "Broadcast off".

Post-exit Status: The device switches to standalone mode. It will not automatically rejoin the group, even after Bluetooth restart or power cycling.

Rejoining a Group:

To re-enter grouping standby mode (device must be powered on), long-press the designated combo button on the device until the "Broadcast mode" prompt is heard.

5. dual-device connectivity

Usage Steps:

① Press the 'Turn On Bluetooth' button on the remote control to activate Bluetooth. A voice prompt will say, 'Bluetooth on, Please wait.'

② Prepare two mobile phones, enable Bluetooth on both, and search for a device named 'Sofa Speaker_Nxxxxx.'

③ Pair and connect. The first connected phone will announce 'Bluetooth connected,' while the second will have no prompt.

Notes:

- Under dual-phone connection, a playback priority mechanism applies—the device that last pressed play gains playback rights. Switching priority has a time interval and cannot be rapidly toggled back and forth.
- If the currently playing device pauses while the other device is playing, the audio source will automatically switch to the other device.
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III、 List of Voice Prompts

Chinese-English Translation Table		
Sequence Number	Chinese	English
①	连接成功	Bluetooth connected
②	蓝牙断开	Bluetooth disconnected
③	进入蓝牙	Bluetooth on
④	等待连接	Please wait
⑤	关闭蓝牙	Bluetooth off
⑥	进入 USB 播放模式	USB Access
⑦	退出 USB 播放模式	USB Eject
⑧	未识别设备	Unrecognized device
⑨	组队打开	Broadcast mode
⑩	组队关闭	Broadcast off

FCC Regulations

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/ TV technician for help.
- Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.