



TENNIIX

Smart Tennis Ball Machine User Manual



01 Product Overview

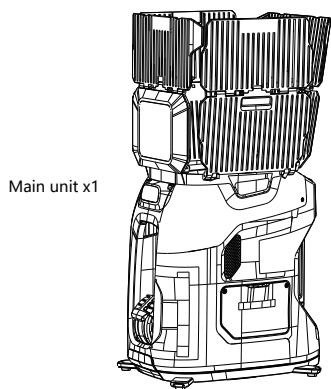
The Smart Tennis Ball Machine is a sports device that simulates tennis rallies, replicating various tennis trajectories. It provides users with basic shot type training and match mode training to enhance their tennis skills.

Featuring "Dual Control" via App and Voice, it offers users multiple operation methods, allowing them to choose the most effective one and improve their experience during training.

It simulates ball paths and delivers precise serves, akin to having a professional coach for full-session practice, enabling more effective training methods and more focused shot practice.

02 Product Introduction

1.Package Contents



Main unit x1



User Manual x1



Quick Start Guide x1



Voice Controller
Charging Cable x1



Spare Battery x1
(Pre-installed)

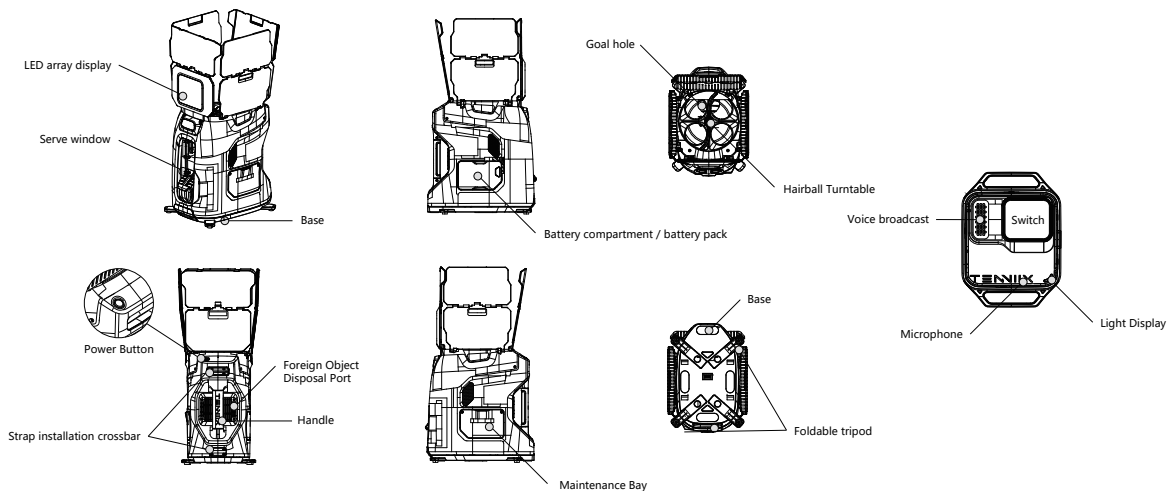


Host Charger x1



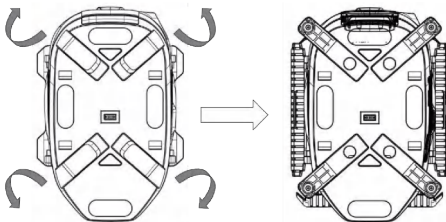
Host Charging Cable x1

2.Related Names



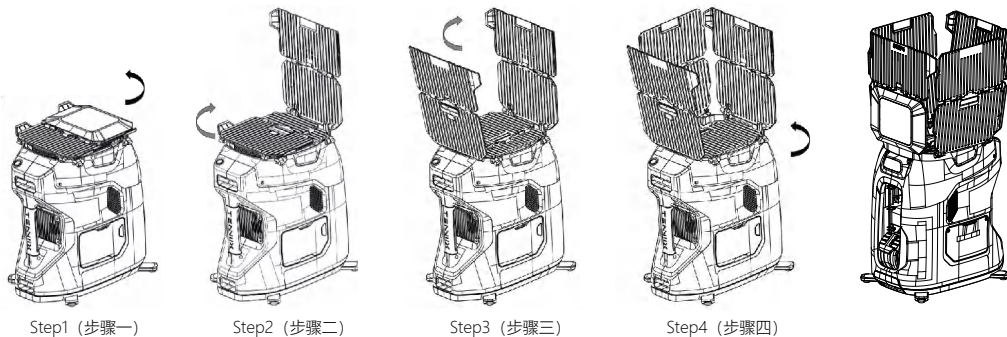
03 Device Installation Instructions

1.Foldable Stand Operation Instructions

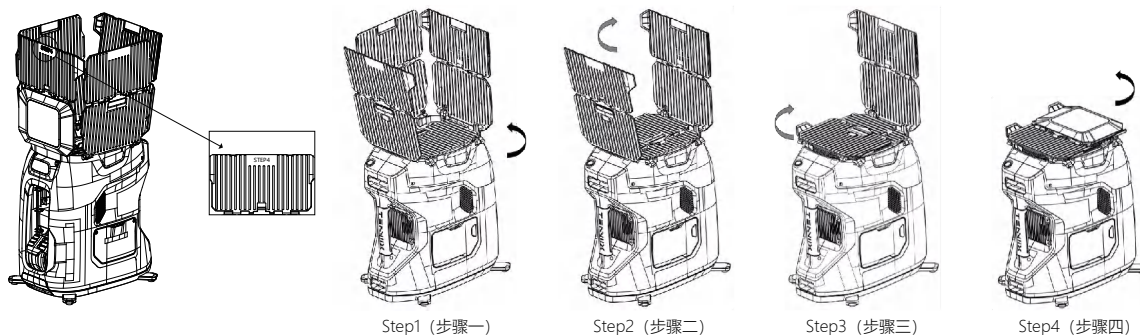


2. Foldable Ball Collector Operation Instructions

2.1 Installing the Foldable Ball Collector



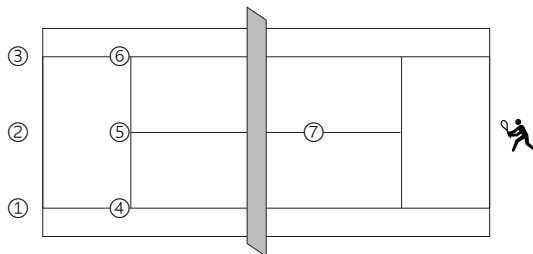
2.2 Storing the Foldable Ball Collector



⚠ Note: Please fold and store the panels in the sequence described above. Incorrect order may cause damage to the foldable ball collector's folding panels.

3. Tennis Machine Placement Instructions:

The Smart Tennis Machine can be placed at the recommended positions on the tennis court (①-⑦) as shown in the diagram below:



For users new to the tennis machine, it is recommended to first choose position ②. After becoming familiar with the product's functions/performance, you can then place the tennis machine at your desired location based on personal needs.

⚠ NOTE: The landing point of the ball after being served by the machine is also related to factors such as the internal pressure of the ball itself.

⚠ Warning: Keep body parts away from moving parts

04 APP Operation Instructions

App Connection



TENNIIX

A. Scan the QR code on the right to download the "TENNIIX" APP (QR code for download to be added);

B. Open the APP and complete login/registration;

C. Tap the home page icon to search for and pair with the Bluetooth device "TNS_Machine_XXX";

D. After successful pairing, the system will automatically return to the home page, displayed in blue.

⚠ NOTE: Gray display indicates Bluetooth is disconnected or turned off; blue display indicates successful connection.

Path to video in APP

Open APP Homepage -> Profile -> User Manual

05 Voice Control Instructions

Voice Controller Connection

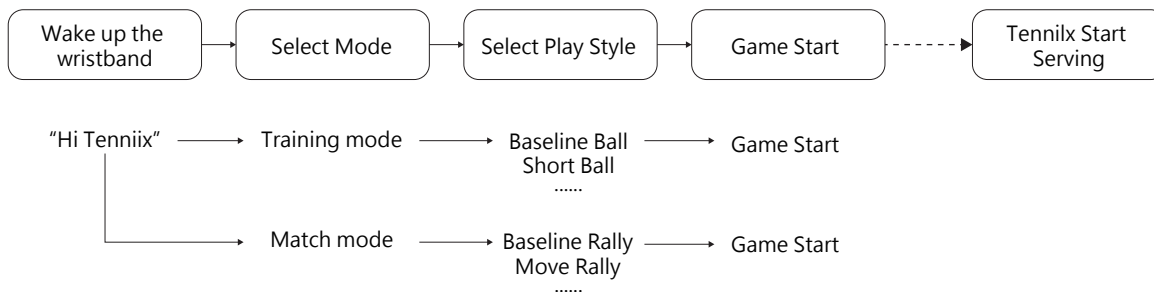
- **First pair** : Keep the tennis machine power on · the wristband is power off. Press and hold the one-press voice control button for ≥ 10 seconds, the wristband announce "Entering pair mode", keep distance between the tennis machine and the wristband ≤ 3 meters, then these two device will automatically completed pairing, the wristband will announce "pairing completed".
 - During the long press, the device indicator light will alternate between red and green.
 - When Bluetooth is connected normally, the green light stays on steadily. If the Bluetooth connection fails, the red light stays on steadily.
 - After the initial pairing is successful, subsequent use will involve automatic connection upon turning on the devices, with the voice prompt "Bluetooth Connected".
 - **Power On**: Press and hold for 3 seconds, voice prompt ""Welcome to use Smart Tennis Ball Machine"", light stays on steadily.
 - **Power Off**: Press and hold for 3 seconds, light turns off.

▲ NOTE:When going out of the device's connection range, it will automatically disconnect, with the prompt "Bluetooth Disconnected".

▲ NOTE:Before using voice control, ensure the machine is correctly placed according to the "Tennis Machine Placement Instructions".

Voice Module Usage Steps

Simulated operation as follows:



Relevant command words are as follows:

1.Wake up and shut down the voice control device

Function	Voice Command Words	Voice Feedback Words
Wake up the voice controller	Hi Tennis	Hello
Enter standby mode	Go To Sleep	Ok, Bye

2.Mode selection

Voice Command Words	Voice Feedback Words
Training Mode	Ok, Training Mode Start
Match Mode	Ok, Match Mode Start
Position Reset	Ok, Position Reset

3.Ball Type selection

Voice Command Words	Voice Feedback Words
Baseline Ball	Ok, Baseline Ball
Short Ball	Ok, Short Ball
Feed Ball	Ok, Feed Ball
Volley Shot	Ok, Volley Shot
Kill Shot	Ok, Kill Shot
Moon ball	Ok, Moon ball
Hand Feed	Ok, Hand Feed

▲ Note: After determining the ball type, you can first perform a shot test to check if serving is normal. Confirm normal operation before starting training.
Command word: "Shot Test", Feedback sound: "Ok, Test One Ball".

4.Simulate rally

Voice Command Words	Voice Feedback Words
Baseline Rally	Ok, Rally
Deep And Short Rally	Ok, Deep And Short
Move Rally	Ok, Moving
Spin Rally	Ok, Mix Spin

5.Serve adjustment

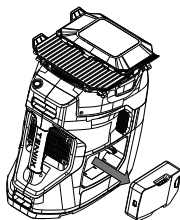
Function	Voice Command Words	Voice Feedback Words
Regulate tennis ball speed	Serve Fast	Ok, Speed Up
	Serve Slow	Ok, Slow Down
Lateral Landing Point Adjustment	Forehand Return	Ok, Forehand Return
	Backhand Return	Ok, Backhand Return
	Forehand and Backhand	Ok, Forehand, Backhand, Alternating
Vertical Trajectory Adjustment	Higher Shot	Ok, Higher Shot
	Lower Shot	Ok, Lower Shot
Spin Adjustment	Spin More	Ok, Spin Faster
	Spin Less	Ok, Spin Slower
	No Spin	Ok, No Spin
Ball Interval Adjustment	Longer Interval	Ok, Longer Interval
	Shorter Interval	Ok, Shorter Interval

6.Tennis machine status adjustment

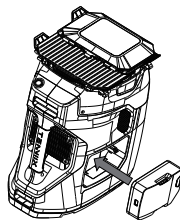
Voice Command Words	Voice Feedback Words
Game Start	Ok · Game Start
Game Pause	Ok · Game Pause

06 Maintenance and Care

1.Main Unit Battery Charging



Removing the Battery Cabin:
Press the Battery Cabin button and pull out the Battery Cabin.

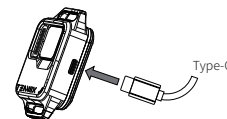


Installing the Battery Cabin:
Install the Battery Cabin in the correct orientation as shown. A click sound indicates it is properly installed.

2.Voice Controller Charging

Charge using a Type-C interface data cable.

▲ NOTE: The packaging box does not include a data cable.



3.Other

Regular Cleaning: Wipe the shell with a soft cloth. Avoid using corrosive cleaners.

Lubrication Maintenance: Apply a small amount of lubricating oil to the roller bearings every six months.

Storage Environment: When not in use for extended periods, remove the battery. Store the main unit and battery separately in a dry, well-ventilated place, avoiding direct sunlight.

07 Specifications

1.Tennis Machine Specifications

N.W	Smart tennis ball machine : 8.0 kg
	Standard battery pack : 0.82 kg
	Wristband : 0.06 kg
	Adapter : 0.38 kg

Dimensions	Before fold : 392mm×292mm×727mm
	After fold : 392mm×271mm×448mm
	Standard battery pack : 160mm×105mm×50mm
Suitable Tennis Ball	Standard tennis ball : 2.57~2.70 inch · 3~4 psi · 1.975~2.095 oz.
Max Capacity of Collector	≤100
Top Speed of Serve	≈75mph · 120km/h
Standard Battery Specification	Lithium Battery · 7000mAh · 21.9V
Endurance Time	4h
LED Array Display	RGB LED · 16*13 array · 6-inch display area
Control Method	Voice command of wristband 、APP Control
Safety Distance	Users must maintain a safety distance of at least 10 meters in front of the serve window

2.Voice Controller Specifications

Product Name	TENNIIX Voice Controller
Product Model	VOICE01
Rated Voltage	DC 5V
Rated Current	0.3A
Battery Life	3h
Product Quality	60g
Product Dimensions	69.9*51.5*20.2mm

08 Safety Precautions

Venues Usage Instructions:

- Indoor tennis courts, indoor sports halls, and other venues with fully covered roofs and dry surfaces.
- The product has UWB wireless functionality and is prohibited from being used outdoors.

Operational Precautions:

- After use, operate the bar-type ball hopper's folding panels in the sequence ① -> ④, ensuring each panel is completely folded.
- When replacing the battery, turn off the tennis machine's power. Do not operate while powered on.
- While the tennis machine is operating, do not put limbs/foreign objects into the ball exit window.
- Use the original single shoulder strap, or carry the machine directly using the handle. Handle with care.
- While the tennis machine is operating, do not manually rotate the machine body to adjust the serving angle, as this may damage the pan-tilt mechanism.
- This product is not waterproof.
- After every 50 hours of use, clean the ball hopper and rollers to prevent the accumulation of tennis ball debris.

Error Indications

Error shows	Cause of abnormality	Solution step
E0	Ball feeding wheel fault	1. Power off
		2. Carefully remove the jammed ball
E1	Ball prelaunch fault	1. Power off
E2	Serve motor fault	2.Contactmanufacturer's after-sales service
E3	AI vision module fault	

▲ Note:If a foreign object enters the service window or gets inside the machine from the ball feeder disc, immediately turn off the power and stop using the machine. Use a screwdriver to remove the main unit's rear cover to take out the foreign object.

09 After-Sales Policy

- Warranty Period: 12 months from the date of purchase. (including core components such as motors, controllers).
- Warranty Coverage: Quality issues not caused by human damage. (e.g., circuit failures, mechanical component malfunctions).
- Non-Warranty Situations:
 - Damage caused by failure to follow the instructions in this manual.
 - Self-disassembly or modification of the device.
 - Damage due to natural disasters or other force majeure factors.

Note:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user ' s authority to operate the equipment.

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 transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: 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.

* RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Antennas mounted on outdoor structures such, as antennas mounted on the outside of a building or on a telephone pole, or any fixed outdoors infrastructure are prohibited for use with this device.