

6.2 Remote Control Usage Instructions

Product Usage Statement: As the product's software version is continuously updated, some functions, operation methods, or interface displays may differ from those described in this manual. If you have any questions or encounter operational difficulties, please feel free to contact official customer service for technical support.

6.2.1 Handheld Remote Control

6.2.1.1 Introduction to the Remote Control



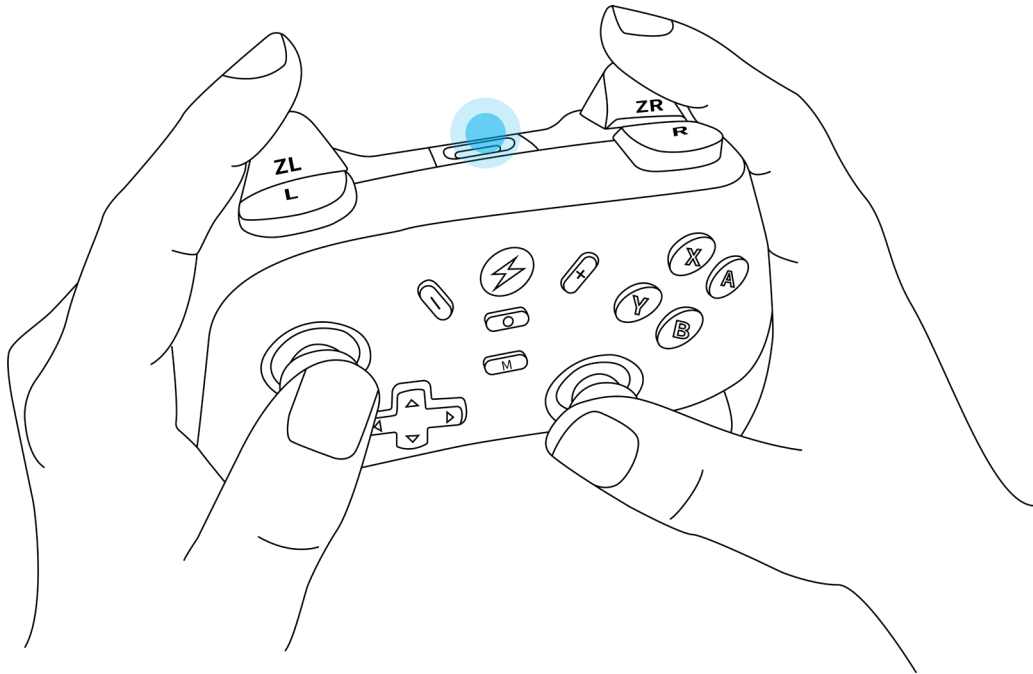
6.2.1.2 Connection Method

1. Press and hold the robotic dog's power button for more than 2 seconds until the battery indicator lights up, which displays the current battery level. Meanwhile, the light strip on the robotic dog's head will flash. After the robotic dog completes startup, the light strip will remain steadily lit and play a startup completion voice prompt.
2. The remote control received by the user is generally in sleep mode. Please press the middle "⚡" button to wake it up.



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3. The remote control is factory-set to "X Mode", as shown in the figure below.

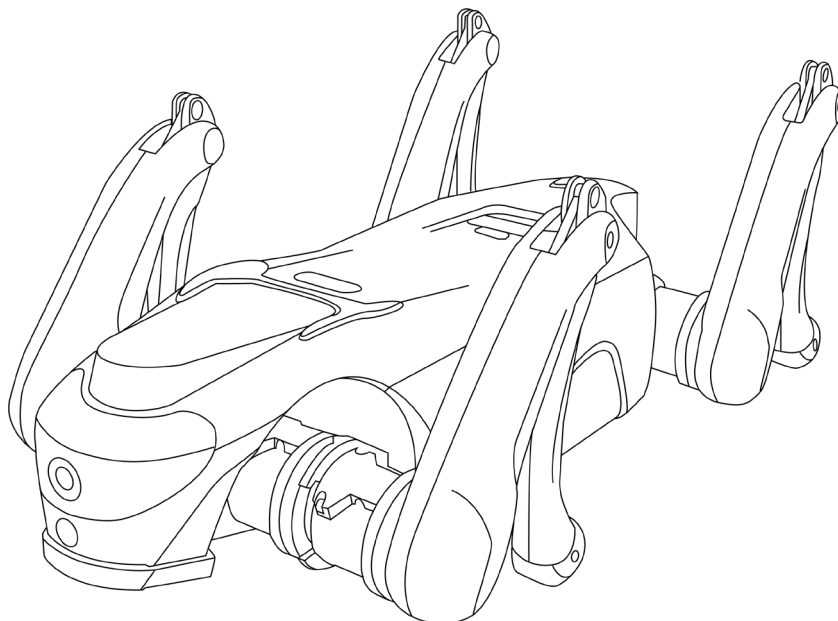


4. If the user finds that the left joystick is unresponsive during operation, it may be because the "MODE" button has been accidentally pressed. Simply press the "MODE" button again to resolve the issue.

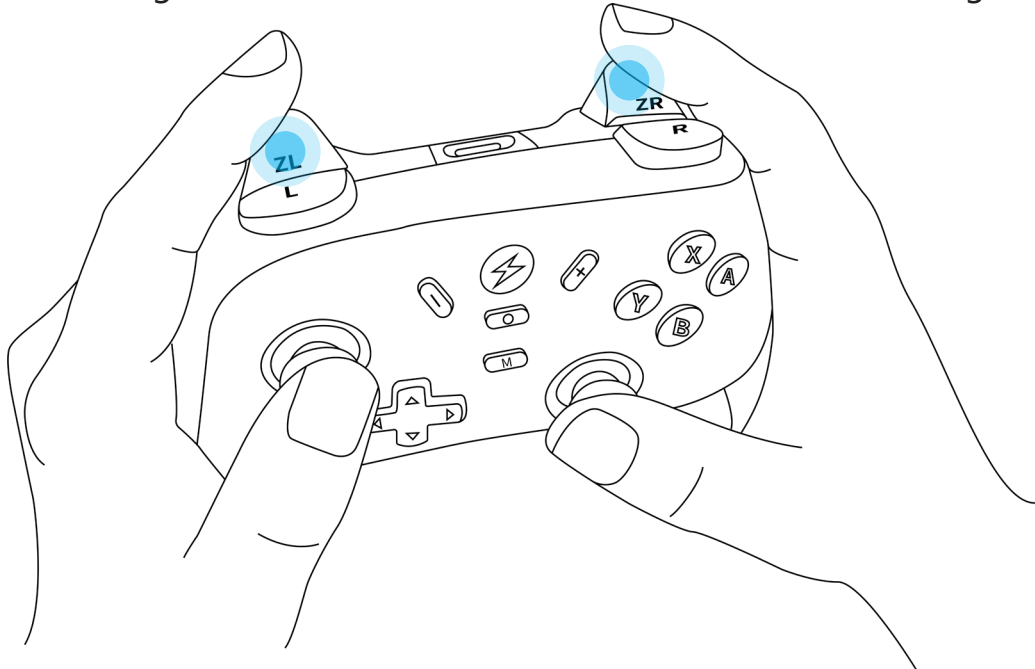
6.2.1.3 Control Instructions

1、Homing Operation

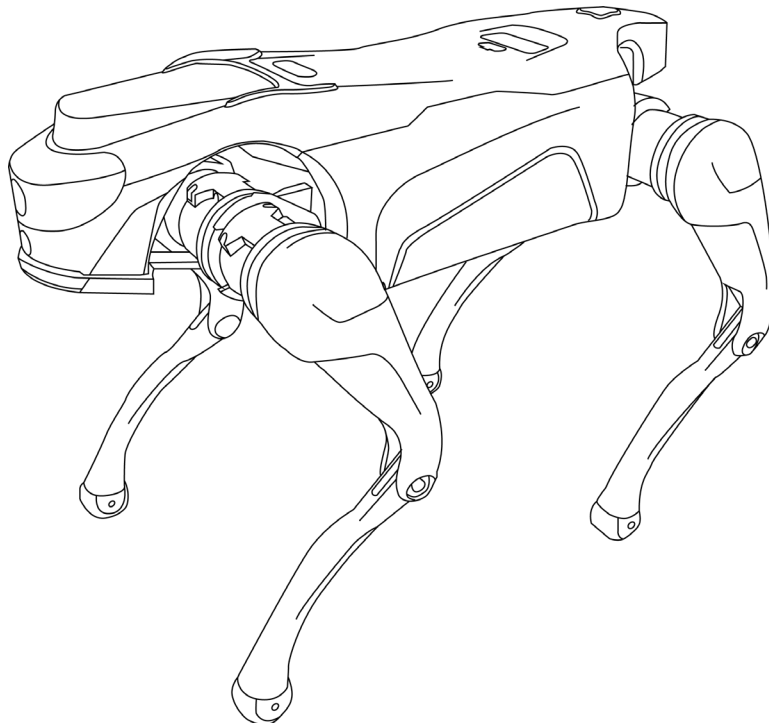
Please place the robotic dog's feet as shown in the diagram.



Press and hold the "ZL" and "ZR" buttons simultaneously for approximately 1 second, as shown in the diagram below. Release the buttons after the robotic dog's feet move.



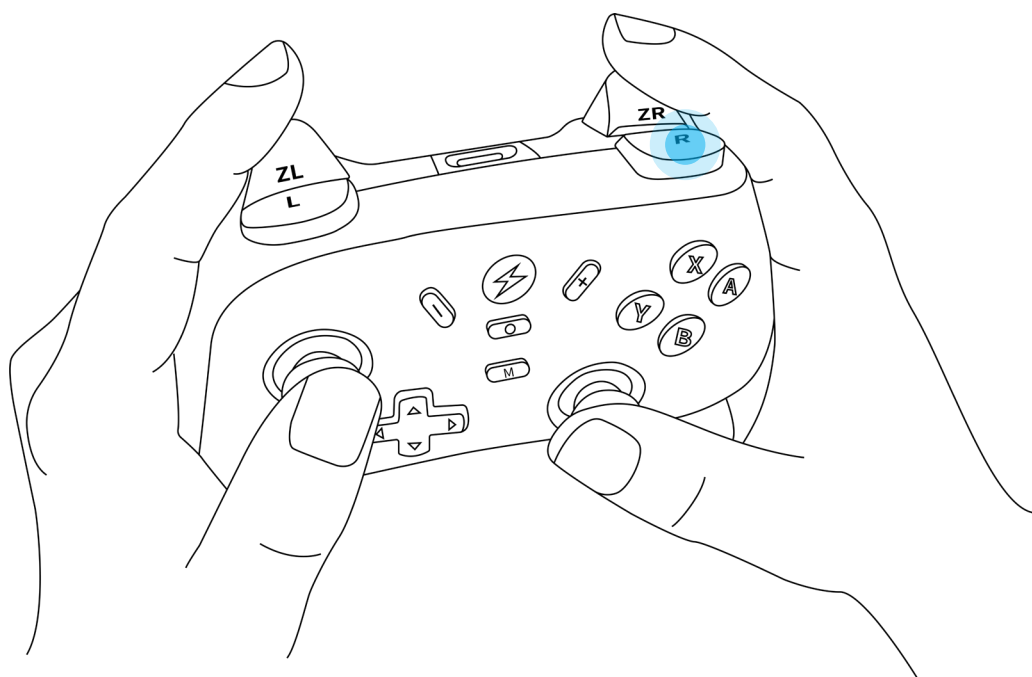
First, the robotic dog's legs will perform the homing operation, and then it will stand up, as shown in the diagram below.



2、Lie Down / Stand Up

In the standing posture, press the "R" button, and the robotic dog will lie down.
In the lying-down posture, press the "R" button, and the robotic dog will stand up.

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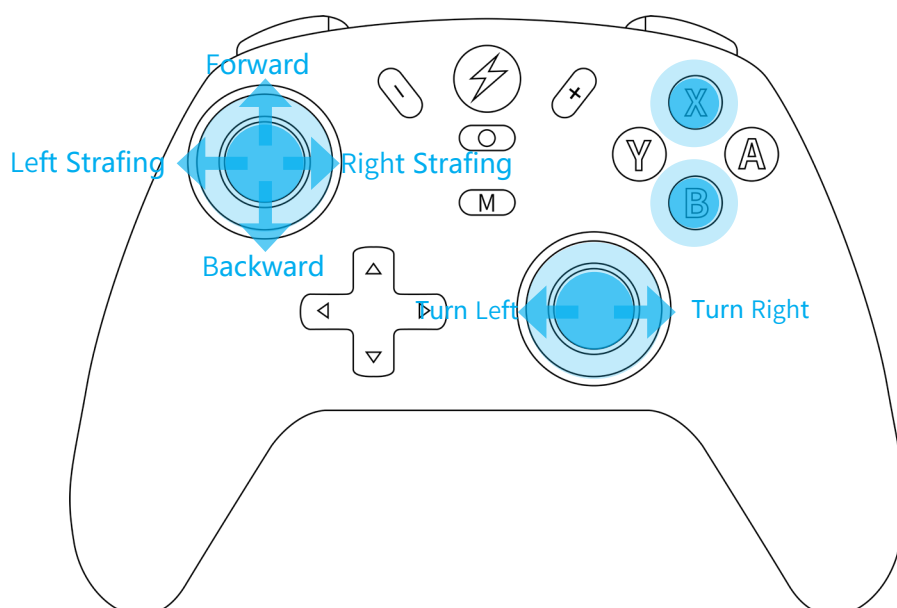
3、Walk

The robotic dog currently supports two modes: [Obstacle Negotiation Mode](#) and [High-Speed Mode](#). In Obstacle Negotiation Mode, it walks slowly and can climb slopes and stairs. The High-Speed Mode can reach a speed of 2 m/s but does not support slope climbing or stair climbing.

When the robotic dog is stationary, press the "B" button to switch to [Obstacle Negotiation Mode](#). When the robotic dog is stationary, press the "X" button to switch to [High-Speed Mode](#).

The left joystick controls the robotic dog's forward movement, backward movement, left strafing, and right strafing.

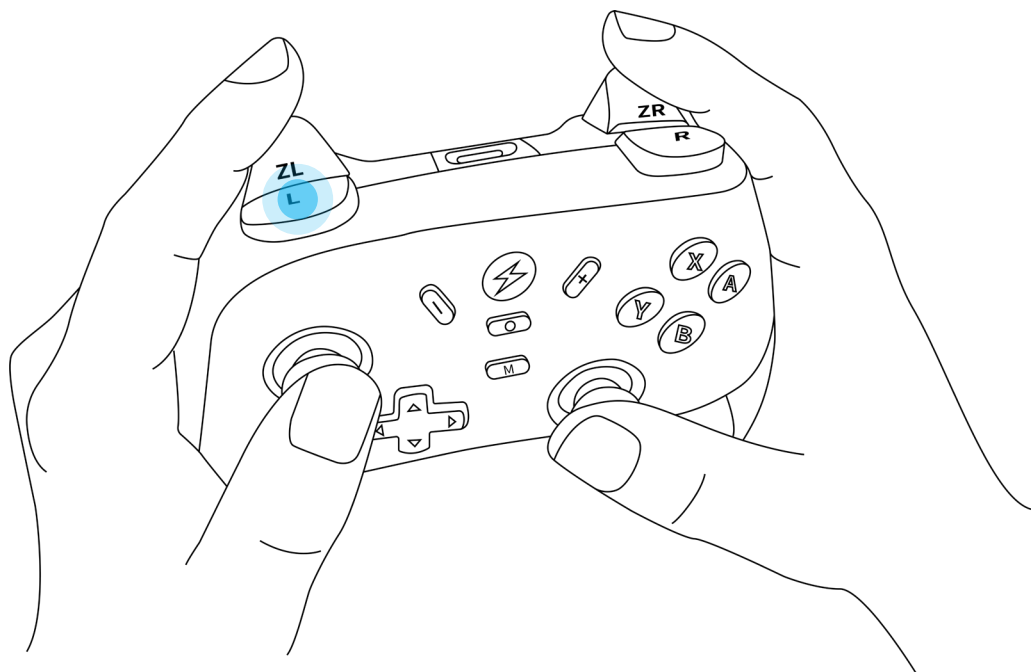
The right joystick controls the robotic dog's left turn and right turn.



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4、Emergency Stop

When the robotic dog's legs are found moving erratically, press the "L" button. The robotic dog will disable all motors and then lie down.



6.2.2 Visual Remote Controller

Subsequent Support

07 Product Specifications

Category	Specification	Description
Basic Information	Material Information	Aluminum Alloy + High-Strength Engineering Plastics
	Standing Dimensions (L × W × H)	Approximately 670mm × 360mm × 430mm
	Crawling Dimensions (L × W × H)	Approximately 750mm × 410mm × 190mm
	Total Weight (Including Battery)	15kg
	Operating Temperature	0°C ~40°C
	Charging Time	2h
	Battery Life	1-2h
	Maximum Range	6km
Performance Parameters	Basic Computing Power	8-Core High-Performance CPU
	Maximum Operating Power	3000W
	Maximum Speed	3m/s

07 Product Specifications

Performance Parameters	Maximum Load Capacity	≈ 8kg
	Continuous Stair-Climbing Height	15cm
	Maximum Climbing Angle	Standard environment: 30°, maximum limit up to 40°
Overall Joint Parameters	Actuator Type	High Power Density Motion Unit
	Maximum Joint Torque	48N m
	Aluminum Alloy Precision Joint Motor	12 ↑
	Joint Motion Space (Fuselage)	-30° -30°
	Joint Motion Space (Thigh)	-25° -204°
	Joint Motion Space (Calf)	-114° -17°
Sensor	Camera	1920*1080, 120°
	IMU	Standard Configuration
Function List	Standard Actions	Standing, Lying Down, Damping, Horizontal Rotation
	OTA Update	Support
	Function Expansion Interface	Ethernet Port, Power Port
	Battery	Standard Configuration
	Adapter	Standard Configuration
	Handheld Remote Controller	Standard Configuration
	Handheld Game Controller	Standard Configuration
Accessories	Luggage with Telescopic Handle	Standard Configuration

Version: V1.0

Notes and Explanations:

- (1) The charging duration data is measured at a standard ambient temperature of 25° C.
- (2) The endurance range data is measured under the conditions of a speed of 1 m/s and no load.
- (3) For the usage instructions of the Function Expansion Interface, refer to the Expansion Manual for details.
- (4) For detailed warranty terms, refer to the Product Warranty Manual.
- (5) The above parameters are laboratory test data. Actual performance may vary due to factors such as operating environment and usage method. Please refer to the actual performance.

08 Troubleshooting

Frequently Asked Questions (FAQs)	Handling Measures
What should I do if the remote controller fails to connect to the robot dog?	First, confirm that the robot dog is powered on, then check if the remote controller is turned on. If the connection to the robot dog still fails, restart both the robot dog and the remote controller and try connecting again.
What should I do if the controller does not respond after connecting to the robot dog?	First, confirm whether the controller is connected to the correct robot dog. If it is connected but you still cannot control the robot dog, wait for 10 seconds and try controlling it again. If there is still no response, restart the robot dog.
What should I do if the robot dog moves on its own without any operation?	Check if the joysticks and buttons of the remote controller have sprung back to their neutral positions.
Is it a normal phenomenon for the robot dog to stop moving on its own?	It may be that the robot dog's protection function has been triggered. Please wait for 10 minutes and try again. If you still cannot control the robot dog to continue moving, first check if the battery power is sufficient, then verify whether the controller signal is disconnected.

09 Transportation and Storage

9.1 Product Transportation

The dimensions of the packaging box are 78cm × 53cm × 35cm. During transportation, ensure that the shipping box remains right-side up.

9.2 Storage Environment

When storing the power adapter and the entire unit, place them in a dry and cool environment, avoiding direct sunlight, sources of ignition, and strong electromagnetic fields. The recommended storage temperature is 20°C to 25°C. Do not store the product in an environment with a temperature exceeding 60°C or below -10°C. For long-term storage, it is advisable to maintain a temperature of 20°C - 25°C, a relative humidity of 0 ~ 60% RH, and it is preferable to keep the total battery power below 50%.

9.3 Battery Precautions

Prolonged inactivity may affect battery performance; avoid deep discharge to maintain the battery condition.

The battery will automatically stop charging once fully charged, but it is recommended to disconnect the power supply to preserve the battery state.

Please regularly check the battery level and perform a full charge-discharge cycle every approximately 3 months to maintain battery activity. If the battery level drops below 20%, charge it to 40%-60% in a timely manner before storage to prevent battery damage.

9.4 Handle with Care

After powering on the product, avoid lifting or moving it.

Always turn off the product before moving.

When transporting, handle it with care to prevent component damage caused by mechanical impact.

10 Hazardous Substances Statement

Component Name	Hazardous Substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium ((Cr (VI))	Polybrominated Biphenyls(PBB)	Polybrominated Diphenyl Ethers (PBDE)
Circuit Board	×	○	○	○	○	○
Metal Plate	○	○	○	○	○	○
Housing	○	○	○	○	○	○
Battery	×	○	○	○	○	○
Other Accessories	○	○	○	○	○	○

Compiled per SJ/T 11364.

○ It indicates that the content of the hazardous substance in all homogeneous materials of the component complies with the limit requirements specified in GB/T 26572.

× It indicates that the content of the hazardous substance exceeds the limit requirements specified in GB/T 26572 in at least one homogeneous material of the component.

This product contains a rechargeable lithium battery pack, which is harmful to the environment when discarded. Before disposal, please remove the battery from the main unit in accordance with the following instructions and dispose of it properly.:

- Before removing the battery, please disconnect the power supply and drain the battery as much as possible.
- Note: Do not damage the battery case to avoid potential hazards.
- Please hand over the removed battery to a professional recycling organization for disposal.

11 Warranty Terms

11.1 Warranty Policy

11.1.1 Warranty Period

Regarding the Warranty Period

After purchasing the complete product, the warranty period shall be 6 months from the date of product activation.

11 Warranty Terms

Key Components			Start Time
Warranty for the Complete Product	6 months		It shall start to be calculated from the date of product activation (or 90 days after receipt if the product is not activated).
Warranty Period	Motherboard	6 months	
	Joint Motor Module	6 months	
	Remote Control	6 months	
	Charger	6 months	
	Battery	6 months/200 Cycles	
	Camera	6 months	

- The battery warranty follows a "whichever comes first" principle: the warranty period shall expire when either the specified warranty duration is reached or the maximum allowed charge-discharge cycles are exhausted, whichever occurs earlier.
- During the warranty period, any unauthorized modification, disassembly, shell opening, or similar actions without the company's prior approval will result in the immediate termination of the warranty.
- Depending on the specific circumstances, we will provide corresponding repairs or component replacements for the Cyber 1 product you purchased from our company.

11.1.2 Non-Warranty Terms

1. Beyond the warranty period;
2. Damage to the quadruped robot caused by the user's secondary development (including but not limited to: impact damage due to high-speed movement of the device, drop damage to the device, damage caused by changes to the device's limb parameters, etc., all resulting from secondary development);
3. Damage caused by force majeure or extreme environments (including but not limited to strong magnetic fields, high temperatures, low temperatures, and natural disasters);
4. Data Security Incident;
5. If the product is used for illegal purposes (including but not limited to war activities, terrorism), in violation of the laws and regulations of Mainland China, the laws and regulations of the country or region where it is used, or international law conventions, any problems arising therefrom shall not be covered by the warranty.
6. Improper use will result in the device losing its warranty (including but not limited to: impact damage caused by high-speed movement of the device, drop damage caused by the device's stunts, etc.).
7. Damage caused by improper use by the user (such as dropping, crushing, immersion in liquid, rough handling, etc.);
8. Malfunctions caused by the use of non-original accessories;
9. Damage caused by human factors that are not due to the product's own quality issues;
10. Damage to the product resulting from unauthorized modification, disassembly, shell opening, or similar actions;
11. Damage caused by incorrect installation, use, or operation not in accordance with the instructions in the manual;
12. Damage caused by self-repair or component replacement without official instructions;

11 Warranty Terms

13. Damage caused by circuit modifications not guided by the official manual, or improper use of battery packs or chargers;
14. Damage resulting from operation in harsh environments (including but not limited to strong magnetic fields, heavy interference, rainy weather, sand and dust, wet ground, complex terrain, etc.);
15. Damage caused by operation on terrain with sharp edges or severe undulations;
16. Damage to the robot caused by use on surfaces with extremely low friction (such as ice, glass);
17. Drop damage other than falling while operating the robot on relatively flat terrain;
18. Damage to the robot caused by collision with people or objects in the environment during operation in complex settings;
19. Damage resulting from operation under mutual interference with other wireless devices (e.g., WiFi signal interference, electromagnetic interference, etc.);
20. Damage caused by overloading beyond the safe load-bearing capacity;
21. Damage caused by any violent or non-violent actions exerted on the robot beyond its anti-interference limit;
22. Damage resulting from the unauthorized use of non-original compatible battery packs to power the robot;
23. Damage caused by compatibility or reliability issues when used concurrently with third-party products;
24. Damage caused by forced operation when components are aged or damaged;
25. Damage resulting from insufficient power supply due to low battery levels or the use of defective battery packs;
26. Failure to send the corresponding item within the specified time after confirming warranty service with our company;
27. Damage caused by operational errors, such as the robot colliding with hard objects, falling, or showing obvious signs of impact, collision, or scratches on its surface;
28. Obvious traces of dust, gravel, water, or metal powder intrusion inside the robot; obvious water stains on the robot's surface and interior, as well as corrosion marks on components and circuit boards, caused by use in humid environments;

11.2 Guarantee Service

11.2.1 Remote Technical Support

1. Prior to receiving support, the following information must be provided: device serial number, fault description, and on-site image materials;
2. After the technical support team receives the request, frontline engineers will conduct technical diagnosis and provide diagnostic results along with maintenance solutions.

11.2.2 Maintenance and Warranty Support

1. Mail-in Repair: For malfunctioning equipment, you may apply to send it back to our designated repair center. If the issue is confirmed to be a product quality defect, relevant labor costs and spare parts fees will be waived. If the damage is not covered by the warranty, corresponding fees (including labor, spare parts, and logistics) will be charged;
2. You shall bear the shipping cost in advance when sending the product to our company;
3. If the product fails to meet the conditions for free repair after inspection, you may choose to proceed with paid repair or have the original product returned. The shipping fee for returning the original product will be borne by you;
4. If the product issue is beyond the warranty scope, we will charge corresponding fees based on the specific problem, including inspection fees, spare parts replacement fees, testing fees, labor fees, and transportation costs;
5. Product repair may result in data loss. Please back up your data in advance;
6. If you have any further questions about the warranty service for our Cyber 1 product, please contact us;

11.3 Limitation of Liability

To avoid illegal acts, potential harm, and losses, it is imperative to comply with the following provisions: Please carefully read this document and the User Operation Manual before using this product to understand your legal rights, obligations, and safety instructions; otherwise, property damage, safety accidents, and personal safety hazards may occur. Once you use this product, you are deemed to have understood, acknowledged, and accepted all the terms and content of this document. Please strictly operate the product in accordance with the usage specifications; the user agrees to be responsible for their own actions and all consequences arising therefrom.

11.3.1 Disclaimer

1. Our company shall not be liable for any form of third-party claims arising from the use of the product;
2. Our company shall not be responsible for data storage, loss, or leakage (customers must back up data by themselves);
3. This product is not a toy and is not suitable for use by persons under the age of 18. Do not allow children to come into contact with this product, and exercise extreme caution when operating it in scenarios where children are present;
4. This product is not suitable for use in scenarios with infants, children, pregnant women, the elderly, disabled persons, crowded areas, or similar environments (with a spacing of less than 1 meter). Our company shall not be liable for any losses or consequences arising from personal injury or property damage caused by improper operation in such scenarios;
5. Unauthorized disassembly, modification, or non-official maintenance of this product is strictly prohibited. Our company shall not be responsible for any malfunctions or damages resulting from the aforementioned acts;
6. Use of this product in irregular environments (such as high temperature, extreme cold, chemical corrosion, fire, or submersion in water) is strictly prohibited. Our company shall not be liable for any malfunctions or damages arising therefrom;
7. Under normal use conditions, failures and risks caused by normal natural wear and tear of components and battery aging are deemed normal product usage risks, and our company shall not be liable for the corresponding consequences;
8. You agree to strictly comply with applicable export control laws and regulations as well as relevant legal sanctions;
9. You agree not to use the product's functions or services for the following purposes, including but not limited to supporting terrorism, nuclear facilities, biological and chemical weapons, or any military purposes that endanger national security and interests, nor for designing, developing, producing, or using weapons of mass destruction and their delivery vehicles;
10. You warrant that you are not subject to trade restrictions, sanctions, or other legal or regulatory restrictions imposed by any country, international organization, or region; otherwise, you may not be able to normally register or use the functions and services of our company's series of products;
11. We fully recognize our responsibilities and obligations in operating globally and are committed to ensuring that our products and services comply with the legal and regulatory requirements of countries and regions worldwide. We remind all users to abide by the relevant laws and regulations of each region when using the products and services. We encourage users to understand and respect their rights and obligations under their respective legal frameworks. To adapt to the legal requirements of different regions, we may make appropriate adjustments to product functions, service content, or privacy policies to ensure compliance with local regulations. As a user, you are responsible for understanding and complying with the specific laws of each region, including but not limited to the uploading, sharing, downloading, and use of content;
12. The user agrees to use this product solely for legitimate purposes and accepts all terms and content of this document as well as any relevant policies or guidelines that our company may formulate. Our company shall not be liable for any losses or consequences arising from the user's failure to use the product in accordance with this guide and the User Operation Manual;
13. Subject to compliance with applicable laws and regulations, our company reserves the final right of interpretation of this document. Our company has the right to update, revise, or terminate these terms without prior notice.

12 Connecting to Wi-Fi and OTA Update

12.1 Connecting to Wi-Fi

The main function of connecting the quadruped robot to Wi-Fi is to perform OTA updates on it. The OTA update function will be introduced in Section 12.2.

Steps for Connecting to Wi-Fi

1. Connect your mobile phone's Wi-Fi to the quadruped robot's hotspot. The hotspot name is "Cyber1-Machine Number" and the password is 12345678.

2. Open a browser on your mobile phone and scan the QR code below.

Alternatively, enter the URL directly: 10.42.0.1:5000



3. After scanning the QR code, the browser will display the following interface. Enter the name and password of a 2.4GHz Wi-Fi network with internet access, then click Submit. Once the Wi-Fi configuration is successful, the quadruped robot will broadcast: "Wi-Fi configuration successful."

CYBER STARS

星 玑 智 能

WIFI名称:

WIFI密码:

提交

清空

杭州星玑智能科技有限公司深耕具身智能领域，依托团队深厚的技术与产品能力，为客户提供从产品设计、研发到交付的全产业链服务。公司聚焦智能四足机器人应用拓展，重点布局个人消费级市场，及电力巡检、农业、应急救援、安防巡检、家庭服务等领域。

12 Connecting to Wi-Fi and OTA Update

Notes

- (1) In Item 2 above, the colon in the URL "10.42.0.1:5000" shall be an English half-width colon.
- (2) In Item 3 above, if you need to configure your mobile phone's hotspot as the Wi-Fi for the quadruped robot (note: mobile phone hotspots have poorer compatibility; using a router's Wi-Fi is recommended), please set the mobile phone's hotspot band to 5GHz and the security type to "WPA2-Personal", as shown in the figure below.



12.2 OTA Update

1. After the quadruped robot connects to a Wi-Fi network with internet access, it will automatically download the new firmware when the server pushes a new version.
2. Upon the next startup, the quadruped robot will broadcast a voice prompt asking the user whether to upgrade. The voice prompt is: "New version detected. Press the **A** key to confirm the upgrade, or press the **Y** key to cancel."
3. After the upgrade is completed, the quadruped robot will restart automatically.

FCC Statement

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.

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

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.

Important Note:

For Robot dog Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.