

AI outdoor assistive robot Climber No.1

User Manual

Guangzhou PLANCK Intelligent Technology Co., Ltd

2025

Non-medical

Preface

Thank you for choosing the "Climber 1" wearable smart hip-assistance robot from Planck Intelligence Technology. To ensure correct and safe operation, please read this user manual carefully before use.

This manual contains the core product information you need to know and reflects the latest version prior to printing. Planck Technology is committed to continuous research, development, and product optimization to enhance the user experience, quality, and safety. As such, the device you receive may differ from the descriptions herein. The company reserves the right to make improvements to the product without prior notice. Please note that the data, illustrations, and instructions in this manual do not constitute legal commitments, and no claims may be brought against the company based on this content.

Your device supports firmware upgrades. Planck Technology will release firmware updates periodically to continuously optimize performance and experience. After each upgrade, which requires your confirmation, functionalities, operational prompts, and safety warnings may be adjusted. Please always refer to the actual product interface and features post-upgrade.

To ensure your safety and optimal experience, please pay special attention to the following:

1. Please review Chapter 7, "Important Safety Instructions," with utmost care.
2. Wearing Protocol: Align the power units on both sides of the device with the greater trochanter of your hip joints. Ensure a snug fit to avoid any movement during assistance.
3. Assistance Level Adjustment: Quickly adjust the assistance level using the "+" and "-" keys. The optimal level is one where walking feels comfortable and natural without abnormal gait. Suggested guidelines:

- **For a user weighing 60kg walking on level ground, levels 1-2 are recommended. Users with higher or lower body weights may increase or decrease the level accordingly.**
- **In scenarios such as climbing stairs or ascending slopes, appropriately increase the assistance level by 1-2 steps.**

Please keep this manual for future reference.

Date of Issue: July 25, 2025

(Note: This manual may be updated due to software optimizations, product design adjustments, or technical specification changes without further notice. Please always refer to the latest product features, configuration, and the physical unit for use.)

Disclaimer

Guangzhou Planck Intelligence Co., Ltd. ("Planck") reserves the sole and final right to interpret this manual.

Planck shall be held responsible for the product's safety, reliability, and performance only under the condition that all of the following requirements are fully met:

- (1) Assembly, operation, expansion, reconfiguration, modification, and repair are performed exclusively by professionals authorized or approved by Planck;
- (2) The associated electrical installations comply with applicable national standards and the specifications outlined in this manual;
- (3) The product is operated strictly in accordance with the procedures detailed in this manual.
- (4) This user manual also serves as a technical manual.

Please read this manual thoroughly before using the device. Planck shall not be held liable for any form of loss or injury resulting from the operation of the equipment that deviates from the instructions contained herein.

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1. Overview

1.1、Applicable Product Models

This manual primarily applies to the "Climber 1" model of the AI-Powered Outdoor Assistance Robot.

1.2 Appearance When Worn



Image: Climber 1 Worn

1.3 Components and Structure



Image: Climber 1 Structural Diagram with Component Callouts

1.4 Working Principle

The "Climber 1" is equipped with an integrated processor and multiple sensors that continuously monitor the user's motion status. By fusing the sensor data, the processor can rapidly analyze the wearer's movement intent and drive the bilateral power modules to provide assistance. During walking, the hip joints generate sequential hip flexion torque and hip extension torque. These torques work synergistically to ensure stable gait: during the gait cycle, flexion torque aids thigh lifting in the swing phase, while extension torque, triggered at heel strike during the stance phase, facilitates hip extension and assists the push-off action, providing propulsive force for forward movement. Based on a bionic gait control strategy, the "Climber 1" utilizes its dual power units to cooperatively output sequences of flexion and extension torques that are highly synchronized with the user's gait. This enables power-coupled output throughout the gait cycle, which not only enhances lower-limb movement efficiency but also significantly reduces physiological energy expenditure during walking.

2. Usage Scenarios

The "Climber 1" exoskeleton system employs bionic dynamic design and multi-modal gait recognition technology, specifically developed for low-speed walking scenarios. Its dynamic assistance algorithm facilitates human-robot synergy in non-competitive mobility situations such as mountain climbing, hiking, and urban walking. The intelligent sensing system accurately matches the user's movement intent, providing well-timed and appropriate mechanical compensation during the gait cycle. This effectively reduces metabolic consumption in the lower-limb muscles and improves walking economy, helping you walk with greater ease, climb with less effort, and achieve longer distances and greater heights.



Important Notice

The "Climber 1" assistance robot does **not** provide walking balance support and **cannot** prevent the user from falling. When the assistance function is activated, the thigh-contacting leg rods will apply forces to assist with leg lifting or pushing based on the detected contraction trend of your thigh muscles. Use caution to avoid injury from falls.

It is recommended to complete all wearing steps and confirm that the device status indicator is normal **before** activating the assistance mode. This prevents the risk of accidental impact to people nearby caused by unintended movement of the robotic arms.

2.1 Assistance for Outdoor Hiking/Walking

During hiking, the "Climber 1" can assist in lifting your thighs, effectively increasing your stride length and enabling you to cover greater distances. It promotes easier walking and more balanced exercise. Furthermore, while walking on level ground, the knee joints typically bear a load equivalent to approximately 1-2 times the body weight. The device assists in the push-off phase when your foot steps down, effectively reducing pressure on the knee joints during prolonged walking.



Hiking rendering

2.2 Assistance for Mountain Climbing/Stair Ascending

When climbing stairs, the human knee joint bears a pressure 3 to 4 times the body weight. During stair ascent, the "Climber No.1" assists in propelling the body upward, thereby reducing the stress on the knee joints. The "Climber No.1" helps conserve your energy during mountain climbing/stair climbing, allowing you to ascend with ease, conquer higher peaks, and traverse longer distances. By reducing the physical load, it enhances immersion in outdoor activities and provides a richer natural experience and greater psychological satisfaction.



Mountaineering Effect Illustration

3.Adjustment and Wearing

3.1 First-Time Use

For initial use of the Climber No.1 Power-Assist Robot, adjust the width of the waist telescopic rod to match your waist size.

3. 1. 1Pre-Wearing Preparation

①As shown in the figure below, flip the lever upward to release it (unlocked position).;

②Pull the waist rod to extend it to the desired width.



Lever Operation Diagram

3. 1. 2 Waist Strap Size Adjustment



Waist Telescopic Rod Adjustment Diagram

① Donning the Device: As shown in Figure A, reverse-don the Climber No.1, positioning it on the front of your body.

② Positioning and Calibration: Adjust the device's position so that its central rotating axis aligns with the wearer's greater trochanter (the prominent bony protrusion on the lateral side of the hip).

③ Adjusting the Waist Circumference: As shown in Figure B, push the adjustment levers on both sides of the waist inward simultaneously.

(Note: Ensure the scales on both sides are consistent to maintain balanced force distribution.)

④ Securing and Fitting: Adjust the device until the power modules fit snugly against both sides of the hips. The optimal state is achieved when there is no significant shaking and the fit is comfortable.

⑤ Locking the Device: Press the adjustment lever downward firmly until it is securely locked.

 Warning:

The lever must be pressed down firmly before powering on the device. Failure to do so may result in operational anomalies, cause abnormal wear, and reduce the product's service life.



Diagram Showing Firmly Pressing the Lever Downward

3.2 Putting On the Device

3.2.1 Donning the Device



Donning the Device Diagram

- ① Position the Climber No.1 on your back and wrap it around your waist.
- ② Manually lift the device up and down to ensure it is at the correct height.
- ③ **Correct Height Criterion:** The rotating center of the Climber No.1's power module must align with the wearer's greater trochanter.

3.2.2 Fastening the Waist Belt

- ① As shown in the figure below, fasten the waist belt buckle.

- ② Tighten the belt until it is snug but not constrictive.



Fasten and Tighten the Waist Buckle

3. 2. 3 Crossing and Securing the Leg Straps

- ① As shown in the figure below, position the leg cuff on the front of the thigh, holding the two ear plates on either side of the leg strap.
- ② Cross the ear plates behind the thigh, pull them tight to secure the hook-and-loop fasteners, and finally, adjust the leg cuff to a comfortable angle.

△ **Warning:** The leg straps must be securely fastened. Loose straps may cause the leg rods to spring open unexpectedly, which could result in injury.

△ The leg strap length is adjustable; for detailed instructions, refer to Section 5.3.



Secure the leg strap around the thigh by fastening the hook-and-loop material.

3.3 Taking Off the Device

⚠ Warning: Always ensure the device is powered off before removal.

Failure to do so may cause the leg rods to spring open abruptly, posing a risk of injury.

3.3.1 Doffing the Device

① As shown in the figure below, simultaneously grasp the ear plates on both sides of the leg strap and pull them outward firmly to detach the leg straps.

② Unbuckle the waist belt and remove the device.



Releasing the Waist Buckle

 Warning:

When removing the device, always maintain a secure grip on its main body to prevent accidental drops that could result in damage or injury. After removal, store the device in its dedicated carrying bag or on a storage rack to ensure safe keeping and ready availability for next use. Periodically inspect all components of the device. If any signs of wear or damage are observed, please contact our after-sales service department promptly for maintenance or replacement to ensure the device's long-term reliable performance.

4. Getting Started

4.1 Button Overview

4.1.1 Emergency Switch

The emergency switch is located at the lower center of the main unit on the back of Climber No.1, as shown in the figure below. When the emergency switch is in the released position (), the Climber No.1 is powered off. Press the switch to the engaged position to activate the system. () Then, press the assist button () and the function button () in sequence to enable power output.



Press the emergency button

4.1.2 Control Buttons

The power modules on both the left and right sides of the Climber No.1 are each equipped with two buttons, as shown in the figure below.

Right-Side Power Module: Assist Button ()、Function Button () ;

Left-Side Power Module: Power Level Adjustment Button (also referred to as the Gear Button), comprising : Increase+、Decrease-



Control button

4.2 Power On/Off

4.2.1 Powering On

1) When the emergency switch is in the off position ()

As described in Section 4.1.1, after directly engaging the emergency switch to activate the device, the Assist Button indicator will light blue

(flashing). Then press the Assist Button 【  】 to initialize the device. Wait until

the Assist Button 【  】 indicator turns green and flashes, while the Function

Button indicator lights up in red. Finally, press the Assist Button again 【  】 。

2) When the emergency switch is in the closed position ()

①If the Assist Button  indicator is blue, press the button once. The device will enter the initialization state. If the device voice prompt is enabled, it will announce: "Initializing." Please wait approximately 2 seconds until the voice prompt confirms "Initialization complete," the Assist Button  indicator turns green and flashes, and the Function Button lights up. Then proceed to the next step.

②Enable Assist Mode: Press the Assist Button once more  . The voice prompt will announce "Assist mode activated," and the Assist Button indicator will stop flashing.



Warning:When pressing the Assist button twice consecutively, there must be an interval of at least 2 seconds between presses.

③Stop Assistance: Press the Function button  . A voice prompt will announce "Assistance paused," and the Assist button indicator will enter a flashing state.

4. 2. 2 Powering Off

To power off the device directly, disengage the emergency switch on the back main unit. All button indicators will turn off.



Shut down using the emergency button

Warning:

1. Do not walk while performing power-on or power-off operations.
 2. Always confirm the device is powered off before unbuckling the leg straps. Failure to do so may cause the leg rods to spring open, which poses a risk of injury.
-

4.3 Function Adjustment

4.3.1 Assistance Level Adjustment



Gear Adjustment Button Diagram

- ① As shown in the figure above, press the "-" Key (Decrease) to reduce the power assistance level. The system will provide a voice prompt announcing the new level.
- ② Press the "+" Key (Increase) to raise the power assistance level. The system will provide a voice prompt announcing the new level.

Warning: Always be in a stationary standing position when adjusting the assistance level. Do not walk during the adjustment process.

4. 3. 2 Assistance Activation/Pause



Button diagram for assist/pause functions

- ① As shown in the figure above, when the Climber No.1 is in the Active Assistance state, both the Assist Button  and Function Button  remain steadily lit. Press the Assist Button  once to stop the assistance. The Assist Button  indicator will then change to a flashing state.
- ② When the device is in the Paused Assistance state indicated by the Assist Button flashing , press the Assist Button  again to resume power assistance.

4.4 Battery Level Indicator

As shown in the figure below, press the button on the exterior of the battery case to check the power level. When all 5 indicators of the power button are steadily lit, it indicates a battery level exceeding 80%. The fewer indicators are lit, the lower the remaining battery level. If only a single indicator is lit and flashing, it signifies insufficient power, and charging is recommended.



Battery compartment button and power indicator light

Warning:

1. During normal operation of the Climber No.1, a slight heating of the power modules on both sides may occur. This is a normal phenomenon and is no cause for concern.
2. When performing operations such as activating assistance or adjusting the assistance level during use, do not walk. Remaining stationary prevents potential loss of balance and falls due to changes in assistance force.
3. The rotating components of the power modules contain narrow gaps. During use, ensure fingers are not intentionally inserted into these areas to prevent pinching injuries.

5、Maintenance

5.1 Charging

The Climber No.1 is powered by a battery. The charging port is located in the center of the back unit, as shown below:



Battery compartment charging port



Charger: Charging dock, charging cable

1、Insert the charging cable (also referred to as the adapter) into the charging dock to assemble the charger. Then, connect it to a standard 220V power source.



Assemble into a charger and connect to 220V

2、Locate the charging port on the back main unit of the Climber No.1. Insert the corresponding plug of the charging dock into the port, as illustrated in the figure below.



Insert the battery compartment into the charging dock

**During charging, the charger indicator shows a steady red light.
Upon full charge completion, the indicator turns green.**

Warning:

1. The use of chargers not officially designated for this device may damage the battery and poses a potential fire hazard.

5.2 Battery Replacement

1. Battery Removal: Press the battery latch on the main unit, then pull the battery upward to remove it, as shown in the figure below.



2. Battery Installation: Insert the battery downward along the guides on both sides toward the main unit until the battery connector is fully seated into the charging port of the main unit.

⚠ Warning: When replacing the battery, take care to prevent it from falling, as this could cause injury.

5.3 Replacement of Leg Strap Mounting Lugs

The ear plates of the leg strap are consumable items and require periodic replacement:

- ① Remove the old ear plates from the leg cuff.
- ② Install the new leg strap assembly.

5.4 Storage

- ① If the device will not be used for an extended period, remove the battery. Store it in a dry, well-ventilated environment with an ambient temperature of -20°C to 30°C and relative humidity not exceeding 75%.
- ② During storage, avoid contact with corrosive substances and keep away from open flames and heat sources.
- ③ Recharge the battery every two months during storage.

5.5 Cleaning

5.5.1 Cleaning Fabric Components (Shoulder Strap/Waist Belt Lining/Leg Straps)

Method 1: Deep Cleaning

1、Remove the shoulder straps, waist belt liners, and leg straps from the device.

2、Immerse the removed fabric components in clean water for washing. A small amount of mild detergent may be added to aid cleaning.

Note: When cleaning leg straps, it is recommended to process them separately or take protective measures (e.g., wrapping them in a cloth) to prevent the hook-and-loop fasteners from snagging other fabrics.

3、After cleaning, place the components in a well-ventilated area to air dry. Confirm they are completely dry before reinstalling them to their corresponding positions on the device.

Method 2: Routine Cleaning

For quick cleaning only, gently wipe the surfaces of the shoulder straps, waist belt liners, and leg straps with a damp cloth that is not dripping wet to remove dust and dirt. Then, use alcohol wipes to disinfect the same areas, ensuring proper hygiene.

5. 5. 2 Cleaning External Surfaces (Main Unit/Structural Components/Power Modules, etc.)

Wipe the exposed components of the device - including the main unit, waist rod, waist belt, power assembly, and leg rods - using a well-wrung damp cloth to remove surface stains. After wiping, disinfect the same areas using alcohol wipes to maintain device cleanliness.

Warning:

During cleaning, never rinse the device directly with running water or immerse it in water. Such practices may cause moisture damage to internal electronic components, compromising normal operation.

6、Technical Specifications

6.1 Basic Parameters

Product Name	AI-Powered Outdoor Assistive Robot
Model	Climber No.1
Weight (kg)	2.95KG
Overall Dimensions (mm)	445*260*130 (Folded Dimensions)
Battery Capacity (mWh)	5000mWh
Operating Time (h)	4
Rated Voltage (V)	16.8
Rated Current (A)	10A
Maximum Torque	19N/m
Bluetooth	BLE:2.4GHz EIRP: -40~4dBm

6.2 Intended User Profile

Age: 18-60

Height: 158-180cm

Recommendations for choosing leg straps.

	80 jin and below	80-140 jin	above 140 jin
Strap size	S	M	L

6.3 Operating Environment

- ① Operating environment temperature : $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$
- ② Charging environment: $0^{\circ}\text{C}\sim 55^{\circ}\text{C}$
- ③ Dustproof and water-resistant.

6.4 Names and Contents of Hazardous Substances

Component Name	Harmful substances or elements					
	汞 (Hg)	镉 (Cd)	铅 (Pb)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
Metal Structural Components	◦	◦	◦	◦	◦	◦
Plastic Structural Components	◦	◦	◦	◦	◦	◦
Battery	◦	◦	×	◦	◦	◦
Charger	◦	◦	×	◦	◦	◦
Electronic Components	◦	◦	×	◦	◦	◦
Printed Circuit Board	◦	◦	×	◦	◦	◦
Packaging	◦	◦	◦	◦	◦	◦

This table is prepared in accordance with the provisions of Standard SJ/T 11364.

◦ : Indicates that the content of the hazardous substance in all homogeneous materials of this component is below the limit defined in

Standard GB/T 26572.

× : Indicates that the content of the hazardous substance exceeds the limit defined in Standard GB/T 26572 in at least one homogeneous material of this component, and no mature substitutes are currently available in the industry. The product complies with the environmental protection requirements of the EU RoHS Directive.

This device contains components and materials (e.g., PCBs, electronic components, etc.) that may become hazardous to the environment at the end of its service life. According to applicable international, national, and local regulations, these substances are classified as hazardous waste.

The manufacturer strongly recommends contacting the manufacturer's authorized agents or an authorized waste management company for the proper handling and disposal of this device at the end of its service life.

7. Critical Safety Warnings



Product Description

This product ("Climber No. 1") is a wearable hip-assist robot and is classified as a non-medical device. It is not designed or intended to:

- Support the user's body weight.
- Assist independent walking or maintain walking balance.
- Prevent the user from falling.
- Treat diseases, restore physical function, alleviate pain, or perform any other medical function.

Important Notice: Individuals requiring mobility assistance or rehabilitation support must consult a physician and use certified medical devices registered for that purpose.

To ensure safety, the following user groups must operate this product under the continuous supervision of a guardian:

- Individuals with weakened balance capabilities.
- Elderly users over the age of 60.
- Adolescent users under the age of 18.

For your safety, the Climber No.1 incorporates multiple safety protection mechanisms, allowing for confident use in normal environments. To prevent accidents, please adhere to the following requirements:

 Usage Precautions

1、The product is prohibited for use in the following conditions:

- Humid or submerged areas.
- Near open flames or in high-temperature locations.
- Environments with strong magnetic or electric fields.
- Extreme temperature conditions (excessively high or low).

2、Emergency Response: In case of an unexpected situation during use (e.g., device malfunction, physical discomfort), immediately press the emergency switch located on the back to power-off the device and deactivate the assist function.

3、Malfunction Handling: If noticeable stuttering or jolting occurs during device operation (or a continuous resistance force lasting longer than 3 seconds is perceived), discontinue use of the device immediately.

4、Charging Safety: Never handle the power plug (including the connection between the charger and the device) with wet hands during charging to avoid the risk of electric shock.

5、Post-Use Adaptation: After completing use and removing the device, allow a brief period for your body to readjust to walking without assistance to prevent instability due to the change in support.

(Note: While this product is designed with multiple safety protection mechanisms, safe operation requires strict adherence to the above requirements.)

8. Troubleshooting (FAQ)

Problem Phenomenon	Possible Causes	Troubleshooting Method
Device cannot power on	1. Battery not installed 2. Battery depleted 3. Emergency switch not engaged	Refer to Section 5.2 to install the battery and charge it. Refer to Section 4.2.1 to engage the emergency switch.
Wear detection failure	Incorrect donning or startup procedure	Refer to Section 3.2 for correct donning procedure.
No assistance, Assist Button flashing	Assist button not pressed firmly, or insufficient battery level	1. Press the Assist Button [] to activate assistance. 2. Check battery level and charge.
Device stops due to detachment	Loose or detached waist or leg straps	Refer to Section 3.2 for correct donning procedure and re-don the device.
Device stops during high-speed walking	Voice prompt: "Speed limit exceeded. Assistance stopped."	Reduce walking speed. Avoid race-walking and do not run. Then press the Assist Button again to restart assistance.
Device stops	Voice prompt: "Fall	Press the Assist Button to

due to fall detection	detected. Assistance paused for safety."	resume assistance only after resuming a stable, upright walking posture.
Device stops due to high temperature	Voice prompt indicates overheating	Pause device use to allow it to cool down, and ensure ambient temperature does not exceed 40°C.
Device malfunction	Voice prompt contains the word "Error" or "Abnormal"	Please contact After-sales Service.
Other faults		Please contact After-sales Service.



Warning: If the problem persists, do not attempt to disassemble the device yourself. You must contact After-sales Service.

9. Service and Support

9.1 Warranty Policy

1. Warranty Basis and Duration

This product strictly complies with the relevant provisions of the "Consumer Rights and Interests Protection Law of the People's Republic of China" and the "Product Quality Law of the People's Republic of China," providing a "Three Guarantees" service (repair, replacement, or refund). The product is covered by a 1-year warranty starting from the date of purchase. Failures resulting from normal use during the warranty period are eligible for free repair services (users must provide a valid proof of purchase and the warranty card).

2. Non-Warranty Scope (Conditions Not Covered Under Warranty)

Failures or damages caused by the following circumstances are not covered under the warranty service:

- 1) Textile Accessories: Consumable textiles such as the waist belt, shoulder straps, and leg straps.
- 2) Appearance and Structural Components: The main unit casing, power module casing, and other plastic/rubber parts.
- 3) Packaging and Accessories: Device packaging (including the equipment case, outer box, etc.) and complimentary accessories provided with the device.
- 4) User-Induced Issues: Failures resulting from misuse, including but not limited to drops, disassembly, intentional damage, charging with abnormal voltage, or use of non-original chargers.
- 5) Force Majeure: Failures caused by natural disasters such as fire, pollution, gas leaks, earthquakes, floods, lightning, etc.

3. Warranty Termination

Unauthorized decomposition, disassembly, or repair of the device (regardless of whether it causes failure or damage) will immediately void the warranty and all repair services. The company shall no longer bear any related responsibility under such circumstances.

4. Chargeable Services

The following situations require users to pay for the services rendered:

- 1) inability to provide valid proof of purchase (altered, lost, or unpreserved warranty card).
- 2) malfunctions occurring due to improper use (e.g., not following the user manual) or after the warranty period has expired.
- 3) Replacement of consumables worn out through normal use (e.g., textile accessories).
- 4) Repair or replacement needs arising from non-quality-related issues.
- 5) Any other issues requiring repair or replacement not covered above.

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.

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the

user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in

portable exposure condition without restriction.

9.2 Contact Information:

Planck Intelligent Technology official website and WeChat public account:

Official website: <https://planck.com.cn/PLKReco/index.aspx>

WeChat Official website



Address: 广州市黄埔区知识城腾飞园B 座F7。

Customer service phone : 19195557178