

# User Manual for BabyAlpha Series

## 1. Scope of application



Type	Name	Model
Parent device	BabyAlpha	WL4BAGL/G1
Accessory	Charging kit	WL4BACHGGL/G1
	Fingertip controller	WL4BACTRLGL/G1
	Automatic charging station	WL4BADOCKGL/G1
	Dog House	WL4BADIORAMAGL/G1
	AutoBox	WL4BAAUTOBOXGL/G1

## 2. Terms and definitions

Term	Definition
BabyAlpha	BabyAlpha is a series of AI-powered quadruped robotic dogs. They share the same name "Aiks". In this manual, the term "Aiks" refers to any model of the BabyAlpha series.
Always Alive	Always Alive is a characteristic of Aiks, a life-like robot that has autonomous behaviors and can express emotions. For example, when its battery level is low, Aiks autonomously searches for the charging station or Dog house to charge its battery without human intervention. This way, Aiks can be a round-the-clock companion and guard of your family.

AgentOS	AgentOS is an embodied AI engine developed in-house by Nanjing WEILAN Intelligent Technology Co., Ltd. Thanks to AgentOS, Aiks can have the complete intelligence ability of personality, learning ability, and emotional memory.. Aiks can provide you with longtime companionship like a real pet.
Touch To Go	Touch To Go is a mixed reality control technology, which allows you to see what Aiks is watching on WEILAN App ("the App"). You only need to tap the ground in Aiks's field of view if you want Aiks to automatically move along the target points you set. Touch To Go provides a fun experience and makes remote control easier.
AutoBox	Aiks can autonomously navigate to and from its AutoBox by leveraging the intelligent recognition technology and be well-protected during the navigation, bringing you an unprecedented experience.
Large language model	Large language models (LLMs) are AI systems that can comprehend and generate human language. In an intelligent speech interaction scenario, an LLM can comprehend your speech input, generate textual response accordingly, and finally convert the text into spoken audio.
Pet behavior	Aiks, as a robotic pet, has autonomous and habitual behavior. When you are not interacting with Aiks, it wanders around, invites you to play, or rests at the charging station or Dog House.

### 3. Overview

#### Aiks profile

Item	Description
Life form	AI-powered quadruped robotic dog
Product name	BabyAlpha
Breed	Time traveler
Name	Aiks
Birthplace	Nanjing, China

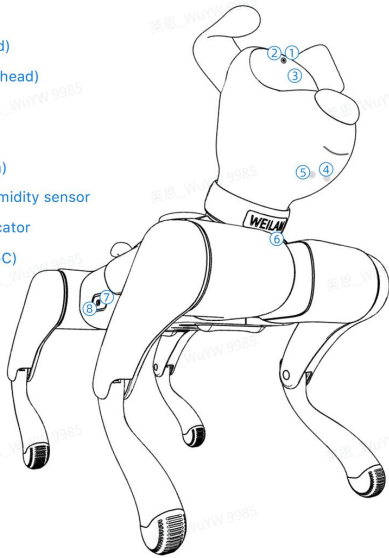
#### Features

<b>A Cute Companion</b>	<b>Intelligent Speech Interaction</b>
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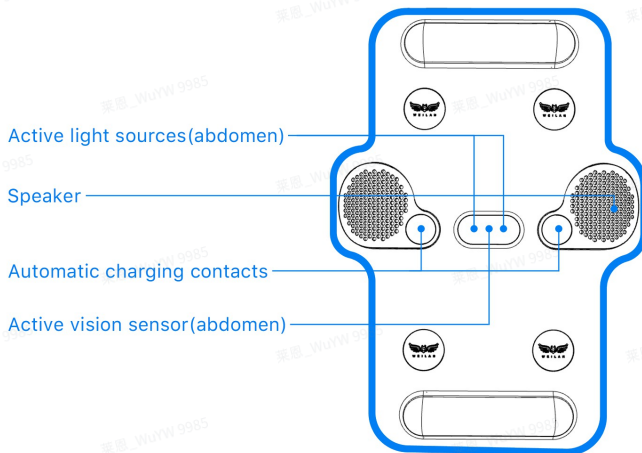
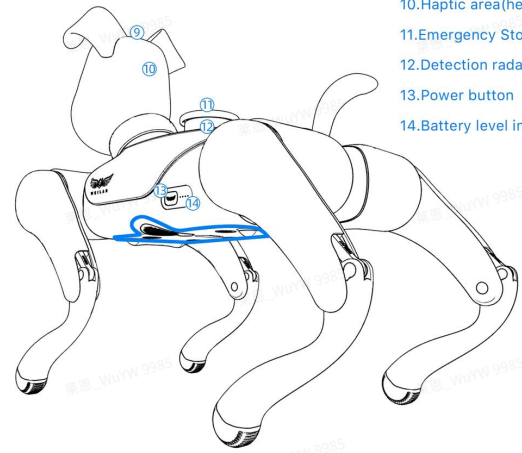
<ul style="list-style-type: none"> <li>• Aiks is a life form with bionic features such as posture, voice, emotions, and facial expressions.</li> <li>• Capable of autonomous behaviors, it charges its battery and navigates on its own to be always alive.</li> <li>• Effect: The pet plays an attractive and vivid role in unprecedented interaction scenes, immersing you in the unique experience where an animated character comes into the real world. You can feel the amazement of the AI era.</li> </ul>	<ul style="list-style-type: none"> <li>• Our powerful LLM provides a variety of speech interaction scenes, including conversation and command execution.</li> <li>• Our multi-modal interaction technology allows your pet to express emotions in conversation.</li> <li>• Effect: Not only can Aiks play with kids, it also answers various questions, providing kids access to the AI technology at a very young age.</li> </ul>
<p><b>Family Bonding</b></p> <ul style="list-style-type: none"> <li>• Aiks can be connected to Wi-Fi and supports long-distance video calls.</li> <li>• Its head is equipped with an HD camera and an HD LCD screen.</li> <li>• Effect: Aiks provides a fun way to engage you in video calls to contact family members at any time, bringing the whole family closer.</li> </ul>	<p><b>Home Security</b></p> <ul style="list-style-type: none"> <li>• Aiks is capable of detecting intrusions and unusual motions through multiple integrated sensors.</li> <li>• Effect: This feature is especially useful when vulnerable people such as elderly people and minors are alone at home. Aiks can be their security guard.</li> </ul>
<p><b>Visual Programming</b></p> <ul style="list-style-type: none"> <li>• Aiks' motions can be programmed. This feature is updated constantly.</li> <li>• You can program Aiks using the App to do more motions.</li> <li>• Effect: By interacting with Aiks, you can have fun programming and hone your logical thinking skills. These skills help you stand at the forefront of technology and empower you to embrace the fast-changing era of AI.</li> </ul>	<p><b>Remote Control Modes</b></p> <ul style="list-style-type: none"> <li>• Aiks supports the following remote control modes: in-app Touch To Go, gamepat controller , and Bluetooth fingertip controller.</li> <li>• Effect: You can enjoy moments with Aiks in multiple control modes.</li> </ul>

## Components

- 1.Distance sensor(head)
- 2.Active vision sensor(head)
- 3.LCD screen(eyes)
- 4.Haptic area(chin)
- 5.Distance sensor(chin)
- 6.Temperature and humidity sensor
- 7.Charging status indicator
- 8.Charging port(TYPE-C)



- 9.Microphone array
- 10.Haptic area(head)
- 11.Emergency Stop button
- 12.Detection radar
- 13.Power button
- 14.Battery level indicators



## 4. Precheck

To ensure safety, make sure that your Aiks meets the following conditions before use:

- Aiks has enough power.
- The fingertip controller has enough power.
- Aiks' paw pads are intact.
- Aiks' legs are intact. Aiks' limbs can move smoothly without being stuck.
- Aiks' back, chest, and abdomen are tightened without any damage.
- The surface of the camera and sensors on Aiks' head is clean and not covered or blocked.
- The detection radar on Aiks' back is clean and not covered or blocked.
- The App functions properly.

## Before you get started

## Operator requirements

Aiks operators should be at least 14 years old and have appropriate cognitive and behavioral abilities.

We recommend that individuals, such as children under 14, the elderly, expectant parents, and individuals with disabilities or health issues, use Aiks with the help of their adult guardians, family, or friends.

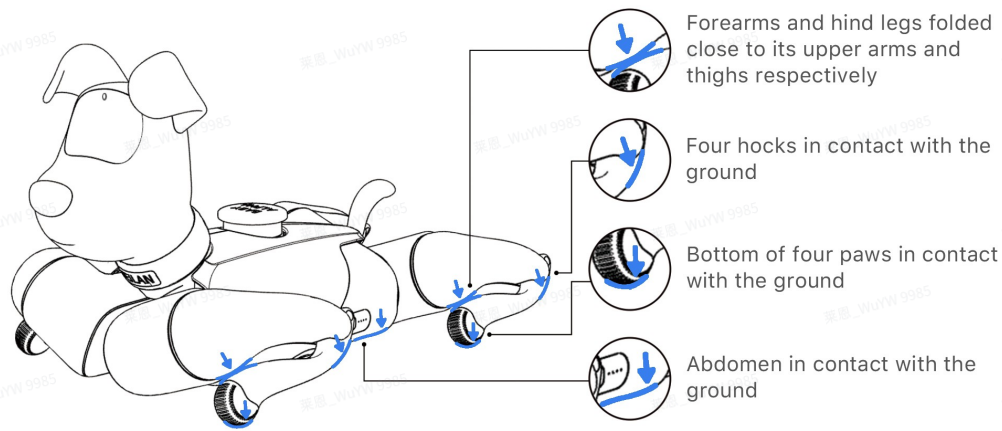
## Preparation

- Check the conditions of Aiks, including its battery level, operating status, and appearance. In case of any abnormality, stop using it, and contact WEILAN after-sales service.
- If Aiks makes unusual noises, stop using it immediately, and contact WEILAN after-sales service for professional assistance or repair and inspection service.
- If all battery level indicators are off after you power Aiks on, it means the battery level is too low for Aiks to execute your commands. Make sure that the power is sufficient before you operate it.
- Before lending your Aiks to others, make sure that they have read through this manual. You need to ensure the safety of new operators, so we highly recommend that you help to familiarize them with the basic operation of Aiks before they get start.
- Control of Aiks by two or more people at the same time is not allowed.
- Do not touch Aiks' chest when its power is on. Otherwise, the heat generated by the long-running motor inside may cause burns.
- Do not push or pull Aiks' legs or move Aiks when its power is on to avoid accidental finger entrapment.
- Make sure that you read and follow all notes, warnings, and instructions containing "do not" or "avoid" in this manual.

## 5. Instructions for power-on/off

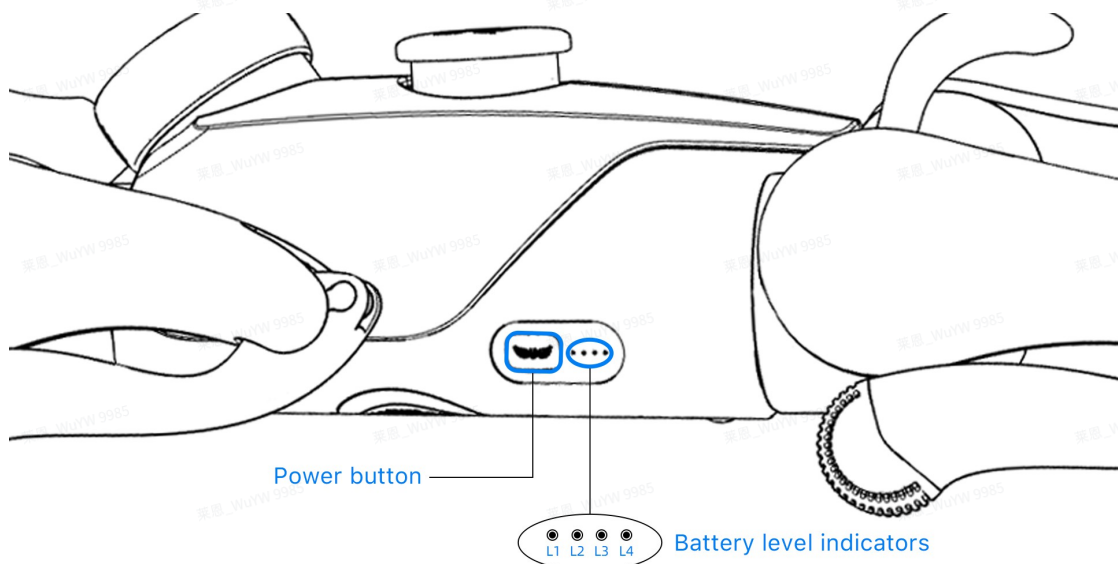
### Standard posture for startup

After it is powered offWhen its power is off, Aiks cannot move its joints. Thus, you are required to manually put its legs to the standard posture before power-onneed to help manually adjust its legs to standard posture to ensure Aiks can be powered on properly, as shown in the following instructionfigure. This way, Aiks can stand up on its own after being powered on.



Make sure you put Aiks in the standard posture illustrated in the figure above before powering it on.

## Power button



## Power Aiks on

Perform the following steps:

Press and hold the power button for 3 seconds, and release it when a beep is heard. At the same time, the indicator light of the button is on, and the battery level indicators start flashing in sequence and to show the current battery level then the battery level is displayed .

**\*Note:** As Aiks runs onis powered by the fully installed AgentOS and loads a lot of intelligent apps when it startsAgentOS, a large number of intelligent applications need to be loaded during the startup process, . The startup process which may take about 90 seconds. During this process,



the LCD screen displays at the boot splash. When you see Aiks blinking and hear its invitation to play, Aiks is powered on successfully.

## Power Aiks off

To ensure that Aiks accurately responds to your power-off command, we provide you with two power-off methods. Perform the following steps to power your Aiks off when it has stopped moving and safely lay down on its abdomen.

**\*Note:** Do not power off Aiks when it is moving or standing. Otherwise, Aiks will lose power right after being powered off, and fall on people or objects around.

### Normal power-off

1. Press and hold the power button for 3 to 5 seconds.
2. Release the button when a long beep is heard. When all the indicator lights go off, Aiks automatically shuts down.

### Forcible power-off

**\*Note:** Forcibly power off Aiks only when the normal power-off method does not work.

1. Press and hold the power button for more than 6 seconds.
2. Release the button when all indicator lights go off. After that, Aiks is forcibly powered off.

## Power-on/off misoperation

Operation	Description	Result	Explanation	Solution
Power-on misoperation	Press the power button and release it before a beep is heard.	The indicator light comes on and then off, failing to start Aiks.	This is a protection mechanism that prevents unintended power-on.	Follow the standard instructions to power on Aiks.
Power-off misoperation	When pressing the power button to power off Aiks, release the button before the required holding duration is reached.	No special sound is heard or indicator light change is noticed. In this case, Aiks remains working properly.	This is a protection mechanism that prevents unintended power-off.	Follow the standard instructions to power off Aiks.

## Note

When Aiks lies down on its own or on the charging station due to low battery level, it automatically adjusts its joints. In this case, you do not need to put its legs to the standard

posture before powering it on.

## 6. Unboxing

### What's in the box

To ensure that you enjoy a premium experience, check what's in the packing box against the following table when you receive the box.

Item	Description	Quantity	Unit
AlphaDog robot	Parent device	1	Set
AutoBox (optional)	Allows Aiks to autonomously navigate to and from it. You can also use it to store Aiks.	1	Piece
Fast charging kit	Charges Aiks.	1	Kit
Fingertip Controller	Controls Aiks within visual range.	1	Piece
Certificate of Conformity	Proves that our products meet relevant quality and safety standards.	1	Piece
Personal information protection card	Provides notes on privacy and legal concerns when you use our products.	1	Piece
Privacy sticker	Protects your privacy. You can attach it to the camera on the head of Aiks if needed.	6	Piece
Decal stickers	Customize the appearance of Aiks.	1	Set
Safety information card	Provides information about the risk factors and precautions when you use Aiks.	1	Piece
Card of standard posture for startup	Illustrates the standard posture of Aiks before you power it on.	1	Piece

**\*Note:** If any item is missing, contact our customer service. We will spare no effort to help you embark on a cheerful journey with Aiks as soon as possible.

### Quick unboxing

Aiks can serve as your futuristic companion that provides intelligent and interactive features and experience. For a joyful first meet, we strongly recommend that you carefully read the following unboxing and initial setup guide before you use Aiks start.



Each of the following steps is designed to help you smoothly get your Aiks up and running and enjoy an innovative experience. Whether you're a tech enthusiast or a novice user of smart products, we're sure that, by following the guide, you'll be able to get on track in no time.

## Before unboxing

1. Scan the QR code below to download WEILAN App.



QR code for App download

**\*Note:** To maximize the download speed, we recommend that you use a browser to scan the QR code above. WEILAN App is supported only on mobile devices running Android and iOS.

1. You can scan the QR code below to watch the tutorial video for unboxing.



QR code for watching the tutorial video

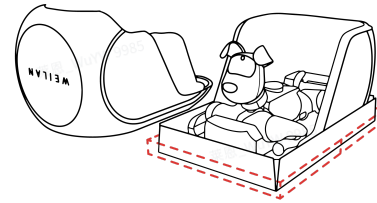
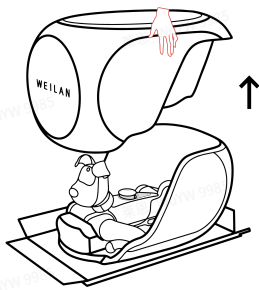
## Unboxing procedure

### Step 1: Open the AutoBox.

Download and install WEILAN App. Then, carefully lift the lid of the AutoBox.

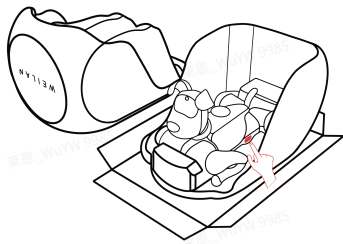
### Step 2: Clear the obstacles around the AutoBox.

Note that the paper edge protectors at the bottom of the AutoBox must be removed. Make sure that there are no other obstacles around the AutoBox. This way, Aiks can walk out autonomously.



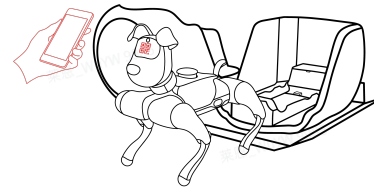
### Step 3: Power on Aiks in the AutoBox.

Press and hold the power button on the side of Aiks for 3 seconds, and release the button when a beep is heard.



### Step 4: Activate Aiks.

Configure the network and activate Aiks according to the instructions of Aiks and the App. After activation, Aiks will stand up and slowly walk out of the AutoBox.



### \*Note:

1. AutoBox is applicable to BabyAlpha Pro and Ultra products.
2. As Aiks is powered by the AgentOS, a large number of intelligent applications need to be loaded during the startup process, which Aiks runs on fully installed AgentOS and loads a lot of intelligent apps when it starts. The startup process may take about 90 seconds. During this process, the LCD screen displays the boot splash.

## Issues and solutions

Issue	Description	Cause	Solution
Aiks cannot be powered on.	The indicator light of the power button comes on and then off.	The power-on operation is incorrect.	Press and hold the power button for 3 seconds, and release it when a beep is heard.
	The indicator light of the power button comes off immediately after it comes on.	You have pressed the power button too many times in a short period.	Wait 5 seconds and then power on Aiks according to the instructions.

	The indicator light of the power button does not come on, or it comes off shortly after it comes on, or the indicator light of the power button stays on but the battery level indicator is off.	The battery level of Aiks gets low.	Use the charger in the charging kit to charge Aiks for about 90 minutes.
Aiks cannot stand up or walk out of its AutoBox.	The indicator light of the power button stays on, but only one LED of the battery level indicator comes on.	The battery level of Aiks gets low.	Use the charger in the charging kit to charge Aiks for about 90 minutes.
	The indicator light of the power button stays on, and two or more LEDs of the battery level indicator come on.	The detection radar is blocked or covered.	Remove foreign objects inside and near the AutoBox that may block or cover the radar, power off Aiks (press and hold the power button until a beep is heard) and then power on Aiks again.
Aiks cannot stand up.	Aiks prompts: "I'm not in the right posture. Put my legs in place and restart me. "	Aiks is not in the standard posture for startup.	Put Aiks to the standard posture, and restarts it.

## Power on Aiks outside the AutoBox

The following table describes the requirements that need to be followed when you power on Aiks outside the AutoBox.

Check Item	Requirement	Remarks
Hard and flat surface	The surface where you put Aiks does not dent noticeably under compressive stress.	Avoid powering on Aiks on uneven ground or soft carpets.
No visible obstacles on the surface	The surface that contacts the limbs and abdomen of Aiks is free of visible obstacles or bumps.	Clear objects, such as cardboard and toys, which may affect the standard posture for Aiks' startup.
Limbs folded to the limit	The maximum acceptable deviation is 18°.	Fold the forearms of Aiks close to its thighs.

Proper angles of shoulder and hip actuators

The maximum acceptable deviation of the shoulder-arm and hip-thigh angles is 18°.

Adjust the shoulder-arm and hip-thigh angles so that the paws and knees of Aiks can contact the ground at the same time.

## Activate Aiks

### Activation procedure

1. Download WEILAN App, create an account, and log in.
2. Power on your Aiks. On the home page of the App, tap **Add Pet**.
3. Scan the QR code displayed on the LCD screen of Aiks and complete activation following the guidance as prompted.

### Administrator and shared users

1. The account that scans the activation QR code and completes activation automatically becomes the administrator account.
2. Each pet is assigned only one administrator.
3. Other account users can bind to a pet as shared users by scanning the code shared by the administrator.
4. Each pet can be bound to multiple shared users.

**Possible abnormality:** If you scan the QR code and this message is displayed: "Abnormal network settings. Redirecting you to the network settings page...", configure your network based on the instructions in the following section.

### Pair with Aiks on the App

If your account has been activated and paired with a pet, and the **Pair** button in the **Pair Pet** section on the home page of the App becomes available, perform the following steps.

1. Confirm that the current pet is activated and powered on.
2. If you have multiple BabyAlpha, Ogo on the home page of the App, tap **Pets** in the upper left corner, and choose **Switch Pet**. On the page that is displayed, and select the target pet.
3. On the home page of the App, tap the **Pair** button in the **Pair Pet** section to pair with the pet.

**Possible abnormality:** If the pairing fails after you tap the **Pair** button, perform the following steps.

1. Tap the  $\cdot \cdot \cdot$  icon in the upper right corner of the home page and go to **General > Wi-Fi and Security**. Then, tap **Copy Password**
2. Go to **Settings > WLAN** on your phone, tap the Wi-Fi name that starts with **BabyAlpha**, paste the password, and connect to the Wi-Fi.

## Connect Aiks to your local Wi-Fi on the App

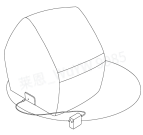
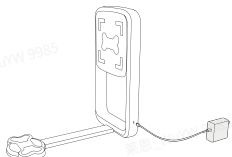
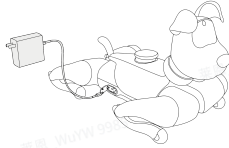
1. Make sure you have connected your phone to the Wi-Fi whose name starts with **BabyAlpha**
2. Tap **Network** on the home page of the App.
3. On the page that appears, select the local Wi-Fi, enter the password, and connect to it.

**Possible abnormality:** Wi-Fi scanning may unpair the App from Aiks, which triggers the following message to be displayed: "Network configuration is completed. Check connection later." In this case, re-pair Aiks with the App and connect it to your local Wi-Fi again.

## 7. User guide

### Charge Aiks

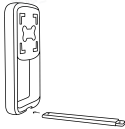
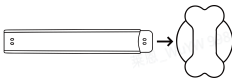
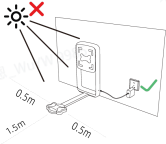
Aiks supports the following three charging methods for different scenarios. You can choose any of them as needed.

Dog House	Auto charging station	Charging kit
<p>Dog House is a cozy home for Aiks made of solid wood with a round carpet at the bottom. An automatic charging device is integrated, allowing Aiks to charge while taking a rest in it.</p> <p>Empowered by an advanced vision and positioning system, Aiks can accurately locate its Dog House at home. When it is running out of battery, Aiks automatically returns to its Dog House to recharge.</p>	<p>The auto charging station adopts a magnetic suction assembly method. You can easily assemble it without tools or professional skills.</p> <p>Empowered by an advanced vision and positioning system, Aiks can accurately locate the charging station at home. Aiks automatically returns to the charging station to recharge when it is running out of battery.</p>	<p>Aiks has a Type-C USB port. You can easily charge it with the charger included.</p> <p>This charging method is quite useful when Aiks has run out of power and cannot move on its own. Cable charging is the most efficient method among the three, and easy to use. You can simply use the charging kit included to quickly charge Aiks and maintain its efficient performance.</p>
 <p>Charging with the Dog House</p>	 <p>Charging with the auto charging station</p>	 <p>Charging with the charging kit</p>

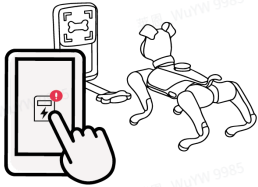
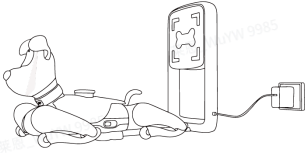
### Automatic charging station

The automatic charging station consists of innovative magnetic components and adopts an innovative magnetic suction assembly method. You can assemble it with ease in no time. When the battery level gets low, Aiks finds its way to the charging station to recharge its battery, keeping itself always alive.

## Install the automatic charging station

<p><b>Step 1</b></p>  <p>Insert the connecting strip into the charging post.</p>	<p><b>Step 2</b></p>  <p>Insert the the other end of the connecting strip into the charging pad.</p>	<p><b>Step 3</b></p>  <p>Do not place obstacles within 1.5 m in front, and 0.5 m on either side of the charging station. Avoid the charging station exposing directly to sunlight.</p>
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## Use the automatic charging station

<p><b>Locating</b></p> <p>Aiks can autonomously recognize the charging station. After you install the charging station, you can tap <b>Set Charging Spot</b> on the home page of the App and remotely direct Aiks to the front of the charging station. Aiks will then locate the charging station in your home.</p> <p>If Aiks cannot charge itself autonomously, repeat the locating process, so that Aiks can acquire the location again.</p> 	<p><b>Charging</b></p> <p>When its battery level gets low, Aiks goes to the charging station, lies down on the charging pad, and starts charging autonomously. After its battery is recharged to a certain level, Aiks stands up again, and continues to wander around or play with you.</p> <p>Aiks will charge itself when you say the "Go Charging" command to it.</p> 
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## \*Note:



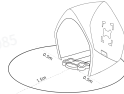
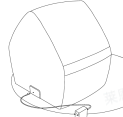
1. Make sure that Aiks acquires the location of the charging station before you enable the Guard mode. If you enable the Guard mode When the Guard mode is on, Aiks lies down at the charging station and stays alert to guard your home.
2. Aiks learns about the physical world by mapping. If it is interrupted during mapping, or is relocated after it has built a map, Aiks may lose its location and will spend more time rebuilding a map to find the charging station. Therefore, we recommend that you avoid moving Aiks after it is powered on. This not only ensures that Aiks functions properly protects you from injuring your hands or fingers, but also protects you from potential injury of your hands or fingersensures that Aiks functions properly.

## Precautions

Precaution	Reason	Remarks
Check whether the charging post is securely fixed before use.	Insecurely fixed charging post may be tipped over by your kids or pet, causing safety risks.	Where necessary, you can use the provided adhesive tape to help fix the charging post.
Remove the protective film from the charging pad before use.	Made of insulating materials, the film is attached to protect the metal contacts from being scratched during transportation.	Remove the protective film before using the charging pad.
Do not connect the two charging contacts with conductive materials.	When the metal charging contacts are short-circuited, point discharge may be triggered due to circuit protection.	This point effect is harmless to human health. However, we recommend that you avoid short-circuiting the metal contacts for the sake of normal operations and service life of Aiks.
Do not put the charging station in direct sunlight.	Aiks relies on multiple integrated sensors to locate the charging station, among which the visual sensor plays an important role. Strong light may affect the locating performance, thus reducing the stability of automatic charging.	Prolonged exposure to direct sunlight may reduce the overall service life of the charging station. For the sake of the normal functioning and service life of Aiks and the charging station, we recommend that you install the charging station in a cool and shaded place.

## Dog House

### Install the Dog House

<p><b>Step 1</b></p> <p>Lay the carpet flat in a suitable place and put the Dog House on it.</p> 	<p><b>Step 2</b></p> <p>Insert the charging pad into the magnetic fixing hole inside the Dog House.</p> 	<p><b>Step 3</b></p> <p>Do not place obstacles within 1.5 m in front, and 0.5 m on either side of the Dog House.</p> 	<p><b>Step 4</b></p> <p>Plug the charger to a power outlet, and then connect the other end of charger to the Dog House.</p> 
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## Use the Dog House

### Charging with the Dog House

<p><b>Locating</b></p> <p>Aiks can autonomously recognize its dog house. After you install the Dog House, you can tap <b>Set Charging Spot</b> on the home page of the App and remotely direct Aiks to the front of it. Aiks will then locate the Dog House in your home.</p> <p>If Aiks cannot charge itself autonomously, repeat the locating process, so that Aiks can acquire the location again.</p>	<p><b>Charging</b></p> <p>When its battery level gets low, Aiks goes to its Dog House, lies down on the charging pad, and starts charging autonomously. After its battery is recharged to a certain level, Aiks stands up again, and continues to wander around or play with you.</p> <p>Aiks will charge itself when you say the "Go Charging" command to it.</p>
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### \*Note:

- Make sure that Aiks acquires the location of the Dog House before you enable the Guard mode. When the Guard mode is on, Aiks lies down in the House and stays alert to guard your home.
- Aiks learns about the physical world by mapping. If it is interrupted during mapping, or is relocated after it has built a map, Aiks may lose its location and will spend more time rebuilding a map to find the House. Therefore, we recommend that you avoid moving Aiks after it is powered on. This not only ensures that Aiks functions properly, but also protects you from potential injury of your hands or fingers.

## Precautions

Precaution	Reason	Remarks

Remove the protective film from the charging pad before use.	Made of insulating materials, the film is attached to protect the metal contacts from being scratched during transportation.	Remove the protective film before using the charging pad.
Do not connect the two charging contacts with conductive materials.	When the metal charging contacts are short-circuited, point discharge may be triggered due to circuit protection.	The working voltage of the Dog House is not greater than 30 VDC. Its point discharge is harmless to human health. However, we recommend that you avoid short-circuiting the metal contacts for the sake of normal operations and service life of Aiks.
Do not put the Dog House in direct sunlight.	Aiks relies on multiple integrated sensors to locate the house, among which visual sensor plays an important role. Strong light may affect the locating performance, thus reducing the stability of automatic charging.	The Dog House is made from plant fibers and solid wood. Prolonged exposure to direct sunlight may reduce its overall service life. For the sake of the normal functioning and service life of Aiks and the Dog house, we recommend that you install the House in a cool and shaded place.

## Charging kit

### Use the charging kit

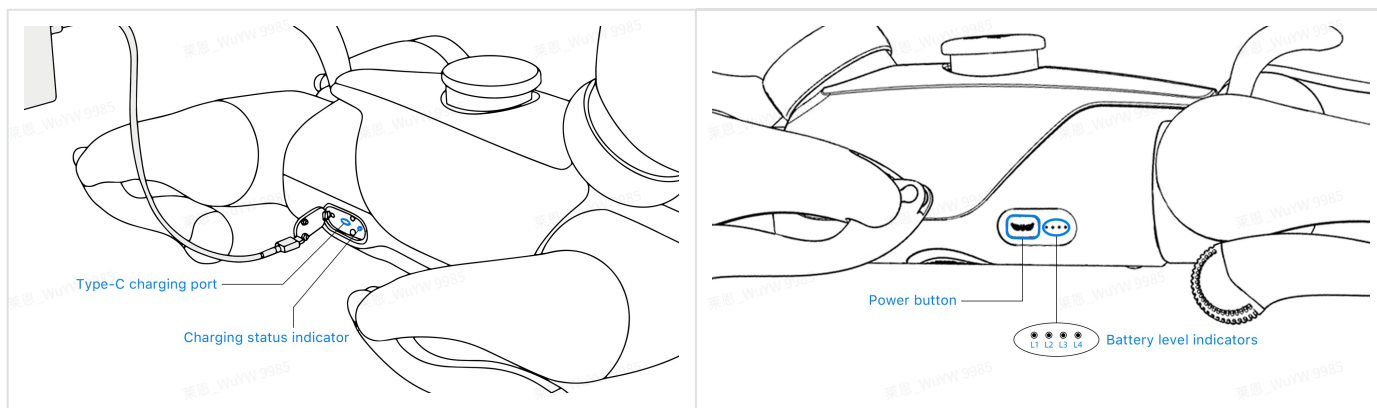
<p><b>Locating</b></p> <p>Aiks can autonomously recognize the cable charging spot. You can tap <b>Set Charging Spot</b> on the home page of the App and remotely direct Aiks to an accessible charging spot. Aiks will then locate the charging spot in your home.</p> <p>If Aiks cannot find the charging spot, repeat the locating process, so that Aiks can acquire the location again.</p>	<p><b>Charging</b></p> <p>When its battery level gets low, Aiks goes to the cable charging spot autonomously, waiting to be connected to the charging cable.</p> <p>Aiks will also do that when you say the "Go Charging" command to it.</p> <p>During cable charging, Aiks cannot stand up or execute your voice commands or remote directions.</p>
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#### \*Note:

1. Make sure that Aiks acquires the location of the cable charging spot before you enable the Guard mode. When the Guard mode is on, Aiks lies down by the cable charging spot and stays alert to guard your home.

2. Aiks learns about the physical world by mapping. If it is interrupted during mapping, or is relocated after it has built a map, Aiks may lose its location and will spend more time rebuilding a map to find the cable charging spot. Therefore, we recommend that you avoid moving Aiks after it is powered on. This not only ensures that Aiks functions properly, but also protects you from potential injury of your hands or fingers.

## Charging status and battery level indicators



### Purposes Meanings of indicators

- **White battery level indicators:** indicate the battery level and the charging progress.
- **Two-color charging status indicator:** indicates three charging statuses, namely, charging in progress, fully charged, and discharging.

**\*Note:** You can tell the charging status of Aiks based on the following rules colors of charging status indicator:

When the charging is in progress, the indicator is in yellow;

When the battery is fully charged, the indicator turns white;

When the charger is unplugged and Aiks is in normal operation, the indicator goes off.

### Indicator status during operation

Battery Level (C)	L1	L2	L3	L4	Indicator Light
$C \geq 82\%$	On	On	On	On	Off
$61\% \leq C < 82\%$	On	On	On	Off	Off
$37\% \leq C < 61\%$	On	On	Off	Off	Off
$18\% \leq C < 37\%$	On	Off	Off	Off	Off

$7\% < C < 18\%$	Flashing at 1.5 Hz	Off	Off	Off	Off
$C < 7\%$	Off	Off	Off	Off	Off

## Indicator status during charging

Battery Level (C)	L1	L2	L3	L4	Charging status indicator
$C \geq 90\%$	On	On	On	On	On in white
$75\% \leq C < 90\%$	On	On	On	Flashing at 1.5 Hz	On in yellow
$50\% \leq C < 75\%$	On	On	Flashing at 1.5 Hz	Off	On in yellow
$25\% \leq C < 50\%$	On	Flashing at 1.5 Hz	Off	Off	On in yellow
$C < 25\%$	Flashing at 1.5 Hz	Off	Off	Off	On in yellow

**\*Note:** Aiks is provided with four indicators to show you the battery level. Each indicator represents a quarter of the total battery capacity, so you can quickly tell the battery level by the number of lighting indicators. When the battery level is low, Aiks finds its way to the automatic charging station or Dog House for charging.

## Methods for checking the battery level

Aiks provides multiple methods for you to check its battery level with ease, so that you can better interact with it.

### Methods Introductiondescription

- Check the battery level by LED indicators:

When Aiks is powered on, the four LED indicators show you the real-time battery level range.

- Check the battery level by voice commands:

When Aiks is powered on, you can check the battery level by giving it a voice command asking it orally. For example, you can say "Hey Aiks, what's the battery level now?" Aiks then tellspeaks you the exact battery level to you.

- Check the battery level on the App:

When Aiks is powered on and paired with the App, you can view its battery level on the home page of the App.

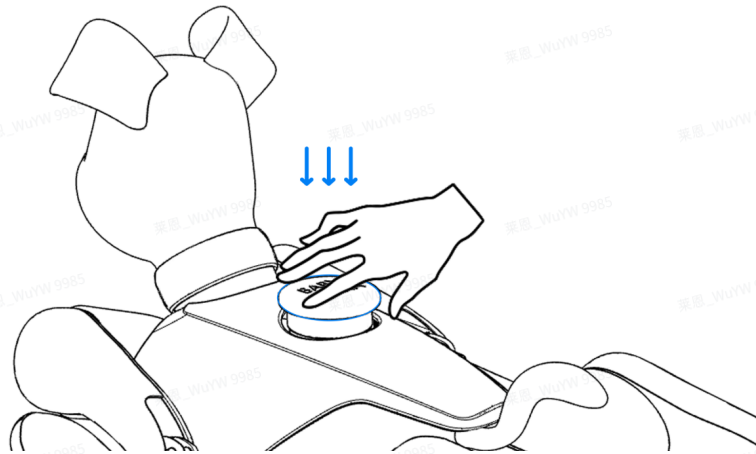
## Comparison of battery level checking different methods

Method	Upsides	Downsides
Indicators	You directly and instantly know the battery level.	The battery level is inaccurate.
Voice commands	You can check the battery level conveniently when you have your hands full with something.	You must speak clearly for accurate voice recognition.
WEILAN App	You can view the exact battery level anywhere.	You must open the App.

## Emergency Stop button

Your Aiks comes with an Emergency Stop button to ensure that you can quickly and effectively bring it under control in any unforeseen situation.

### Where to find the button



### What does the button do

- Protection: When your Aiks loses control in case of any emergency, you can press the Emergency Stop button to immediately trigger system protection and immobilize Aiks. It provides a decisive and ultimate safety control method for you to ensure the operation reliability and safety.

### How does the button work

- Operation: In the event of an emergency, press down the Emergency Stop button.
- Effect: Aiks will gradually lose power and finally lie on the ground.



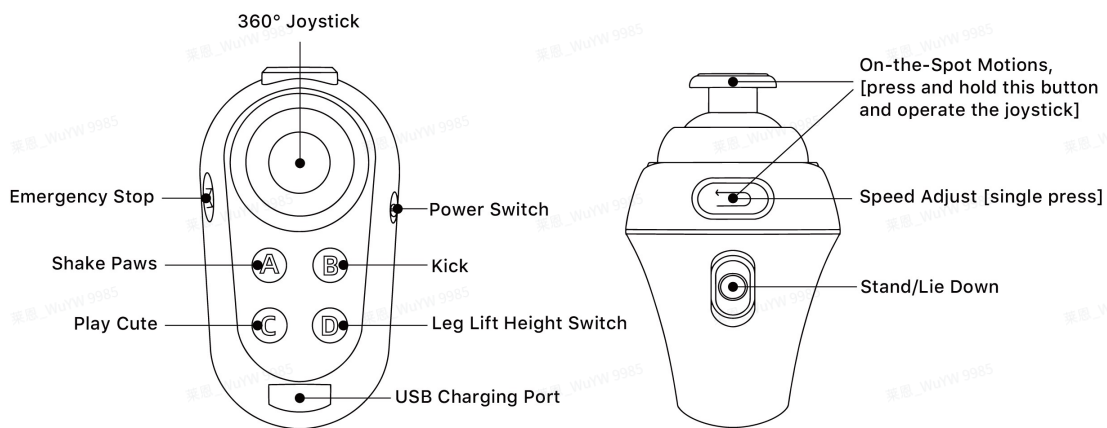
# Recover from an emergency stop

Method	Procedure
WEILAN App	On the remote control page in the App, tap Stand.
Fingertip controller	Press the Stand button on the controller.
Voice commands	Wake up Aiks, and say "Stand up" to Aiks.
Restart	Restart Aiks to restore its mobility.

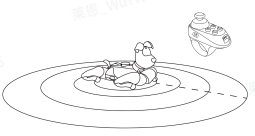

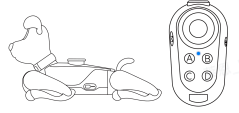
## Fingertip controller

The fingertip controller is an innovative one-handed visual range remote control designed to provide an exceptional robot manipulation controlling experience. Aiks is equipped with advanced robotic joints for superior mobility and responsiveness. This one-handed controller allows you to manipulate operate Aiks flexibly and quickly, bringing you a unparalleled joy

### Buttons



## Pair with the controller upon first use

<p><b>Step 1</b></p> <p>Keep the distance between Aiks and the controller within 1m.</p> 	<p><b>Step 2</b></p> <p>Press and hold the M button, then toggle on the power switch to turn on the controller.</p> 	<p><b>Step 3</b></p> <p>Release the button until the blinking blue LED indicator stays on, indicating a successful pairing.</p> 
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## Use the controller

Once paired with Aiks, the controller automatically memorizes the information of Aiks. After that, every time you turn it on within 5 meters from Aiks, it connects to Aiks automatically with no need to pair again. You can use the controller to control the motions of Aiks instantly.

**\*Note:** The effective working range of the controller is 5 m. In an open area, the control range can reach 10 m. The controller may be disconnected from Aiks if there are people moving around or metal obstacles, which seriously disturb the signal transmission. When the controller is within the minimum communication range (5 m, which can be prolonged up to 10 m in open areas) from Aiks, it automatically connects to Aiks again.

## Robotic dog Aiks

### Interact with Aiks by speech

Equipped with a cutting-edge and powerful LLM, Aiks can interact with you in natural languages, offering an unprecedented experience in the era of AI.

You can give Aiks the following simple commands:

Go Forward/Backward/Left/Right, Sit, Lie Face Down, Stand/Stand Up, Dance, Spin, Bow/Salute, Push Up, Shake HandPaws, Kick, Pee, Poop, Fart, Shake Tail, Shake Body, Play, Stretch Forward/Backward, CrawlSwim, High Five, Wave HandPaws, Woof Once, Play Angry, Get Up, Surprise Me, Stay, Look At Me, Rest, Make Way, Go To Bed, Go Back, Go Charging, Go Away, and Patrol.

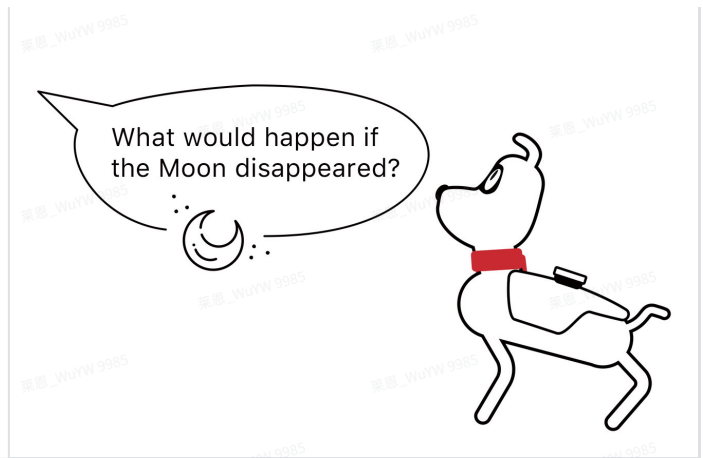
More commands will be added through OTA updates.

You can also ask Aiks to do the following tasks:

1. To make a video call, say "make a call".
1. To check the battery level, say "check the battery level", "what's the battery level now", etc.
1. To check the sound volume, say "what's the volume", "current volume", etc.
1. To adjust the sound volume, say "maximum volume", "set volume to 80", "volume down", etc.

1. You can wake up Aiks by calling "Hey Aiks" to start a multi-turn conversation. If you have not interacted with Aiks for more than 18 seconds, you need to wake it up again.

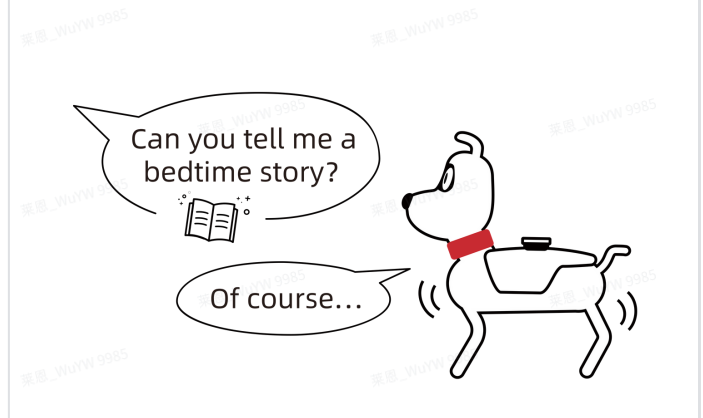
2. Aiks will look up and listen to you carefully. We recommend that you talk to Aiks in a quiet environment. Noise will affect speech recognition accuracy.



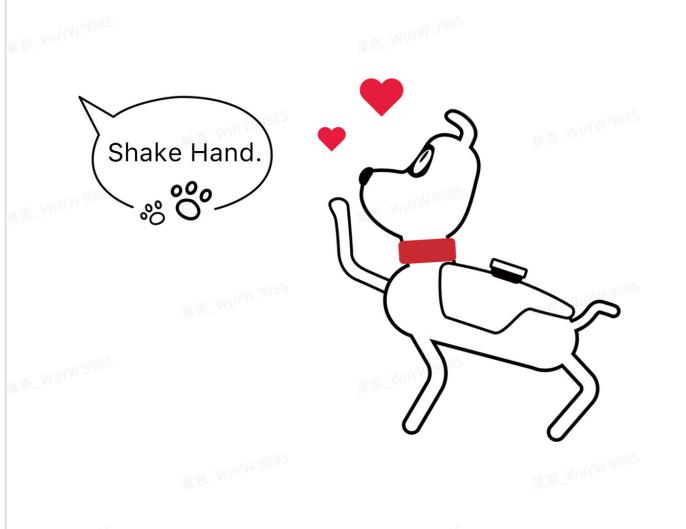
3. Aiks responds to your speech within 0.5 seconds. Network latency may cause a lag.



4. Aiks will wiggle while answering your questions. Thanks to its rich knowledge base, Aiks can respond to many of your requests.



5. At present, Aiks can execute only one command at a time. We will constantly update its command library for you to find more fun with Aiks.



6. You can touch the back of Aiks' head to exit speech interaction. When no one is interacting with Aiks, it wanders around, invites you to play, or rests at the charging station or Dog House.



Aiks is more versatile than you can imagine. You can find more surprises interacting with it and explore more features.

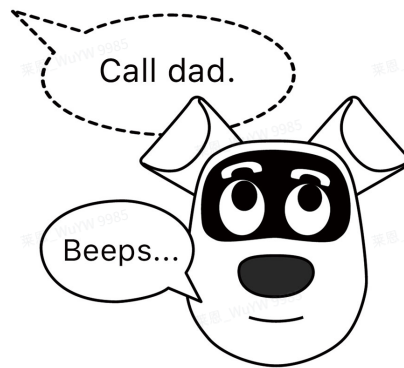
## Use the speech interaction feature

**Disclaimer: The output of Aiks in speech interaction is generated based on limited data on which its AI algorithm relies, and does not represent the position of WEILAN. We make no warranty as to the authenticity, accuracy, or completeness of such output.**

### Make a video call

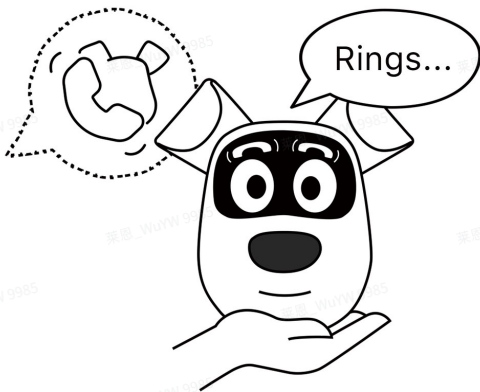
- Direct Aiks to initiate a video call

You can make a video call to someone in **Pet Contacts** on the App by giving Aiks a command. For example, you can say "Call dad".



- Direct Aiks to answer or hang up a video call from someone using the App

1. You can ask Aiks to answer a call by giving it the command "Answer" or touching its chin.



2. You can ask Aiks to hang up a call by giving it the command "Hang Up" or touching the back of its head.



### Enable Restricted Mobility Mode

If the autonomous behavior of Aiks bothers you, you can enable **Restricted Mobility Mode** on the **Control Center** page of the App.

If you enable this feature, Aiks goes to the charging spot after the interaction and moves or rests within a 2 m × 4 m area. You can still interact with Aiks when it stays within the area.

### \*Note:

1. If you have not set the charging spot when you enable this feature, Aiks goes to where you powered it on and moves or rests within a 2 m × 4 m area.
2. If you take Aiks to a new environment and then enable this feature, Aiks stands and waits where you put it down.

## Use the AutoBox

### Have Aiks walk into AutoBox

You can have Aiks walk into the AutoBox 40 minutes after it is activated. Perform the following steps.

1. Place Aiks within 1–2 meters in front of the AutoBox.
2. Wait for Aiks to recognize the AutoBox, walk into it, and then lie down.
3. Press and hold the power button on Aiks, and release the button when a beep is heard.
4. Close the lid of the AutoBox.

**\*Note:** Make sure that Aiks is powered off after it lies down in the AutoBox. This prevents Aiks from moving inside the Autobox, which may cause personal injury and property damage.

### Have Aiks walk out of the AutoBox

1. Put Aiks to the standard posture for startup in the AutoBox. For details, see section "Standard posture for startup".
2. Power Aiks on in the AutoBox. For details, see section "Power Aiks on".
3. Do not operate Aiks intervene when Aiks it stands up and walks out of the AutoBox on its own.

## Upgrade firmware

We will constantly add more features to Aiks. After you power Aiks on, you can open the App, tap the · · · icon in the upper right corner on the home page and go to **General > Upgrade Pet** to upgrade its firmware. The upgrade takes about 15 minutes. When the upgrade is completed, you can enjoy the latest features.

# 8. Technical Specifications

## Physical parameters

Parameter	Value
Weight	8.5–8.8 kg (varies according to model)

Dimensions (standing)	585 mm x 298 mm x 508 mm (L x W x H)
Dimensions (standing up straight)	558 mm x 298 mm x 558 mm (L x W x H)
Dimensions (lying down)	625 mm x 333 mm x 328 mm (L x W x H)
Degrees of Freedom (DF)	12
Screen size	3.5 in
Screen Resolution	480 x 800
RAM	8 GB
Flash memory	64 GB
ROM	128 GB–1 TB (varies according to model)
Wi-Fi	Wi-Fi 5 IEEE 802.11 a/b/g/n/ac
Bluetooth	Bluetooth 5.0
OS	Ubuntu 20.04 + ROS
Wide-angle vision	2MP FOV: 120°
Active infrared vision	2MP FOV: 90°
Microphone array	Supported
Multipoint touch sensor	Supported
Temperature and humidity sensor	Supported
6DF IMU sensor	Supported
Joint torque sensor	Supported
360-degree lidar	Max. detection range: 8 m
Multi-ToF radar	Supported
6D pose estimation	Supported
Overall battery life	70–120 min (varies according to model)
Max. standby time	Approx. 5–6 h (varies according to model)
Fast charging time	Approximately 90 min
Max. forward speed	2.0–4.8 km/h (varies according to model)



Max. climbing angle	20°
Dynamic balance	Supported
Self-recovery from falls	Supported
Fall protection	Supported
Displacement sensor	Supported
Fast charging	Supported
Fingertip controller	Supported
Operating temperature	0–35°C
Storage temperature	–10°C to 45°C
Charging ambient temperature	5–30°C

## 9. Safety and legal information

### Instructions for safe use and maintenance

#### Legal notices

- Before using the robot, read through this manual carefully and operate it as instructed.
- Operators of the robot should be at least 14 years old and have appropriate cognitive and behavioral abilities. For details, see section "Operator requirements".
- WEILAN and its affiliates shall not be liable for any personal injury or property damage caused by robot operations that are in violation of this manual.
- For details about user privacy and other related issues, see the *WEILAN Privacy Policy App*, and *End-User License Agreement*. We recommend that you read them carefully.
- The robot described in this manual are intended to show users how to correctly operate a robot. Therefore, the robot displayed in images or videos may be different from the ones you have bought or received in terms of the color, appearance, and other aspects.
- To keep improving the product features and your experience, we will be constantly upgrading and optimizing our robot. The soft copy of this user manual is accessible from our official website and WEILAN App, and will be updated from time to time.
- Users should comply with local laws and regulations when using WEILAN robots. Users should not use the robots to harm people or animals, and should not modify or use them as a weapon. Otherwise, your product warranty and other customer benefits are annulled.

#### Precautions

- To minimize the risk of injury, always check the conditions of Aiks before operating it.
- Power on Aiks on a flat surface. To avoid loss of control or collision, do not abruptly change its speed.
- Stay alert when operating Aiks. Keep Aiks within your sight to avoid hitting people or properties.
- Steer Aiks at an appropriate speed and always keep it in a safe distance from people or objects. Slow it down when it enters a new environment.
- To avoid distractions while operating Aiks, do not wear headphones or earplugs, or do anything not related to the operation, such as answering calls, taking photos, or shooting videos with your phone. This way, you can keep an eye on your surroundings.
- Stay alert when operating Aiks in environments with poor visibility to avoid personal injury and property damage.
- Do not operate Aiks on slippery surfaces such as ice and glass.
- Do not operate Aiks in high or narrow places, such as desktops and beds, to prevent it from falling.
- Slow it down when Aiks makes a turn to prevent it from being out of control.
- Do not operate Aiks if any of its parts is damaged.
- To avoid personal injury, do not interfere with the normal operation of Aiks.
- To avoid personal injury or property damage, do not ride Aiks.
- To avoid personal injury or property damage, do not load heavy objects onto Aiks.
- Do not pull soft parts of Aiks, such as its ears and tail. Otherwise, Aiks may fall, causing personal injury or property damage.
- Do not modify or disassemble Aiks without authorization.
- Do not use third-party parts for replacement or install such parts to Aiks.
- Do not install third-party parts, which may cause compatibility and reliability issues.
- Avoid incidents that may result in damage to Aiks, such as immersion, ingress of foreign matter, contact with chemicals, and scratching.
- To prevent liquid from entering the battery, circuits, chips, and other parts, do not jet wash Aiks.
- If Aiks has been drenched in rain or experienced liquid ingress, power it off immediately and do not power it on again. Do not perform operations on Aiks by yourself except for wiping it. Improper operations may cause further damage to Aiks or invalidate the warranty. In this case, contact WEILAN after-sales service.
- To avoid impairment to the battery performance, do not leave Aiks sitting unpowered for long.
- Do not repair parts or modify circuits or battery packs without authorization, or use the charger improperly.
- To avoid wireless devices or signals interfering with the operation of Aiks, do not use Aiks in or near an environment with complex electromagnetic conditions or strong interference sources, such as mining areas, radio towers, HV lines, substations, or radioactive places.
- Do not use BabyAlpha Lite or BabyAlpha Air outdoors.
- Do not install third-party apps on BabyAlpha products.

- Do not use any unofficial operating systems or update packages, which may pose a safety risk.

#### **When using BabyAlpha Pro and BabyAlpha Ultra outdoors, keep in mind:**

- To avoid damage to the battery or circuits, or spontaneous combustion or explosion, do not operate Aiks under harsh conditions, such as bad weather (such as wind, rain, snow), dusty or muddy fields, corrosive environment, and extreme temperatures.
- We recommend that you use Aiks at a partly enclosed place with hard ground, such as asphalt road, ceramic tile flooring, and rubber running track.
- To avoid traffic accidents or other adverse consequences, do not operate Aiks on public roads.
- Steer Aiks with caution when it navigates through a new environment or a place with complex conditions, such as a road with obstacles and bumps.
- Do not operate Aiks near obstacles such as vehicles, pedestrians, puddles, or pools.
- When Aiks approaches or passes through intersections, turns, and entrances on private roads, slow it down and take precautions to avoid pedestrians, animals, or vehicles.
- When passing through an unidentified cover, check the ground underneath the cover beforehand to ensure that Aiks passes through safely.

**If you use Aiks in violation of the above instructions, it may cause damage to Aiks or to your and other people's personal and property safety, and it may also lead to the loss of free after-sales service for Aiks under warranty.**

## 10. Maintenance

### Routine maintenance

#### Maintenance after use

- Steer Aiks to a flat surface before powering it off.
- Do not put Aiks into the Autobox when it is powered on.
- Charge Aiks with the official WEILAN charger to avoid damage to the battery or the risk of fire.

### Regular maintenance or replacement

#### Primaryarent device

Check all parts of Aiks and make sure that they are in good condition. If you need any help, contact WEILAN after-sales service.

Before maintenance, make sure that Aiks is powered off and disconnected from the charger.

- Use original parts for replacement to avoid damage to Aiks due to compatibility issues.
- Paw pads are consumables. If paw pads are worn, torn, incomplete, or peeled off, Aiks may be unstable when it moves or stands.

- Clean the surface of camera, sensors, and other parts of Aiks regularly.
- Check the level and health condition of the battery regularly. If the battery life is significantly shortened, contact WEILAN customer service for a replacement.
- Store Aiks and the power adapter in a cool and dry place.

## Battery

- Do not store the battery under temperatures higher than 45°C or lower than -10°C. If the battery is left unused for long, its performance will be impaired.
- If you expect that the battery will be left unused for more than 3 months, we recommend that you store it under favorable conditions (20–25°C temperature and 0–60% RH), and keep the total battery level not higher than 80%, preferably 30–50%.
- During the storage, check the battery level regularly, and charge it if the battery level falls below 20%. We recommend that you charge the battery at least once every 3 months to maintain its performance.
- We recommend that you charge the battery at 10–25°C.
- Do not charge the battery for more than 24 hours. Overcharging will shorten the battery life.
- If under-voltage protection is triggered, the battery will not supply power until it is properly charged.
- Do not over-discharge the battery. Otherwise, the battery will no longer be recharged.
- The charging automatically stops when the battery is fully charged. We recommend that you disconnect the battery device from the charging kit after it is fully charged.

## 11. Troubleshooting

### Common issues and solutions

Question	Solution
What can I do if the image of the LCD screen disappears and the indicators go off when Aiks is starting?	The battery level is low and Aiks enters the low power protection mode. You need to charge Aiks with WEILAN charging kit for about 1.5 hours.
How do I know that my Aiks has been powered on successfully?	When starting, Aiks plays boot splash and audio prompts. The start process is completed when the boot splash ends and facial expression is displayed on the screen.

<p>Why does Aiks stop moving and quickly lie down when I press the hump on its back?</p>	<p>That hump is the Emergency Stop button. If you press it in an emergency, Aiks stops moving and lies down immediately to ensure safety.</p>
<p>Can I walk my Aiks on a leash?</p>	<p>The current software version of Aiks does not support leash control.</p>
<p>I bought a new fingertip controller to replace the broken original one. What can I do to control Aiks with the new controller?</p>	<p>You must pair the new fingertip controller with Aiks. For details, see section "Pair with the controller".</p>
<p>Aiks moves so slow when controlled with the fingertip controller. What can I do to make it go faster?</p>	<p>The fingertip controller supports fast mode and slow mode. By default, the slow mode is used. To have Aiks move faster, press the Speed Regulator button on the controller. After you switch the speed mode, take some time to break in. Do not push or pull the joystick too much; otherwise, Aiks will rush out and cause collisions.</p>
<p>What can I do if the fingertip controller does not work every now and then?</p>	<p>The effective working range of the controller is 5 m. In an open area, the control range can reach 10 m. The controller may be disconnected from Aiks if there are people moving around or metal obstacles, which seriously disturb the signal transmission. When the controller is within the minimum communication range from Aiks, it automatically connects to Aiks again. We recommend that you keep the distance between Aiks and the controller within 10 m in an open area.</p>
<p>Aiks keeps hitting on objects. What can I do if Aiks can no longer detect or get around obstacles?</p>	<ol style="list-style-type: none"> <li>1. Check whether the sensor in the chin and lidars on its back and head are not blocked. If yes, remove the blockage.</li> <li>2. Manual control through the joystick or App has higher priority over auxiliary features, such as obstacle avoidance. When Aiks is under manual control, autonomous obstacle avoidance is turned off. In this case, Aiks may hit on objects.</li> <li>3. Aiks relies on multiple sensors, such as vision sensors, detection radars, time-of-flight (ToF) radars to recognize and avoid obstacles. Aiks can hardly recognize particularly small or transparent obstacles, resulting in failure to avoid obstacles.</li> </ol>
<p>I can wake up Aiks by voice, but Aiks just replies "I'm here" without further talking with me. What should I do?</p>	<ol style="list-style-type: none"> <li>1. Detect whether the network signal is bad since Aiks relies on Wi-Fi communication. If the network condition in the current location is poor, Aiks will have voice interaction lag, or the voice interaction will stop.</li> <li>2. Determine if Aiks is using a proprietary Wi-Fi network. Some proprietary Wi-Fi networks have firewalls, and firewalls may block Aiks' voice interaction capabilities.</li> </ol>

## 12. Help and feedback

If you have any questions or need any help when using our products, contact us at any time through the following ways:

Official website: [www.weilan.com/en/](http://www.weilan.com/en/)

Email: [overseas\\_support@weilan.com](mailto:overseas_support@weilan.com)

You are also welcome to share with us any comments or suggestions about the WEILAN robotic pets. We sincerely look forward to your valuable feedback. Your understanding and support help us become better fuel our progress.



## **FCC Warning**

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.

## **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.