

Alpha 2.1_01_V1.0

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does 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.

To maintain compliance with FCC RF Exposure guidelines, this equipment should be installed and operated with minimum distance between 20cm the radiator your body. Use only the supplied antenna.

FCC ID:2AHJX-0H16006

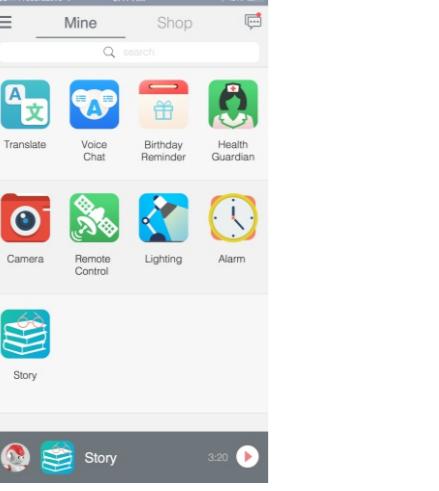
UBTECH Robotics Corp
Nanhai Park, No.101 Xueyuan Road, Nanhuan District, Shenzhen, China
www.ubrobot.com

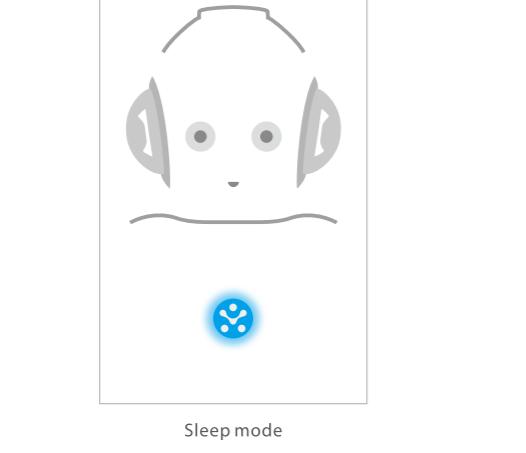
06 Start Using Alpha 2

(06-5). Waking up the robot
Alpha 2 will automatically wake up after successfully connected to the network. You will hear a greeting from it.

(06-6). Interacting with the robot
- You can say "Hello Alpha" to wake up the robot.
- Once the robot wakes up, you can begin chatting with it.
- If you ask a question, its ear and eye lights will start flashing, signalling that the robot is listening and thinking about how to answer your questions.
- If the robot goes into sleep mode, its blue chest light will begin to blink slowly.
- When you need it, please say "Hello Alpha".

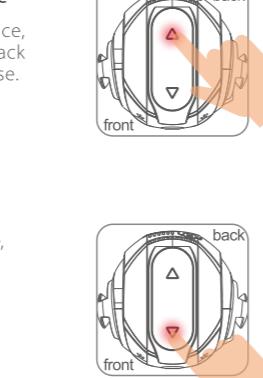
Notes: The robot can only speak to one person at a time.



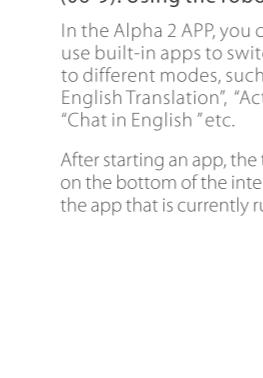


06 Start Using Alpha 2

(06-7). Adjusting sound volume
If you want the robot to raise its voice, you can touch the triangle in the back of the head; the volume will increase.

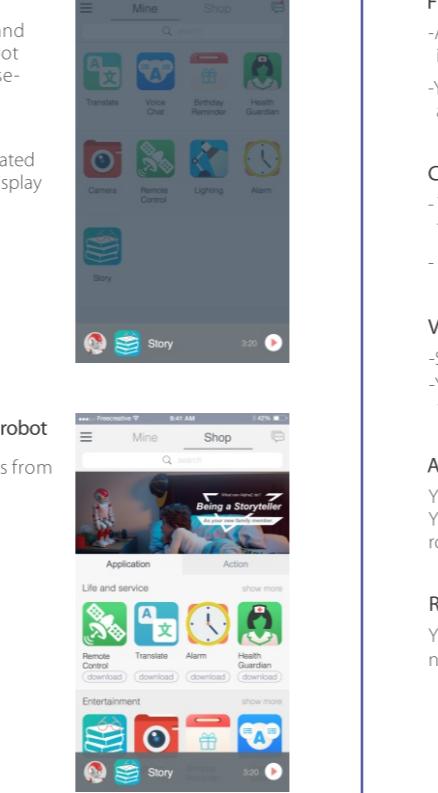

If you want the robot to lower its voice, you can touch the triangle in the front of the head; the volume will decrease.


06 Start Using Alpha 2

(06-8). Stopping the current action
You can also lightly tap the button on the robot's head to stop it from doing what it is currently doing.


06 Start Using Alpha 2

(06-9). Using the robot's apps
In the Alpha 2 APP you can select and use built-in apps to switch the robot to different modes, such as "Chinese-English Translation", "Action List", "Chat in English", etc.



07 Built-in Applications of Alpha 2

Free Chat
After the robot is turned on, say "Hello Alpha" to wake up the robot from sleep mode; it will enter free chat mode by default.
- You can then interact with the robot, tell it to take pictures, or perform an action.

Chinese-English Translation
- You can find "Chinese-English Translation" in Alpha 2 APP; select the translation app to switch to its translation mode.
- Please select a language before it starts translating.

Voice Imitation
Select "Voice Imitation" to switch the robot into this mode.
- You can select a voice for the robot. It will repeat what you say in that voice.

Action List
You can find all the actions available to your robot in the Action list.
You can either use the "Action List" or issue a voice command to make the robot perform actions.

Reminders
You can check and add alarms on the "Alarm" interface. The robot will notify you by voice or action at the time you set.

Switching robots:
When there are multiple robots online at the same time, you can use the Device List to switch to other robots that are not currently in use and operate them.

08 Permission Management of Alpha 2

(08-1). Authorizing friends to use the robot
The robot's owner can unbind the robot from his/her UBTECH account.
- You can unbind the robot on the robot's main page. This needs to be done with network connection.
After the robot is unbound, user data will be removed from the robot's memory, and some functions will be cancelled.
- After unbinding, the owner can view the robot's record(Device ID and QR code) in the Device List before it is bound by another user.
- It is recommended to backup related data(Device ID and QR code) before the robot is bound by another user.

Network changes:
When network changes occur, for example, when you take it home to your work place, please connect the robot to the new network in the following steps:
My Devices > Device List > robot's Main Page > Network Settings.

(08-2). Managing your robot
You can manage your robot after getting permission to use it through account binding or authorization.

Checking the robot's status:
- In the Device List you can find out whether the robot is online, off line or in use.
- You can also see more details by selecting specific robot and entering Device Information page.

Remote control:
Remote control and operation is available when the robot is connected to network.

Switching robots:
They won't need to obtain authorization again as it is permanent.
Owners can remove authorization given to friends.

08 Authorization Management of Alpha 2

(08-4). Unbinding
The robot's owner can unbind the robot from his/her UBTECH account.
- You can unbind the robot on the robot's main page. This needs to be done with network connection.
After the robot is unbound, user data will be removed from the robot's memory, and some functions will be cancelled.
- After unbinding, the owner can view the robot's record(Device ID and QR code) in the Device List before it is bound by another user.
- It is recommended to backup related data(Device ID and QR code) before the robot is bound by another user.

Q: After recharged for a long time, the robot still displays low power.
A: Please check whether the indicator light is on. Please check if all the power plugs are plugged correctly.

Q: The robot cannot turn on the robot. The chest indicator light remains off after I long press the On/Off button.
A: 1. Please make sure the USB cable is plugged properly.
2. The USB cable does not match the device. Please use a standard USB cable.

Q: The robot cannot be turned off.
A: 1. Please long press the button, and wait for about 5 seconds until the indicator light turns green.
2. Long-press the button for about 10 seconds until the indicator light is off completely.

Q: The button located on the robot's head cannot be pressed.
A: The head buttons are touch buttons. Please don't press them too hard.

Q: Can the robot be charged through USB cables or power banks?
A: No. Please use the provided adapter to recharge the robot.

Q: After unbinding, the robot is still displayed as bound to new users.
A: There are 2 servers for Alpha 2. If the original owner uses the server outside of China and the new user uses the one inside China, the data on the two servers can not be synchronized. As a result, the robot can not be bound to a new user.

Q: I can't unbind the robot from my account.
A: This may be due to network failures.

09 FAQ

Q: The robot is connected to the PC via USB cable, but it cannot be recognized.
A: 1. Please check if the USB cable is plugged properly.
2. The USB cable does not match the device. Please use a standard USB cable.

Q: The robot cannot turn off.
A: 1. Please long press the button, and wait for about 5 seconds until the indicator light turns green.
2. Long-press the button for about 10 seconds until the indicator light is off completely.

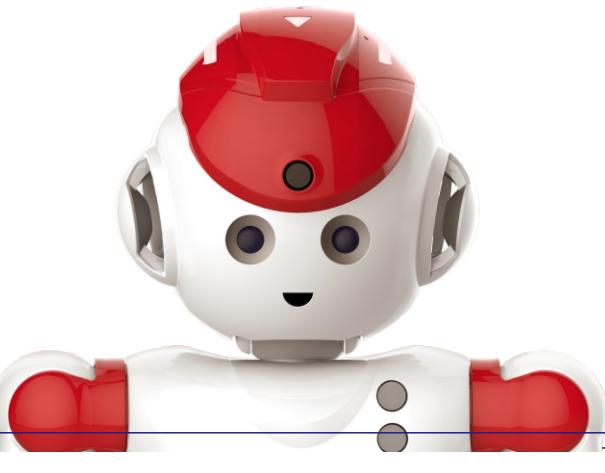
Q: The button located on the robot's head cannot be pressed.
A: The head buttons are touch buttons. Please don't press them too hard.

Q: Can the robot be charged through USB cables or power banks?
A: No. Please use the provided adapter to recharge the robot.

Q: After unbinding, the robot is still displayed as bound to new users.
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Q: I can't unbind the robot from my account.
A: This may be due to network failures.

Hello Alpha



01 ATTENTION

! Please cut the power off, stop using the robot, and contact our after-sales service team under the following circumstances:

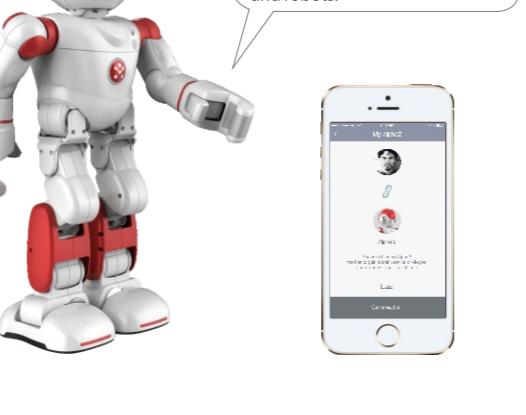
- Suitable for users aged 14 and above.
- Keep the product away from fire and heat. In addition, please keep it dry and clean.
- Please take good care of the product. Don't apply too much force while holding it.
- Please use the robot on a flat surface.
- Please keep a safe distance from the robot while it is operating.
- While the robot is operating, please don't hold its joints to avoid pinching your fingers and damaging the robot.
- Please use the provided charger to recharge the robot.
- Please don't disassemble the robot's joints on your own. If you need to do so, please contact our company first.
- If you need to disassemble or repair the robot, please visit the nearest after-sales service sites or contact our service team.
- If the robot behaves abnormally, please cut off the power to avoid finger-pinching and robot damage.
- While operating the robot, please don't put it at an elevated position or a place close to edges to avoid the risks of falling down and damage.
- The company cannot be held liable for any damage resulting from inappropriate use.
- In order to guarantee long service life, we recommend not using the robot for longer than one hour during a single use.

02 Product Overview

Dear user, thank you for purchasing and congratulations on becoming an owner of a smart robot of the Alpha series.

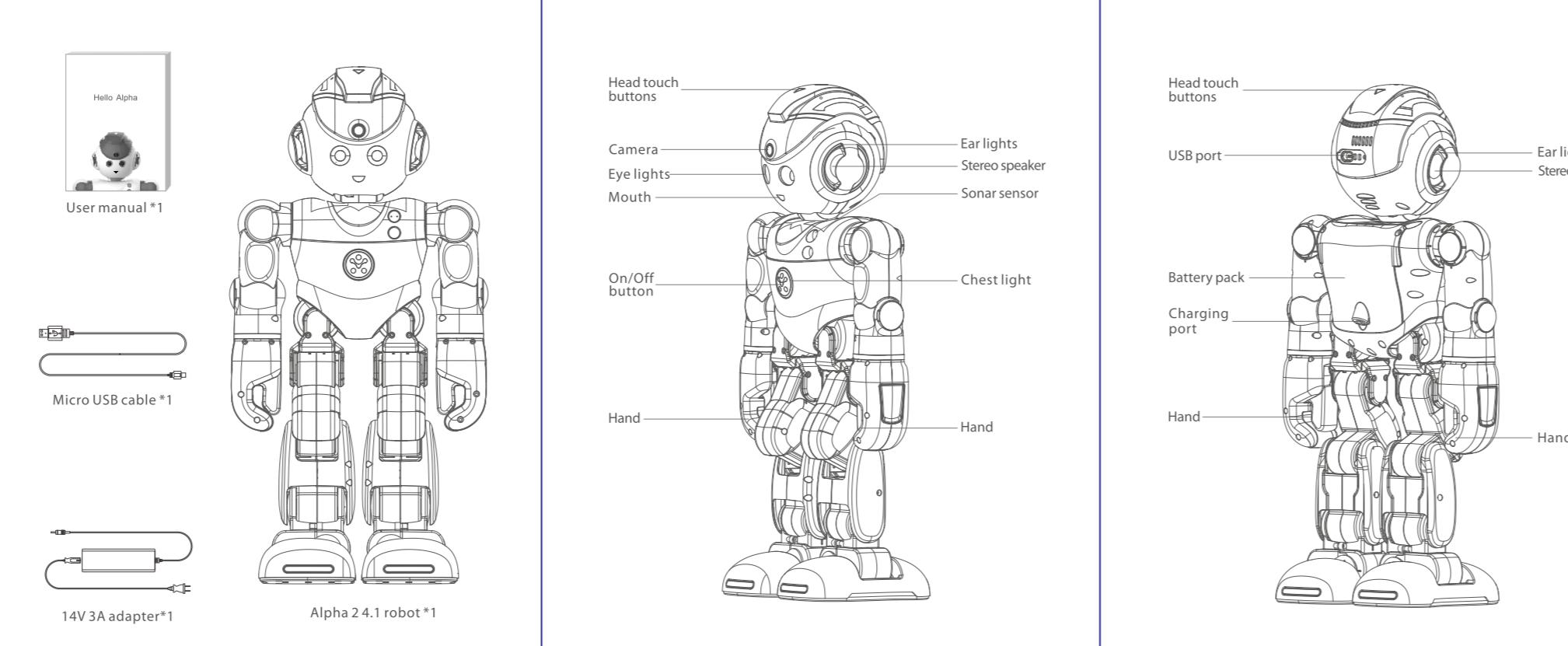
Alpha 2 is a smart robot with a built-in Android system. Users can interact and control the robot via voice or the Alpha 2 app. You can also use the Alpha 2 app to install more apps and expand the robot's functions. This manual will explain the basics.

This manual contains important information. Please keep it for future reference.



03 Product Design

03 Product Design



04 Specifications

Robot		
Processor	4*Cortex-A17	
Product dimensions	438*218*122(mm)	
Operating system	Android 5.1	
RAM	2GB	
ROM	16 GB	
Power	DC 14V	
Degrees of freedom(DOF)	20 DOF	
Battery capacity	2900mAh	
Bluetooth	BT 4.1	
Camera	AF 1300w	
Microphone	4+1 Digital microphone array	
Speaker	8Ω, 3W, 640mm Stereo Speaker (two)	
Light	Head/eye/ear/chest light effect	
control type	APP or Voice Control	
Sensor	Head Triaxial Accelerometer(G-sensor)*1 Head capacitive touch screen*2 Chest Sonar sensors(Anti-collision)*2 Hand: Pressure Transducer*2	
Servo		
Charging	20kg	8kg
Output torque	20kg·cm	8kg·cm
Output voltage	9V~15V	9V~15V
Rotation speed	0.85sec/60°	0.238sec/60°
Working current	Full load 1A/stall 3A	Full load 0.8A/stall 2A
Voltage range	9V~15V	9V~15V
Precision	Idle 1/3° loaded 1°	Idle 1/3° loaded 1°

05 Hardware

(06-1). Downloading Alpha 2 APP
Please scan the QR code from the cover of this manual or the back of the robot. You can also search for Alpha 2 in the App Store to download and install the application.

(06-2). Registering an account
Please register a UBTECH account before using the robot.
Your robot need be bound to your account.

(06-3). Binding
Please scan the QR code on the cover of this manual or on the robot's back to bind your robot to your account.
Notes: Binding can only be done via QR code scanning.

(06-4). Inputting wifi account and password
Please make sure that the network name and password are correct.

(06-5). Starting the camera
After successfully scanning the QR code, the robot will be automatically connected to the network. Now you can connect it to the network.

(06-6). Starting Alpha 2
(06-4.1). Starting Alpha 2
Long-press the button located on the robot's chest for 2 seconds, until the indicator light starts flashing. Then release the button.
When successfully turned on, the robot will greet you and ask you to connect it to the network.

(06-4.2). Connecting to the network
Then click "next".
If you don't hear a warning tone, please click "Don't hear a warning tone" to find out the reasons.

(06-4.3). Setting up a network connection
After successfully scanning the QR code, the robot will be automatically connected to the network. Now you can connect it to the network.

(06-4.4). Scanning a QR code
To increase the probability of successful scanning, please place the QR code within 20-40 cm from the robot's camera.
Then click "confirm".
At the same time, the robot will send a voice notification.

(06-4.5). Connecting
After successfully connected to the network, the robot will automatically begin to connect to your mobile device, which will skip to the home page of the APP.
If you hear the robot saying "connection failed", you can tap the "re-connect" button; or tap the "unable to connect" button to examine possible reasons.