

Alpha 2.1\_UM\_01

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference. (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.

To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance between 30cm from the radiator your body. Use only the supplied antenna.

FCC ID: 2AHX-01H16006

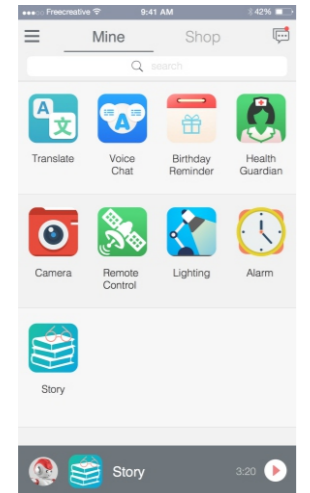
**UBTECH**  
UBTECH Robotics Corp  
Nanshan 1 Park, No.1001 Xueyuan Road, Nanshan District, Shenzhen, China  
www.ubtrobot.com

**05 Start Using Alpha 2**

**(05-5). Waking up the robot**

Alpha 2 will automatically wake up after successfully connected to the network. You will hear a greeting from it.

On the APP interface, you'll be able to see all the preinstalled apps.



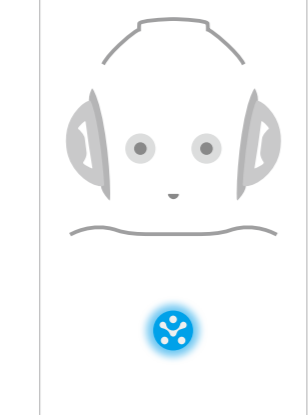
**06 Start Using Alpha 2**

**(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.**



Sleep mode

**06 Start Using Alpha 2**

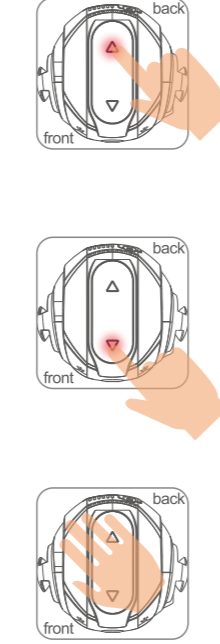
**(06-7). Adjusting sound volume**

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.

**(06-8). 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.

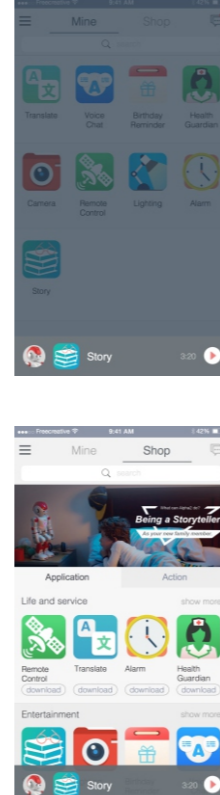


**06 Start Using Alpha 2**

**(06-9). Using the robot's apps**

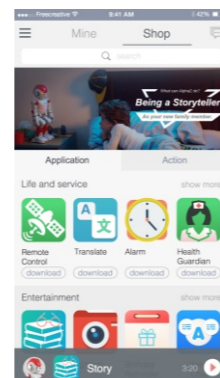
In the Alpha 2 APP, you can select and use built-in apps to switch the robot to different modes, such as "Chinese-English Translation", "Action List", "Chat in English", etc.

After starting an app, the task bar located on the bottom of the interface will display the app that is currently running.



**(06-10). Downloading apps for the robot**

You can download additional apps from the Store / Apps page.



**07 Built-in Applications of Alpha 2**

**Free Chat**

-After the robot is turned on, say "Hello Alpha" to wake up the robot from its 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 it to 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 by action at the time you set.

**08 Permission Management of Alpha 2**

**(08-1). Help the robot connect to a network (Please refer to 06.04 - Setting up a network connection)**

**Network changes:**

When network changes occur, for example, when you take it from 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:**

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**

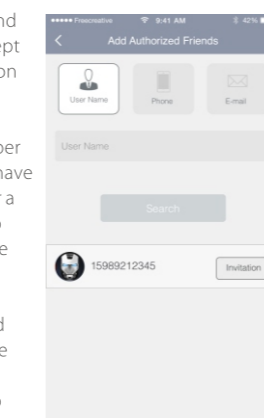
**(08-3). Authorizing friends to use the robot**

- The robot's owner can invite friends to use it.
- There is an "Invite" option on "My Devices".

**The robot's owner can use these 3 methods to invite friends:**

- By searching UBTECH user name and sending an invitation (Users can accept the invitation and obtain authorization after logging-in to their account.)
- By entering a friend's mobile number and sending an SMS (They will then have to use this mobile number to register a UBTECH account. They will be able to accept and obtain authorization once they log-in to their accounts.)
- By entering their email address and sending an email (They will then have to use this email address to register a UBTECH account. They will be able to accept and obtain authorization once they log-in to their accounts.)

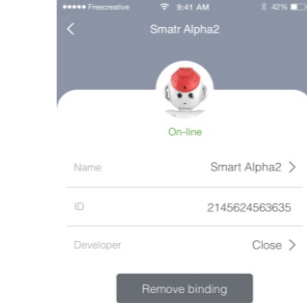
They won't need to obtain authorization again as it is permanent. Owners can remove authorization given to friends.



**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's data will be removed from the robot's memory, and all authorizations 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.



**09 FAQ**

Q: I can't turn on the robot. The chest indicator light remains off after I long press the on/off button.

A: 1. Please make sure the robot is charged. If the battery is low, please recharge the robot first.  
2. Please make sure that you press the button with enough force and hold it for 5 seconds, until the indicator light turns green.

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 plugs are plugged correctly.

Q: The robot and my cell phone are both connected to the network, but after scanning, the robot cannot be recognized on my cell phone.

A: 1. Please check whether the robot and the mobile device are connected to the same network.  
2. Please make sure the network signal is good.

Q: The robot is not responding to my voice.

A: 1. Please make sure the robot is connected to the network.  
2. Please make sure the network signal is good.  
3. Please check if the robot is in sleep mode if so, try waking it up first.  
4. Make sure the distance between you and the robot is not greater than 1 meter.

Q: The robot sits down automatically and there is no response after I tap an action in the Action List.

A: The battery is low. Please recharge the robot first.

Q: The robot makes no sound.

A: Please swipe your hand over the robot's head to adjust the volume.

**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 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.

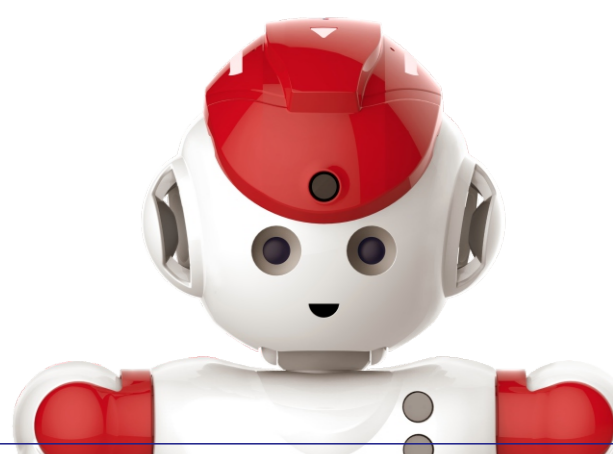
Q: After unbinding, the robot can not be bound to new users.

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.

Hello Alpha



**ATTENTION**

- 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.

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

- The robot is emitting smoke or scorched smell.
- Water or other foreign matters get inside the robot.
- The robot is damaged.

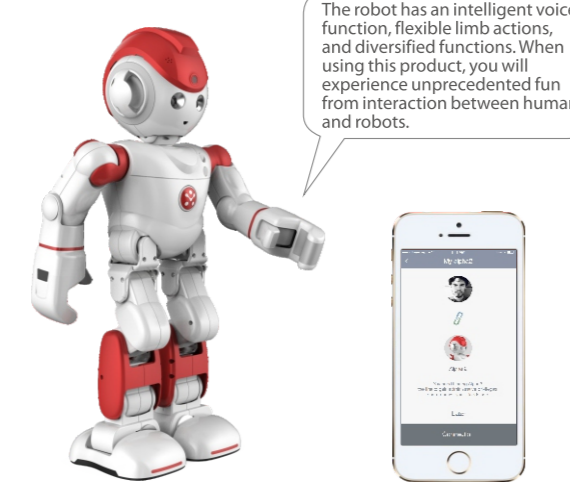
**With updated versions, the built-in apps of the robot and the pictures of the apps might vary.**

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

**01 Product Overview**

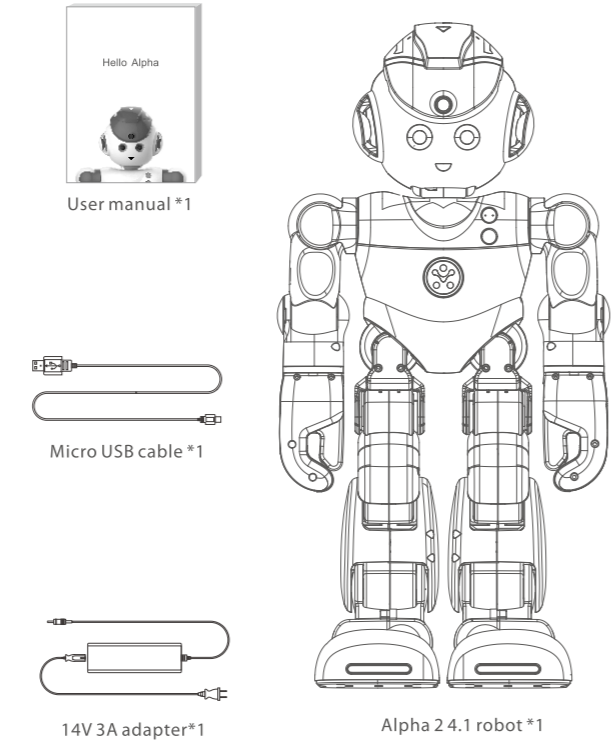
Dear user, thank you for purchasing and congratulations on becoming an owner of a smart robot of the Alpha series.

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

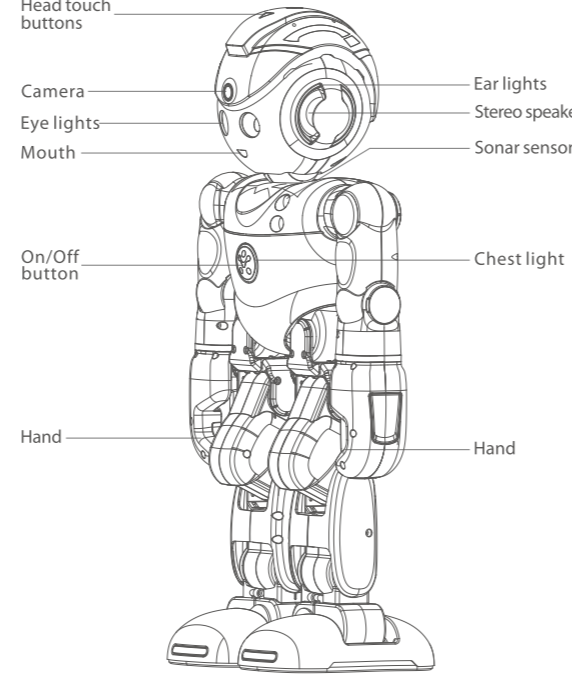


The robot has an intelligent voice function, flexible limb actions, and diversified functions. When using this product, you will experience unprecedented fun from interaction between human and robots.

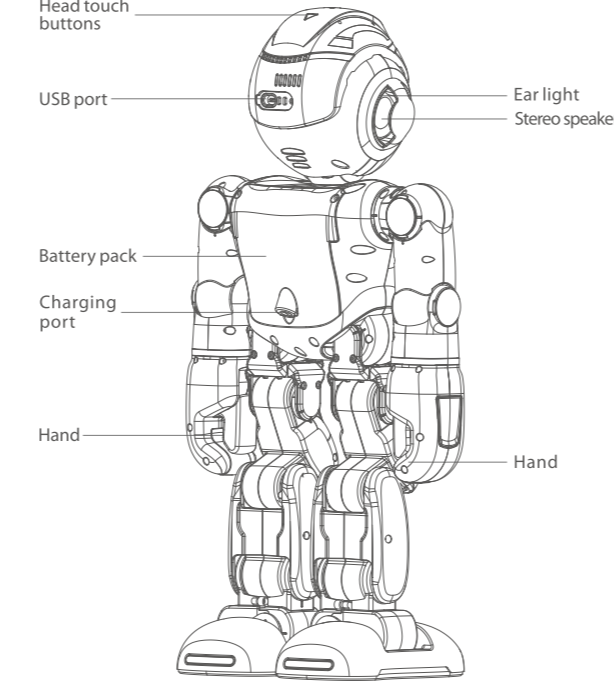
**02 Packing List**



**03 Product Design**



**03 Product Design**



**04 Specifications**

Robot	
Product dimensions	438*218*122(mm)
Product weight	≈2.4kg
Working voltage	DC 14V
Power	4.5W~41W
Battery capacity	2900mAh
Audio power amplifier	8Q 3W
Peripheral interface	Mirco USB2.0
Working temperature	0°C~40°C
Adapter	Input:1.00V~240V~50/60Hz 1.2A Output:14V~3A

Servo		
	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 1 A/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**

Processor	4*Cortex-A17
Operating system	Android 5.1
RAM	2GB
ROM	16 GB
Degree of freedom (DOF)	20 DOF
Network	Supporting WiFi/BT/11 b/g/n quick connection technology
Bluetooth	BT 4.1
Camera	AF 1300w
Microphone	4+1 Digital microphone array
Speaker	8Q, 3W, 940mm 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

**Chest light status indicators**

Charging	Red light
Fully recharged	Green light
Low power	Red light, blinking
Standby	Blue light flashing slowly
Not connected to the network	Voice notification
Being connected to the network	Voice notification
Connected to the network	Blue light

**06 Start Using Alpha 2**

**(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**

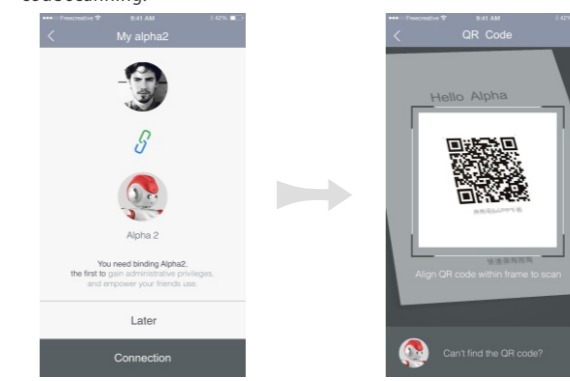
Please register a UBTECH account before using the robot.

Your robot need be bound to your account.

**(06-3). Binding**

Please scan the QR code on the cover of the 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 Start Using Alpha 2**

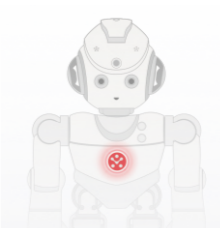
**(06-4.0). Setting up a network connection**

After binding, you'll be regarded as the owner of the robot. Now you can connect it to the network.

**(06-4.1). Starting Alpha 2**

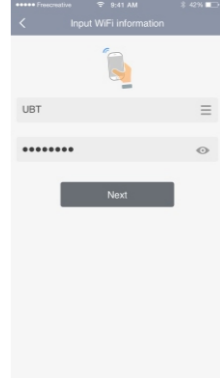
Long press the button located on the robot's chest (for 1 to 2 seconds), until the indicator light starts flashing. Then release the button.

When successfully turned on, the robot will greet you and ask you to connect it to the network.



**(06-4.2). Inputting wifi account and password**

Please make sure that the network name and password are correct.



**06 Start Using Alpha 2**

**(06-4.3). Starting the camera**

Long press the button as displayed on the picture, until you hear camera started successfully!

Then click "next".

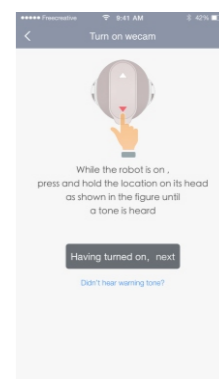
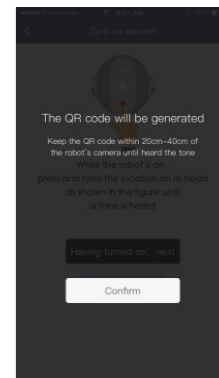
If you don't hear the notification, please click "Don't hear a warning tone" to find out the reasons.

**(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.

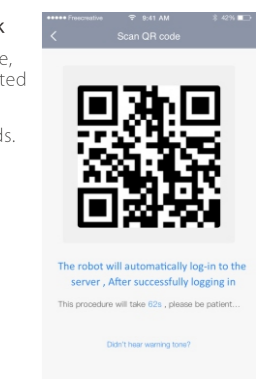



**06 Start Using Alpha 2**

**(06-4.5). Connecting to the network**

After successfully scanning the QR code, the robot will be automatically connected to the network.

The process might take up to 90 seconds. Please wait patiently until you hear the result.



**(06-4.6). Connection**

After successfully connected to the network, the robot will say "connection established".

At the same time, the robot will automatically log in to the server. After successfully logging in, it will be automatically connected 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.

