Shenzhen Tanscorp Technology Co., Ltd,
http://www.tanscorp.com

UNO FAMILY SMART SERVICE ROBOT

Product User Manual

TANSCORP

Safety Warning

Do not drop, disassembly, open, crush, bend, puncture, cutting, microwave, incinerate or paint this robot, Also not allowed to be deformed or insert foreign objects.

- Please carefully treat your robot and its accessories and place on a clean & pollution-free place.
- Please carefully treat your robot and its accessories and place on a clean & pollution-free place.
- Do not expose the robot and its accessories to an open flame or a litten cigarette products.
- Do not expose the robot and its accessories to liquid, moisture or high temperature environments.
- Do not drop, throw or try to bend robot or accessories.
- Do not attempt to disassemble the robot and its accessories, disassembly operation is execused only by authorized professionals.
- Do not expose the robot and its accessories to extreme temperatures, but shall not be less than -20 ° C, the maximum shall not exceed 50 ° C.
- Please do not place the robot on an unstable table, cart, stand, tripod, bracket, or other unstable platform to use.
- Robots can use only specified power type marked on the voltage power label
- Please consult your local relevant regulations about the disposal of electronic products.
- UNO is baby's friends, suitable for children aged three and above.
- UNO execution action command, prohibition baby hold moving parts, avoid to damage external components, causing UNO unable move or uncompleted move.
- When on charging status, UNO can not executive move command.

TANSCORP

FCC Warning Statement

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

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 installedand 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.

FCC Radiation Exposure Statement:

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co - located for operating in conjunction with any other antenna or transmitter.

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Product Profile

Introduction

UNO is a family intelligent robot, which can help people to build more comfortable, convenient and specific life scene, from education entertainment, remote control, family security to life information, reflect the wonderful intelligent life with full range.

Feeling --- multimodal fusion perception, visual; voice interaction twin engine combines local and cloud intelligent voice recognition engine, voice recognition are more richer based on the Internet.

Interactive --- full sensory mode of human-computer interaction, far-field speech recognition: within five meters of natural voice interaction; intelligent multi-sensing information coupling technique: 8 large sensors interactive to enhance magic experience.

Control --- Diversified control way, whole body movement, language control. Controling Robot movement, remote monitoring by voice, touch screen, sensors, mobile phones, pad etc, and phone / tablet can also receive feedback information from the robot.

Battery Installation

1.Use a cross screwdriver to unscrew the screws of UNO bottom battery compartment cover, remove the cover.

2.Relatively plugging in the battery power cable with same color power cord inside the battery compartment, then stuck the battery and power cord into the battery compartment, to pull the flap of preventing the battery from shaking.

3.Install the battery compartment cover and tighten the screws.

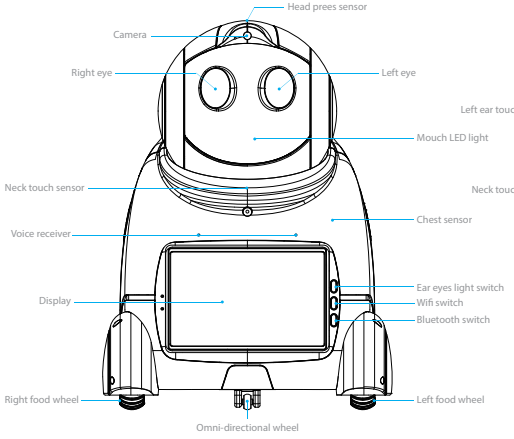
Initial start

Initial start-up, UNO will enter into the active robot interface, you can finish activation according to screen instructions. In order for you to enjoy more features and services, such as: Online Chatting、Video Call etc., we recommend that you choose the Internet to activate the robot.

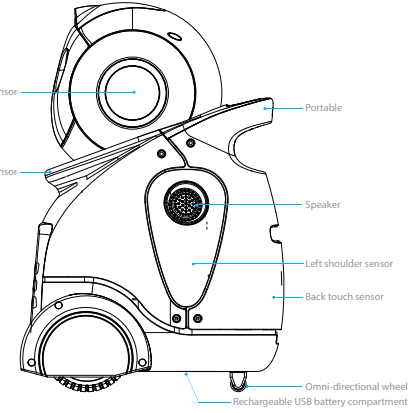
Note:

1. UNO wireless network factory default setting is on.
2. The robot ID factory-configured, users only need to set a password.

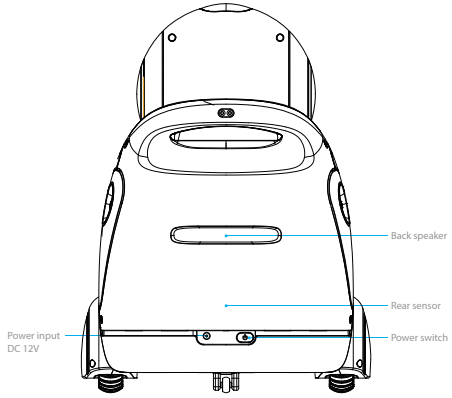
Robot Diagram



Front View



Side View



Back View

Robot Button

Push Key

open or close screen display

Volume +

Push key, Pop-up volume bar and volume increase.

Volume –

Push key, Pop-up volume bar and volume decrease.

Power switch

Power on: push the key with 3 secs, power indicator lights, It represents the robot has started.

Power off: push the key with 3 secs, power indicator off, It represents the robot has closed.

If UNO is under the charge state, press and hold the button for 10 seconds then shut down, or unplug the charger and then perform shut down operations 5.

Robot Operation

Voice Control Operation

◆ Voice control commands

To control UNO to make appropriate language, movement or function jump etc feedback by voice.

Such as: speak “Dance”, UNO perform singing and dancing.

Say “play game”, UNO will enter into game interface.

Say “sing children song”, Uno will enter into children song interface.

Voice control command use time

When waking-up UNO and do not enter the specific application program, can perform UNO voice command operation.

Note: When UNO screen displays standby interface, indicating UNO is at standby mode, using voice commands, "Hi, UNO! " then can wake up UNO.

Voice control command use method

1. After UNO making a "beep" tone, they can say voice command.
2. Normal use: Operate UNO gradually according to the interface guidance.
3. Shortcut use: quickly open your desired interface or application program.
   Such as: In the main interface, Say “chatting”,screen will enter into on line chatting interface.
4. In the non-primary interface use voice commands, “Hi, UNO” Screen can jump to the main interface.
5. Using voice command "return", the screen jumps to the previous interface.

Note:

(1) The icons and buttons name on UNO screen operation interface can be used as voice command.

(2) When using voice commands, try to keep surroundings environment quiet.

(3) Please talk with UNO with English and normal speed.

Touch operation

Interface icons and buttons

On UNO screen interface, click, slide, or long press the icon or button to implement the relevant operation.

virtual keys

After turning on robot, part of the interface of the virtual button (Figure 1) will be hidden in the top of the screen can be sliding down to use for touch.

(Figure 1)

Keys Instruction:

	Volume down	Click the pop-up volume bar and the volume is reduced
	Return	Back to pervious interface or exit the application program
	Main interface	Back to main interface
	Program running list	Pop up backstage running application program list
	Volume up	Click the pop-up volume bar and increase volume

Note: Virtual keys can only touch operation.

Touch Sensor

Under the start-up state, UNO feed backs corresponding voice or action when you touch its body sensor.UNO body has eight sensors: head (Pat), left ear, right ear, neck, chest, left arm, right arm, back.

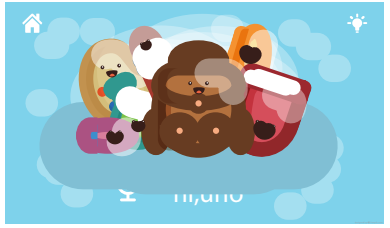
Note:

1. At the standby interface, touch left ear and enter into voice control conversation state, touch other sensor then play its sensor's voice or action.
2. During UNO executes voice or motion, touch sensor interrupts current speech or action, plays sensor corresponding speech or action, continue to voice control conversation after finish.
3. In particular application program,touch sensors make related feedback according to software design.

Interface Introduction

Standby Interface

UNO tacitly enter the standby state after starting up (Figure 2), the next step can be carried out after waking-up UNO, to the next step.



(Figure 2)

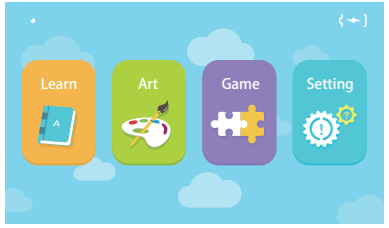
Three operation ways to awaken UNO:

1. Voice control operation: Say the voice command, "Hi, UNO!" , enter the main interface.
2. Touch control operation: Click the left top corner of the screen【 】main interface button, enter main interface.
3. Touch sensor ,touch left ear.

Please click right top corner of the scren if need help【 】help button, enter voice control help interface.

Main interface

UNO tacitly enter the standby state after starting up (Figure 2), the next step can be carried out after waking-up UNO, to the next step.



(Figure 3)

Interface Description:

FIGURE	NAME	DESCRIPTION
	learn	Learning knowledge, cognitive software
	Art	Sing children song, listen music software
	Game	Play Game software
	Setting	Cloud space, system settings, member management

Special application introduction and operation

Chatting

In the chat interface, say relevant voice control command according to screen display(Figure IV), UNO feedback corresponding voice or action after recognition.

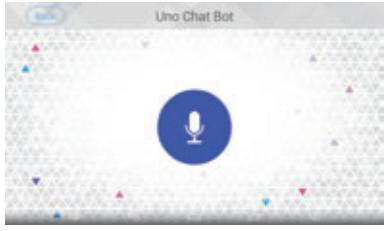
(Figure 4)

Two operation modes for using chating:
1. voice control operation: Say voice command “Talking”
2. Touch screen operation: Main Interface—>learn—>Talking
Note: You can also chat in other applications other than the interface. Such as: the main interface to speak directly to the voice of the chat command “What is your name”, “What can you do”, “Who is your dad”etc.

Close Chatting
When you do not want to chat with UNO, there are two operation modes:
1. Voice control operation: say voice command "Return".
2. Touch operation: Click the botton【 】on the top left corner of the screen.

Chatting

On line chatting(figure 5). Uno will chat after connecting network.



(Figure 5)

Two ways to start the cloud intelligence:
Voice control: Say voice control command ”chatting”
2. Interface Operation: main interface —>learn—>chatting
Two ways to close Chatting:
1. Touch screen operation: touch the【 】return button on the upper left corner of the screen.

God Eyes

Use Video communication and Remote Monitoring function with smart mobile phone.
When connected with mobile phone, two way of use Video communication by God Eyes.
1. voice operation: say voice command. The command format is "I want to find + role name". Such as: "I want to find my mother", "I want to find my father" and so on.
2. Touch screen operation: the main interface -> God Eyes
Remark:
1. The remote control function will be operated in mobile phone.
2. Pls refer to chapter 3 for more details on software download and connection instruction.

Smart alert

UNO will give you instant tips timely according to your setting.
Two ways on alert setting
1. Voice control: UNO will generate smart alert according to your voice command under the operation of smart cloud. , The proposed format of voice command is : alert+time+event. e.g. “pls remind me to participate in meeting at 3 o’clock””pls remind me to join the party of my friends at 6 o’clock”.
2. Screen touching: Home page----house keeper---smart alert.

Setting

Cloud Space

- **App center:** Download more early childhood education, entertainment and interactive function application software.
- **AI Voice library:** Download more small excellent voice, voice and other select voice Push.
- **Video:** Download and upload video.
- **Audio:** Download and upload audio.
- **Photo:** Download and upload photo

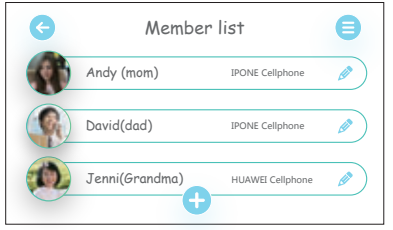
System Set

Setting up network connection, Bluetooth connection, display brightness, sound volume, system and product information.

- Robot ID
- Check the Robot ID and password when robot and phone connection.
- Restore default setting
  Restore the robot system data and default settings.

Group Management

Manage U03S connection access to the mobile phone or other mobile device (see picture VI).



(Figure 6)

Interface button instruction:

- Calling record
- Adding new members
- Edit member information, including profile, name,equipment name, and connection methods.
- Go back

Battery and power adapter

Battery

U03S comes with rechargeable lithium-ion, restrict the manufacturer appointed original batteries

and accessories. Batter performance affected by many factors, including operation temperature, select and use the functions and settings, connect to the port project, the way of use your voice, data, other programs and so on.

Estimate of Battery Service time of:

Normal standby time (Turn off screen) is 720 minutes
Normal standby time (Turn on screen) is 360 minutes
Uninterrupted entertainment operates 300 minutes
Uninterrupted action sports 260 minutes

Remark:

Battery service time may vary depending on usage situations.
The new battery is recommended to be charged, make sure it's at least 10 centigrade before charging. For the first time, please charge at least 3-8 hours to fully activate the battery.

Warning!

Avoid fire or burns:

1. Do not attempt to open, disassemble or repair the battery.
2. Do not crush, puncture, short external contacts or in a fire, water.
3. Do not put it in above 60 centigrade (140 degrees Fahrenheit) ambient.
4. Use only batteries designated for the device to be replaced.
5. please recycle or dispose of a battery in accordance with local regulations.

Power adapter

U03S can be supply power by lithium-ion battery modules or the AC power adapter, the battery will automatically recharge when using the AC power.

- If charge the AC adapter, be sure to perform the following steps:
  1. Plug the adapter into an electrical outlet.
  2. Make the adapter charging head connected to U03S charging jack.
- Charging status:
  1. Flashing rapidly around the ear, eye light turned off, indicating that the machine is in charging.
  2. Left and right ear lights slow flashing, eyes light slow flashing, indicates that battery is full.

Remark:

1. Improper use of the power cord may cause serious damage.
2. Do not use the AC power adapter, remove it from the power outlet.
3. You can charge when the AC adapter is connected to the U03S, and the battery is installed.
4. Need to use the Ground socket outlets when adapter charging, prevent electrical short circuit damage from the machine
5. Barred from baby touch the machine when standby charging.
6. If not using U03S, we recommend that you charge every 15 days once, in order to ensure the battery is in the best active condition.
7. When using the AC power adapter for AC power supply, required battery installed.

How to treat

Do not try to disassemble or modify the battery module, as it may cause an explosion or a battery module leakage.The battery module of the demolition or modification is out of the range of guarantee non KANGLI YOULAN specified battery module. Inappropriate replace battery may cause explosion. The battery module contains a small amount of harmful substances, in order to avoid potential personal injury:

1. Only replace with Specified battery by KANGLI YOULAN
2. Do not put the battery module near fire.
3. Do not expose the battery module in water or rain.
4. Do not disassemble the battery moduble.
5. Do not short-circuit the battery.
6. Keep away children from the battery module.
7. Do not place the battery module in bury garbage. Please dispose the battery module according to local ordinances or normative safety standards.

Mobile phone software

Download and install software

Mobile phone and other mobile device download and install God Eyes software.

Remark:

1. You can scan the God Eyes software two-dimensional code or login Shenzhen TanscorpTechnology Co., Ltd. official website to download software
2. The operating system of Mobile phone or other mobile device should be Android system 4.0-4.3

Connect UNO

Open mobile phone app, according to the prompt of software, follow the steps do relative operations on mobile phone and U03S screen. Once connected, you can interact with U03S by mobile phone.

Remark:

UNO and mobile phone should in WI-FI connection status then can be interconnected.

FAQ

Cannot charge	1. Check the power adapter if is normal working.
	2. Check the interface of adapters and UNO if is normal working.
	3. Plug the charge to check if UNO can startup, if battery still cannot charge after startup, maybe the batter being aging, replacement of the battery is recommended.
No response to voice control	1. Please make sure UNO is on voice control status, if not please go turn on the voice control interface.

No response to voice control	2. Voice is too small, Mandarin pronunciation is not correct, recommend dialogue by use normal speed and correct mandarin pronunciation.
Error response to voice control	1. UNO did not understand your question, it is recommended to use correct Mandarin pronunciation and normal speed to issue voice commands.
	2.Please try to be close to UNO when use voice dialogue.
Mobile phone or other mobile device can not connect with UNO	1. Check UNO and Mobile phone WI-FI if on turn on status.
	2. Reboot UNO and mobile phone network then connect.
Mobile phone and UNO had already connected, but enter God Eyes cannot make sound.	1. Make sure the mobile wireless network is properly connected with UNO.
	2. UNO power runs out, recommend charging immediately.
Mobile phone cannot use the remote control and video call function.	1. Make sure the phone is properly connected with UNO through wireless network.
	2. make sure the network is unblock, such as network data transfer is too slow, it will affect a large extent on use .
	3. Please ensure UNO battery with enough power, keep more than 20% power.

Dancing halfway automatically turned off or suddenly without any action.	UNO battery out of power, recommend charge immediately.
WIFI cannot connect or can not connect with internet.	1. Make sure the internet go flow.
	2. Reboot WIFI then connect.
UNO do no response	1. Need try reboot UNO, please keep holding down Power button for 3 seconds to switch UNO, then start. If UNO still does not respond, remove and reinstall the battery and then start.
	2. Check whether power connected, Robot if power runs out.

Robot Operation

Power adapter	Power Input	AC 110V-240V, 50Hz/60Hz
	Power Output	12VDC/3A max
Battery	Type	lithium
	Rated voltage / capacity	7.4V/4500mA(H)
	Maximum charge voltage	8.4V

Battery	Maximum charge / discharge current	2.0A/3.0A
	charge time	3~4 hour
Structure	Size (L*W*H)	298*271*400mm
	Weight (include battery)	4.6kg
	Material	ABS
Camera	Quantity	Head X1
	stereoscope	CMOS
	dots per inch	1280x720
	visible angle	100~120 °
	Focus type	Fixed focus
	framerate	12~25 FPS
Audio	Loudspeaker	Shoulder X2, back X1
	impedance	8Ω
	frequency range	200-20KHz
	Power	3W
Microphone	Quantity	X2 (breast)
	sensitivity	-32±3dB

Microphone	frequency range	150-12KHz
	impedance	2.2KΩ
LCD Display	Dimension	7 inch
	resolution	1024*600
	material	TFT
	Touch points	10 point
infrared sensor	Quantity	Front X1, Back X1
	Length of Wave	940nm
	departure angle	+/-60°
	watts	8mW/Sr
touch sensor	Head pressure sensor, Left ear touch sensor, Right ear touch sensor, Neck touch sensor, Chest touch sensor, Left shoulder touch sensor, Right shoulder touch sensor, Back touch sensor	
LED	Ear	2 pcs, Blue
	Eye	2 pcs, Blue
	Mouth	1 pcs, Red
	power light	1 pcs , Red/Green

Degree of freedom	Head	Down up 60°, Left right 120°
	Leg exercise wheel	360°
Connect	WIFI	WiFi 802.11b/g/n
	Bluetooth	4.0 (BLE)
Software	System	Google Android 4.3
	infrastructure	ARM
Language	Dual engine voice interaction and automatic speech recognition	Chinese, English

Packing list

UNO
Unit battery
Power Adaptor
Screwdriver
Quick use guide
Product user manual
Certificate

Maintain

Maintain Tips

In order to extend product life, warmly remind:
1. Keep UNO surface clean. When cleaning robot, unplug all cables and turn off UNO, use a soft, slightly damp, Lint-free cloth to gently wipe the robot. Do not use detergent or corrosive chemicals to wipe machines, especially the screen.
2. Keep UNO away from moisture, high temperatures.
3. Avoid to put long time in sunshine, it will lead to the rapid aging of the plastic shell.
4. Avoid crushing machine or sharp objects dashed screen.
5. Please place a cool dry place.

Clean UNO

1. Please use cleanser (Do not contain abrasive powder or strong chemical component, such as acid or alkali) to clean robot.
2. Do not make water get inside the robot.
3. Wipe dry the surface of the robot after cleaning.
4. f there is scratches on the screen, it may be generated when the chassis is being squeezed from external stains. Use soft Dry cloth gently wipe or remove stains.
5. If the stains still exists, use water or a ratio of 1:1 isopropyl alcohol and water mixture of wetting no velvet soft cloth, try to twist and dry the cloth: wipe the screen again.

Help and Service

- You can find the latest news, support information, how to solve problem, find new ways to use UNO or the convenient software to use UNO from Tanscorp website: http://www.tanscorp.com
- Please connect the local distributor.