

# Eggy--the bilingual education robot

## 1. Introduction to Tutoring Robots

Tutoring robot is where the beans science and technology launched a children's bilingual with intelligent robot. Through the voice, image recognition method to identify the contents of pages, which read where to turn! Can play a role-playing, dialogue with the children started the scene, singing English songs nursery rhymes; to provide children with invasive English learning environment; through massive bilingual reading and language interaction to enhance children's ability to express in both English and Chinese; also able to achieve long-range pairs of parents

## 2. Effective child custody and companionship.

- 1) Tutor robot robot three principles:
- 2) I am a peace-loving robot, absolute harmless, also please you love tutoring robots, refused to violent destruction.
- 3) I am a very patient tutor, and please try to tell me what you want to do after my words are finished. As far as possible in my eyes red light flashes when talking. Other times I may not hear your voice. Please try to use the normal speed of Mandarin and I exchange, thank you!

## 3. Tutor boot, shutdown, registration, configuration of the robot

- 1) , boot long press the power button for more than two seconds, until the indicator light to let go.
- 2) shutdown method a. Long press the power button for more than two seconds, tutor can turn off their own robot.  
Method b. Voice command control "I want to shut down", the tutor will execute shutdown instruction.
- 3) where to download with bean: where the bean tutor, but also need to combine the phone where the bean with the APP to use.  
Method a. Immediately open the micro message scanning two-dimensional code, immediately download where the bean with APP.  
Method b. Sweep Code Concerned Robot Add Education Micro Letter to the public, click on the robot plus education micro letter public number "user help", immediately download where the bean with APP. Note: Where beans with APP support Andriod v3.0 above system, iso8.0 above system.
- 4) Registration and login where beans with APP account: complete the download, install, open where beans with APP, registered account and login.

Note: If you have registered a micro-mall account in the "Robot Plus Education" micro-credit public number, you can use the account number (mobile phone number) and password to log in to the APP, without re-registration.

#### 5) Linked network:

To connect to the network, you need to use the phone with the APP for wifi binding, please follow the following steps to connect the network: (network connection process: the phone generates a network of two-dimensional code, give the tutor robot scan recognition). Tip: If your home is using 2.4G and 5G dual-band router, make sure to open the 2.4G band support.

- a. To ensure that the tutor has boot;
- b. Open where the bean with APP, click on the corner "wifi configuration" button;
- c. Enter the configuration wifi page. Tape teaching robot head said: I want to configure the network to confirm that the tutor has responded to the robot, start configuring wifi.
- d. Select the configuration: two-dimensional code configuration, enter the current can access the wifi account and password (Note: the size of the letter can not be wrong), click to generate two-dimensional code button, and the two-dimensional code to tutor robots scan.
- e. And then said to him: "I want to configure the network", then, tutor on the screen will open a two-dimensional code scanning window, at this time tutor to enter the robot to enter the robot, Two-dimensional code scanning status. Then, you need to phone the two-dimensional code to the tutor robot scan, scan is successful, the tutor will issue a "tinkling" ringtones, waiting for tutoring robot link network. Network connection is successful, the tutor will have a voice prompt, said: "Now connect the network."
- f. Binding Tutoring Robots: the need to open the phone where the bean with APP's home page, the tutoring robot binding. Please follow these steps: (Binding process: tutor robot on the screen to generate a two-dimensional code, and then open the bean with APP zone scan can be). The first step: continuous shooting tutoring robot head twice, until the tutor of blush, and asked him: "inquiry account", then, the robot display number and two-dimensional code; or on the warranty card to view the robot number. Step 2: In the use of tutor robot robots, you need to bind a parent account as an administrator, click on the main interface drop-down box button: Binding robot. Step 3: Click to jump to the Binding Device page and select ePAL Step 4: Confirm that the Tutor Robot is connected to the server and click the Start Binding button. Step 5: On the Binding Device Account page, click the scan button in the upper right corner to scan the 2D code on the robot display. You can either enter the robot number or enter the robot number manually, and then click "Confirm Binding" Button. Note: Tutor Robot Robot By default, the first binding user is an administrator. Administrators can add / delete other buddies of the tutor robot. If you need to change the administrator, you need to unbind the relationship. In order to re-bind the tutor robot robot for the administrator.

- g. Unbind: Step 1: Click the main interface drop-down button: Bind the device. Step 2: Jump to the binding page, click "Unbind the device" button, you can release the current binding of the tutor robot.
- h. Friends management: Click the "friends" button, you can manage friends on the tutor of the robot use of the robot. Note: Only the administrator can be friends of the rights management.
- i. Volume and RFID area maps

Volume control in two ways: First, through the voice. In the tutoring robot pending order, through the voice command "voice again big / small point" to achieve the volume adjustment. Second, the two tapping hand tutor robot left ear area, the volume decreases, shoot the right ear twice the volume increases.

The picture card with the RFID card across the top of the home robot can scan the region.

#### 4. The System Function of Tutor

##### 1) Sleep Wake-up:

##### 2) Return to the standby state

a. In any state, the user through the voice command "I want to play other", the robot will be back to standby.

b. When the robot can not respond to user commands issued by the voice command "I want to play other", the robot will return to the default standby state, then the robot can respond to the instruction content.

##### 3) Volume adjustment:

a. Standby, the voice command "big / small sound", you can control the volume size adjustment.

b. Hand-cranking robot tutoring around the ears can be achieved twice the volume of the purpose of the increase (left minus right).

4) Power query: voice command control "report the current power" or "you still have electricity," the tutor will voice broadcast the current power.

5) Network status query: voice command control "report network status", tutor will voice broadcast network status.

6) Login account query: voice command control "report login account", tutor will voice broadcast account situation.

7) Version upgrade: voice command control "I want to upgrade version", the tutor will voice broadcast the new version of the situation, and asked whether the upgrade.

## The Intelligent Companion Function of Tutor

1) RFID book selection, voice selection, remote book selection, voice page selection, voice selection of books

2,) follow the study:

- a. When the robot is on standby, the instruction "XXXX" is the name of the course.
- b. Tutoring robot automatically play an original sound, see the tutor red eye, the child began to repeat.
- c. The tutor will give a score and display the results.
- d. If the score is low, the tutor will automatically repeat the last sentence, up to three times.
- e. If the score is higher, the tutor will automatically play the next sentence.
- f. After completing all the readings, the tutor robot automatically plays back the complete user recording.
- g. Children can use instructions to share their work to send to parents.

3) Learning feedback, real-time translation, English testing, tutoring on-demand robot, recommended, recorded stories, story playback, song cycle, random cycle and other functions. You can voice standby state, the voice command control to achieve personal needs.

4) Remote interaction

Child initiated:

- a. Voice Phone: The child can use the voice command "I want to call my mom / dad" to initiate a parental voice call with the currently bound robot.
- b. Message system: children can voice instructions "I want to see my mother / father's message," take the initiative to see if there is a message.
- c. Network intercom: the child can voice instructions "I want to find my mother / father", launched a voice intercom. Other operations with the network intercom parents initiated.

Note: voice intercom state, if parents do not reply more than 1 minute, the system defaults to the parents in a busy state, automatically switch to chat mode, when the child's voice is no longer distributed to parents.

- d. Readily take pictures

Parents can use where the bean with APP, click the tutor interface robot camera, tutor will immediately take a photo sent to the bean where APP.

- e. Real-time monitoring: long press the phone where the bean with the APP page camera, enter the monitor mode, you can remote video care of children.

f. Readily video: the binding of the tutor in the state of the robot, parents can use the phone where the bean with APP, at any time to inform the tutor to shoot the video back where the bean with APP.

## 5. Fun home tutoring robot

1) Accurate motion control: In the chat mode, the user can voice command "left / right turn a few laps" "left / right line" or "left / right turn X degrees" to control the precise rotation of the tutor robot robot.

2) Riddles: Users can start the guessing game by playing the "riddles we play" speech instruction.

3) On the Tang poem: the user voice instruction "we play on the Tang poem", then start the game on the Tang poetry.

4) Local schedules, weather forecasts, arithmetic operations, voice chime, and historical encyclopedias.

## 6. Tutor the parameters of the robot

- Body material: PC (polycarbonate)
- Shape: egg-shaped
- Height: 165.7mm
- Weight: 880g
- Energy Battery: 5200mAh
- Charger: MicroUSB Interface
- MIC Interface: external 4-wire headset
- Life time: 72 hours
- Working hours: 24 hours
- Built-in MIC isomeric bis
- Two speakers
- Camera: 5 megapixel
- WiFi: 802.11b / g / n

## 7. safety tips

### 1) Everyday use

a. Please use original or manufacturer approved accessories. The use of any unauthorized accessories may compromise the performance of the tutor robot, violate the tutor's warranty, and shorten the life of the robot.

b. Do not expose the robot to strong sunlight to avoid overheating.

c. Do the environment (water heaters, microwaves, hot cooking equipment, pressure vessels near or inside etc.) capable of producing

high-temperature or high-temperature environment and the use of placement tutor robots, in order to avoid damage.

d. Keep your tutor's robot dry and avoid all kinds of liquid entering the tutor's interior to damage the tutor's robot.

e. Do not beat, throw the tutor robot, so as not to damage the display or shell components, or even hurt life safety.

f. Charging only in the 0 - 45 degrees range of normal.

g. Children under 14 years old tutor robots must be conducted under supervision of an adult.

h. Do not activate the rotation function of the tutor robot while charging.

i. Turn off the tutor robot on the plane

## 2) charge of common sense

a. To improve the charging efficiency and ensure the safety of charging, please use 120V AC.

b. Charging process, to prevent the short circuit caused by the charger, so as not to electric shock, damage the charger.

c. To prevent the liquid splashed on the charger, do not wet hand touch the charger, do not speak heavy objects placed on top of the charger, so as to avoid electric shock, damage the charger.

d. Unplug the charger should be properly grasped, moderate force removed.

**FCC Caution:**

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.

Any 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.

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 & your body.