

# User instructions

## Product Description

RoboWizard replaces the NAOqi 2.9 native Android desktop and provides the use of Pepper robot functions with voice interaction as the entry point. Users can directly use RoboWizard to complete basic voice chatting, dancing, photo taking, app launching, remote control, voice navigation and other functions.

## Environment dependencies

### Software environment:

- Depend on NAOqi 2.9.3 and above.

### Hardware environment:

- Pepper 1.8
- Pepper 1.8a (not tested)

## Version History

### Version: Version 1.0.3

Update Date: 2020/04/24

Major version change log:

- Add home page recommendation command: where can you go.
- Add voice command move to target point function.
- Add function to set default map.
- Enter screen saver mode to send out announcements.

Known Issues:

- On NAOqi 2.9.3, the long range navigation accuracy error is large.

### Version: Version 1.0.2

Update Date: 2020/03/26

Major version change log:

- Add remote control mobile function.
- Add the function of prompting the error reporting problems such as license or network of Xunfei NLP.
- Add the function of voice wake up application.
- Add photo function.
- Add dance function.
- Hide the bottom navigation bar of home page.
- Hide the bottom navigation bar of app list page.
- Modify the app launching rules.
- Modify the app display rules on the app list page.

Known Issues:

- Control Pepper to move to the right is not sensitive in the remote movement control function.

## Instructions for use

### Features Overview

RoboWizard provides the following features: Voice Chat, Pepper Remote Mobility Control, Voice Launch Application, and Voice Navigation.

### Voice Chat

RoboWizard provides some default chatting corpus, start RoboWizard and you can chat with Pepper happily.

### Pepper Remote Mobility Control

RoboWizard provides the function of controlling Pepper's movement remotely, the specific steps are as follows:

- First of all, prepare a gamepad that supports Bluetooth connection to Android system.
- Make sure the Pepper power hatch is closed.
- Switch on the power of the gamepad.
- Find ‘Remote Control’ on the RoboWizard homepage and click on it to enter the remote control page.
- If the gamepad is not connected to Pepper automatically, please follow the dialogue box to pair the gamepad with Android Bluetooth settings.
- When you see the rotating gears, you can control Pepper to move.
- Cancel controlling Pepper: just exit the remote control page.

### Voice Launch App

RoboWizard provides a voice launch app feature, this feature evokes the app in two ways as follows:

- By the name of the application to evoke the application. For example, the ‘Open Settings’ voice command can be used to launch the System Settings application.
- By app classification, the rules of app classification are based on the main function of the app, for example, Dance app, only Dance apps are supported at the moment. The integration steps are as follows:
- Evoke the application through the application classification needs some configuration in the application, the application classification evoke should be configured rules are as follows:

Find the AndroidManifest.xml of the app module and configure the meta-data under the element application:.

```
<meta-data
    android:name="qiSDK-app-category"
    android:value='dance' />
```

The value dance of meta-data indicates the app category.

- After configuring and installing the app, evoke the app by voice commands, the voice evocation words can refer to the list of common voice commands. For example: for dance app, use voice command ‘Dance together’ to wake up the dance app.

### Voice navigation

RoboWizard provides a voice navigation function, which uses RoboWizard as the interaction portal to create SLAM maps and control Pepper to move to the target point through voice interaction, the detailed steps are as follows:

- Preparation: First of all, use the map management application [Build Map] in the selected site (...)/.../pepper/2.9/basic/slam.md) and set it as the default map. If a map has already been created, open the Map Manager app to set it as the default map. Close the power hatch (charging port cover), otherwise Pepper cannot move.
- After the preparation work is done, you can use voice command ‘Where can you go’ to find out the target point in the default map that Pepper can move to.
- The voice command ‘Take me to xx’ (xx is the target point that Pepper will move to) starts the voice navigation.
- When Pepper receives the voice command ‘Take me to xx’ for the first time, it will voice prompt ‘Please move me to the origin of the building map, and when it is done, say to me, start positioning’. Push Pepper to the origin of map building and say ‘start positioning’ to Pepper, Pepper accepts the ‘start positioning’ to start initial positioning, and will move to the target point when positioning is finished. After receiving the voice command ‘take me to xx’ again, Pepper will go to the target point directly, without the need to move Pepper to the origin of the map to initialise positioning.
- If Pepper cannot find the target point after receiving the command ‘Take me to xx’, you can add the target point in the Map Manager application by using the voice command ‘Open Map Manager’.

## List of common voice commands

- Dance.
- Command word: dance/take a dance, etc.
- Behaviour: randomly evoke apps classified as dance
- Take photo: \* Command word: take a photo/take a photo together, etc. \* Behaviour.
- Command word: take a picture/let's take a picture together
- Behaviour: Open Photo Studio
- How's the weather today: \* Behaviour: open Photo Studio
- Command word: What's the weather like today / Today's weather
- Behaviour: Pepper broadcasts to the user the current time and the weather in their area
- What would you do: \* Command word: What would you do?
- Command word: What will you do / What will you do?
- Behaviour: Pepper tells the user what it can do
- Guess the number game.
- Command word: Guess the number game
- Behaviour: Pepper plays a game with the user in the form of a conversation
- Tell a Joke: \* Behaviour: Pepper tells the user what it can do.
- Command word: joke/tell a joke
- Behaviour: Pepper tells a joke to the user.
- Voice Navigation: \* Behaviour: Pepper tells a joke to the user.
- Command word: Where can you go?
- Behaviour: Pepper tells the user where it can go
- Command word: Take me to xx (xx is the place Pepper is going to)
- Behaviour: Pepper moves to the place xx