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FP2604

一、Design Change History

Date	Version No.	Change Description	Person in Charge
2025. 07. 15	V1. 0	First Draft	Kiki

二、Test Accessories

Name	Code	Quantity
Control Box	CB.24.42.01	1
Control Box	CB.27.42.16	1
Control Box	CB.25.22.01	1
Control Box	CB.25.42.02	1
Control Box	CB.25.54.01	1
Sleep External Main Control Box	FP.26.04.01	1
Sleep External Sensor	FP.07.07.01	2
Sensor Connection Y-Cable	R12.612.01.175	1
Snore Sensor	FP.26.03.03/PO.16.01.03	1
Remote Control	RF.29.17.01	1
AC Cable	R5.504.01.250	1
Power Adapter	JLDP.10.023.000	1
LED Strip	R5.113.00.011	1
Motor 1	B11359/5-Pin Forward Motor	4
Massage Motor		2

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三、 App Description

Download Link:

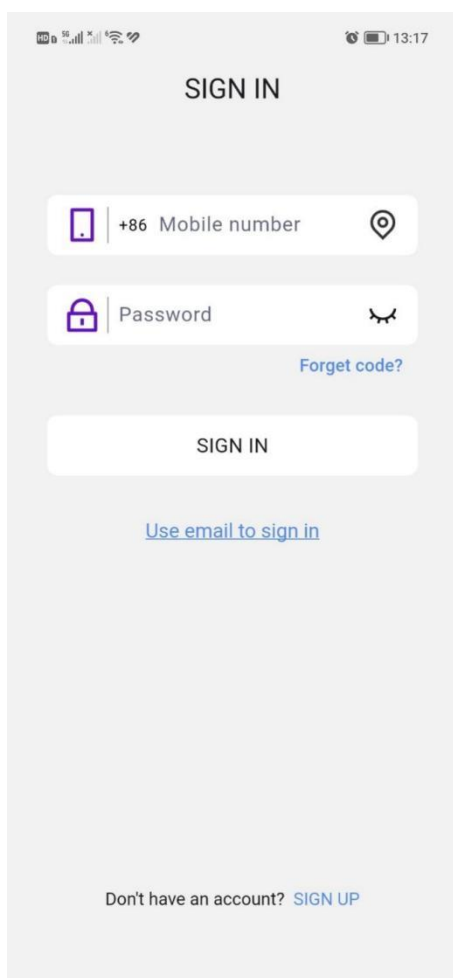


IOS: <https://testflight.apple.com/join/RycZkaWg>

四、 Test Procedures

1.Test Environment Setup

1.1 Registration and Login Module: When a user accesses the application for the first time, the login page will pop up automatically. As shown in the figure below:



Made by/Date

Checked by/Date:

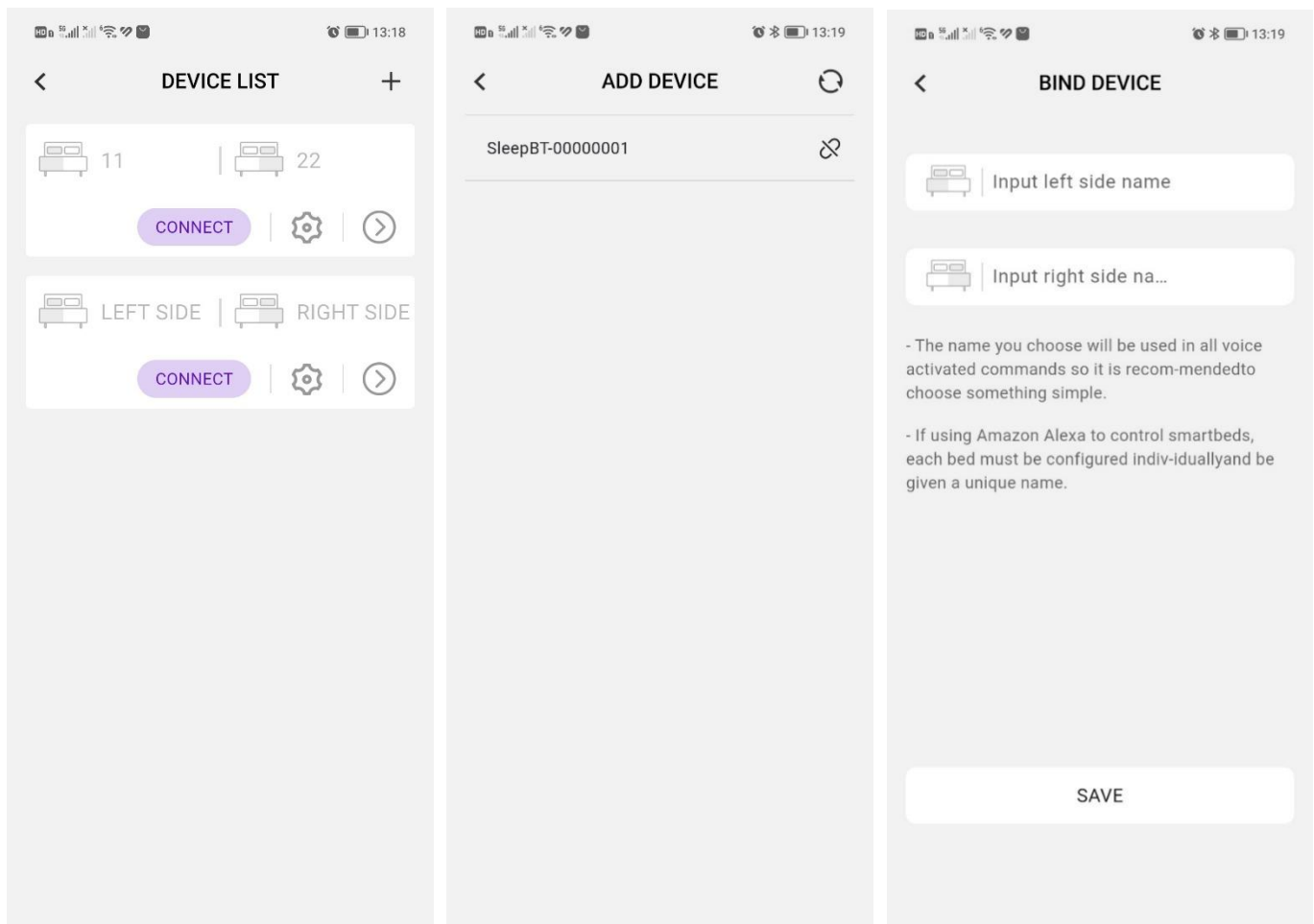
Confirmed by/Date

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- Registered users can enter their mobile phone number and password to complete the login.
- Account data is interconnected with SmartBed, a self-developed project of the company.

1.2. Add Device

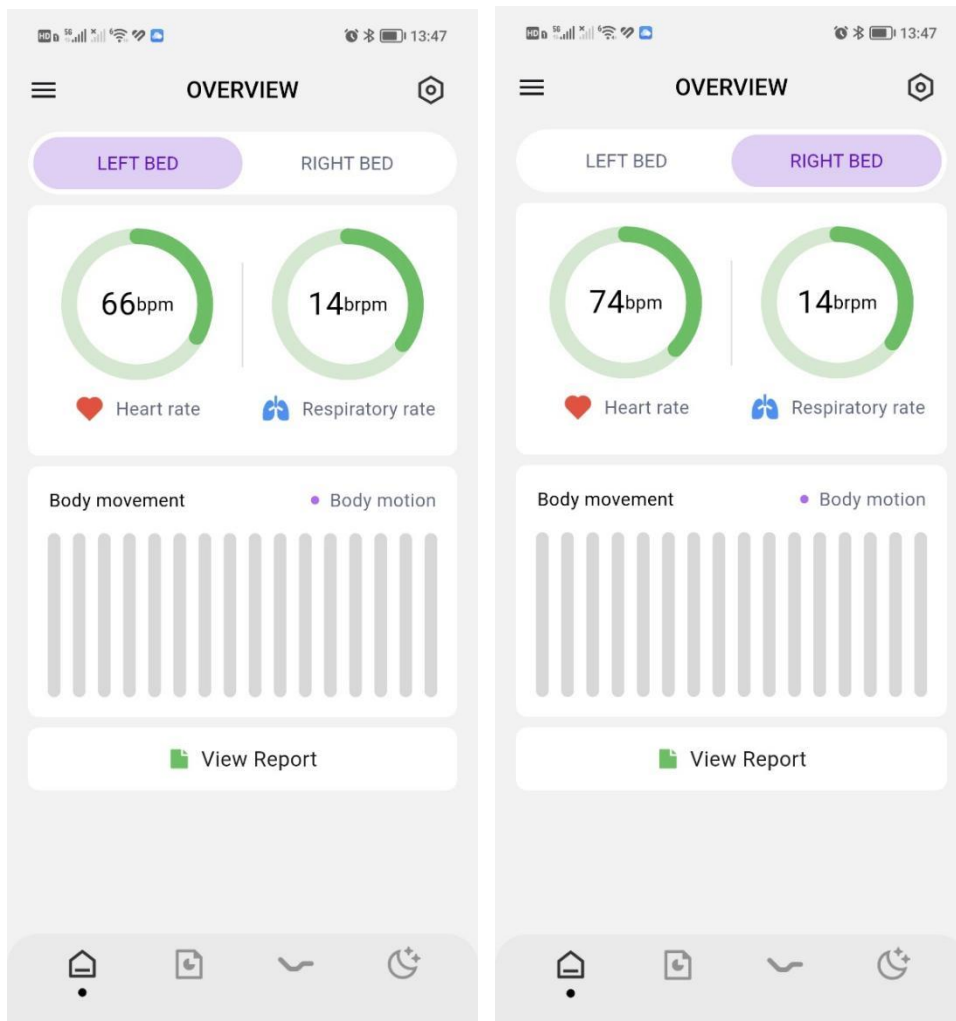
Click the device list icon “”, in the upper left corner to enter the device list. Then click the “+” icon in the upper right corner to access the device search interface. Select the device with the Bluetooth name “SleepBT-xxxxxxx” (entering a device name is optional), and click “Save”. After the device is added successfully, select the newly added device from the device list and click “Connect” to pair the Bluetooth.



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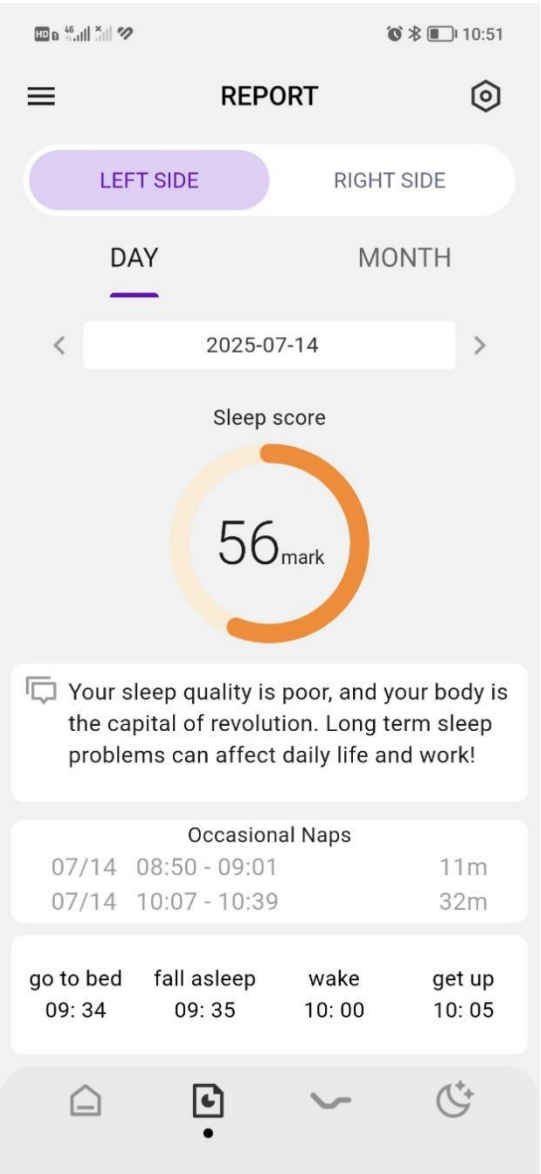
2.Functional Testing

2.1 Sleep Monitoring Interface



- Display the real-time physical status of users on the left and right sides of the bed, including heart rate, respiration, and body movement.
- Click "View Report" to check the daily/monthly sleep reports of the left and right bed users. As shown in the figure below:

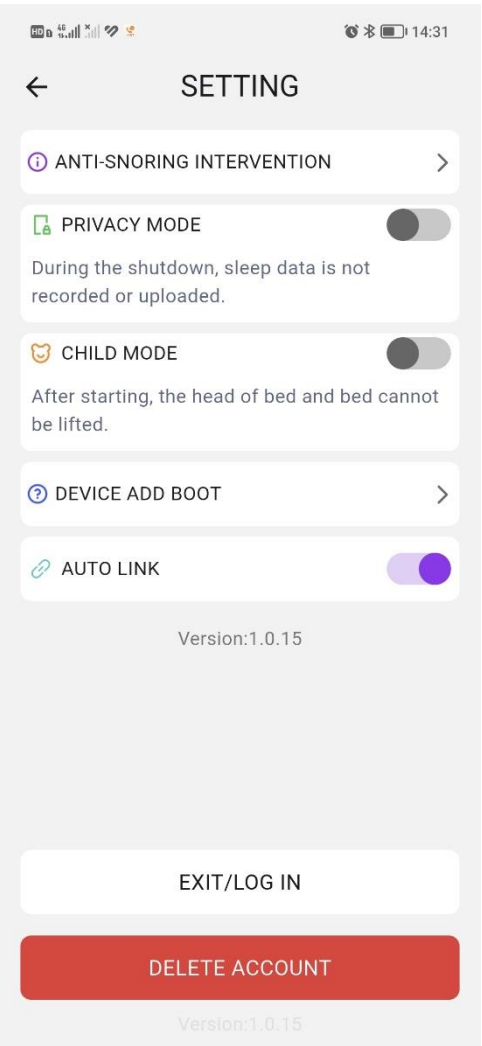
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2.2 Anti-Snoring Test

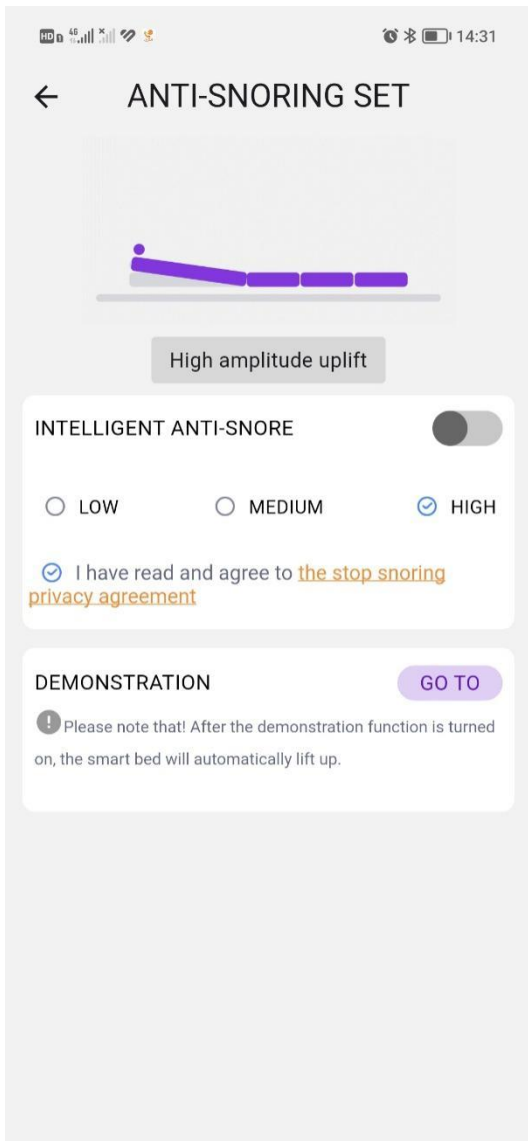
Click the settings icon  in the upper right corner to enter the settings interface, as shown in the figure below:

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- “ANTI_SNORING INTERVENTION”, Enter the anti-snoring interface

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- Anti-snoring intervention is divided into DEMONSTRATION mode and INTELLIGENT ANTI_SNORE se
- The angle options refer to the running time of the motor each time it is lifted, which are divided into LOW (low angle, 2s), MEDIUM (medium angle, 3s), and HIGH (high angle, 4s).
- Demonstration mode: lower the bed -> extend the motor to run for xx -> wait for 10s -> extend the motor to run for xx -> wait for 10s -> extend the motor to run for xx -> wait for 10s -> retract the motor to run for xx -> wait for 10s -> retract the motor to run for xx -> wait for 10s -> lower the bed
- Setting mode: Based on voice snore detection, one snoring status data is recorded

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per minute. If 3 snoring statuses are detected within the latest 5 minutes, the anti-snoring action will be triggered. If no snoring status is detected anymore, the bed will remain in its current state; if snoring status is still detected, the anti-snoring action will continue to be executed.



The logic of the anti-snoring action is as follows:

Demonstration mode: Bed is flattened → Motor extends and runs for xx seconds → Wait for 10s → Motor extends and runs for xx seconds → Wait for 10s → Motor extends and runs for xx seconds → Wait for 10s → Motor retracts and runs for xx seconds → Wait for 10s → Motor retracts and runs for xx seconds → Wait for 10s → Bed is flattened.

Perform such a cycle 3 times. If snoring can still be detected after 3 times, no more execution.

Note: XX is the motor lifting running time according to the gear selection

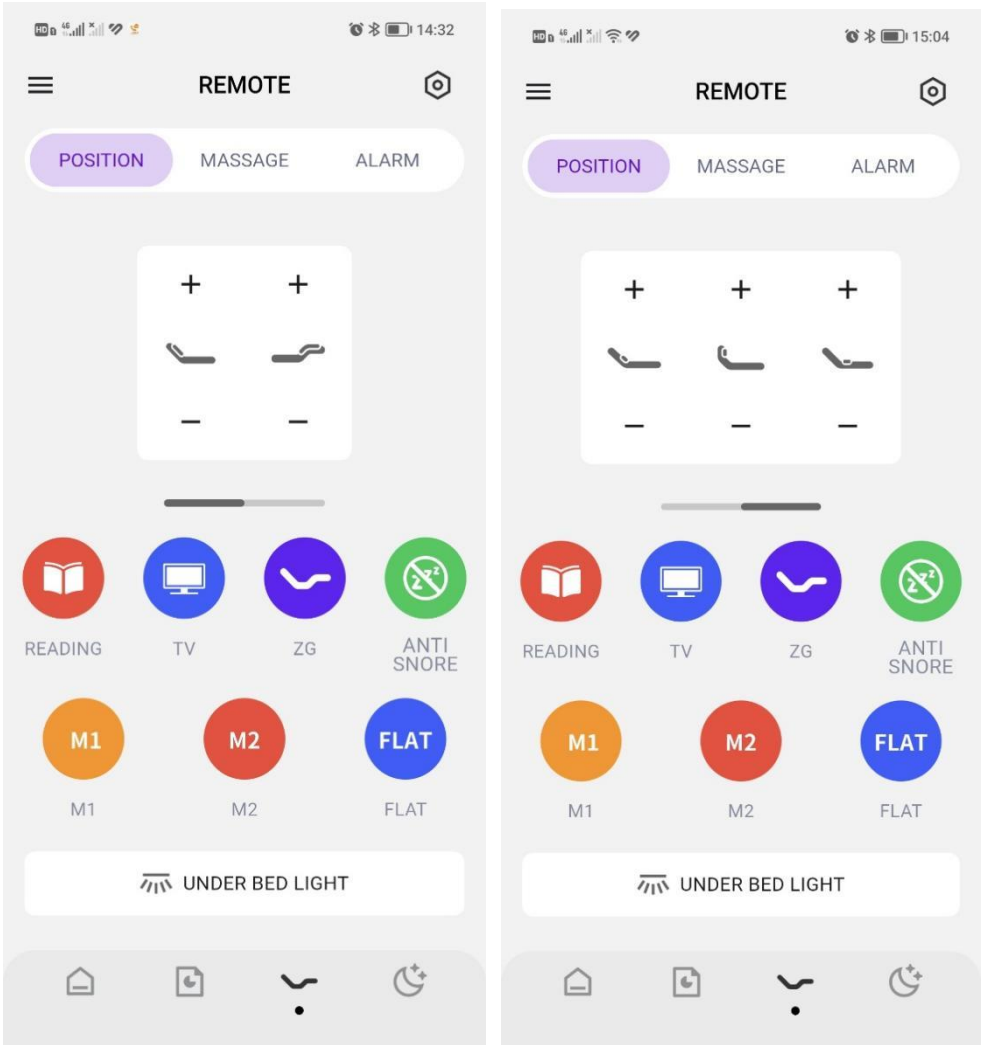
2.3 Bed control interface

The control boxes in the accessories all need to test the bed control function.

The bed control interface is divided into three parts: "Position", "Massage", and "Alarm Clock".

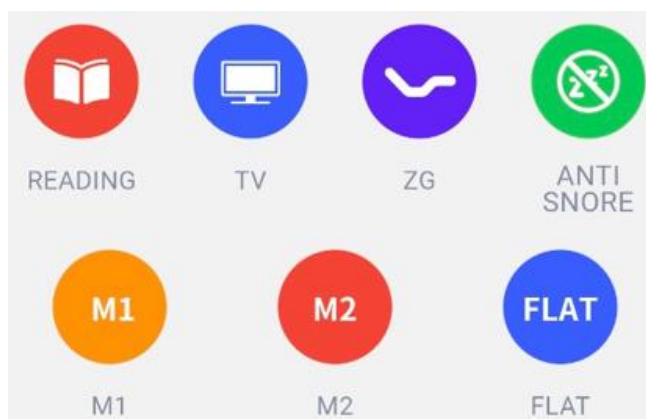
2.3.1 POSITION interface

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- From left to right: head, foot, lumbar support, headrest, fifth motor; long press “+”, the motor extends, release to stop; long press “-”, the motor retracts, release to stop

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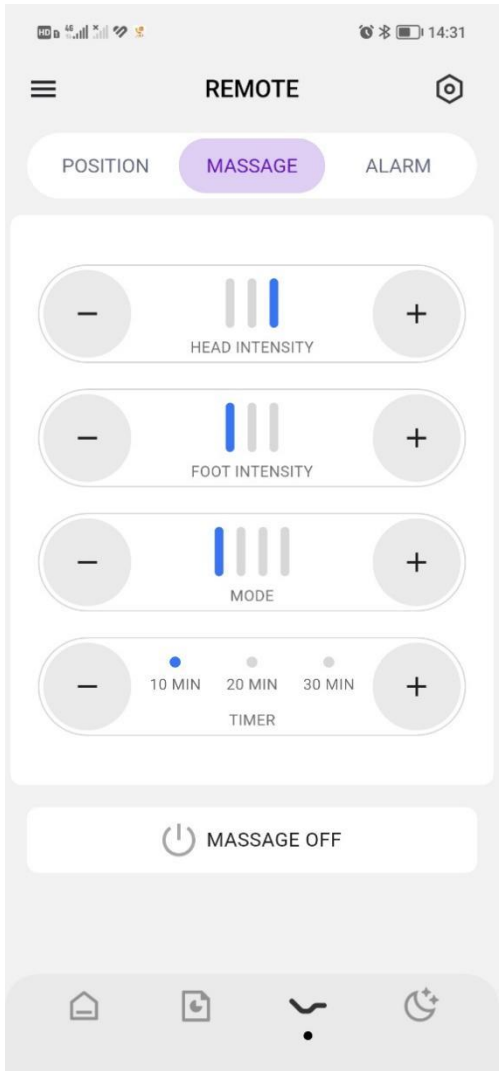
- Click the icon, and the motor will move to the corresponding memory position in the icon; press and hold the icon for 5 seconds to set the memory position.
Click the "FLAT" icon to flatten the bed.

- Click this icon to turn the under-bed light on/off



2.3.2 MESSAGE interface

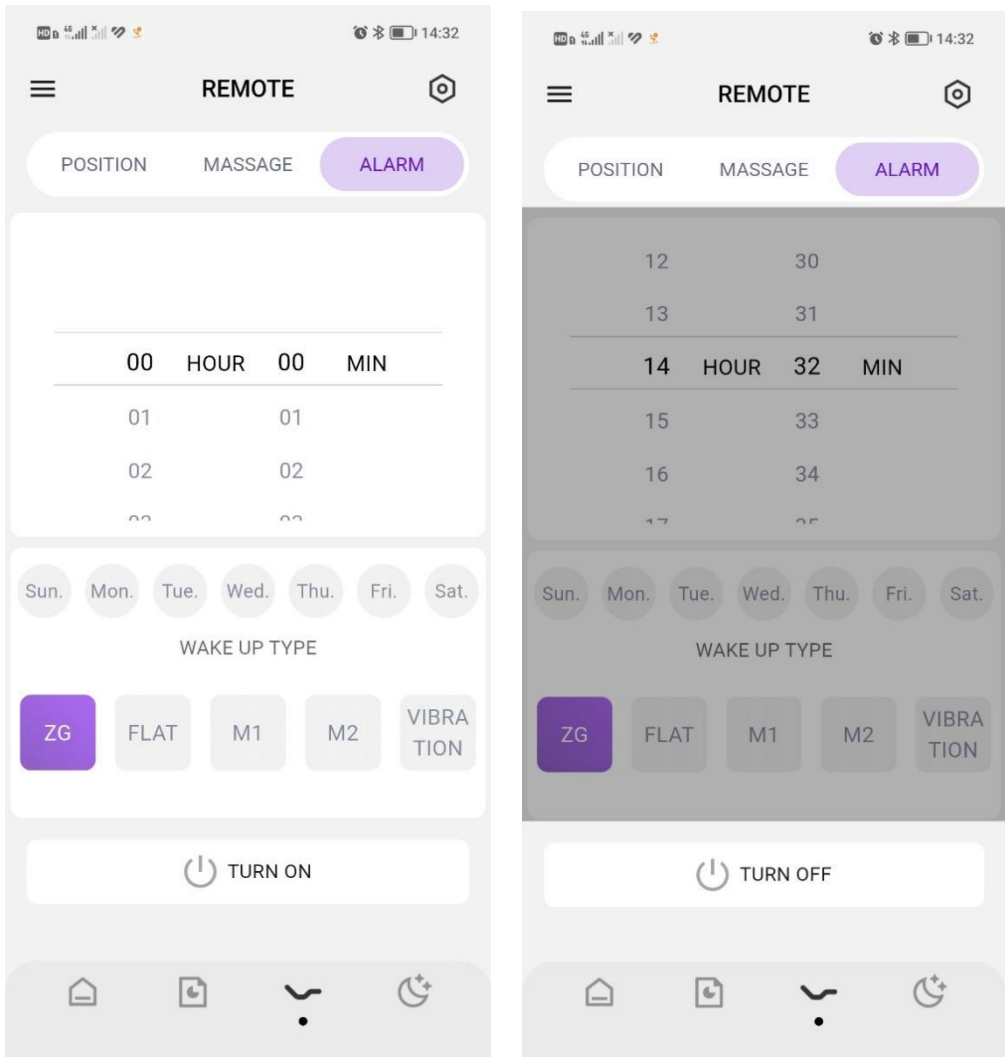
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- From top to bottom are "Head Massage Intensity", "Foot Massage Intensity", "Massage Mode", and "Massage Time". Click " " " " " to set the massage status.
- Click "MESSAGE ON/OFF" to turn on/off the head and foot massage motors;

2.3.3 ALARM interface

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- There is a time picker at the top, which is used to display the time of the current alarm clock, and the current time is selected by default. When setting the alarm clock, the time can be modified by sliding.
- Week date picker: select the dates for which you need to repeat the alarm, on a weekly basis. By default, it does not repeat, that is, all are not lit.
- There are 5 alarm clock modes: ZG, FLAT, M1, M2, VIBRATION, etc.
- The "TURN ON/OFF" at the bottom is the alarm switch indicator, which can be used to turn the alarm on/off.
- Turn on the alarm clock, set the alarm time and mode. When the alarm time is reached, the control box will perform the corresponding action.

3. Software version query

Enter the device list interface, click on the device icon to enter the device

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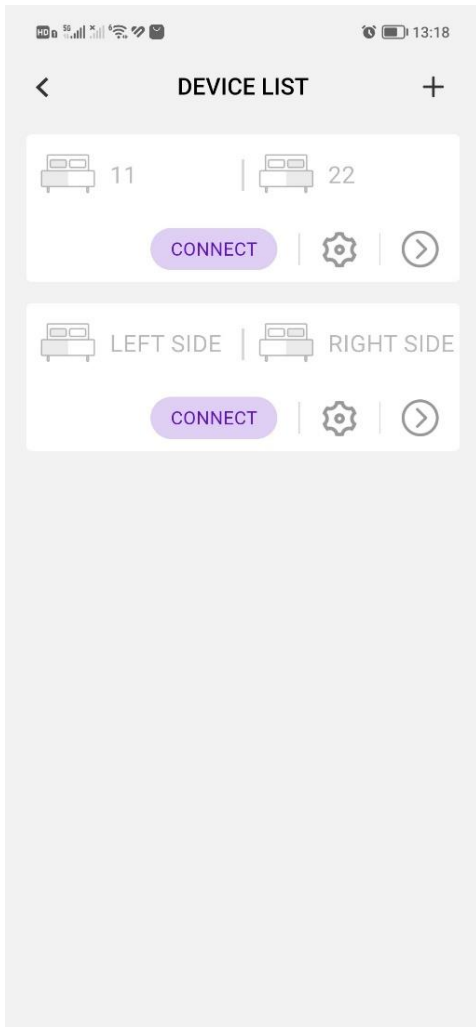
Checked by/Date:

Confirmed by/Date

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information interface, as shown in the following figure:

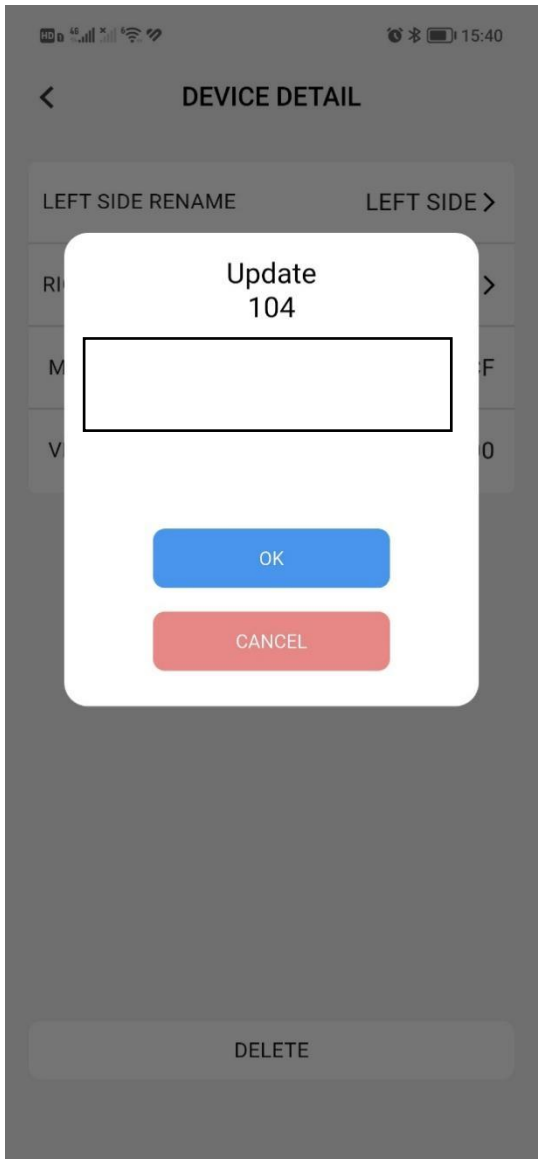
Software version VERSION: V103



4 . OTA upgrade test

Enter the device list interface, click on the device icon  to enter the device information interface. A upgradable version will pop up automatically. Click "OK" to start the OTA upgrade. After the upgrade is completed, check whether the software version has been upgraded.

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4 . Sensor mainboard firmware upgrade test

Enter the device list interface, click on the device icon  to enter the device information interface, click "Sensor Version" to bring up the upgrade interface, click confirm to start the upgrade, and after the upgrade is completed, check whether the software version has been upgraded.

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FCC Regulatory Compliance:

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.

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.

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

RF Exposure Compliance:

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 and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IC Regulatory Compliance

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition au rayonnement du CI établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.