

User Manual

This product is a radar device based on millimeter wave technology. It perfectly realizes non-contact, non-intrusive and uninterrupted detection of human vital signs such as respiration, heart rate and body movement. It achieves millimeter-level detection of vital signs in the human chest and abdomen area, and through technologies such as computing, big data and AI, it can conduct real-time detection of human presence, activity status (body movement index), respiratory waveform and heart rate for both lying and sitting people. It provides intelligent analysis, trend alarm and other functions. The product features easy installation and simple maintenance, and is suitable for scenarios such as home care, nursing home care, smart washrooms, and on-duty monitoring. The product appearance is shown in Figure 1.

Functional Features

- Cutting-edge Technology: Edge computing, big data, AI
- Remote Upgrade: Remote OTA for online firmware upgrade
- Easy Installation: Wall-mounted, simple to use and maintain
- Anti-interference: Strong anti-interference performance, low power consumption and low radiation
- Privacy Protection: Non-contact, non-intrusive, 24-hour uninterrupted monitoring
- Powerful Functions: Real-time detection of human presence, activity status, heart rate and respiration, and sleep report generation through intelligent algorithms

Sleep Report

- **Daily Report:** Light/deep sleep, number of sleep episodes, number of turns, number of bed exits, sleep score
- **Weekly Report:** Compilation of daily reports, generating in-bed duration, respiratory K-line chart, heart rate K-line chart and turn frequency chart
- **Monthly Report:** Compilation of weekly reports, generating average sleep quality, average sleep duration, minimum sleep duration and maximum sleep duration

Installation Instructions

1. **Optimal Position:** Select a suitable installation location and mount the product on the wall above the head of the bed. The optimal installation distance is about 80-100 cm above the bed board, as shown in Figure 2.
2. **Installation and Fixation:** Fix the mounting bracket on the wall with 3M adhesive tape or screws.
3. **Power Supply Wiring:** Insert the USB adapter and connect the TYPE-C plug.

(Horizontal Position: 80-100cm - Figure 2-1; Sensing Area - Figure 2-2; Type-C Interface - Figure 3)

Smart Elderly Care Case Mini Program

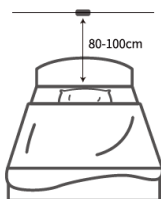


Figure 2-1

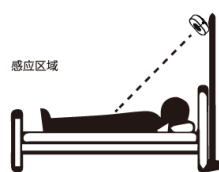


Figure 2-2

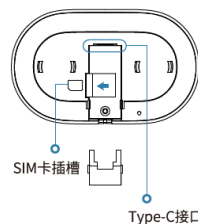


Figure 3



APP

Pairing Operations

1. Dual-network Version Description

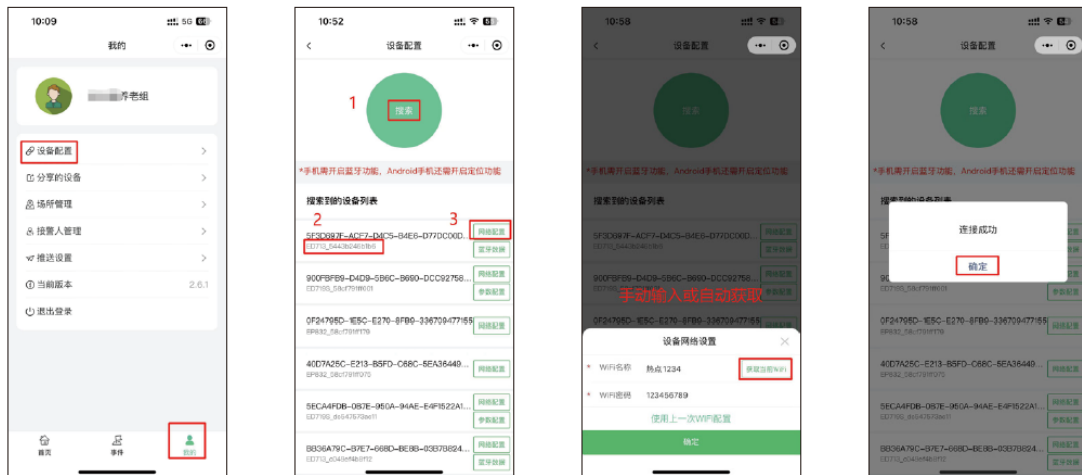
- The dual-network version supports independent network configuration and normal operation via either WiFi.

2. Adding a Device via the Mini Program

- Enter the mini program: Scan the mini program QR code to access the Case Mini Program and log in with your account and password.
- Add a device (as shown in the right figure): a. Click the "+" icon at the bottom right of the home page; b. Enter the device serial number (scan the device QR code or enter manually), set a device name, select the affiliated location (default or custom), and save.

3. WiFi Configuration (Bluetooth and 2.4GHz WiFi must be enabled)

Click **Mine > Device Configuration > Search** > select the device MAC address > **Network Configuration**; enter the WiFi name and password, and click **Confirm**. The device shows online status after successful WiFi configuration.



4. Device Details

Click the device icon to enter the device details page, where you can view real-time monitoring data, sleep reports, firmware version, device logs, etc. You can rename the device, perform reset and parameter settings, and share or delete the device.

Indicator Light Status

(Indicator Light, Type-C Interface, Reset Button, Charging Cable Buckle - Back of the Device)

Indicator Light Status	Description
Blue light flashes after power-on	Initialization for WiFi configuration
Blue light flashes	Flashes when configuring a new WiFi
Blue light turns off	Successful configuration of the new WiFi
Red light flashes	Device is being updated

Installation Notes

- The product should be installed at least 1.5 meters away from curtains.
- This product can only monitor one person. For monitoring two people simultaneously, install two devices with an interval of at least 1.5 meters to avoid co-channel interference.
- The product must be kept away from air outlets (e.g., electric fans, air conditioners, heaters) during use and avoid humid environments (e.g., areas with humidifiers, bathrooms).

4. This product is for indoor use only. Do not cover its surface, and there should be no obstacles (except bedding) between the product and the monitored person's chest cavity.
5. The product is recommended to be mounted on the wall 0.8-1 meter above the head of the bed. Ensure the installation position is stable and non-shaking; improper installation may affect data accuracy.

Usage Notes

1. **False alarm of "no person" when someone is present:** This may occur if the human body is at the boundary of the device's detection range, shielded by metal or extra-thick objects, or in a side-lying or prone sleeping position where the subtle respiratory movements cannot be detected, leading to a temporary judgment of "no person".
2. **Failure of data storage and transmission:** Power failure or network disconnection of the product may cause data storage and transmission failure. If respiratory/heart rate data and sleep reports are suddenly unavailable, try re-powering the device, check WiFi availability.
3. **False alarm of "person present" when no one is there:** Due to the complexity of electromagnetic wave propagation and processing, the product may be affected by environmental factors in actual use. For example, vibrations from facilities such as air conditioners, fans and motors; passing animals such as cats, dogs, mice and birds; swaying mosquito nets on the bed or nearby curtains may all cause the device to misjudge the environment.

(Keep dry, Do not cover, Keep stable, Keep away from air outlets)

Installation Method by Wall Type

Installation Method	Lime Wall	Latex Paint Wall	Silicone Mud Wall	Wallpapered Wall	Wall Cloth Wall	Ceramic Tile/Glass Wall
Screw Fixing	√	√	√	√	√	×
3M Adhesive Tape	√	√				

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.