## Intelligent safety care system configuration

### 1.1 User account creation and device connection

#### Step 1: Registration

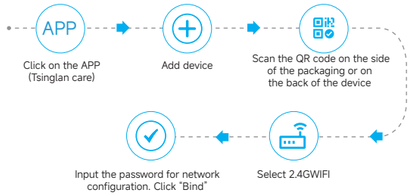
① Fill in the user's email address to get the verification code
② Check the email verification code and fill in
③ Fill in the login password
④ Click "Submit"

#### Step 2: Login

① Enter the registered email address
② Enter the registered password
③ Click "Login"

#### Add Device

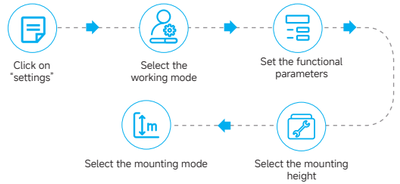
WiFi version




### 1.2 Device function parameter setting

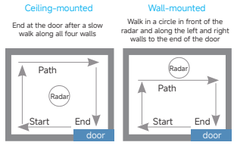
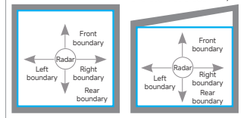
After connecting the device to the power supply and binding it, carry out the function configuration on the APP.

Step 1: Configure the functional properties of the device, and the setting steps are shown below:

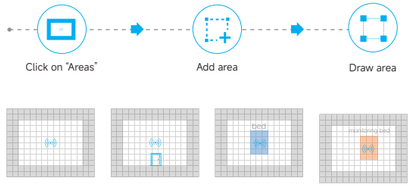



Step 2: Configure the device detection boundary, the setting steps are as follows:


#### How to set the device detection boundary

| Setting | Method | Example |
|---|---|---|
| Auto Identify | Slowly walk along the room in 60 seconds, with the walking path as suggested in the figure on the right, stopping at the door position and click end, the device will automatically generate the boundary and door area. | Ceiling-mounted: End at the door after a slow walk along all four walls. Wall-mounted: Walk in a circle in front of the radar and along the left and right walls to the end of the door.   |
| Manual Input | Use a rangefinder or tape measure to actually measure the distance from the radar to the four walls; do not estimate visually. | Regular room: Measure the distance from the device to all four walls. Irregular room: Take the smallest rectangle inside the room and use it as a boundary.   |

Step 3: Area drawing, set up as follows



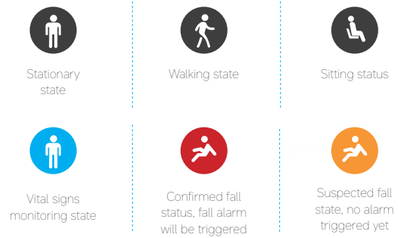

Please draw the Door/Bed/Exclusive Area separately according to the above steps;

### 1.3 Test verification

If the test passes, the installation and commissioning of the device is complete

① Simulate fall, test the fall monitoring, check whether the alarm can be normal (each test should be 1 minute apart).
② lying in bed, test respiratory & heart rate monitoring, check if the display of the relevant values are stable.
③ If there is a problem with the monitoring or can not alarm, you can contact online customer service to assist in device debugging.

Description of icons in functional events in the Tsinglan care interface:




## Product Warranty Disclaimer

1、The warranty period of this equipment is one year. During the warranty period, if the product has quality problems, it will enjoy free repair or replacement service during the warranty period.
Kindly note that the following cases are not in the scope of Tsinglan Technology product guarantee and warranty service:
① Exceeding the specified warranty period;
② Failure or damage caused by misuse, accident, modification, inappropriate physical operation, or due to operating environment, natural disasters, improper maintenance and storage;
③ Normal fading, wear and consumption of the product during use;

2、 We accept returns without reason within seven days from the date the user receives the device. Returns must ensure that they do not affect secondary sales, including:
① The device is intact, not power activated use;
② the device with accessories intact, the device packaging and box is intact;

3、Customized products do not support the seven days no reason to return.

QLanradar

# AI Care Sensor Manual


Tsinglan Radar with speaker, touchlessly guarding life

QLanradar

# Tsinglan AI Care Sensor Manual

## Manual Description

### 1.1 Valid Scope

This manual is a special installation manual for Tsinglan AI Care Sensor and is not applicable to other types of our products. It describes the installation, commissioning, use, maintenance and failure of the product. Please read it carefully before operation.

### 1.2 Disclaimer

This device is an ordinary consumer electronic device, not a medical product; the device adopts advanced millimeter-wave radar technology, as a monitoring equipment, the results are affected by many external factors, there is the possibility of a decline in the accuracy of the monitoring, and therefore the company is not responsible for any omissions or false alarms that may cause problems with the safety of life and property. Factors affecting include but are not limited to:

- Failure to follow manual instructions for proper installation and configuration
- There are interference factors in the operating environment and the limitations of radar technology that do not allow 100% accuracy
- Unstable power supply and network
- Equipment life. This product works 24 hours a day, after long-term use, the device may be aging, the product accuracy and leakage rate and other performance indicators have an impact.

## Product Specification

Tsinglan AI Care Sensor is a millimeter wave device that provides users with people counting, fall detection, voice intercom and more.

### Parameters

| Parameters | Values | Parameters | Values |
|---|---|---|---|
| Overall Dimensions | Length*width*height: 70*70*27mm (without base) | Communications Interface (Wi-Fi version) | 2.4GHz Wi-Fi |
| Weight | 83.1g (without power adapter) | Communications Interface( 4G version) | 4G |
| Operating Temperature | -10℃ ~ 45℃ | Azimuth | 140° |
| Operating Humidity | 5% ~ 95% | Elevation | 120° |
| Mounting Mode | Ceiling-mounted/ Wall-mounted | Modulation | FMCW |
| Protection Class | IP65 | Transmitted Power | 11dBm |
| Power Requirements | 5V USB DC、220V power adapter | Number of Antenna | 4T4R |
| Power Consumption | Average Power Consumption < 5W, Instantaneous Power Consumption < 4W | Detection Area | Up to 24 $m^2$ |

## Installation Instructions

### 1.1 Packing List


Attention! This product is stored at -20 ℃ ~85 ℃ and should be avoided in places where the temperature is too high or too low.

Attention! This product is suitable for use at room temperature -10 ℃ ~ 45 ℃ environment, too high or too low ambient temperature will affect the radar performance and even cause irreversible damage.

### 1.2 Position Selection

Tsinglan AI Care Sensor is available for a detection area of 24 $m^2$ . During actual installation, the length and width of the device's coverage area should be matched with the room layout to achieve optimal coverage. The installation requirements vary based on different usage scenarios, as shown in the table below:

| Usage Scenarios | Ceiling Mount Position | Mounting Height | Wall Mount Position | Mounting Height |
|---|---|---|---|---|
| Living Room | Ceiling | 2-3 m | Wall | 1.6 m |
| Bedroom | Ceiling (centered above the bed) | 2-3 m | Wall (centered above the head of the bed) | 1.6 m |
| Bathroom | Ceiling | 2-3 m | Not recommended for wall mounting | |

### Precautions for choosing the installation location of the device:

When exceeding the detection range, it will not be able to detect any data.

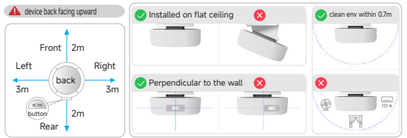
Installation height, please refer to the table implementation, use a distance meter or tape measure to actually measure, do not confirm by visual inspection.

Do not install next to high temperature sources (e.g. heating pads, incandescent lamps) or obscured objects such as ceiling fans/ceiling lights/pendant lamps/cabinets to avoid signal blocking.

Do not allow vibrating objects (such as curtains/air conditioners/fans) within 0.7 meters of the installation location.

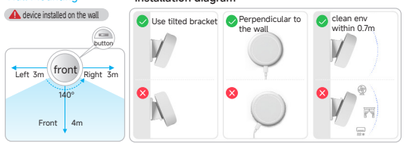
### Two mounting mode available (Ceiling & Wall)

**Ceiling Mounting** — **Installation diagram**




Note: Please mount on a flat ceiling, do not tilt, pay attention to the direction of the bracket paste, the device buttons/indicators perpendicular to the wall.

**Wall Mounting** — **Installation diagram**




Note: Please use the bracket with a tilting angle, and the power cord should be perpendicular to the floor.

### 1.3 Installation Steps

**Step 1: Mounting Bracket**
According to the "Mounting Mode" above, select the mounting position and mark it with a pencil.
According to the needs of the appropriate bracket, you can choose to tear off the bracket film to paste the fixed; can also be used to self-tapping screws for fixed holes.

**Step 2: Insert the device into the base**
Insert the energized device into the slot of the bracket.

**Step 3: Fix the power cord**
Select the mounting position of the cable card and mark it with a pencil.
Put the power cord into the cord clips, and secure it to a suitable position on the wall/ ceiling with the double-sided adhesive that comes with the clips, press firmly for more than 10 seconds.

**Note:** The actual coverage of radar detection and the desired indicator range may differ due to factors such as obstructions or/and interference in the environment in which the device is used.

### "Tsinglan care" APP Download

For iOS: Search for "Tsinglan care" in the App Store

For Android: Search for "Tsinglan care" in the Google Play

For the product installation guide video, please consult our customer service team or check the 'Manual' in the app.

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