60G fall alarm radar sensor (voice light function) ST-FDVT3-WT

大连雷博科技有限公司

Fall alarm radar sensor

Product Model: FDVW3

Product instruction manual

1. Product Description

The fall alarm device is based on the millimeter wave radar point cloud algorithm system, realizes the function of human biological presence perception and human posture recognition, continuously records the human presence, residence time, and body movement range, and real-time alarm of fall posture. It also supports voice broadcast and inquiry function, and has a small night light lighting function. And it can realize the scene linkage and state reporting through the wireless signal Wi-Fi.

This product requires a horizontal top installation, the installation height range of 2.2-2.7m. The factory height of the equipment is set to 2.4 meters. The product performance can be adjusted through the interface parameters.

2. Product Features

Fall posture alarm

Recognize the posture of the human body lying on the ground, and report the background alarm in real time

Static dwell alarm

The human body in any posture, long time to stay still, there will be an alarm

Accurate life detection, human presence detection

Accurate and continuous detection of active, stationary, and unconscious human bodies

Voice alarm trigger function

The fall state will be confirmed by voice output. When danger occurs, the support person will actively wake up the device to report the alarm information ⊠ Small night light lighting function

Someone triggers the lights, no one turns off the lights, voice control on and off the lights

Record of access time

Entry time, movement amplitude record, and departure time record

3. Product running function logic

3.1 Product function runs

Power on the product: the device will detect whether someone lights up the night light, the distribution network indicator light is off, and the indicator light will blink at the frequency of 2HZ after long press the key for 5s (the indicator light is on) (the timeout time is 90s). Use the "sign telemetering" applet to add equipment

Product configuration: On the configuration page, configure the actual installed height cm, fall time (5-180s) and dwell time (1-60min) of the equipment.
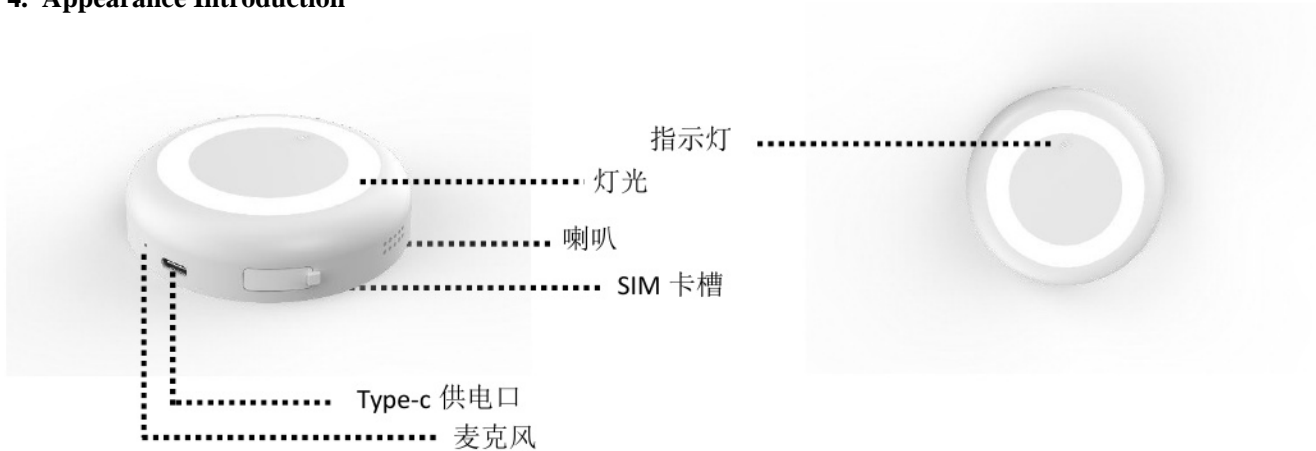
Product features:

Manned/unmanned detection: someone night light on, no night light off; And can turn on/off the night light by voice control,

Fall alarm: if the device reports the fall state, the device will send out voice consultation "Do you fall? / Have you fallen?" ", the user can reply "I fell/ I didn't fall" and the app page will display the fall status and record it.
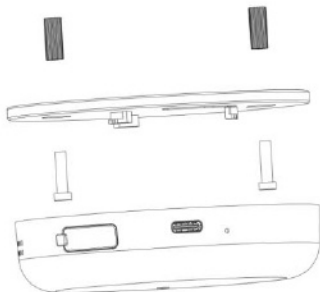
3.2 Broadcast the key words

语音类型	说明	语音识别	设备语音播报
主动唤醒	发生危险，用户主动呼唤设备	来人啊 ｜ 来人呀	请问是否跌倒？ 你跌倒了吗？
主动唤醒	用户主动回复	我跌倒了 ｜ 跌倒了	请稍等我马上通知监护人。 已通知监护人。
主动唤醒	用户主动回复	我没有跌倒 ｜ 没人跌倒 ｜ 无人跌倒	好的
主动唤醒	用户主动呼唤设备	打开灯光	灯已开
主动唤醒	用户主动呼唤设备	关闭灯光	灯已关

4. Appearance Introduction

指示灯

灯光

喇叭

SIM 卡槽

Type-c 供电口

麦克风

5. Installation instructions and installation precautions
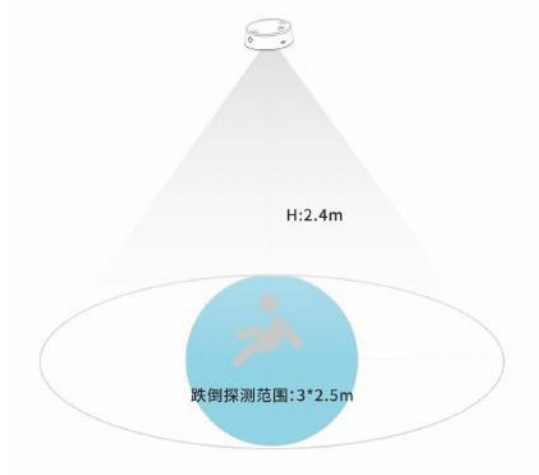
①Fix the product to the top of the house (2.2-2.7m) to drill and embed the expansion screw, or paste it to the wall;

②Push in the expansion screw to fix the base plate of the mounting bracket;

③Align the base of the radar to the clamp of the mounting bracket and fix the radar in the rotating direction;

④Energize the device, distribute the network, and connect the App

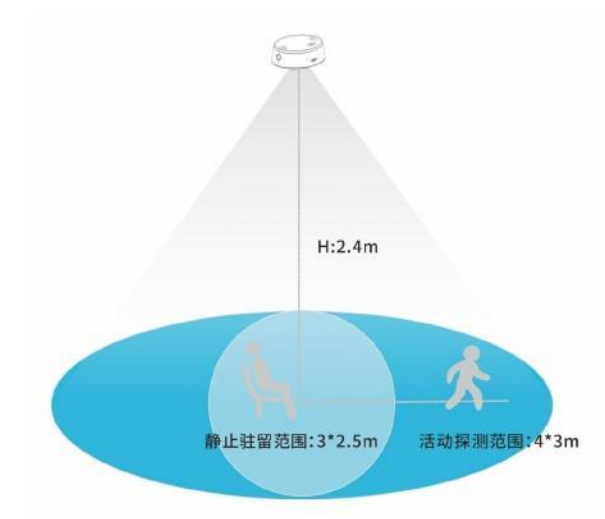*** Ensure the accuracy of radar detection, please install it on top!**

Fall detection

The detection range of static dwell alarm is 3 meters *2.5 meters, and the detection range of fall is 3 meters *2.5 meters. The installation location of radar needs to be designed according to the room structure.

Presence of human body

The range of the top-placed radar is about 4 meters *3 meters when detecting human activity, and 3 meters *2.5 meters when detecting human motionless. The installation location of the radar needs to be designed according to the room structure.

6 . Parameter output

Fall alarm output time

The default reporting time of fall alarm is 30S, and it can be adjusted from 5-180s

Fall switch

When the fall switch is turned off, it will stop the data reporting of the fall alarm

Static dwell switch

When the stationary dwell switch is turned off, it will stop the data reporting of the stationary dwell alarm

Install the height setting

Set corresponding to different installation heights to ensure that the radar can achieve normal performance, and support 2.2-2.8m adjustable

Fall alarm output state

Fall alarm: When there is a rapid fall movement in the detection area, the radar will report the fall alarm

Fall alarm lifting situation

Lifting the fall alarm: when the person in the detection area has the action of getting up and leaving after falling, the radar will cancel the fall alarm report

Static dwell function definition

Dwell alarm: when in the detection area, there is a person static for a long time, the radar alarms according to the dwell time, the default is 5min, 1-60min adjustable. For example, if the person falls and loses consciousness for 5 minutes (the time can be adjusted later), the corresponding dwell alarm will be reported

Travel time record

Record personnel entry time, historical stay time.

Voice alarm trigger function

There is a fall posture, voice greetings to confirm whether the person falls; If there is a confirmed fall, it will be reported, if not, it will be lifted; The subject "someone" actively awakens the fall state inquiry, and reports the fall state when replying "I fell". On the contrary, it does not reply or reply "I did not fall", and the fall state is removed

Lighting function

Someone triggers and turns on the lights; In unmanned environment, turn off the lights; Or voice wake up "turn on the light" "turn off the light" to control the lighting state

7 . Indicator light status & Performance breakdown table

Indicator light status

红色指示灯闪烁　频率 2Hz（90s 超时）	设备配网状态
红色指示灯熄灭	处于正常状态/无按键状态
红色指示灯亮	按键触发
红色指示灯一直常亮	Wi-Fi 配置成功但未连上路由
小夜灯亮	有人存在
小夜灯熄灭	无人

Performance Fault sheet

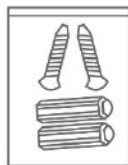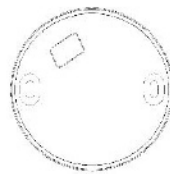| 名称	性能故障
跌倒检测设备	因结构或者材料因素造成表面裂损 指示灯失效 配网按键失效 人体感应失效 小夜灯失效

8 . Packing list

雷达*1　　　　螺丝配件包*1　　　　安装底座*1　　　　说明书*1　　　　电源线*1

* The appearance and list in this book are only schematic, please refer to the purchased physical object. * If the APP function is adjusted, please refer to the latest version

9 . Product parameters

产品名称	跌倒检测设备

产品型号	ST-FDVT3-WT
产品尺寸	87×87×24mm
雷达工作频率	61GHz～61.5GHz
安装方式	置顶安装
探测距离	6-8 ㎡
探测角度	水平 100°&垂直 100°
电源 USB 输入	5V/3A
无线协议	Wi-Fi
工作温度	-10℃~+60℃
工作湿度	20%~85%（无冷凝）

10. Others

Electronic and electrical products hazardous substances restricted use labeling requirements

The name and content of the hazardous substance in the product

	有害物质					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
电路板组件	○	○	○	○	○	○
塑胶料件	○	○	○	○	○	○
金属零件	○	○	○	○	○	○
扬声器	○	○	○	○	○	○
电源适配器	○	○	○	○	○	○

This form is prepared according to the provisions of SJ/T11364.
○ Indicates that the content of the hazardous substance in all homogeneous materials of the component is under the limit requirements stipulated in GB/T26572. X indicates that the content of the hazardous substance in at least one homogeneous material of the part exceeds the limit requirements stipulated in GB/T26572. Note: This product applies the concept of environmental protection design, and the harmful substances are effectively controlled. "x" indicates that the harmful substances are mainly limited by the level of technological development, and cannot be replaced by harmful substances.

Environmental protection period of use:

The label refers to the period (ten years), the harmful substances contained in the electronic and electrical products will not be leaked or mutation under normal use conditions, and the user will not cause serious pollution to the environment or cause serious damage to his body and property by using the electronic and electrical products.

Waste recycling Tips:

In order to better care and protect the earth, when the user no longer needs this product or the product's life ends, please comply with the relevant laws and regulations of the national waste electrical and electronic products recycling and disposal, and give it to the local manufacturer with the national recognized recycling and disposal qualification for recycling. Improper use or disposal may cause impact on the environment and human health.