

Smart Home System Design Solution

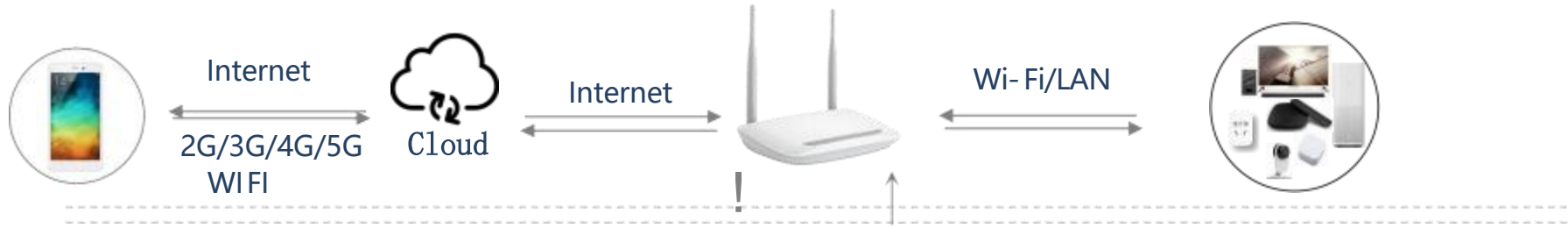
Taisil Limited





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Intelligent control
system 智能控制系统



Application
Layer



Host



Control
Central

<p>Lighting</p>	<p>Sunshade</p>	<p>Security</p>	<p>HVAC</p>	<p>Network</p>	<p>Audio & Video</p>	<p>Water Supply</p>	<p>Energy Consumption</p>	<p>Home Appliances</p>	<p>Furnishings</p>
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Subsystem

Smart Home Solution

Intelligent Lighting Control System

Lighting shapes the quality of your home
With warm tones and exquisite detailed lighting performance
It creates a premium sense of quality for residential projects
The right lighting ignites your passion for life

Intelligent Home Appliance Control System

Leave all complicated remote controls behind
Let life return to simplicity
One-touch cinema mode
Activates all corresponding devices into working status

Intelligent Sunshade Control System

The courtesy of light
It runs gracefully with soft start and stop, and supports scheduled control
Let the sunlight wake up your dreams gently

Intelligent Security & Protection System

One-touch arming, 24/7 protection for your home
The security system is automatically armed when you activate away mode
And disarmed when you activate home mode

Intelligent Health Management System

Full-range supporting health management services
Through the collection and analysis of health data, it provides users with personalized health management services, forms trend management based on user health data, and pushes customized health solutions for users

Intelligent Voice Control System

Your smart housekeeper
Voice control for all smart devices in the whole house
For all trivial things in life, just speak out your needs
"Hello Xiaomao, I'm going to rest."
"Alright, sleep mode has been activated for you."



Functional Scenario Description

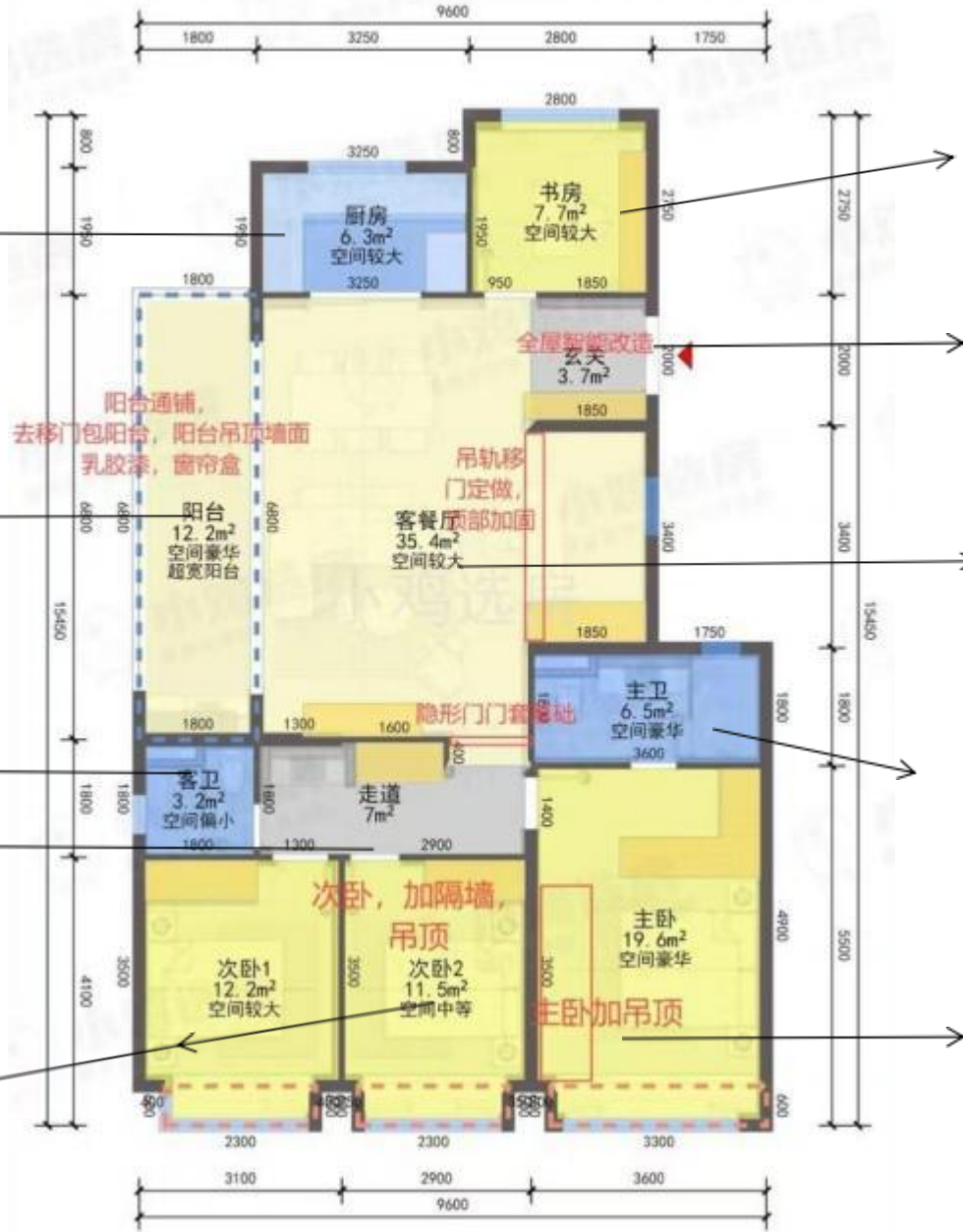
Kitchen: Intelligent safety is the top priority. Equipped with gas sensor and water immersion sensor. In case of emergency, it will send a reminder to your APP, so that you can deal with the danger at the first time.

Balcony: Lighting, curtains. Remote control of curtain opening and closing is available. For example, if the sunlight is too strong and you are out, you can remotely close the curtains via your mobile phone to block the sun and protect the furniture and home appliances in the house from sun damage.

Guest Bathroom: Lighting. Equipped with human presence sensor for auto-on when people enter and auto-off when people leave.

Equipped with human presence sensor for auto-on when people enter and auto-off when people leave. This area is the dividing zone between public and resting areas. An invisible door can be installed to realize one-touch shutdown of all lights, curtains and air conditioners in the public area, for convenient and fast operation.

Second Bedroom: Lighting, curtains, air conditioner. For example, in night mode, the lights in the bedroom, corridor and guest bathroom will be turned on for you in advance, no more fumbling in the dark to go to the toilet.



Study: Lighting, curtains, air conditioner. For example, in reading mode: the lighting adjusts to the brightness suitable for reading, the curtains close, and the air conditioner adjusts to a comfortable temperature.

Entrance Hall: Lighting, mainly applied to home mode and away mode. One-touch leave button turns off all lights, curtains and air conditioners in the house simultaneously. It can be equipped with sensors for auto light on/off, and matched with smart door lock for security linkage and remote unlocking functions.

Living & Dining Room: Lighting, curtains, air conditioner, TV, music system. The warm lights turn on softly, with color temperature adjustable according to scene needs. For example, in dining mode, the living room lights dim gradually, the dining area lights brighten slowly, followed by soft music, the air conditioner adjusts to a comfortable temperature, and the sheer curtains close gently, creating a full sense of atmosphere and ritual for a warm family gathering.

Master Bathroom: Lighting. When the owner gets up at night, the light turns on softly to 10% brightness, non-glaring, safe and without disturbing sleep. Lighting scenes for shower, washing and other modes deliver comfort and convenience. Equipped with human presence sensor, it realizes the function of auto-on when people enter and auto-off when people leave.

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02

Intelligent Light
System
智能照明系统



2700K-6500K Ultra-wide Color Temperature Range,

Dimmable Lights



Turn on the light strip and wall lamp, brightness adjusted to 3%, color temperature set to 2700K. The faint light provides guidance while ensuring basic safety for night waking, and the warm and soft light does not disturb the sleep of your partner.



Illuminance: 20lx

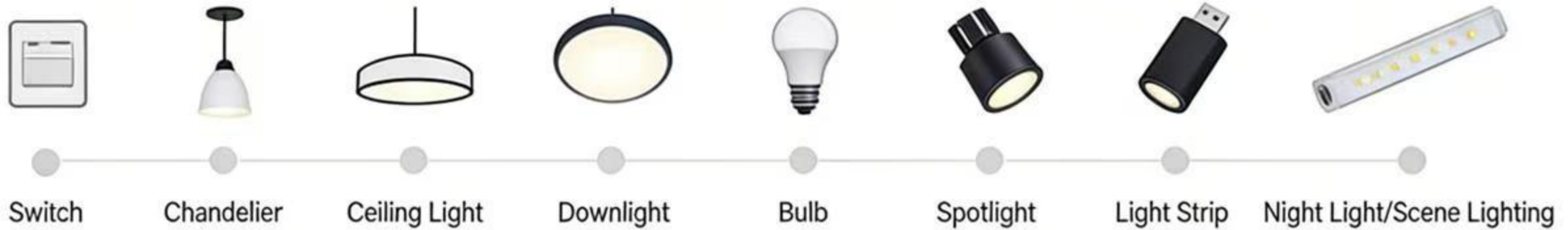


Color Temperature: 2700K



Brightness: Low

Smart Lighting Product Line



Multi-entrance Smart Control



Blue area: Lighting control adopts on/off control mode

Red area: Lighting control adopts dimming mode (0-100%), adjustable color temperature (2700-6500K)



Note: The above quantity is an estimate, and the final calculation is based on the actual installation quantity.



Downlight & Spotlight
4000K: 20 PCS
3500K: 18 PCS



Dual Color Temperature Dimming Driver, Quantity: 45 pcs
Light Strip
4000K: 5m
3500K: 20m



Dual Color Temperature: 40m



Dual Color Temperature Light Strip Dimming Driver, Quantity: 6 pcs



Dual Color Temperature Magnetic Track Pendant Light, Quantity: 4 pcs



Dual Color Temperature Magnetic Track Grille Light, Quantity: 6 pcs



Dual Color Temperature Magnetic Track Light Dimming Driver, Quantity: 2 pcs



03

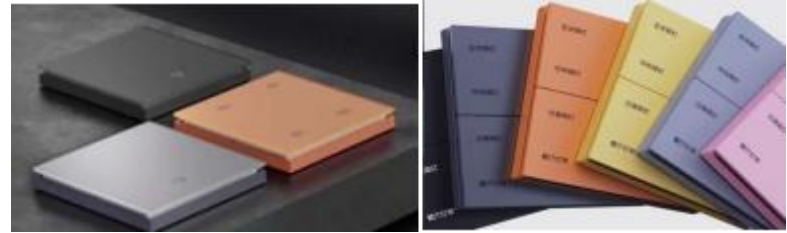
智能面板系统

Intelligent panel system

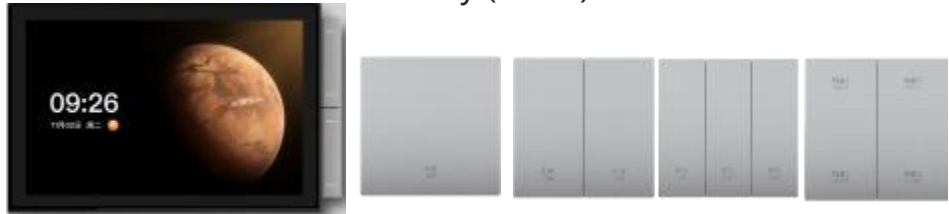
Starship (Metal)



Streamer (AG)



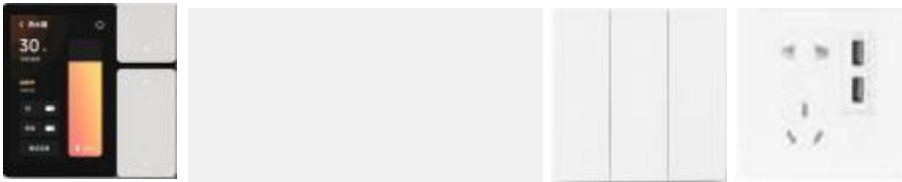
Galaxy (Metal)



Star (Metal)



Lightyear (PC + Painting)



Light Luxury (PC+Metallic)



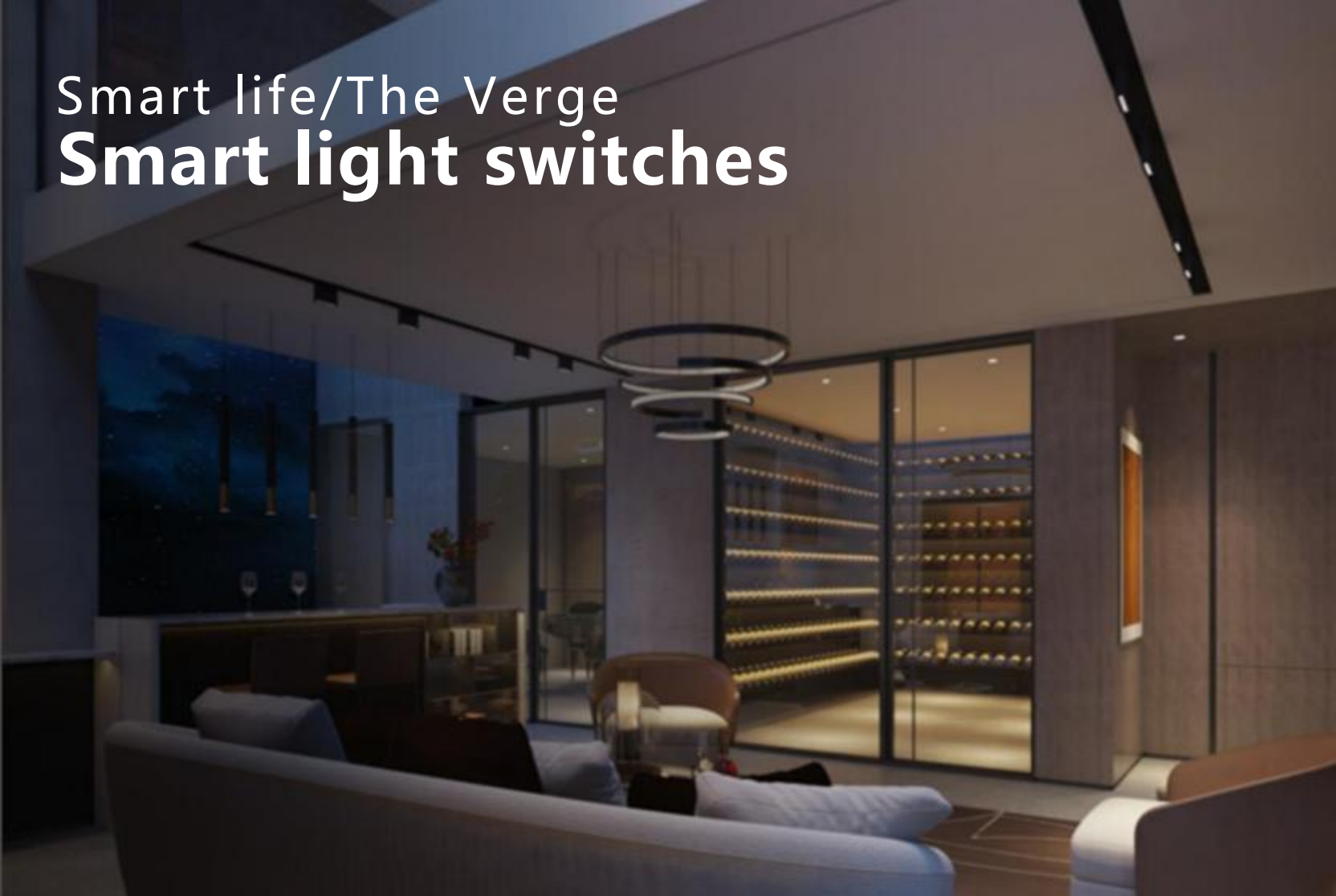
Starry Sky (PC+Paint)



3.5 inch screen with composite switch Xingchen (PC+paint)



Smart life/The Verge Smart light switches



Modular structure,
free combination,
innovative intelligence,
new aesthetics



Remote control



Mechanical reset button



Smart timing



Safe flame retardant

T10 series

Modular structure is an innovative design concept, allowing for free combination of different functions and colors. The design is simple and elegant, and the operation is convenient and intuitive. The product is made of high-quality materials, ensuring long service life and safety. The product is suitable for various indoor environments, such as living rooms, bedrooms, and offices. The product is a good choice for modern homes and offices.



C9 Kemote Controller (Iceberg)

The knob type sensor can sense temperature. The terminal user can switch modes to realize intelligent light control (color temperature, brightness), intelligent curtain control, and intelligent scene control.



【Crystal Version】

- Dawn White (Transparent)
- Cloud White (Frosted)



Communication method: Tuya ZigBee/RF (RF433)/Customizable Communication distance:

About 15 meters without obstruction,

About 8 meters with obstruction Battery powered (CR2450)

Dimming control, switch control, scene control, curtain motor control, etc.

Communication method: TUYA ZigBee / RF (RF433) / customizable

Communication distance: about 15 meters without obstruction, about 8 meters with obstruction

Battery power supply (CR2450)

Dimming control, switch control, scene control, curtain motor control, etc.



【Metal Version】

- Sunshine Gold
- Moonlight Silver
- Quiet Night Black

Light dimmer knob





Three-button smart switch panel*1

Two-key smart switch panel*1

Two-key smart switch panel*1

Four-button smart switch panel*2 + three-key*1+matching socket*2

Four-button smart switch panel*2 + three-key*1+matching socket*2

Four-button smart switch panel*1

4-inch central control screen*1 + three-button intelligent switch panel*1

Four-button smart switch panel*2 + knob remote control*1

Four-button smart switch panel*1

Four-button smart switch panel*3 + matching socket*2

Smart Curtain Opening & Closing Motor



Manual Operation

When Power Off it can be opened and closed manually like a normal curtain after power failure.

Quiet Design

Ultra-quiet gear, enjoy a comfortable life.

Quiet Design

Ultra-quiet gear, enjoy a comfortable life.

Light-touch

Start gently pull to trigger the automatic start of the curtain.

Furamotan

Different color to meet your needs

Percentage Control

0-100% user-defined sliding control.

Percentage Control

0-100% user-defined sliding control.

Timed Automatic Opening & Closing

Set the opening/closing time, and the curtain will open and close automatically.

Remote Control Support remote control, APP control, scene linkage control.

Hardware Parameters

Input Voltage: 220VAC/50Hz
Rated Power: 39W

Environmental Parameters

Operating -10°C \rightarrow 50°C

Functional

Parameterized 12Nm, 1Nm

Installation

Net width in curtain box $> 10\text{cm}$
Double width in curtain box $> 20\text{cm}$
Guide Rail Installation Method
Toys Mounting Site



Three-speed Adjustment



Smart Linkage



Obstacle Detection & Stop



Timer Setting



Intelligent opening and closing curtains: 2 sets (cloth curtains + gauze curtains)
Remarks: Provide motor and track, fabric supplied



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SENSOR 传感器



人体存在传感器

适用于智慧家居系统集成。当毫米波设备检测到人员进入时,可根据空间场景需要自动调节空调、新风、加湿器、地暖、灯光等设备状态,使环境处于舒适的氛围和状态。

Human presence sensor

Suitable for smart home system integration. When the millimeter wave device detects the entry of a person, it can automatically adjust the status of air conditioning, fresh air, humidifier, floor heating, lighting and other equipment according to the needs of the space scene to create a comfortable environment.



人体移动传感器

抗射频性能优异,最大支持10m感应距离。适用于安防报警场景、家居联动场景、医疗养老看护、公共场所等。

Human motion sensor

It has excellent anti-RF performance and supports a maximum sensing distance of 10m. It is suitable for security alarm scenarios, home linkage scenarios, medical care, elderly care, public places, etc.



烟雾报警器

可广泛用于住宅、休闲厅、咖啡厅、歌舞厅等需要进行火灾安全报警监测的场所。

Smoke Sensor

Smoke alarms can be widely used in residences, lounges, cafes, dance halls and other places where fire safety alarm monitoring is required.



燃气传感器

用于检测可燃气体的泄漏,预防气体泄漏造成的危害,探测器选用高稳定性半导体式气敏传感器,具有稳定性高、灵敏度漂移小等特点。

Gas sensor

It is used to detect the leakage of combustible gas and prevent the harm caused by gas leakage. The detector uses a high-stability semiconductor gas sensor, which has the characteristics of high stability and small sensitivity drift.



Water intrusion alarm induction: 1
When there is a water leak, the sensor will detect the alarm, and the mobile app will remind or link the emergency scene

Gas alarm induction: 1
When there is a gas leak, the sensor will detect the alarm, and the mobile phone APP will remind or link the emergency scene

Human presence sense: 1
When people come, the lights are turned on, and when people leave, the lights go out



Human presence sense: 1
When people come, the lights are turned on, and when people leave, the lights go out

Human presence perception: 1
person comes to turn on the light, and the person goes out the light

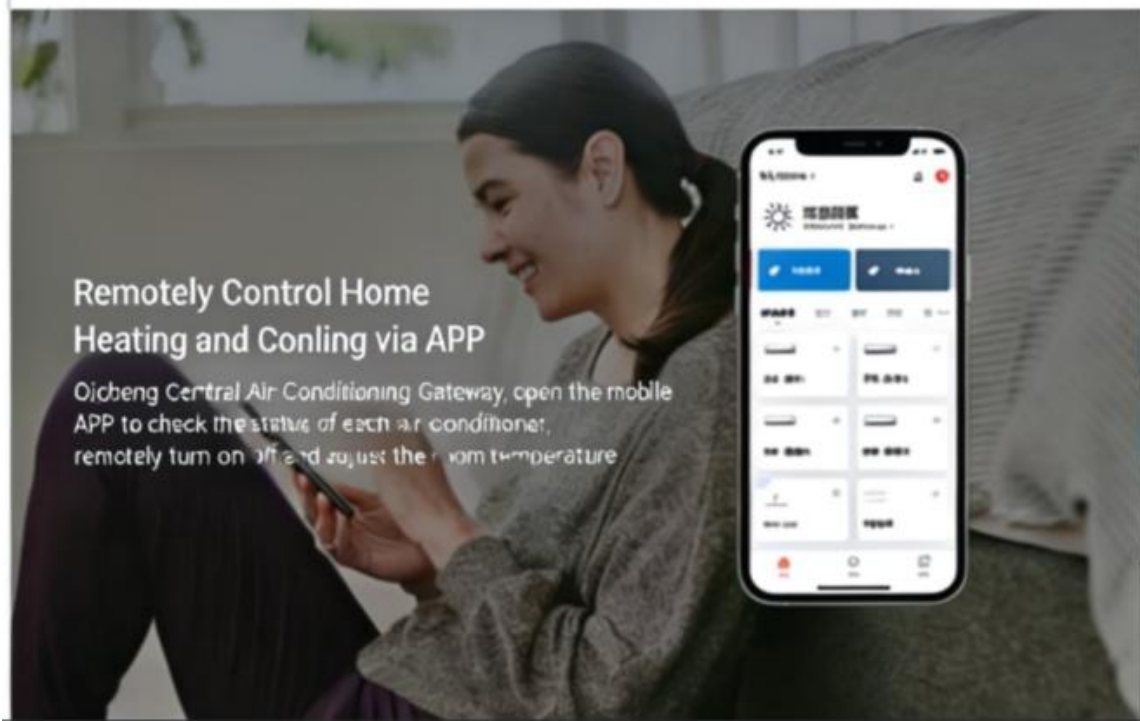
Human presence sense: 2
When people come, the lights are turned on, and when people leave, the lights go out



Zigbee Version
VRF Central Air-Conditioning

集中管理 | 远程分控 | gateway

Centralized Management | Remote Control |
 Voice Control



Remotely Control Home Heating and Coning via APP

Diobeng Central Air Conditioning Gateway, open the mobile APP to check the status of each air conditioner, remotely turn on / off and adjust the room temperature



Easily connect to the world's mainstream AI voice platforms



与全球智能生态互联互通



隐藏锂电池
Hidden lithium battery

可视对讲
Video intercom

4.5寸高清显示屏
4.5-inch HD vision

多重安防
Multiple security

100W高清摄像头
100W HD Camera

3D人脸识别 (可选)
**3D face recognition
(optional)**



SMART DOOR LOCK 智能门锁

基本参数

尺寸	前:411x77x19;后:408x84x30 (mm)
材质	铝合金
颜色	黑
电源	4200mAh聚合物锂电池
开锁方式	人脸/指纹/密码/卡片/应急钥匙/ 远程开锁/组合开锁

BASIC PARAMETERS

Dimensions(mm)	Font: 411x77x19; Back: 408x84x30
Materials	Alumium alloy
Color	Black
Power supply	4200mAh Lithium-ion Battery
Unlock menthod	Face/Fingerprint/password/card/ emergency key/smartphone/ combination mode



3D Face Recognition Smart Lock: 1 pc
 Mobile APP remote unlocking, fingerprint, password, face, key unlocking. Support scene linkage.

Voice-controlled speaker: 1 . Voice control scenes, devices, music.

VRF Central air conditioning controller: 1 pc
 Control all air conditioners at home, support mobile phone remote control, scene linkage control