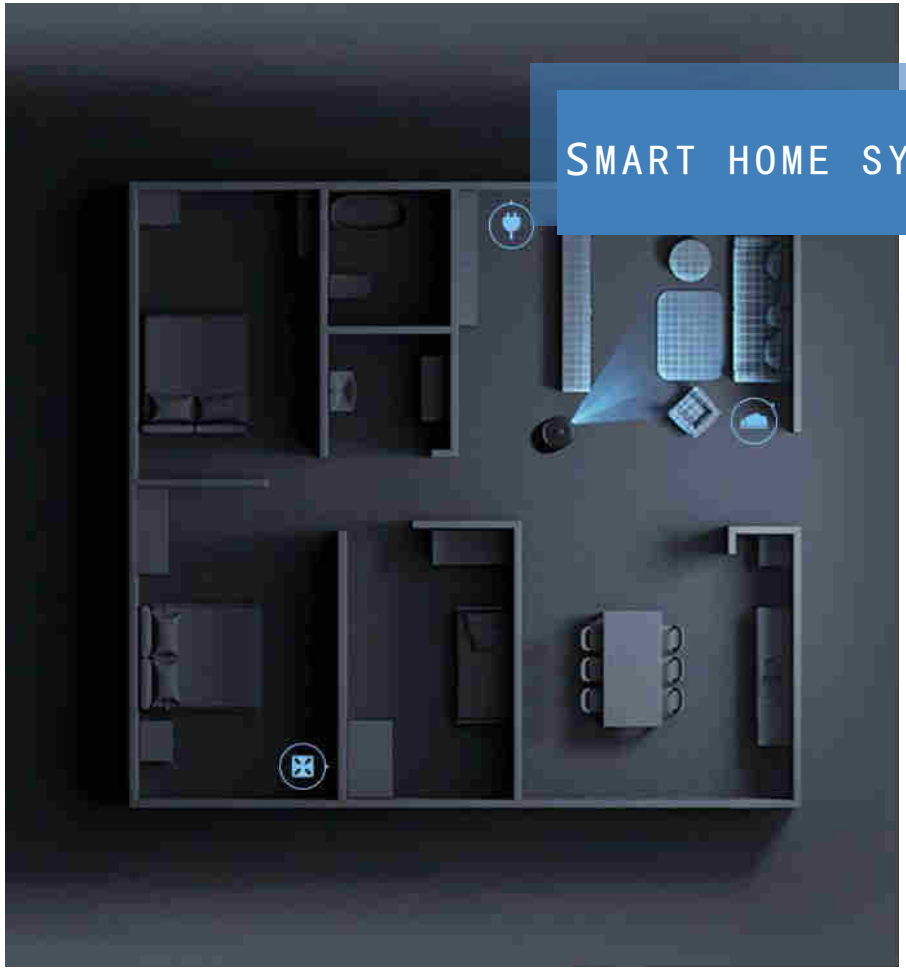


1 System Introduction

JOINET 众能科技

Smart Home System



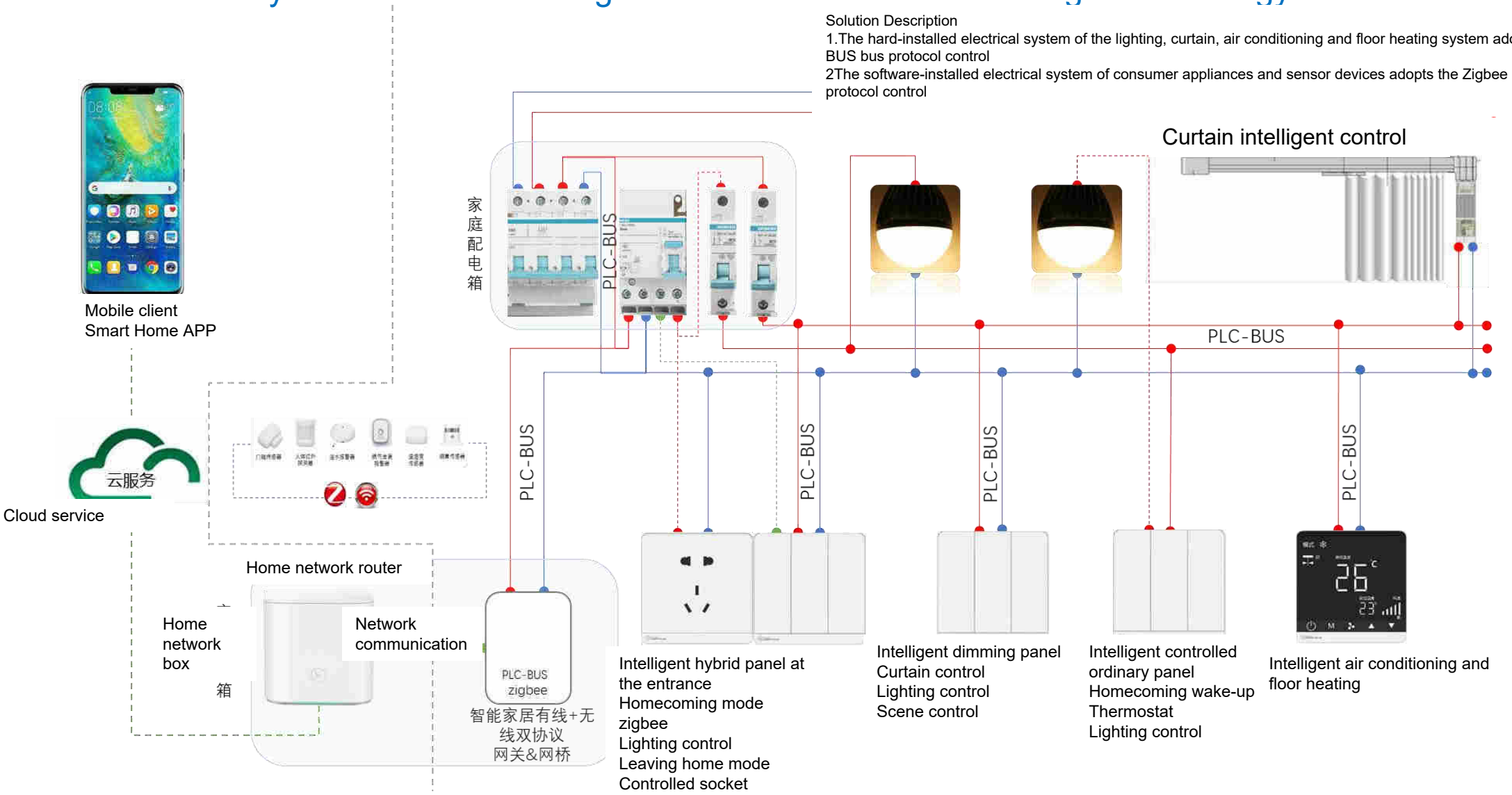
Smart home system is a kind of use of advanced computer technology, network communication technology, integrated wiring technology and modern control technology, the various subsystems related to home life organically combined together.

These subsystems include lighting systems, environmental control systems, security systems, audio and video systems, intelligent home appliance systems, etc. Through overall management, smart home systems can make home life more comfortable, safe and effective living environment.

Smart home system

System architecture diagram of wired + wireless converged technology solution

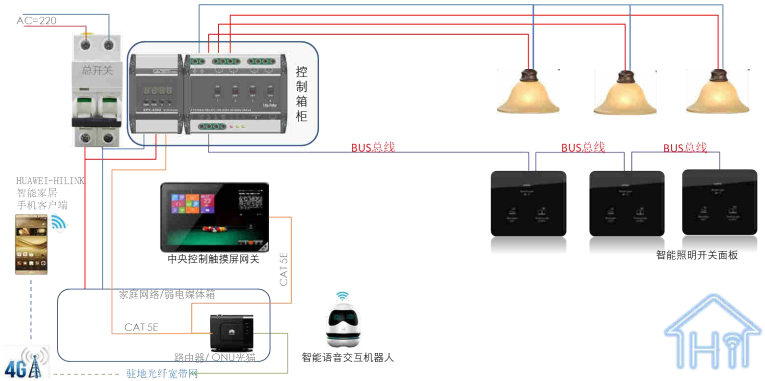
Solution Description
1.The hard-installed electrical system of the lighting, curtain, air conditioning and floor heating system adopts the KNX or PLC-BUS bus protocol control
2The software-installed electrical system of consumer appliances and sensor devices adopts the Zigbee and wifi wireless protocol control



Smart Home System

System architecture diagram of wired + wireless converged technology solution

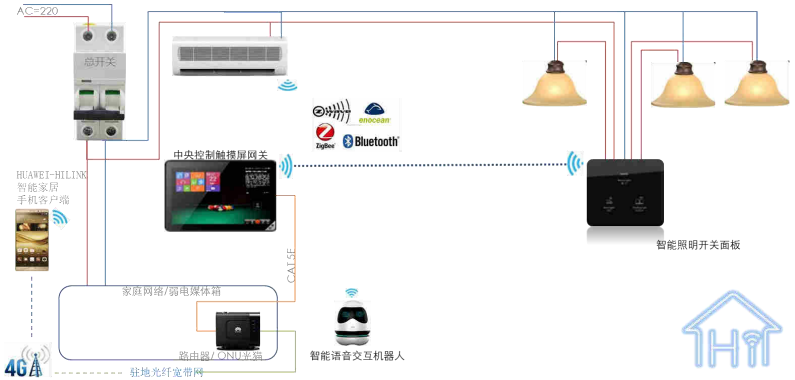
①Star structure bus system



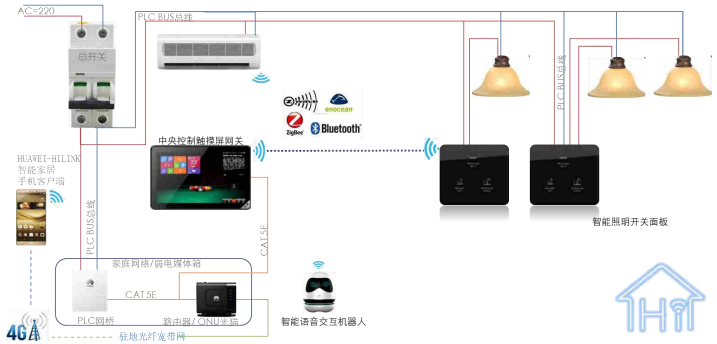
②Distributed structure bus system



③Distributed architecture wireless system



④Distributed structure bus + wireless system



Smart Home System

Technology and economic analysis of wired and wireless whole house intelligent home system

Comparative analysis index	PLC+ wireless system	other	
		Wireless	Wired
Embedded pipe analysis	The standard specification No additional embedment required	off-standard	off-standard A large increase in embedment
System wiring analysis	Standard specification Routing optimizability	off-standard	off-standard Mass wiring
Network structure analysis	Simple	Simple	complicated
Reliability analysis	High	Low	High
Stability analysis	High	Low	High
Flexibility analysis	High	Middle	Bad
Extensibility analysis	High	High	None
Black and white electrical compatibility analysis	Compatible with a large number of rich ecological products	Less	agecia
Interconnection analysis	Strong	Strong	weak
Maintenance analysis	Social general electricians can maintain and repair	Electricians with certain IT ability are required to maintain and repair	Long-term dependence on the implementation of unit maintenance and maintenance, difficult to replace
Maintenance cycle analysis	Repair quickly	Slow Repair	Super slow repair
Cost resulting analysis	Moderate	Low	High
Cloud platform capability analysis	Strong, Sustainable	week	week
Comprehensive Analysis Overall Evaluation	☆☆☆☆☆	☆☆	☆☆

SMART HOME

JOINET 众能科技

Intelligent Lighting System

Dimming Lighting
RGB Lighting

Intelligent Sunshade System

Intelligent Opening and Closing Curtain

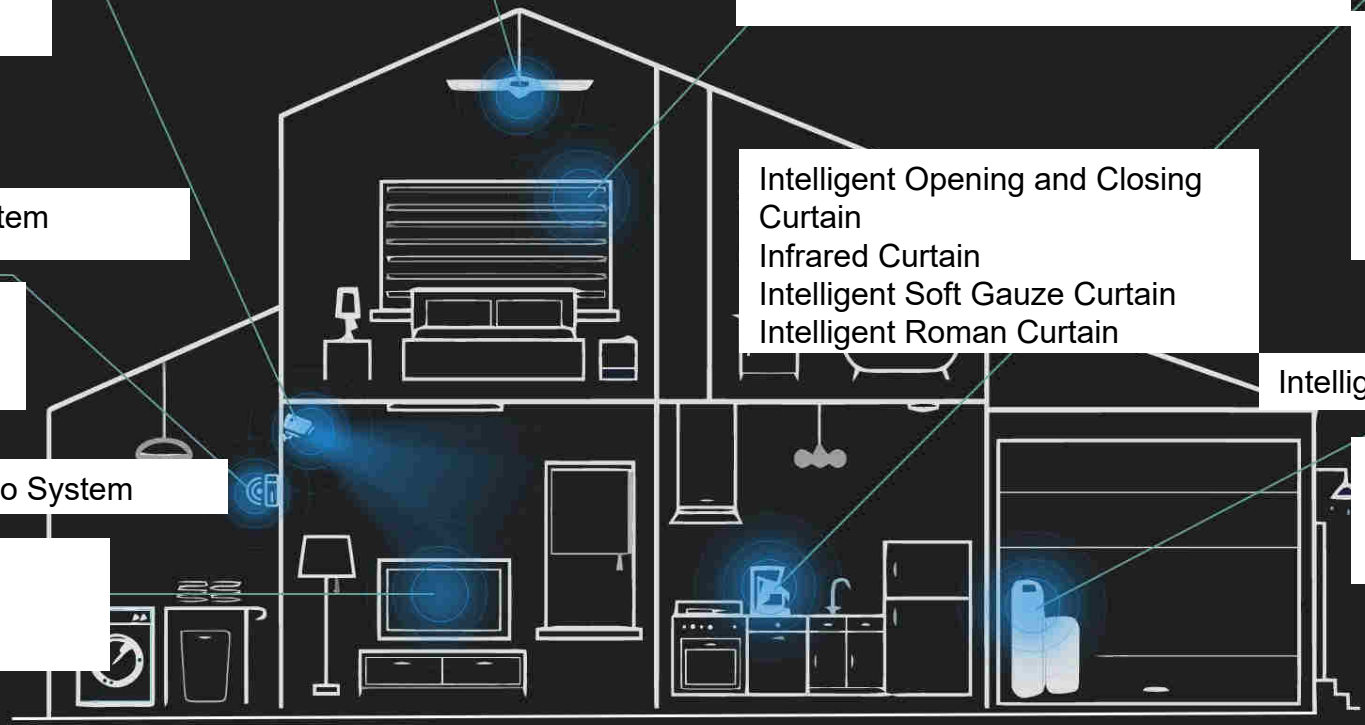
Intelligent Soft Gauze Curtain
Intelligent Roman Blind

Intelligent Security System

Monitoring System
Infrared Curtain
Emergency Button

Home Security System

Gas Sensor
Smoke Sensor
Water Leak Sensor
Wind and Rain Sensor
Gas Electric Valve
Door and Window Sensor



Intelligent Interactive System

Infrared Sensor
Microwave Sensor
Illumination Sensor

Intelligent Opening and Closing Curtain
Infrared Curtain
Intelligent Soft Gauze Curtain
Intelligent Roman Curtain

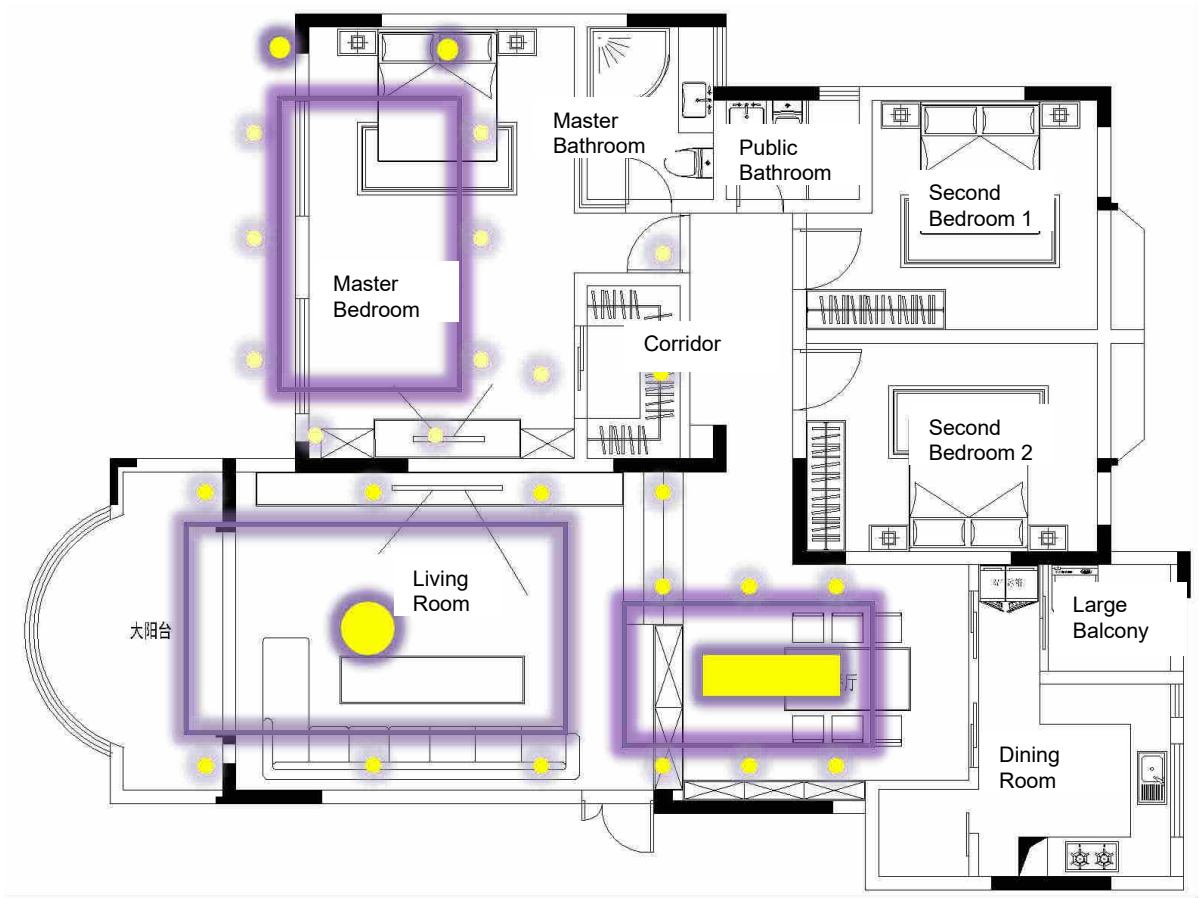
Intelligent Heating and Ventilation System

Air Conditioning System
Floor Heating System
Fresh Air System

Intelligent Audio and Video System

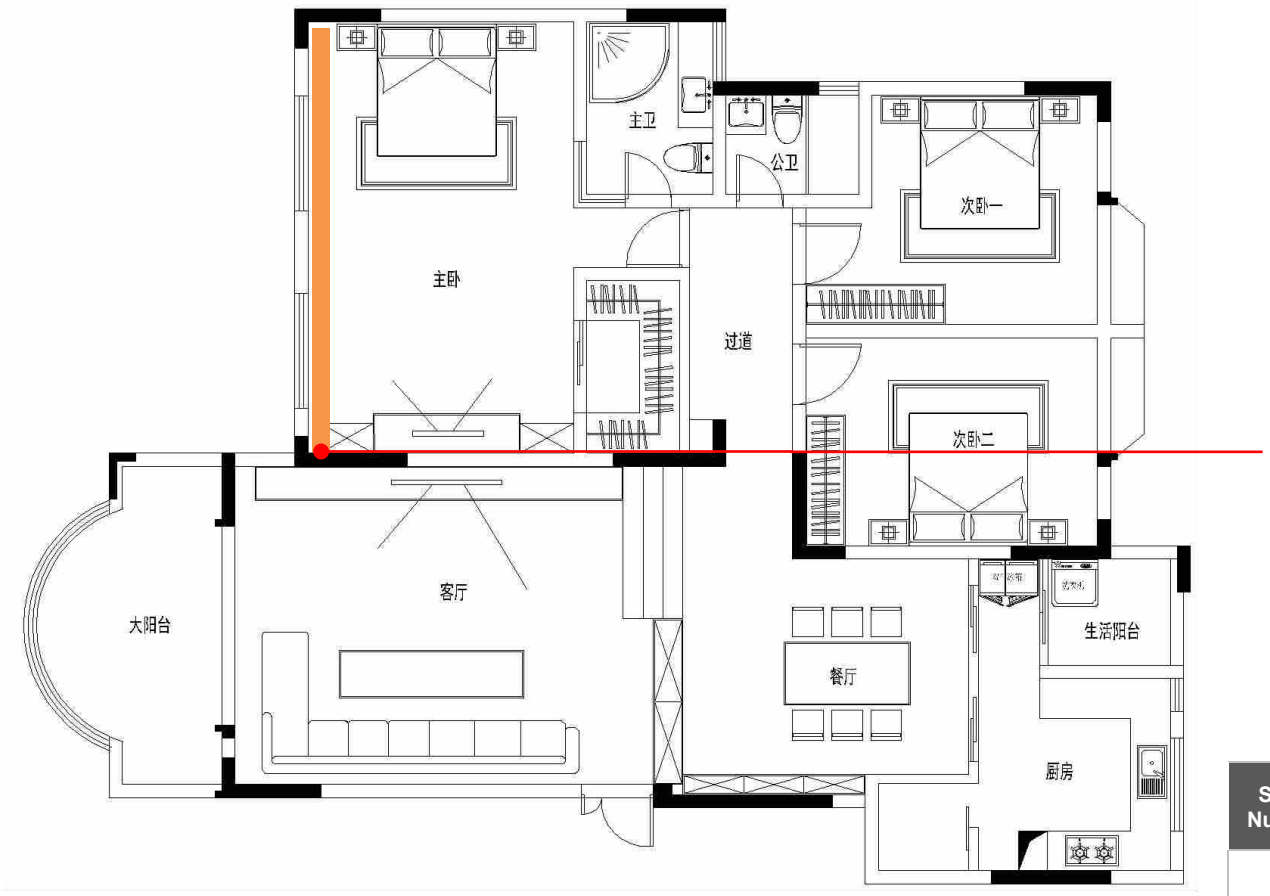
Home Theater System
Background Music System

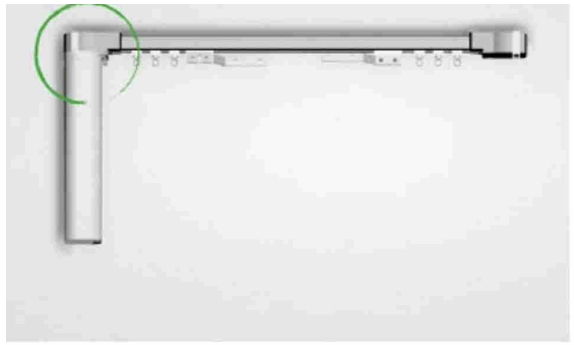
01 Intelligent Light Source Lighting System

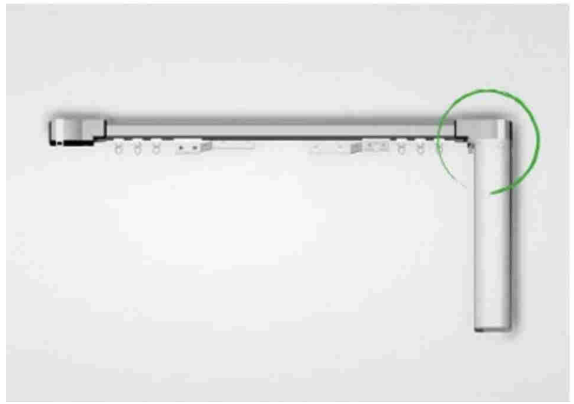


Serial Number	Area	Light Source Type	Operating Voltage	Quantity/PCS	Function	Control Protocol
1	Living Room	Chandelier	AC220V	1	Color Temperature and Brightness Adjustable Infinitely	Bluetooth
2		Spotlight	AC220V	6	Color Temperature and Brightness Adjustable Infinitely	Bluetooth
3		Light Strip	AC220V	4	Colorful and Adjustable Infinitely	Bluetooth
4	Dining Room	Chandelier	AC220V	1	Color Temperature and Brightness Adjustable Infinitely	Bluetooth
5		Spotlight	AC220V	6	Color Temperature and Brightness Adjustable Infinitely	Bluetooth
6		Light Strip	AC220V	4	Colorful and Adjustable Infinitely	Bluetooth
7	Corridor	Downlight	AC220V	3	Color Temperature and Brightness Adjustable Infinitely	Bluetooth
8	Master Bedroom	Spotlight	AC220V	8	Color Temperature and Brightness Adjustable Infinitely	Bluetooth
9		Light Strip	AC220V	4	Colorful and Adjustable Infinitely	Bluetooth
10		Adjustable Spotlight	AC220V	2	Color Temperature and Brightness Adjustable Infinitely	Bluetooth
11	Cloakroom	Spotlight	AC220V	1	Color Temperature and Brightness Adjustable Infinitely	Bluetooth

02 Intelligent electric curtain system



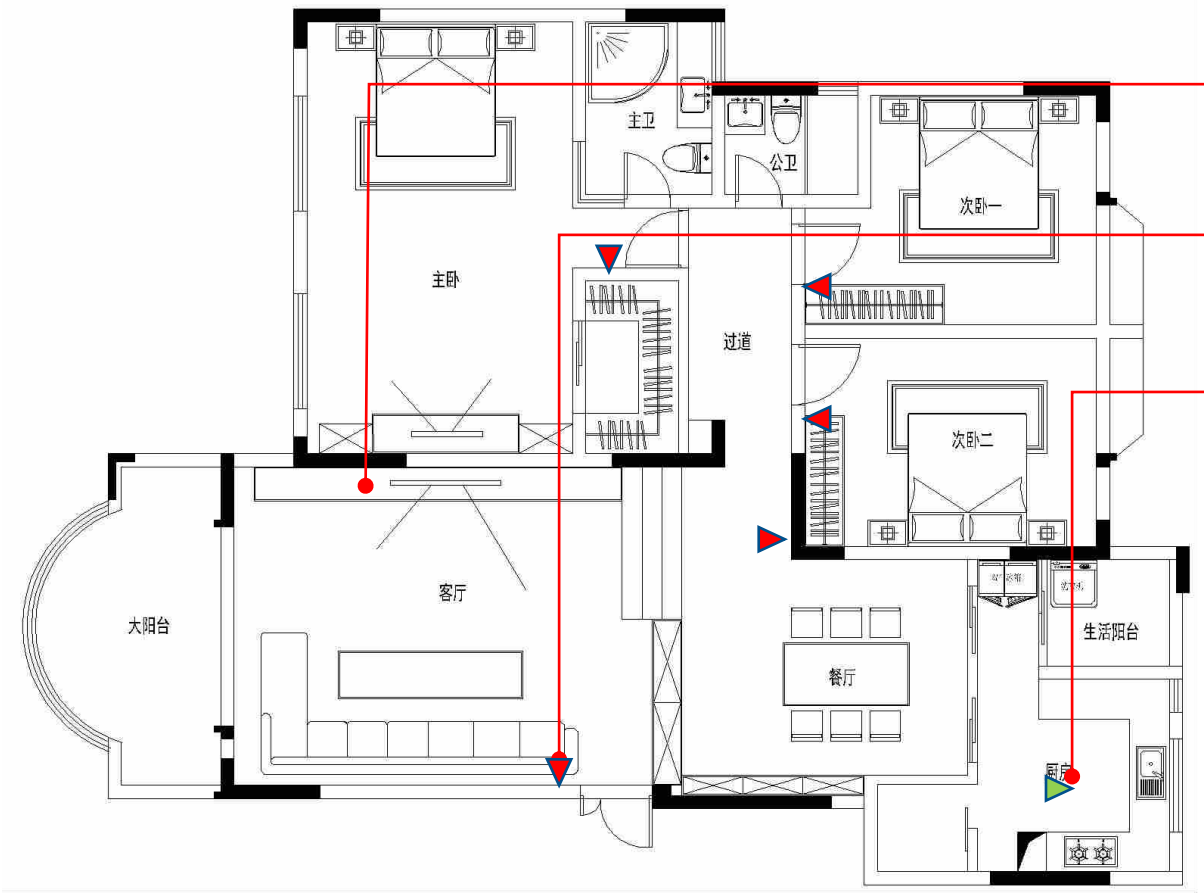






Serial Number	Area	Equipment	Quantity/pcs	Function Description	Function Description
1	Master Bedroom	Intelligent Electric Curtain Motor	2	Intelligent One-button Opening & Closing of the Cloth Curtain and Gauze Curtain, Percentage Adjustment of Opening and Closing Degree, Pause Control, Intelligent Linkage Scene Control, Local Panel Mobile APP Control, AI Voice Assistant Control	√

Intelligent environmental control system



- Air Quality Detector



- Intelligent Air Conditioning Control System

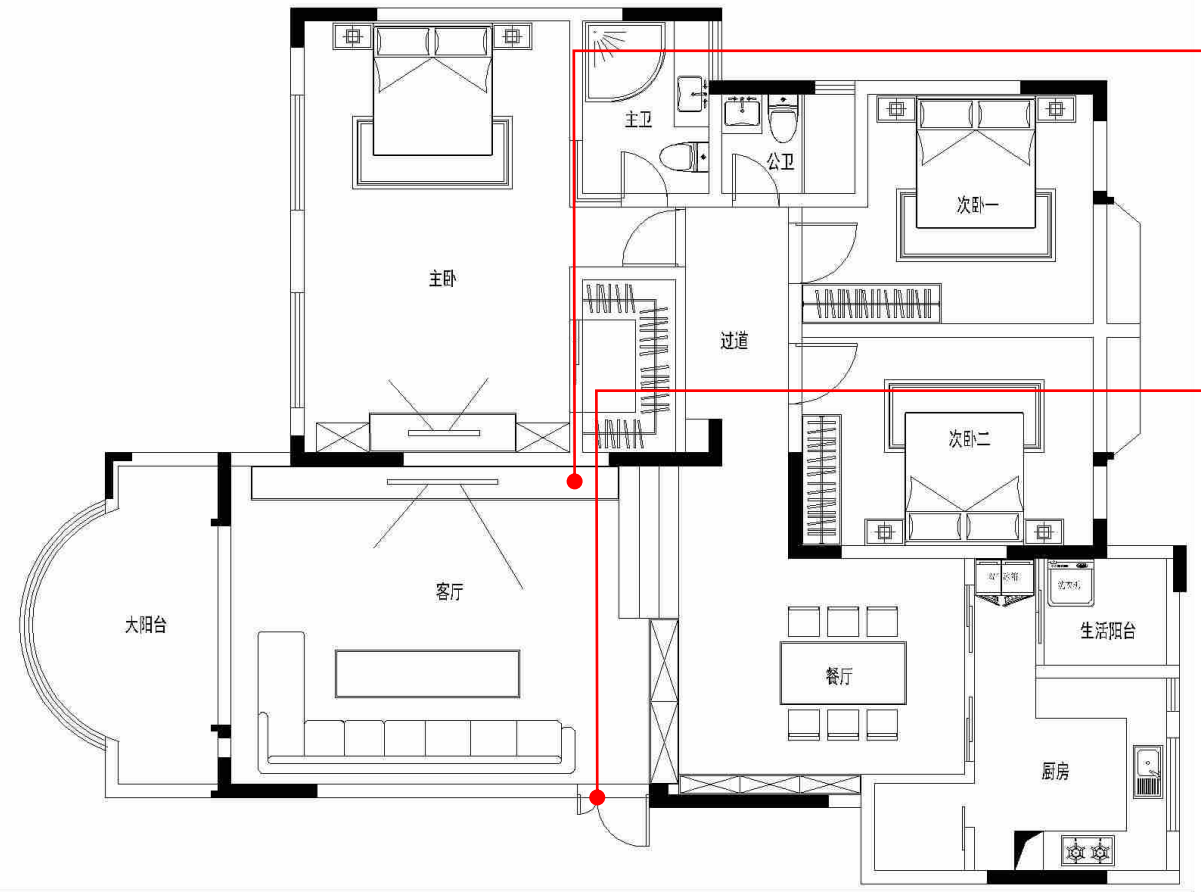


- Intelligent Fresh Air Controll System



NO.	Area	Electromechanical System	Equipment	Quantity/PCS	Local Panel & APP		Air Quality Sensor Linkage
					Homecoming Mode	Leaving Home Mode	
1	Whole House	Intelligent Air Conditioning Control System	Central Air Conditioning Controller	1	on	off	On & Off
2	Whole House	Intelligent Fresh Air Control System	Fresh Air Controller	1	on	off	On&Off
3	Living Room	Environmental Monitoring	Air Quality Sensor	1	——	——	——

04 Intelligent security alarm system





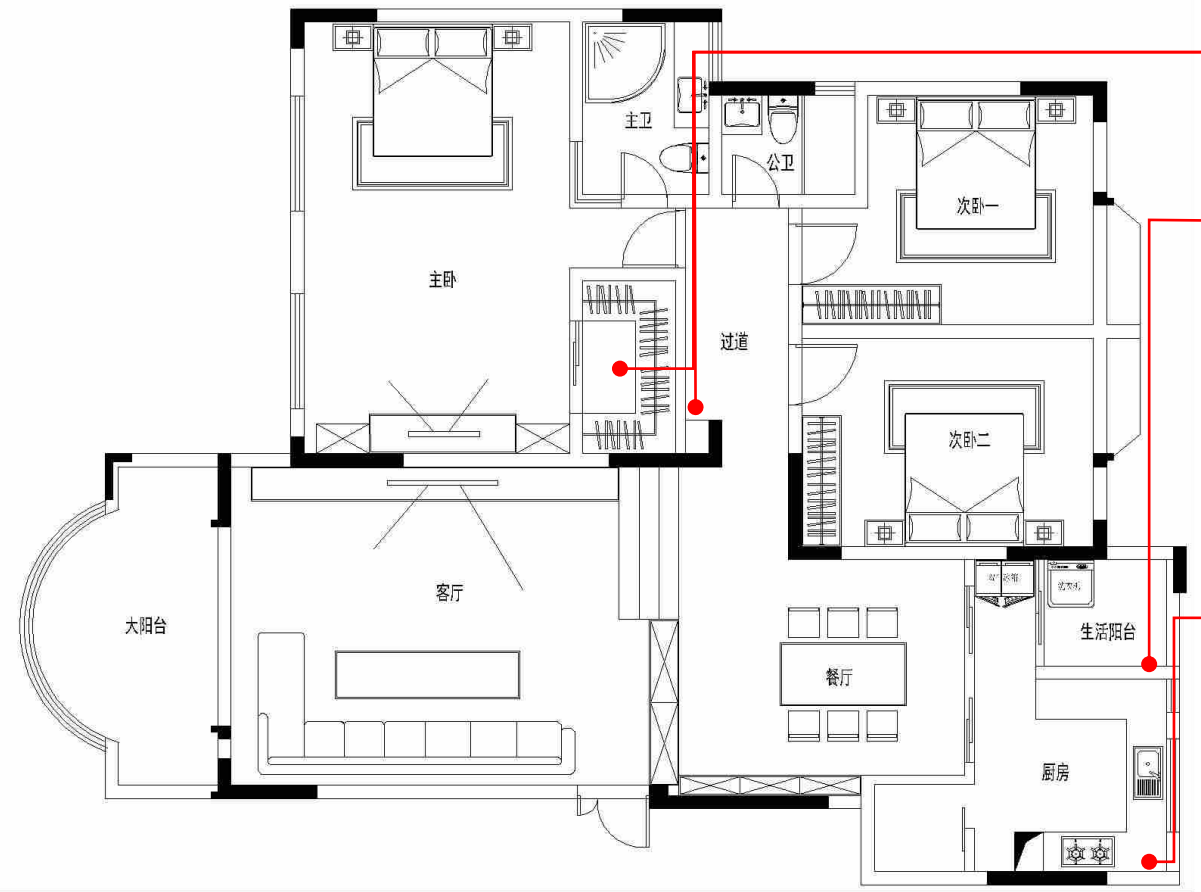
Home Security Camera



Intelligent Door Lock

NO	Erea	Configuration	Quantity/pcs	Function Description	
1	Entrance	Intelligent Door Lock	1	Supports Fingerprint, Password, and Key Unlocking, One-button Linkage to Smart Home	√
2	Living Room	Home Security Camera	1	360° Panoramic View	√
3				AI Butler	√
4				1080P Ultra Clear Infrared Night Vision	√
5				One-button Direct Call Two-way Communication	√

04 Intelligent Environmental Control System





Human infrared sensor



Feed water valve control switch

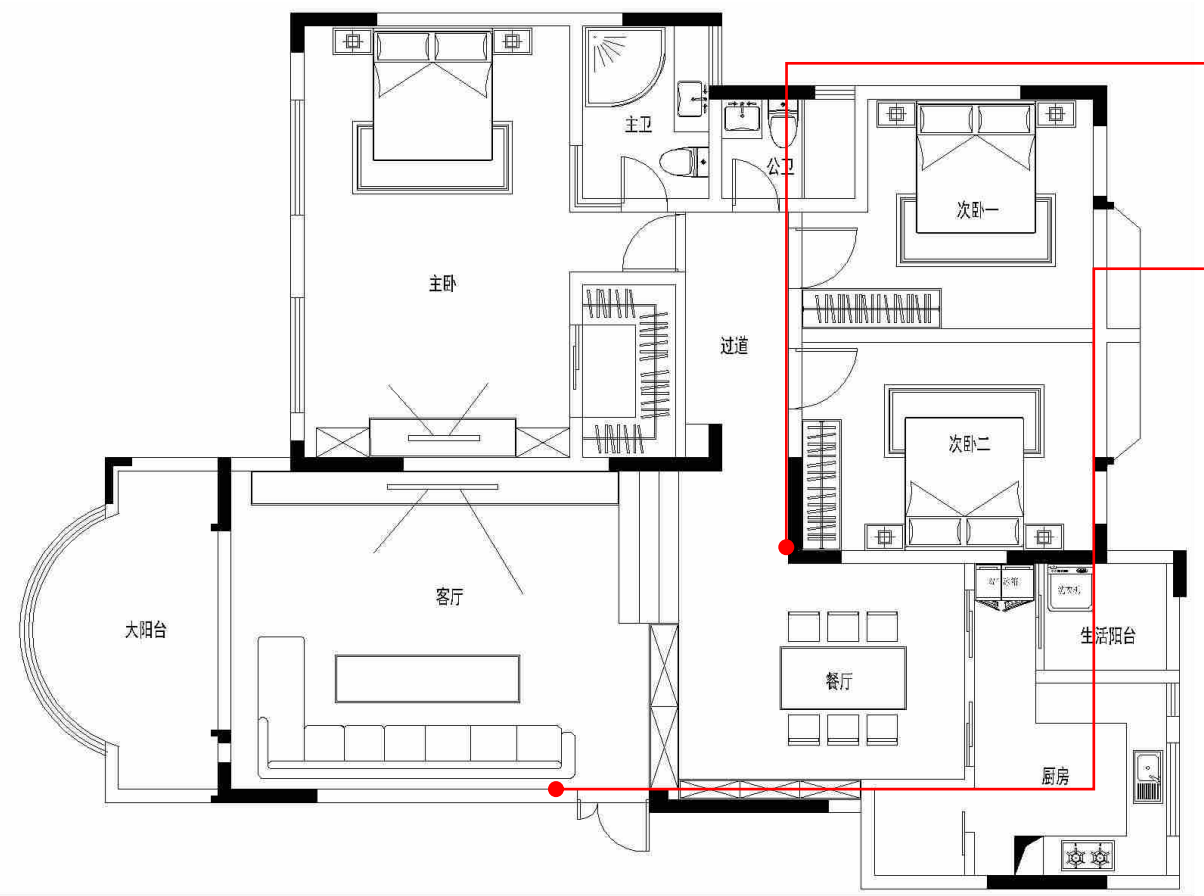




Intelligent gas leak alarm

No.	Area	Configuration	Quantity /pcs	Function Description	
1	Corridor	Infrared Sensor	1	Human Motion Detection, Linkage with Smart Home Devices	√
2	Master Bedroom Cloakroom		1	Human Induction, Linkage with the Cloakroom Light On/Off When Someone Comes/Leaves	√
3	Kitchen	Intelligent gas leakage Alarm apparatus	1	Gas detection, monitoring, linkage alarm and message push	√
4		Feed water valve control Switch	1	Supports local panel, Remote, and scenario security linkage control	√
5		Electromagnetic valve	1	Feed water valve on and off control	√

05 Intelligent panoramic control system



Local panel



K1 Corridor Downlight ON&OFF
K2 Daily Mode
K3 Dining Mode
K4 Dining Room All Off

Smart fresh air panel



K1 Entryway Downlight ON&OFF
K2 Living Room Chandelier ON&OFF
K3 Living Room Light Strip ON&OFF
K4 Living Room Spotlights ON&OFF

Intelligent All-in-One Screen

APP



AI

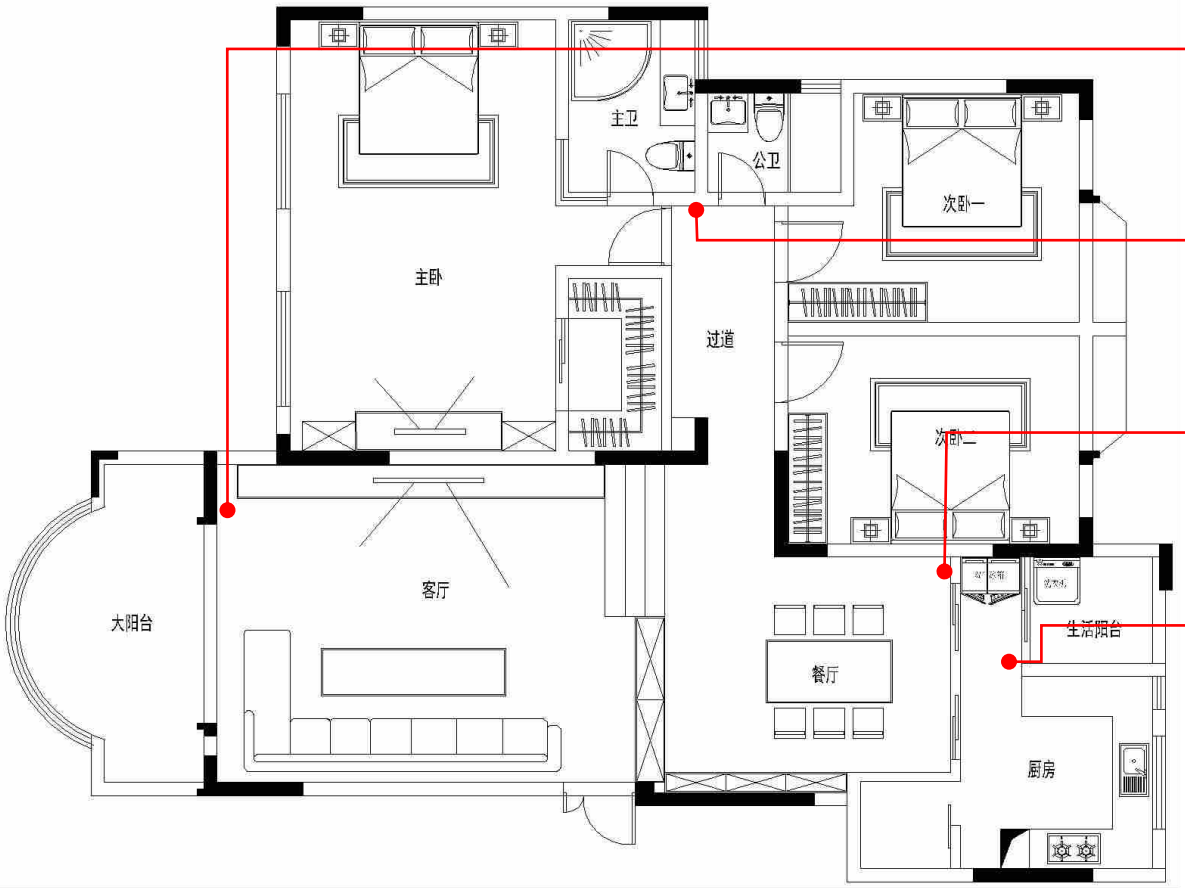


Automatic linkage



NO	Area	Configuration	Quantity /pcs	Function Description	
1	Entryway & Living Room	Intelligent All-in-One Screen	1	Air Conditioning, Fresh Air Control, Home & Away Scene Control, Intelligent Dimming Control	√
2		Intelligent Four-Key Panel	1	Local Panel Control, On & Off, APP Control, AI Voice Control, Panel Customization	√
3	Dining Room	Intelligent Fresh Air Panel	1	Fresh Air Temperature, Wind Speed, Mode and other Function Control	√
4		Intelligent Four-Key Panel	1	Fresh Air Temperature, Wind Speed, Mode and other Function Control	√

05 Intelligent panoramic control system



Local panel



K1Balcony ceiling ON&OFF



K1 Public Bathroom Downlight ON&OFF
K2 Mirror Cabinet Light Strip ON&OFF
K3 Exhaust Switch ON&OFF

K1 Balcony Ceiling Light ON&OFF
K1 Kitchen Ceiling Light
K2 Kitchen Cooler ON&OFF



K1 Kitchen Ceiling Light
K2 Kitchen Cooler ON&OFF

AP



AI



Automatic linkage

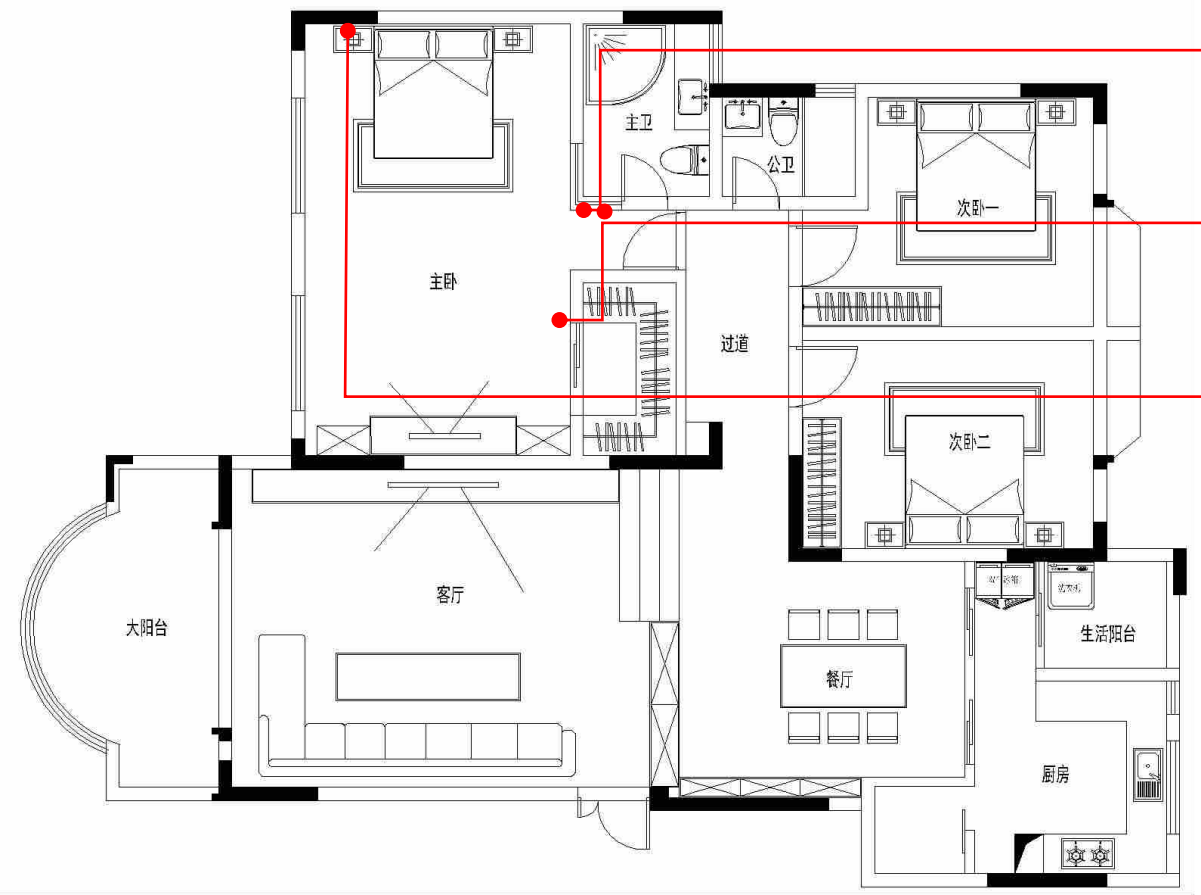




K1 Balcony Ceiling Light ON&OFF

No.	Area	Configuration	Quantity/ pcs	Function Description	
1	Large Balcony	Intelligent One-Key Panel	1	Local Panel Control, On & Off, APP Control, AI Voice Control, Panel Customization	√
2	Kitchen	Intelligent Two-Key Panel	1		√
3	Utility Balcony	Intelligent One-Key Panel	1		√
4	Public Bathroom & Corridor	Intelligent One-Key Panel	2		√

05 Intelligent Panoramic Control System



local Panel



Intelligent Air Conditioning Panel

K1 Master Bedroom Spotlights K1 Master Bathroom Downlight K2 Master Bedroom Light Strip ON&OFF K3 TV Spotlights



K1 Cloakroom Light ON&OFF



K1 Bright Mode APP
K2 Reading Mode
K3 Night Mode
K 4 Goodnight Mode

APP



AI

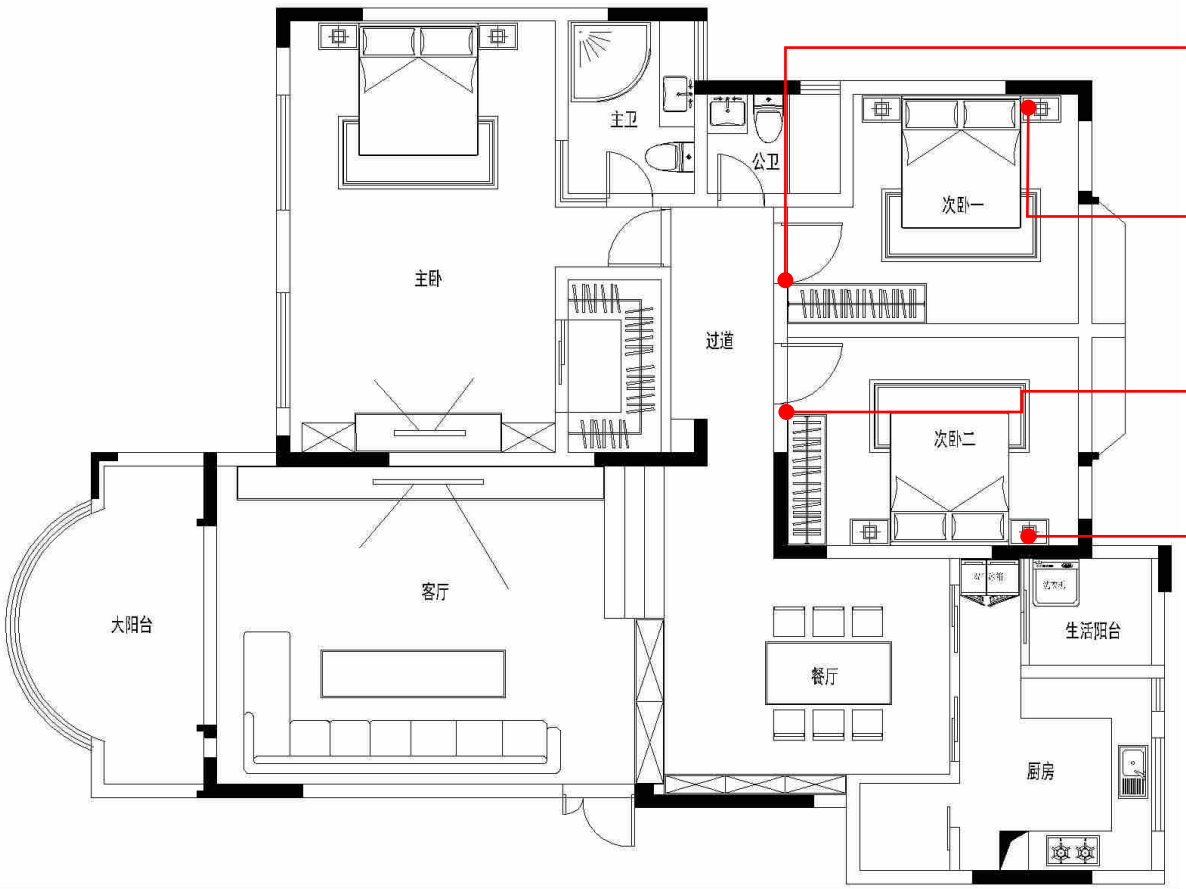


Automation Linkage



NO.	Configuration	Configuration	Quantity/pcs	Function Description	
1	Cloakroom	Intelligent One-Key Panel	1	Local Panel Control, On & Off, Scene Control, APP Control, AI Voice Control, Panel Customization	√
2	Master Bathroom	Intelligent Three-Key Panel	1		√
3	Master Bedroom	Intelligent Three-Key Panel	1		√
4		Intelligent Four-Key Panel	1		√
5		Intelligent Air Conditioning Panel	1	Intelligent Control of Air Conditioning Temperature, Wind Speed, Mode and other Functions	√

05 Intelligent panoramic control system



Local Panel



K1 Second Bedroom Main Light ON&OFF
K2 Second Bedroom Spotlights ON&OFF
Second Bedroom 1 Entry

Intelligent Air Conditioning Panel



K1 Second Bedroom Main Light
K2 Second Bedroom Spotlights
Second Bedroom 1 Bedside





Automatic connection





K1 Second Bedroom Main Light ON&OFF
K2 Second Bedroom Spotlights ON&OFF
Second Bedroom 2 Entry

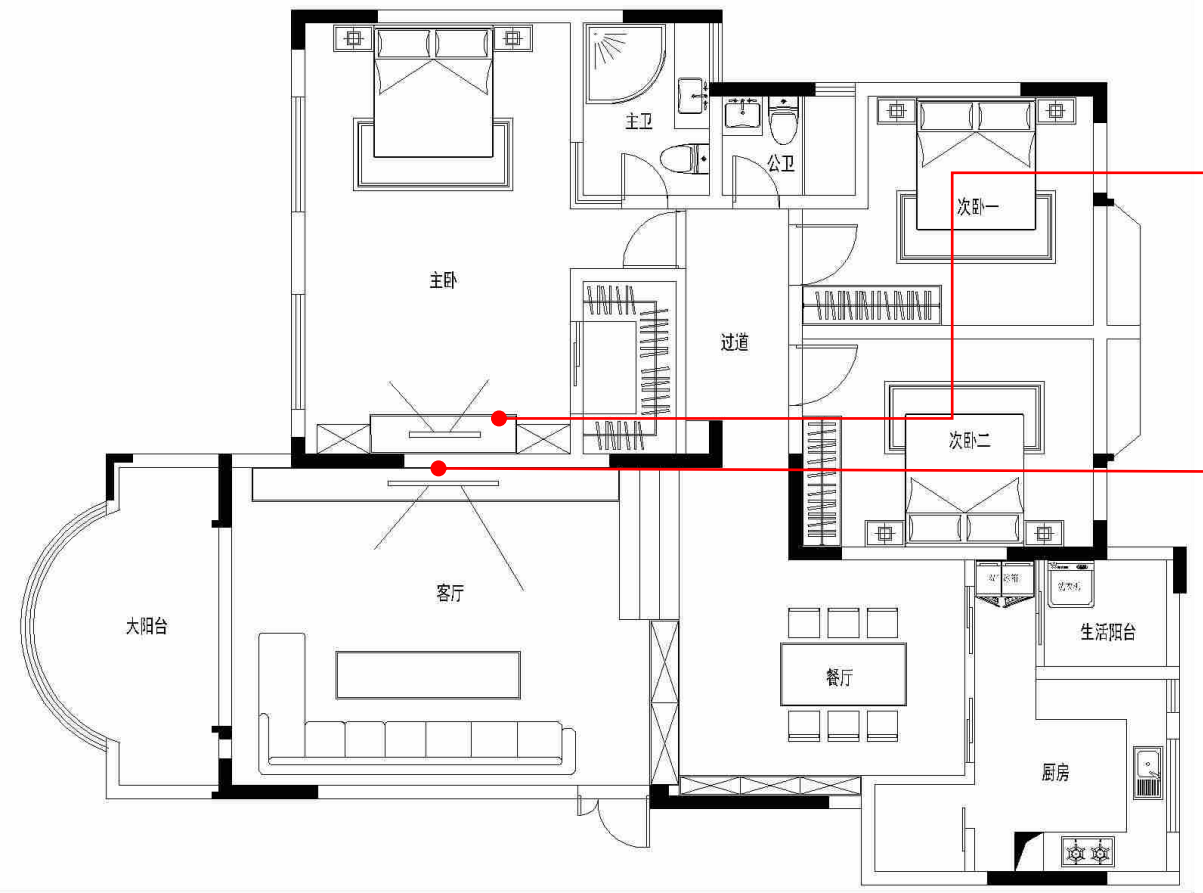
Intelligent Air Conditioning Panel



K1 Second Bedroom Main Light
K2 Second Bedroom Spotlights
Second Bedroom 2 Bedside

NO.	Area	Configuration	Quantity/pcs	Function Description	
1	Second Bedroom 1	Intelligent Two-Key Panel	2	Local Panel Control, On & Off, Scene Control, APP Control, AI Voice Control, Panel Customization	√
2		Intelligent Air Conditioning Panel	1	Intelligent Control of Air Conditioning Temperature, Wind Speed, Mode and other Functions	√
3	Second Bedroom 2	Intelligent Two-Key Panel	2	Local Panel Control, On & Off, Scene Control, APP Control, AI Voice Control, Panel Customization	√
4		Intelligent Air Conditioning Panel	1	Intelligent Control of Air Conditioning Temperature, Wind Speed, Mode and other Functions	√

06 Intelligent Voice Control System (AI)





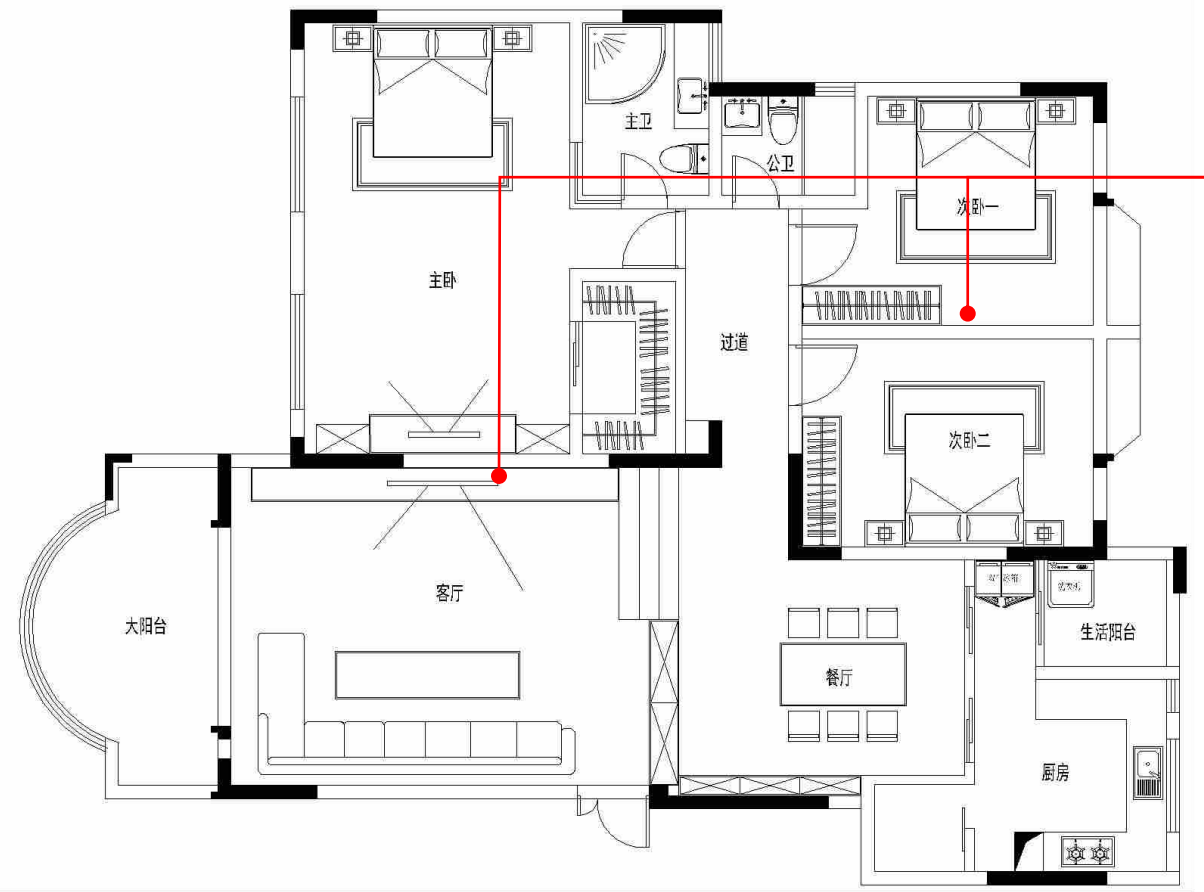
AI Speaker



TV

NO	Area	Configuration	Quantity/pcs	Function Description	
1	Living Room	TV	1	Intelligent Lighting System (AI Voice Control)	√
2					√
3				Intelligent Shading System (AI Voice Control)	√
4	Master Bedroom	AI Speaker	1	Intelligent Appliance System (Home Appliances, Kitchen Appliances) (AI Voice Control) Intelligent Security System (Monitoring, Alarm) (AI Voice Prompt) Intelligent Environmental Control System (AI Voice Control) Intelligent Scene Control (AI Voice Control) Smart Home Devices + (AI Voice Control)	√

07 Home Network System





Home Network Router

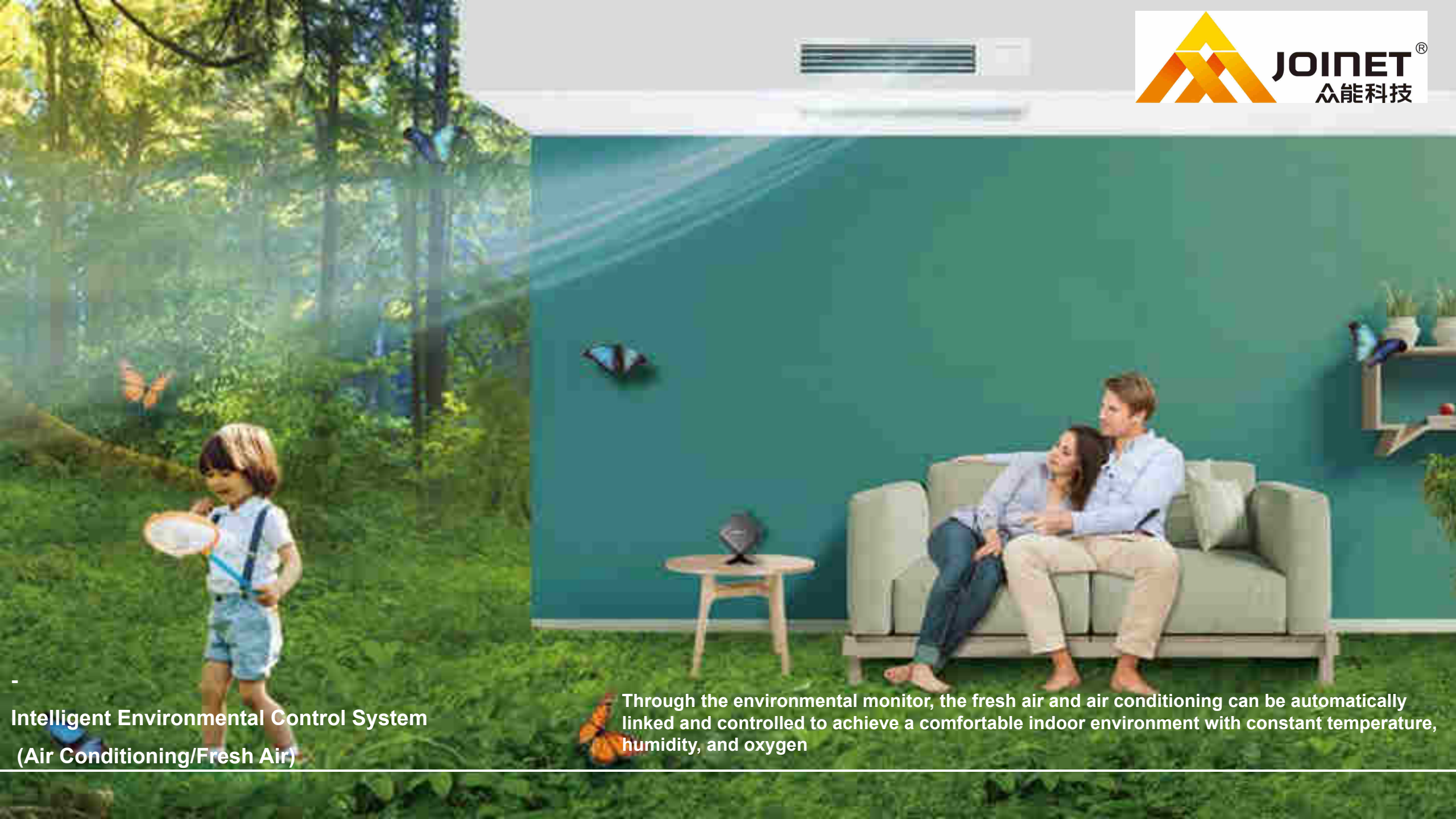
序号	区域	配置	数量/pcs	功能描述	
1	Living Room	Main Router for Home Network	1	Each household is standardly equipped with N distributed sub-APs, providing full coverage of WIFI throughout the house	√
2				Each household is standardly equipped with N distributed sub-APs, providing full coverage of WIFI throughout the house	√
3	Second Bedroom 1	Sub-Router for Home Network	1	Mother-son routing with Gigabit network ports	√
4				Timely optimization of WIFI channels to avoid interference. Supports true dual-band, seamless innovation technology	√



2

Function Introduction

PART THREE



-

Intelligent Environmental Control System (Air Conditioning/Fresh Air)

Through the environmental monitor, the fresh air and air conditioning can be automatically linked and controlled to achieve a comfortable indoor environment with constant temperature, humidity, and oxygen

JOINET®
众能科技



160 Project Intelligent Security Alarm System

One-key Unlocking with Fingerprint, Password, and Key Linking Home & Away Mode

JOINET®
众能科技

Stranger Intrusion Sensing: Instant Shooting for Evidence Collection

Sensing the changes in human activities in the detection area, when an outsider intrudes, the multifunctional gateway emits a high-decibel alarm to deter, and the camera automatically takes instant shots: enabling rapid verification of illegal intrusion.



Human Sensor

Multifunctional Gateway

Camera

Intelligent Deployment and Instant Push of Alarm Information, Intelligent Scene Linkage
Realizing the effect of lights turning on when someone is present and off when they leave

*即时拍摄功能需要开通华为智选生态产品 AI全景摄像头云服务

-

Intelligent Security Alarm System

JOINET®
众能科技

无框无界 智享简约

美是产品可用性的重要组成部分
只有匠心设计的产品才值得每天相处



APP Control

Voice Control

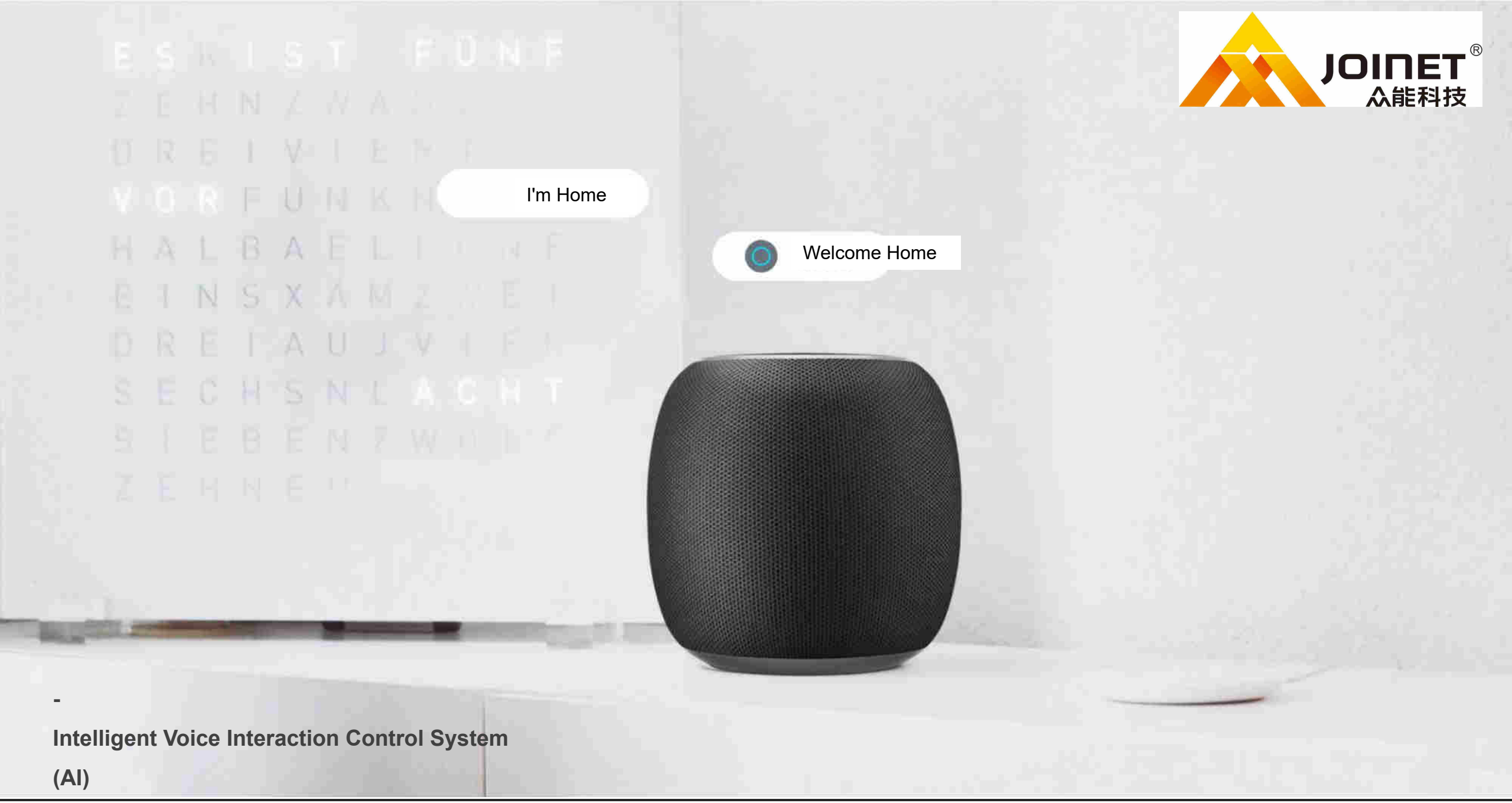
Single-point Controll

Scene Control

Timing Control

Intelligent Control Panel

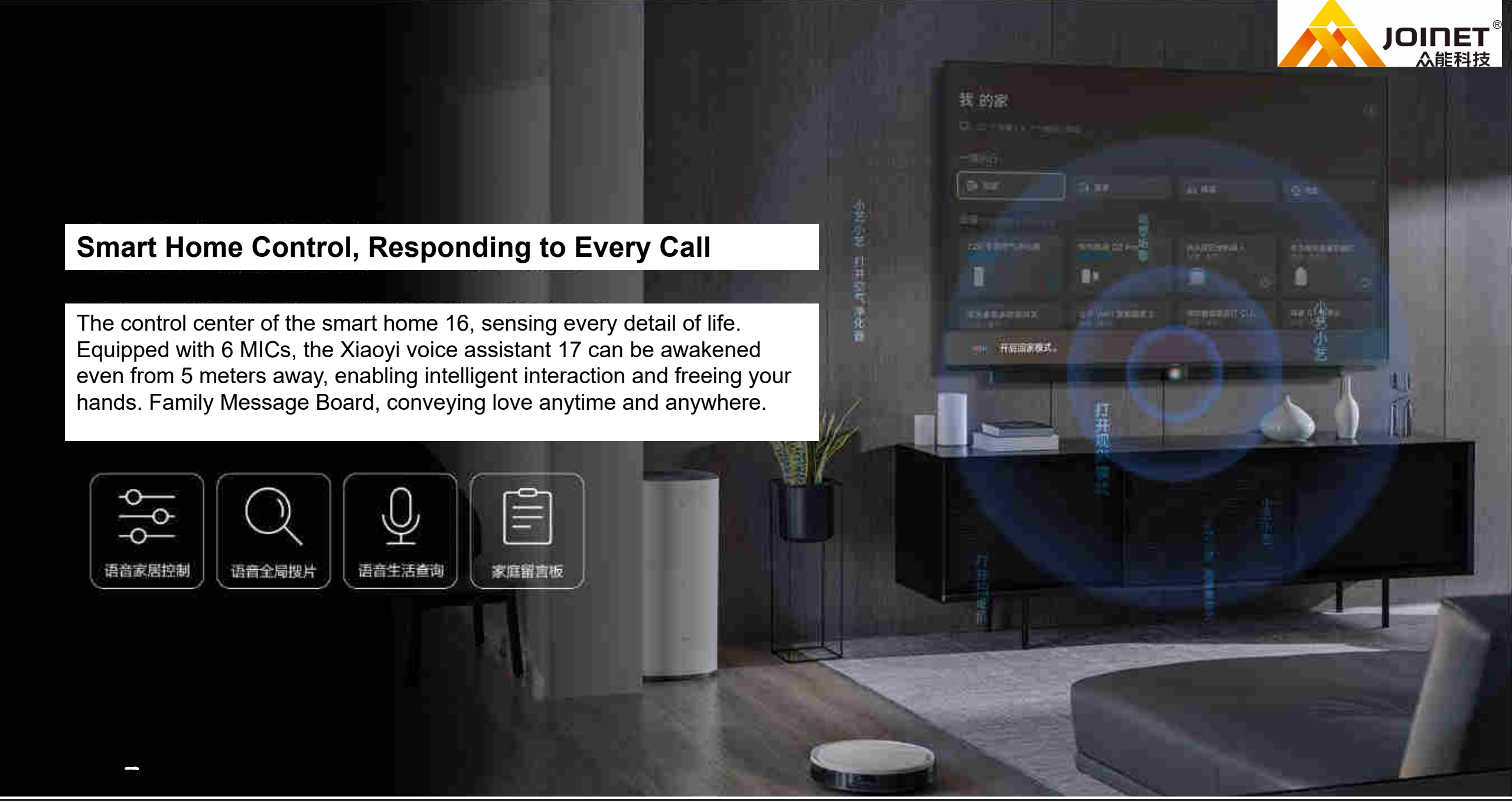
Intelligent Panoramic Control System



-

Intelligent Voice Interaction Control System

(AI)



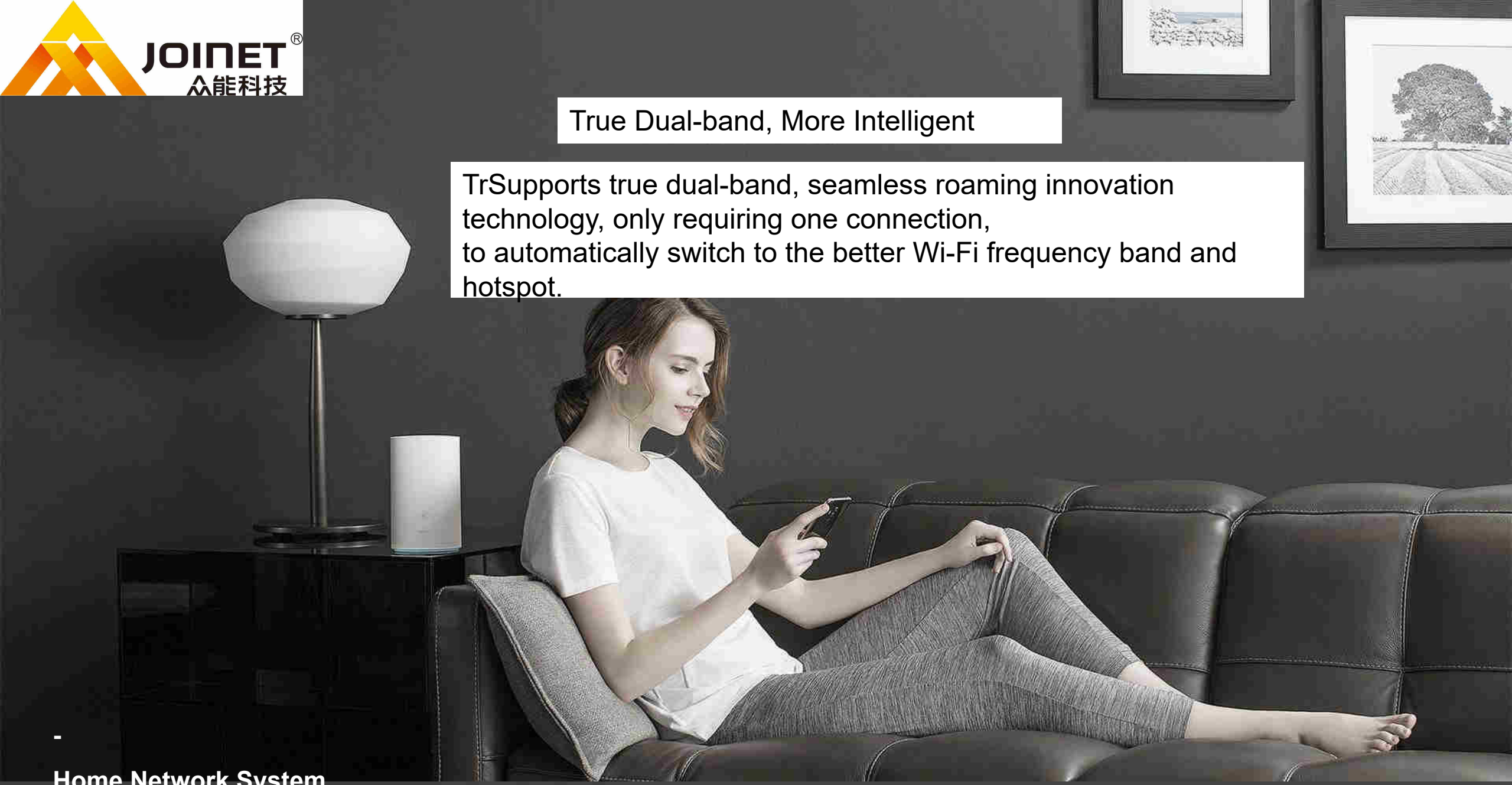
Smart Home Control, Responding to Every Call

The control center of the smart home 16, sensing every detail of life. Equipped with 6 MICs, the Xiaoyi voice assistant 17 can be awakened even from 5 meters away, enabling intelligent interaction and freeing your hands. Family Message Board, conveying love anytime and anywhere.

JOINET®
众能科技

True Dual-band, More Intelligent

TrSupports true dual-band, seamless roaming innovation technology, only requiring one connection,
to automatically switch to the better Wi-Fi frequency band and hotspot.

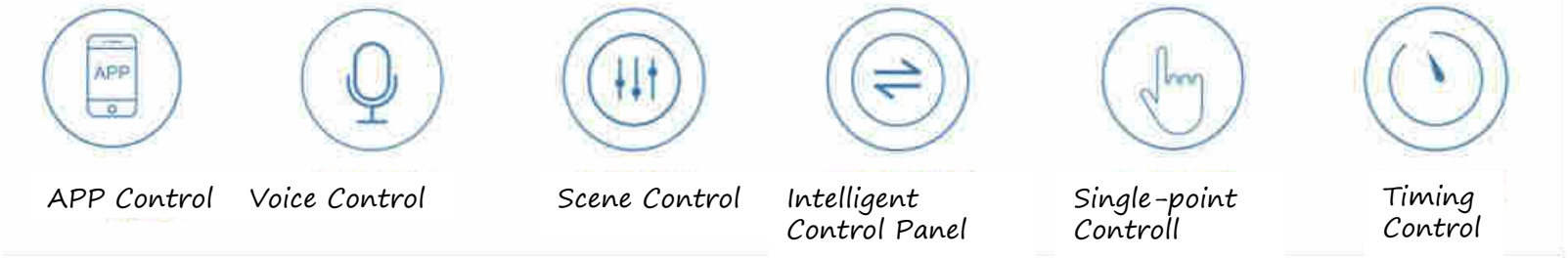


-

Home Network System

AC+AP，有线MESH组网方式等

Intelligent control panel





- Borderless Multi-position Joint Design
- The whole series of switch sockets are equipped with matching panels, forming a seamless integration.
- Classic piano-style keys with programmable function definitions
- Large rocker with large travel for a tactile feedback, maintaining the traditional classic feel.
- Easy installation without tools
- Colors and key function icons can be customized
- Installation Method: Standard 86 / Wall
- Application Fields: Intelligent control of home, hotel lighting, curtains, air conditioning, electromechanical equipment, etc.



3 Reliable Service

PART FOUR

After-sales Service System

Thoughtful and comprehensive maintenance and after-sales service: Ensuring the stable operation of the project while bringing more value-added services to customers



Solution Output

After determining the requirements, our company will arrange professionals to design the overall project plan, and ultimately output the overall plan including the technical plan, hardware plan, and implementation deployment plan.

Hardware deployment

Hardware Deployment Hardware equipment deployment, with a 1-year warranty, regularly outputting quarterly inspection reports of hardware equipment, and having spare hardware. For old customers' purchases.

System Upgrade

During the maintenance period, our company will output corresponding data analysis reports according to the requirements.

Project Operation and Maintenance

A never-dissolved project service team, with no evasion of quality issues, and quick response to solve faults.

Output of Data Analysis Reports

During the maintenance period, if the customer's system has third-party associations and the interface changes, our company will provide free upgrades; if our company updates and iterates the latest underlying engine, we will provide upgrades.

After-sales Training

Standardized software and hardware user manuals, training documents, remote online support, and hands-on teaching to front-line service personnel.