

HDL[®]

Contents

PART 01 **About HDL**

PART 02 **Products**

- Buspro
- Buspro Wireless
- KNX
- Zigbee 3.0

PART 03 **Solutions**

- Smart home
- Smart building
- Smart hotel

PART 04 **Why HDL**



HDL[®]

SINCE 1985

The HDL brand was created in 1985 with the business of stage lighting control system. It became the best brand stage lighting control brand in China. HDL started developing building automation system from 2004. We are now a manufacturer of comprehensive automation systems and a provider of integrated solutions for homes, commercial buildings and hotels. Our business presence can be found in about 100 countries and regions. And products have been applied to numerous projects around the globe.





Guangzhou



International



Technology

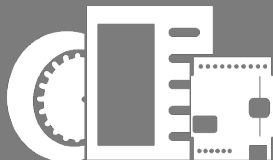
Strong Staffing and Extensive Product Range



500+
Employees



100+ R&D



300+ SKU



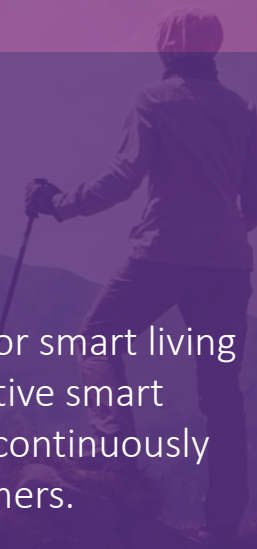
Vision

Make people's living space better.



Mission

Focus on user's needs for smart living space, provide competitive smart solutions and services, continuously create values for customers.





Residential

One-stop purchase. Integrated whole-home experience.



Commercial

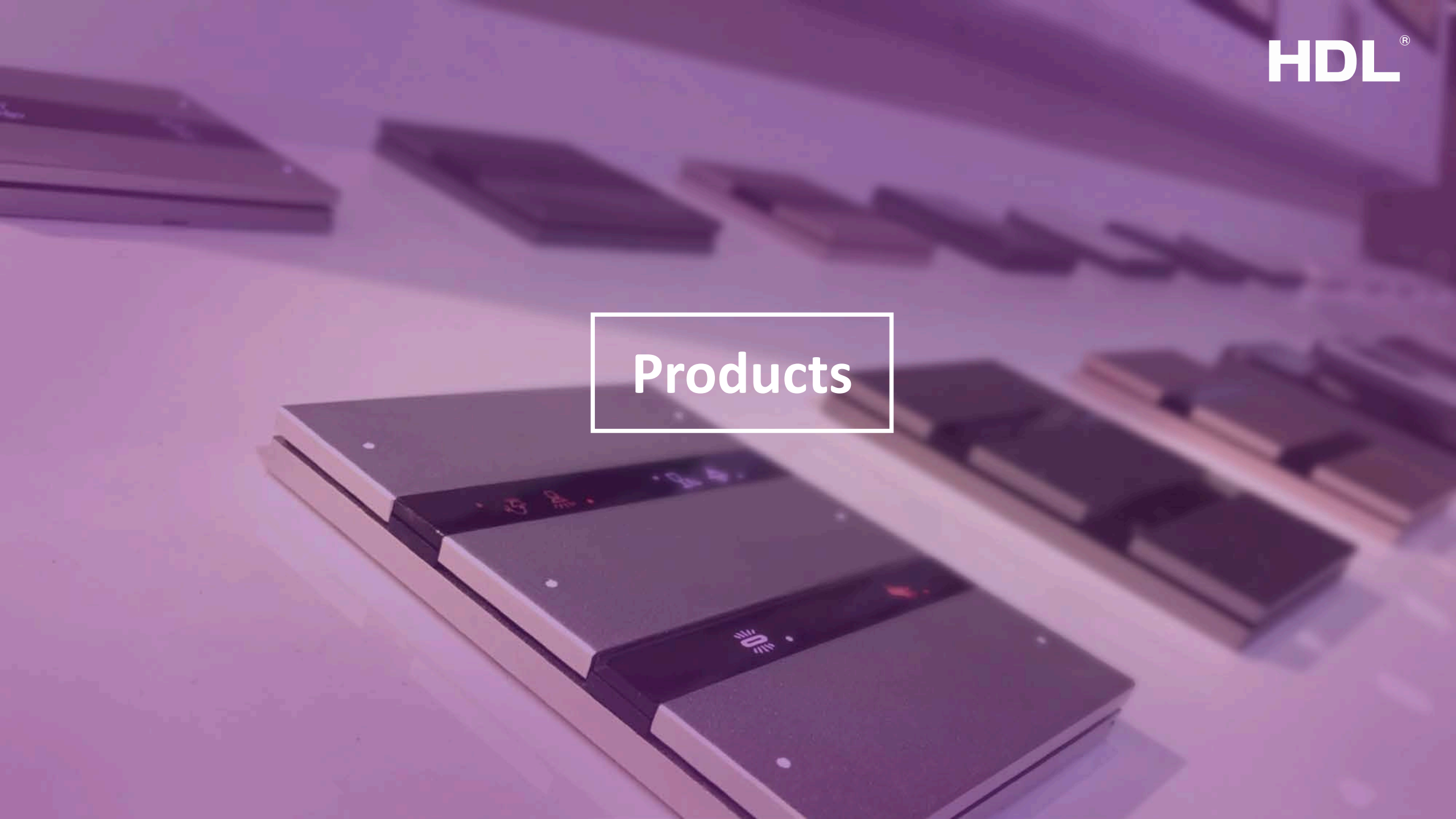
Improve occupant experience, minimize operation cost and increase the value of buildings.



Hospitality

Better guest experience, higher efficiency, lower operation cost.

Products





Granite

Buspro is a smart system for homes, commercial buildings and hotels. It is able to integrate lighting, shading, air-conditioning, or heating, background music, security and more functionality and features, and allows users to control everything on a mobile app, PC program or wall panel. What's more, with sensors and logic settings, tasks can be automatically run by the system as well.



HDL®



buspro



Control Panels

- Touch display panel
- Touch panel
- Push button panel
- DLP panel



Controllers/Actuators

- Relay
- Dimmer
- Curtain motor
- AC controller
- Logic controller



Sensors

- PIR Sensor
- Air quality sensor
- Lux sensor
- Multifunctional sensor



Gateways

- System Gateway
- KNX-Buspro Gateway
- RS232 Gateway
- RS485 Gateway



Audio/Camera

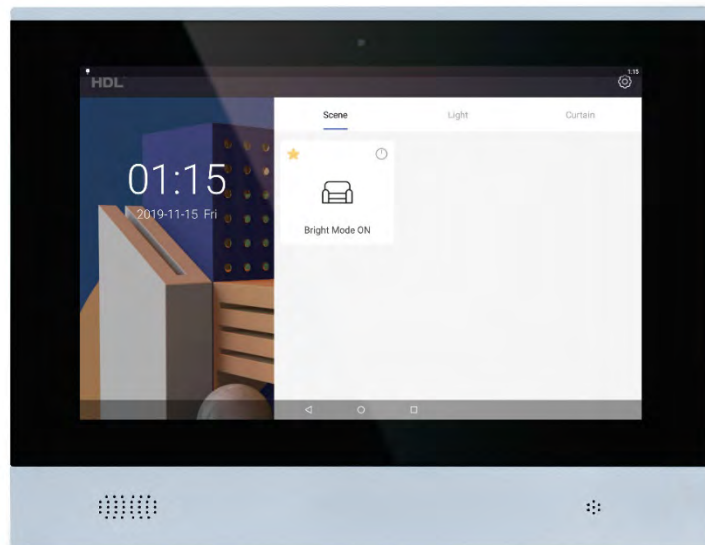
- Background music player
- Ceiling mount speaker
- IP Camera



Software

- System software
- Smart home application software
- Smart building monitoring software

S10



Dedicated UI keeps everything simple

S10 is a touch panel equipped with a 10.1-inch 800 x 1280P HD display and a dedicated user interface. With the excellent industrial design and UI, a panel of such size will just make your building more beautiful apart from its tech features. You can effortlessly control every connected device by a simple touch on S10.



Meant to be eye-catching



S57

Touch Panel

- 5.7-inch TFT touch screen with 18:9 aspect ratio;
- Built-in proximity sensor and brightness sensor;
- Built-in microphone and speaker;
- Display resolution: 1280*640P;
- Supports Bluetooth, Wi-Fi, RJ45;
- Power consumption: Max. 12W;
- Power supply: DV24 or POE .



HDL[®]

S57

Aesthetically pleasing Interface design.



—

With its extremely elegant, clean, simple and user-friendly interface, S57 can add credits to your interior decoration.



Control everything you need with buttons.

The basic unit of Tile is a keypad or socket panel in EU standard.
You can use just one unit if it meets your requirement, or combine
multiple units to serve more functionality in a special area.



Tile

Premium quality with two materials.

Tile series comes with two versions of different materials: metal and plastic. Each one is able to give you a sense of premium quality, either with the refined sandblasting finishes on the metal one or the skin-like touch feeling on the plastic one.



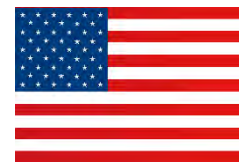
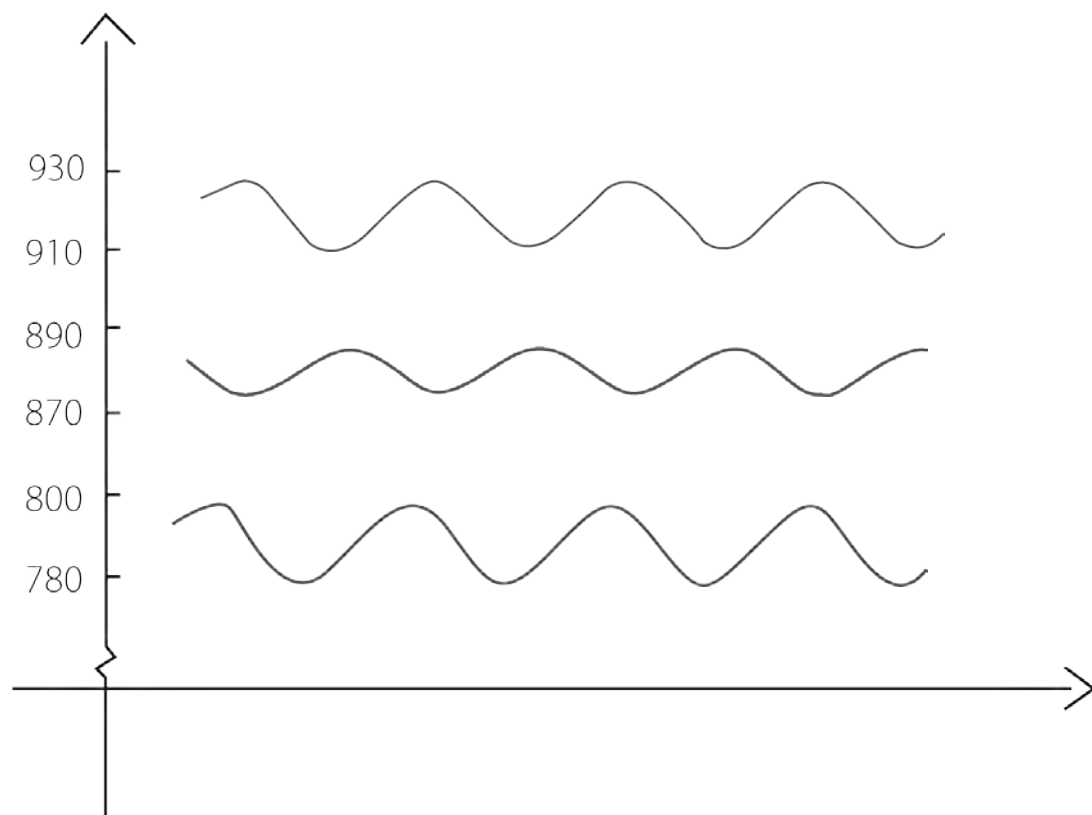
Tile

buspro WIRELESS

No wiring is required. It can work with the wired Buspro system in the same project.



Granite P



United States

904 MHz to 928 MHz



Europe

864 MHz to 928 MHz

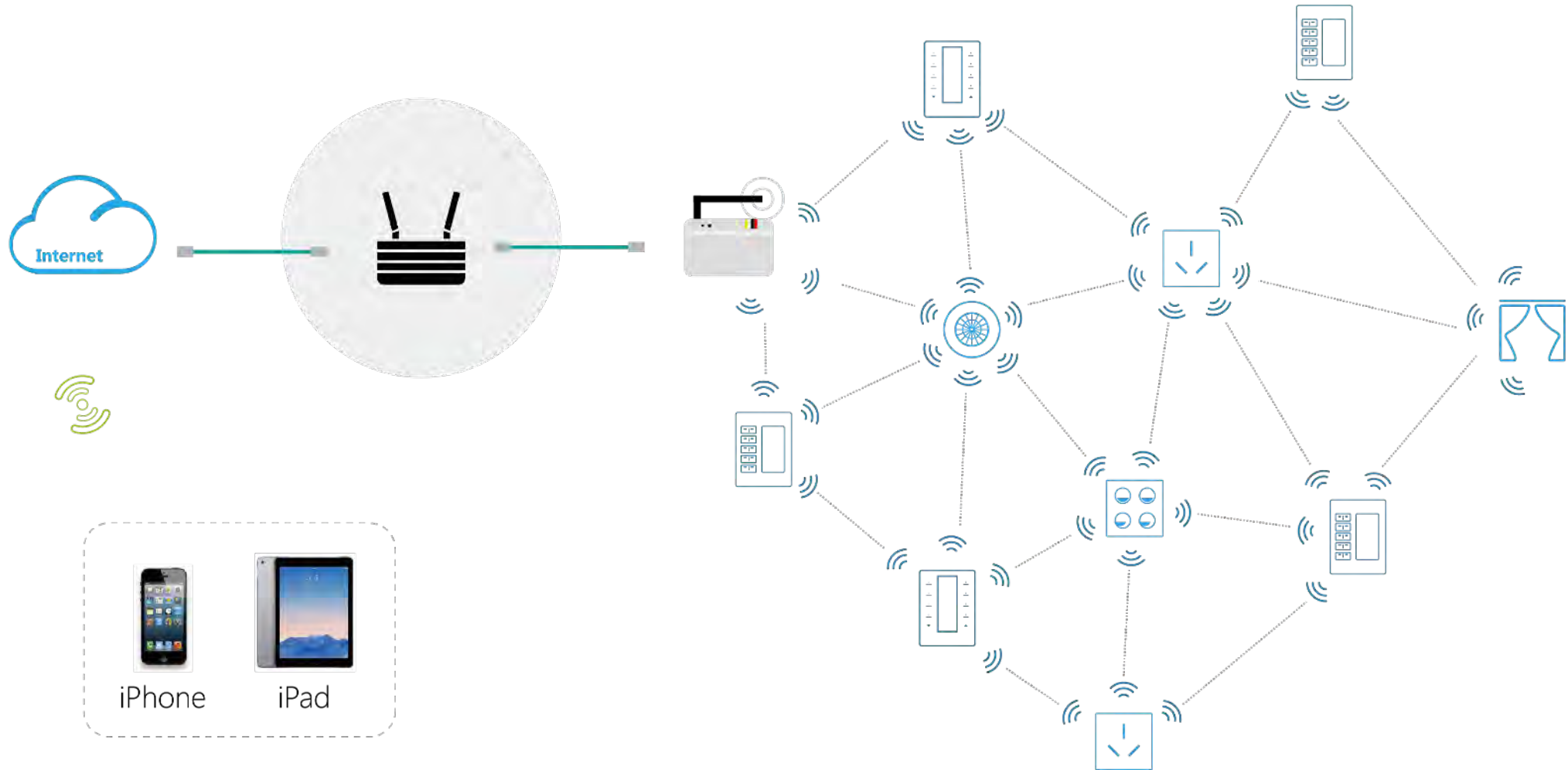


China

780 MHz to 794 MHz

Buspro Wireless runs on sub-giga Hertz frequency.

Mesh Topology





A worldwide standard for home and building control.



Granite P

HDL KNX Products



Lighting

- Relay
- Dimmer
- DMX 512 Gateway
- DALI controller



Sensor

- OmniSense Sensor
- Ceiling Mount PIR & Lux Sensor
- PIR Sensor
- Mini Ultrasonic Sensor



Climite control

- CoolBox VRV Gateway
- AC Controller
- Infrared Emitter



Shading

- Curtain actuator
- Curtain motor



Gateway

- KNX net/IP Router
- KNX-RS485 Gateway
- RS232/485 Gateway



Control panel

- Granite
- Granite Display
- DLP
- DLP Touch
- iFlex
- iTouch



Dry contact

- 4-Zone Dry Contact Module
- 8-Zone Dry Contact Module
- 24-Zone Dry Contact Module



Other devices

- Power supply module
- KNX Line Coupler
- USB Interface
- Master Slave Timer Controller

HDL Solutions



Lighting

Lighting control could be simpler and more interesting.

Brightness control

Apart from turning ON/OFF the lights, you can adjust the brightness as well with HDL. The interface on our wall panel or mobile app shows you the brightness in percentage. Drag the slider on the interface and you will get the exact light for your ongoing activity.

In some cases, you can set the fade-in and fade-out time of brightness change to make the process smooth and comfortable.



Smart panel



Mobile control

Brightness control

Apart from turning ON/OFF the lights, you can adjust the brightness as well with HDL. The interface on our wall panel or mobile app shows you the brightness in percentage. Drag the slider on the interface and you will get the exact light for your ongoing activity.

In some cases, you can set the fade-in and fade-out time of brightness change to make the process smooth and comfortable.



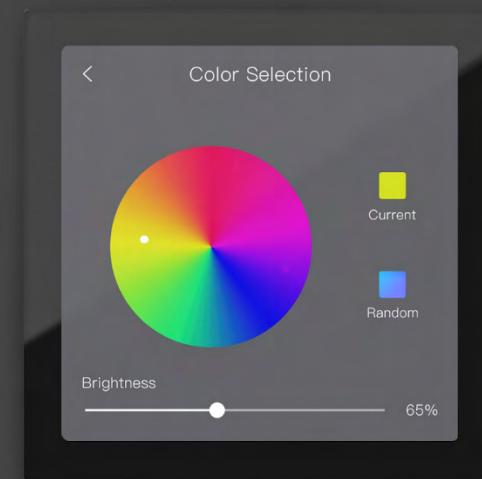
Smart panel



Mobile control

Colors

HDL offers you full control of light colors. Whether you are having a romantic dinner or a cheerful party, you can always easily set the perfect lighting effect with colors.



Smart panel

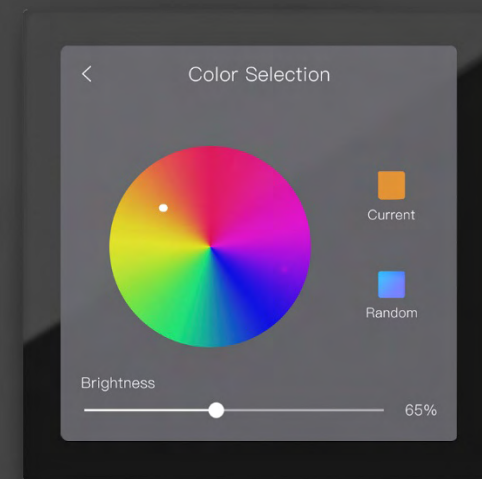


Mobile control

HDL®

Colors

HDL offers you full control of light colors. Whether you are having a romantic dinner or a cheerful party, you can always easily set the perfect lighting effect with colors.



Smart panel



Mobile control

Color temperatures

From cold to warm, different color temperatures of light may give us a different mood. We need cold light in the hot summer to cool us down. Warm light on foods can increase our appetite... Set your mood with HDL.

More possibilities

Constant lighting

With smart lighting solutions, the brightness can be kept at a comfortable level while making full use of natural light. Lighting can be automatically activated when brightness level falls below a preset level without disturbing the users.

More fun

**The light color changes
as your finger moves on the screen.**

Granite Display allows you to select the color for your lights by directly touching the color disk on the interface. You may simply tap the color you want, or move your finger on the color disk to check out the right one and stop over there.



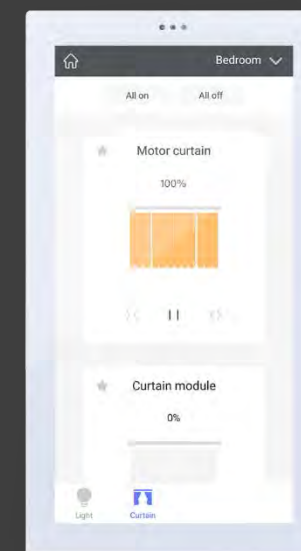
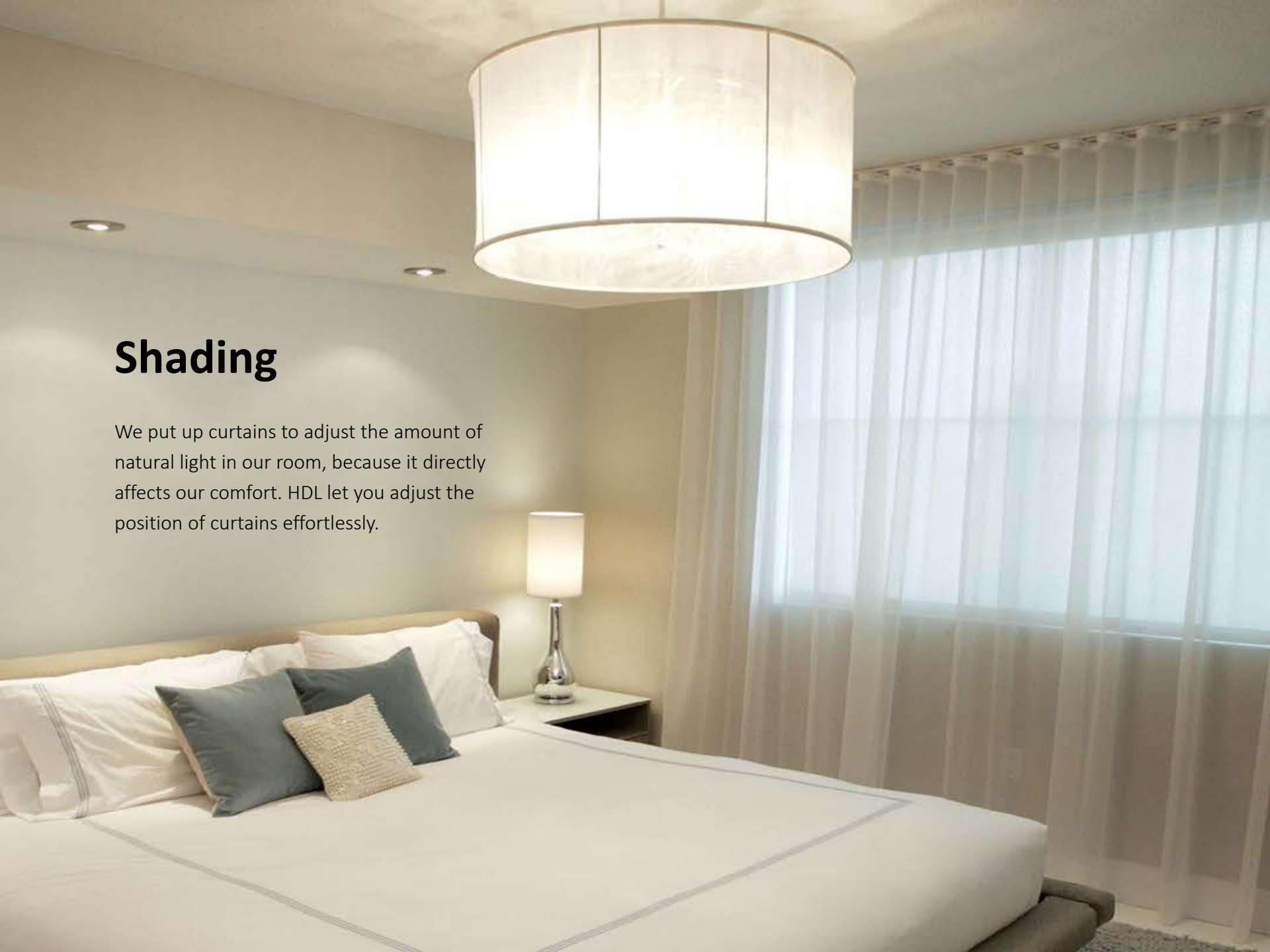
Granite Display

Let the light follow your steps.

With smart systems, we create more possibilities for lighting.

Shading

We put up curtains to adjust the amount of natural light in our room, because it directly affects our comfort. HDL let you adjust the position of curtains effortlessly.

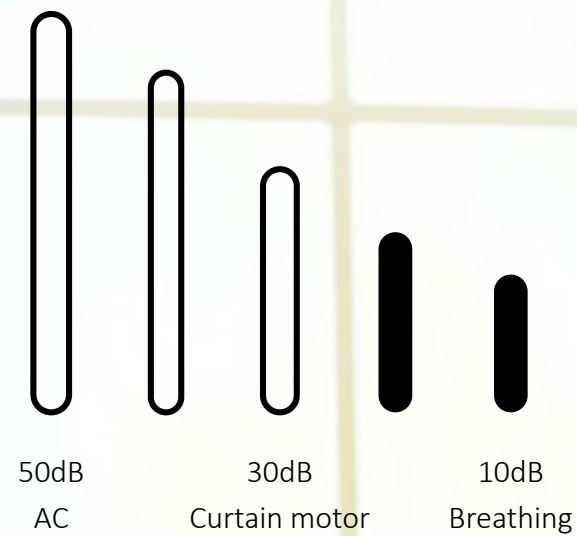


Stop at any position

In the home automated with HDL, your curtains don't have to be fully open or closed, they can be stopped at any position to let in perfect amount of light.

Super quiet

The sound made by the curtain motor is lower than 35dB.
It won't disturb your sleeping baby.



Climate Control

HDL smart home can automatically run the air-conditioning, heating and ventilation system. It keeps the ambience healthy and comfortable for your family. It also gives you intuitive and convenient ways to do it manually. For example, you can set your AC temperature with a mobile phone, or simply touch the wall panel right beside you.



Smart panel



Mobile control



Floor Heating



AC

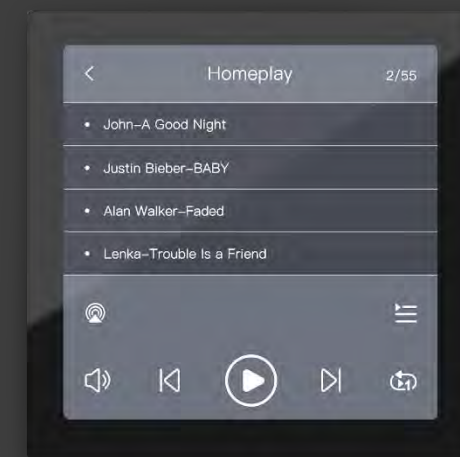


Air Quality

Music

HDL offers background music control in smart home solutions. You can play music from an SD card, a USB drive or your phone. It allows you to manage the music on a wall panel and mobile devices. Your background music can also link with Scenes.

For example, Dinner Mode can go with a piece soft music while controlling the lights over dining room.



Smart panel



Mobile control

Scene control

Scene control provides great convenience to control multiple devices. Just one button away to set the perfect ambience for your activity. For example, we can create a “Romantic” mode, which when you select it, the system will close curtains, turn on color lights and play soft music.



Smart panel



Mobile control

You can select a Scene on a wall panel, mobile phone or the door lock with your fingerprints. What's more, different finger prints can be linked to different Scenes.



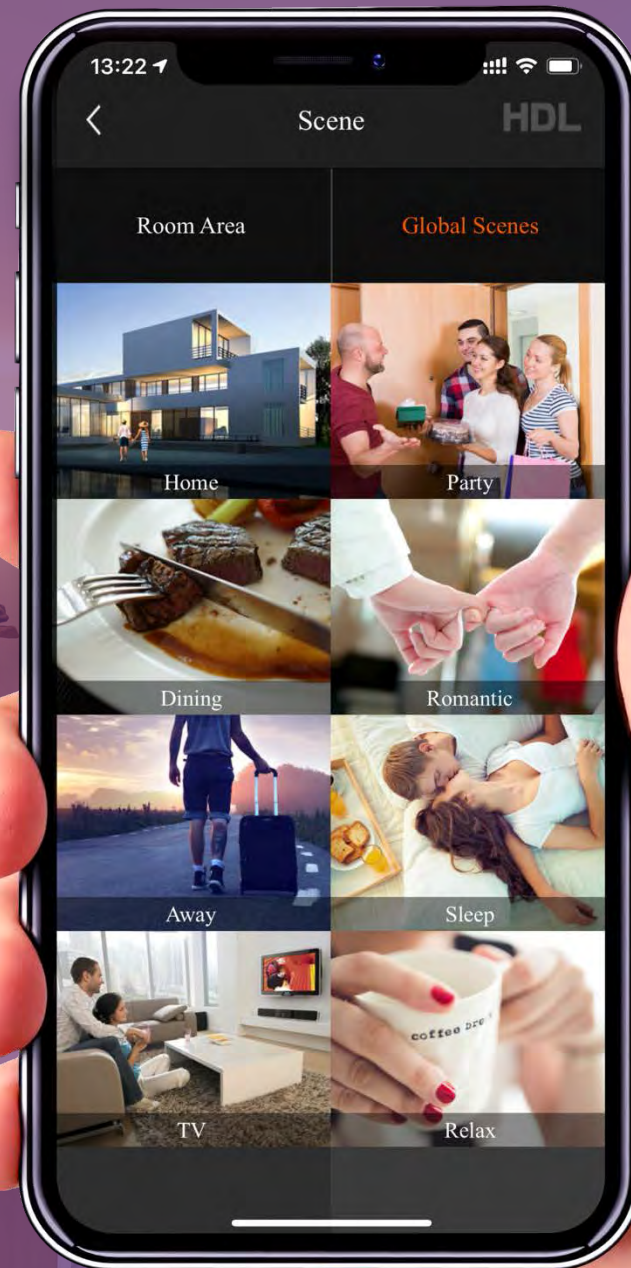
Smart panel



Mobile control



Smart lock



Dining Mode



Party Mode



TV Mode



Night Mode



Romantic Mode



Away Mode



Home Mode



More

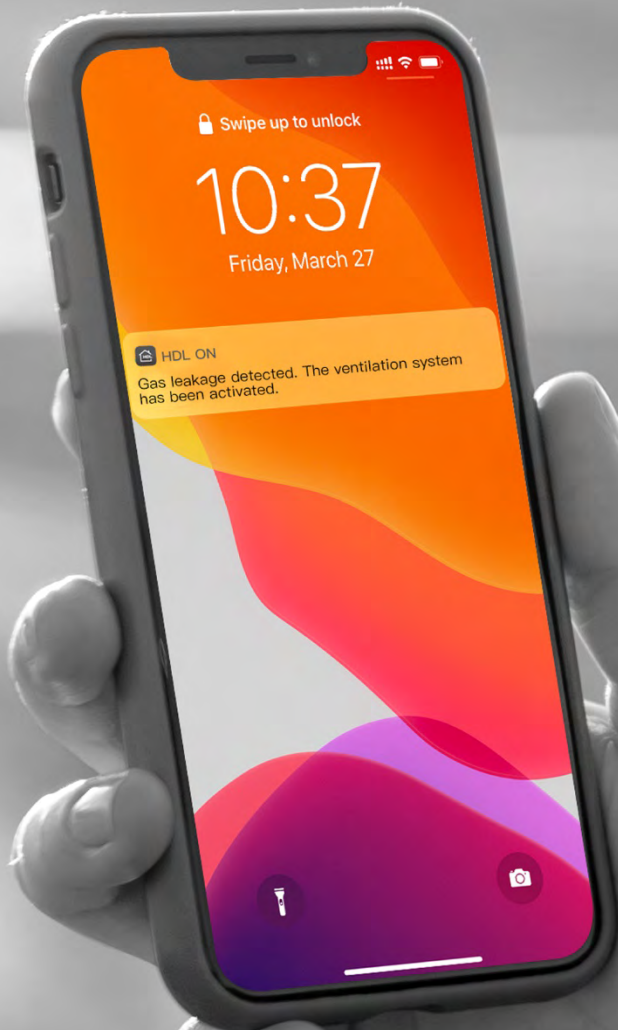
Safety and Security

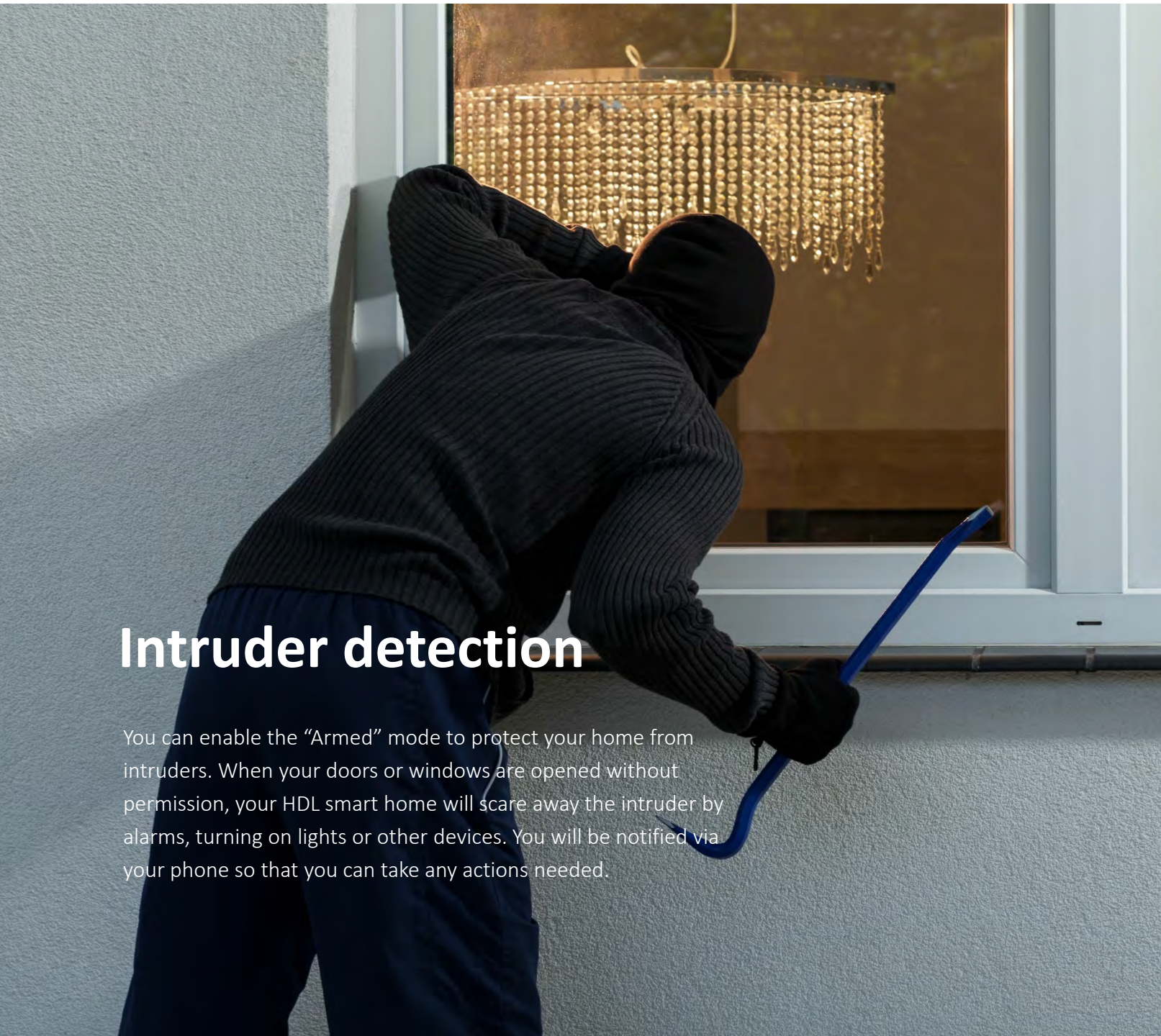
Safety and security are the premises of everything else at home. HDL smart home solution takes care of your home by integrating various devices and functions such as sensors. With HDL smart home, there are many ways to better protect our family.



Smoke detection

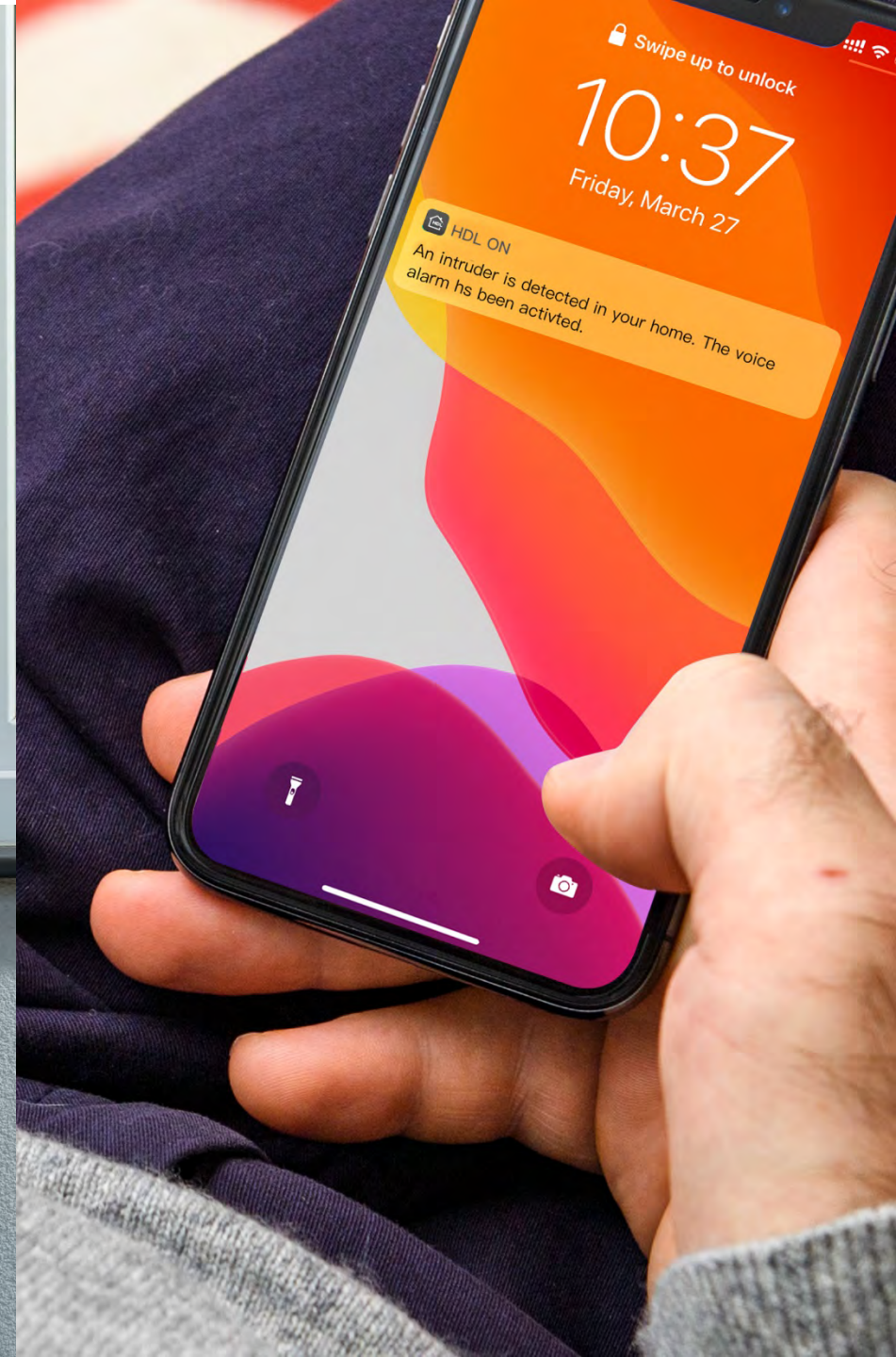
When smoke is detected, the system will trigger alarms in the house. Meanwhile, notifications will be pushed to your phone.





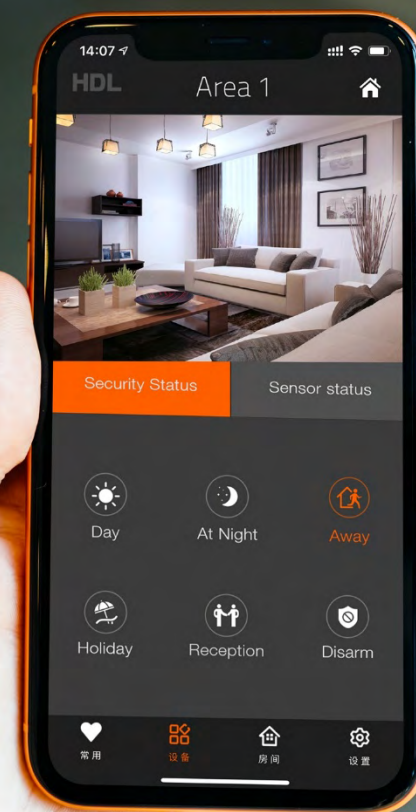
Intruder detection

You can enable the “Armed” mode to protect your home from intruders. When your doors or windows are opened without permission, your HDL smart home will scare away the intruder by alarms, turning on lights or other devices. You will be notified via your phone so that you can take any actions needed.



Security cameras

Wherever you are, you can always learn about the situation of your home by viewing video images on your phone.



Automatic control

With logic settings in the system, devices or functions can be linked to achieve advanced smart features. In many cases, the system makes the judgement and run the tasks automatically. User interference can be largely reduced.



Voice control

More intuitive interaction

Buspro can integrate with Amazon Alexa and Google Assistant. Add HDL Smart Home to your Skills and control your home by speaking.



"Hey Google, turn on the lights."

"Got it."



Personalized Whole-Home Solutions

Your smart home solution is based on your requirements. You decide what functions are integrated and what areas to be automated. Your solution could be a basic one with only a few functions as well as one has all features available. The solution could be applied to the entire house or just a specific room. It's designed only for you.

HDL[®]

Villa / standalone house



Basic



Lighting



AC



Shading

Standard



Lighting



AC



Shading



Music



TV



Smart lock

Premium



Lighting



AC



Shading



Floor heating



Smart lock



Music



TV



Home Cinema



Irrigation



Garage Door

HDL[®]

Apartment



Basic



Lighting



AC



Shading

Standard



Lighting



AC



Shading



Music



TV

Premium



Lighting



AC



Shading



Floor heating



Smart lock



Music



TV



Convenience



Green



Health



Comfort



Safety / Security

Beijing MOMA Apartment Buildings

Total 119 apartments of T7, T8 buildings are automated with HDL smart home solutions.

A 3-floor house, Vancouver

Covering lighting, shading, HVAC, irrigating, safety, security and background music.

Banc Apartment Building, Australia

Solution for the 34 high-end apartments, including lighting, HVAC and music control and intercom system.



Private House in Dubai, United Arab Emirates

Pre-decorated house with 12 Bedrooms is equipped with HDL Buspro solutions.



Smart Building

Improve user experience and reduce operation cost.



Energy Saving



**Operation
Efficiency**



Comfort



Safety & Security



Energy used by commercial buildings is always a major concern. Nowadays, the lighting and HVAC devices consume 70% of the buildings electricity. But half of them are wasted due to inefficient building management systems. With HDL commercial solutions, the buildings reduce at least 30% consumption of power.



Due to the attributes of a commercial building, it is in a strong need of smart management. With commercial building solutions, the management staff can centrally control all the devices in the building through a PC, wall panels or iOS/Android devices. Apart from centralized control, automatic control also can be a great help in improving efficiency.



Buildings can be considered our second skin since we spend almost 75% of our lives in one. The main idea is that a building should adapt to people but not the other way around. For example, with logic setting combining sensors running in the system, the buildings will automatically keep brightness while making full use of natural light, and the HVAC at the comfortable temperature, so as the air quality.

We Can Deliver These Values in Many Ways.

Lighting

- Support various kinds of lights
- Automatic control according to occupancy
- Constant Lighting
- Different lighting effects for different scenes



HVAC

- Multiple control method
- Ensure comfort



Save energy with smart logic

For example, when the window is left open, the system can automatically turn off the air-conditioner.



Shading

- Centralized control
- Accurate control
- Quiet operation





Dubai International Airport

Smart lighting solutions in the baggage handling area, CCTV monitoring office, and the meeting rooms of Terminals one, two, and three.



NATO Headquarters

This commitment to energy efficiency is reinforced by the use of HDL KNX solutions.

Guangzhou Parc Central Plaza

HDL intelligent lighting control system was installed in all public areas of this center.



Smart hotel

enhance accommodation experience and reduce operation cost.

Guest Rooms





HDL Intelligent Hotel Management System

▲ Concierge

▼ Guest room



Lighting

Music

Blinds

Curtains

Monitoring

HVAC
Controller

Flooring
Heating

Data
Management

Impress you guest with a Welcome Mode.



Lights



Curtains

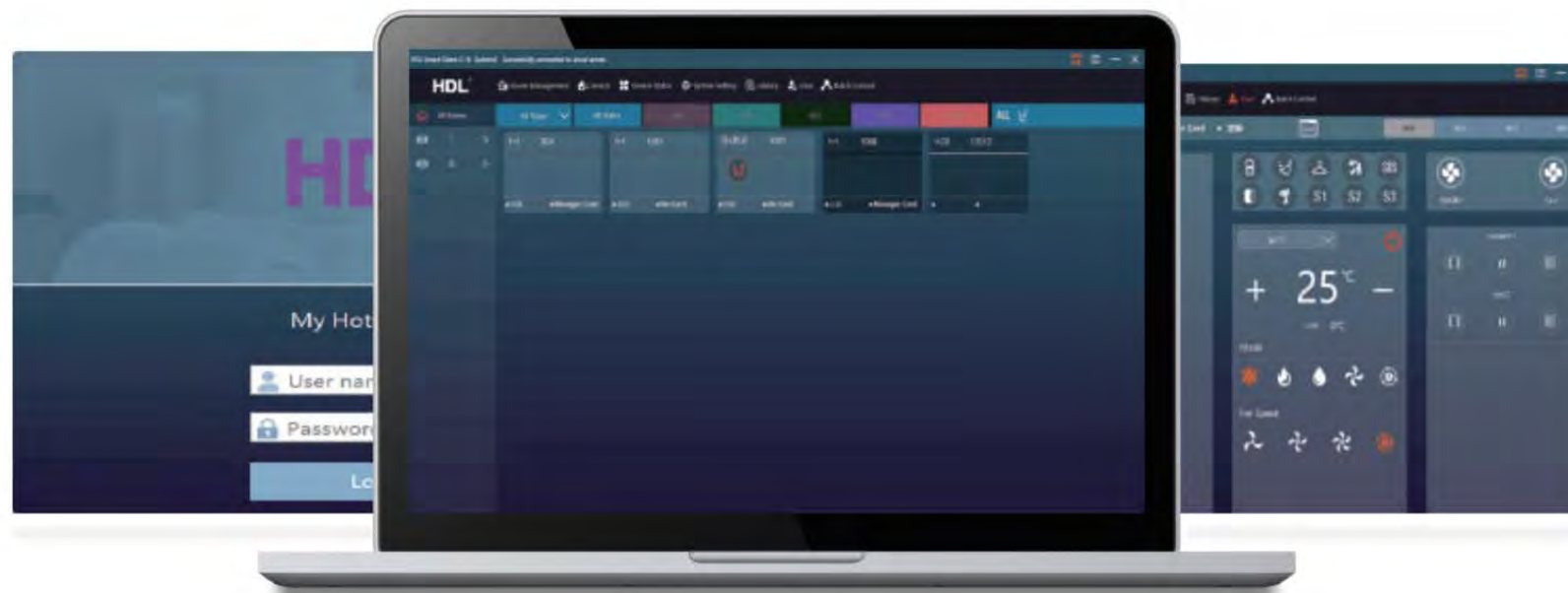


AC



Music

HDL Intelligent Hotel Management Software



Integrate with PMS



GreenCloud



CSHotel



Luopan



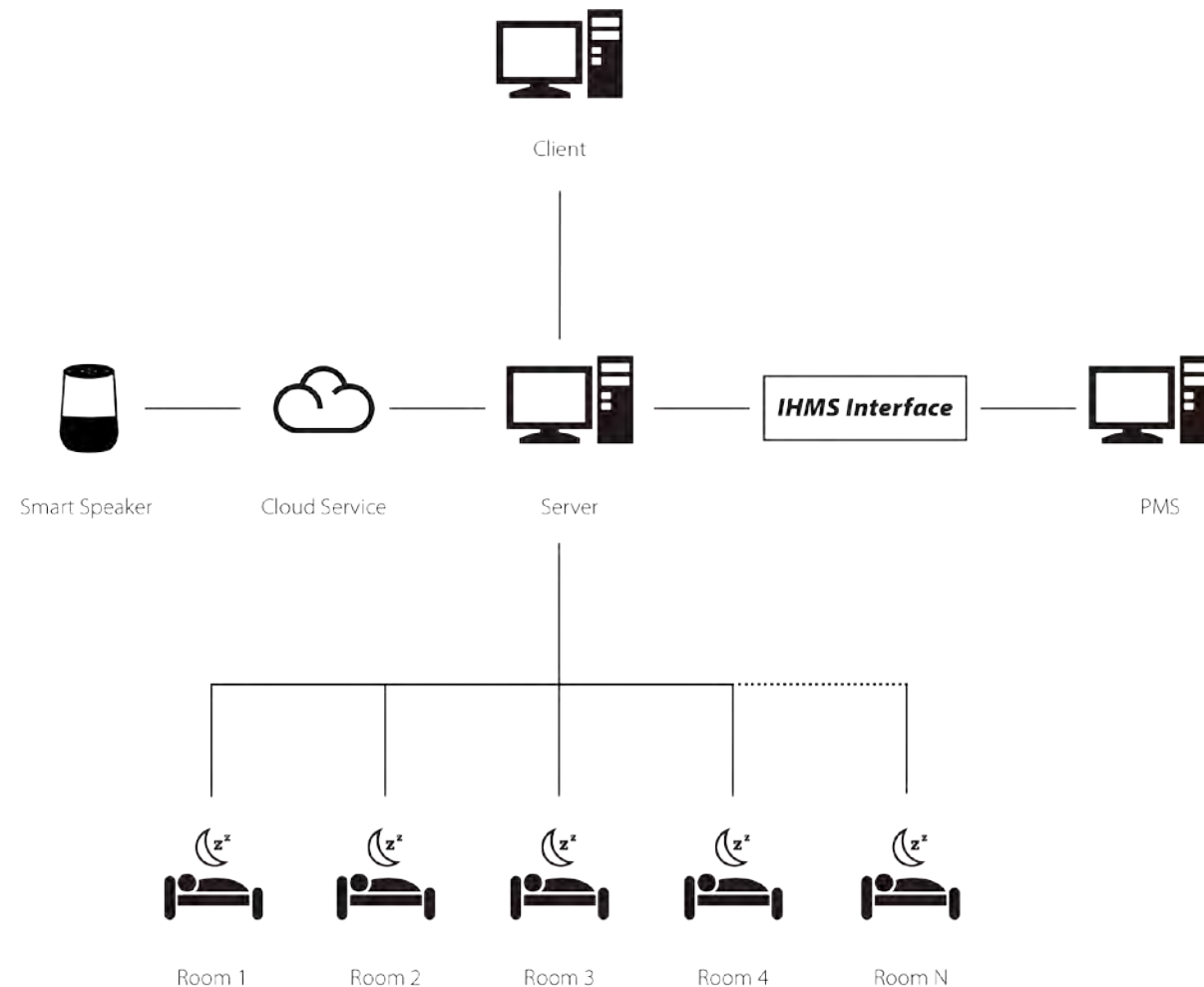
XR



Opera

Minimize labor cost

HDL Intelligent Hotel Management System (IHMS) works with HDL's smart hotel system. It enables the hotel to manage its guest rooms, room cards and services on a desktop computer, while allowing guest to control room devices via a wall panel, mobile app or smart speaker. IHMS consists of the local server, cloud server, client, room cards management tool and APIs.



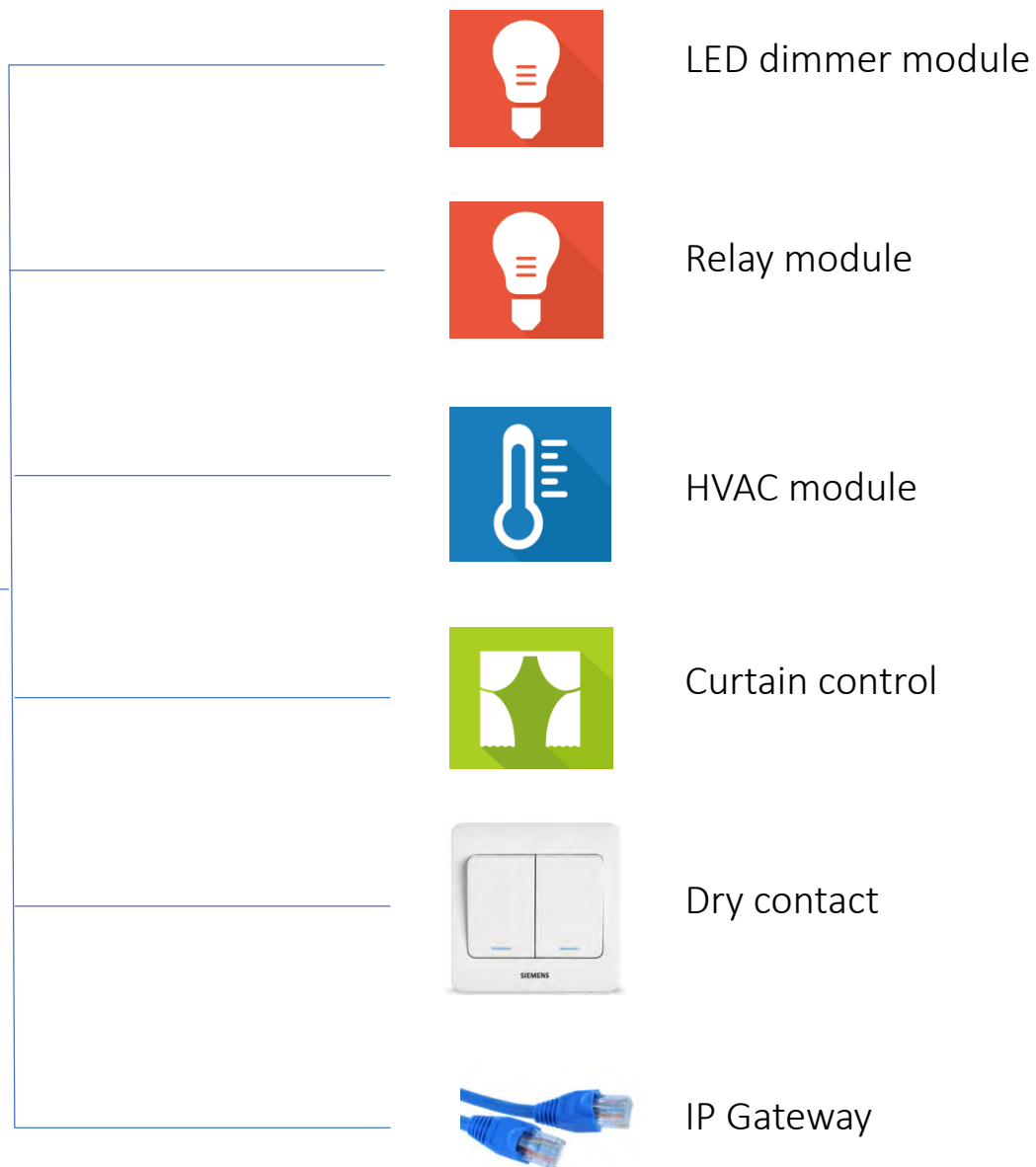
Topology of HDL Intelligent Hotel Management System

Room Control Unit (RCU)



MHRCU.433 RCU module

- 13CH 5A Relay
- 4CH 10A Relay
- 4CH 1A Dimming
- 24CH Dry Contact



LED dimmer module



Relay module



HVAC module



Curtain control



Dry contact



IP Gateway

Public Areas



Lobby

- Lighting
- Timing event
- VRV
- Background music
- Scene control
- Logic setting
- Electrical protection
- Lux sensor

Banquet/Restaurant/Cafe

- Preset lighting effect
- Background music
- Power distribution system
- Timing event
- Stage lighting
- Air conditioning

Meeting Room

- Lightng control
- Projection
- Shading
- Sound



Corridor/Stair

- Building Management System
- Video surveillance
- Motion sensor
- Brightness control
- Emergency lighting
- Logic setting

Landscape

- Timing irrigation
- Floodlighting
- Timing event
- Lux sensor
- Swimming pool
- Logic setting
- Video surveillance

Ideal for Any Hotel



Luxury Hotels

Give your guests a truly five star service through fully automating all public areas and guest rooms. With shading, lighting, HVAC, and audio controlled automatically staff can concentrate on maximizing guest satisfaction.



Resorts

Buspro is capable of controlling air-conditioning, pool temperature, outdoor lighting, sauna temperature, and a host of other hotel amenities.

Ideal for Any Hotel



Boutique Hotels

Control the entire building's lighting, HVAC, and security from a single point. Reduce your carbon footprint, and minimize energy costs.



Hostels

With smart locks, smart metering, and on demand energy usage hostels can provide a more secure and energy efficient environment.

Various hotel brands are using HDL products.



Dubai Gevora Hotel

The highest hotel in the world. 528 Rooms are automated with HDL Buspro Wireless solution 2018



Park Hyatt Sydney, Australia

155 guest rooms are automated with HDL hospitality solution.



WYNDHAM GRAND Yangon Myanmar

260 Rooms and Public Area are automated with HDL solution. 2018



InterContinental London – The O2 Hotel, UK

A hotel next to the O2 Arena. The 453 guest rooms are automated with HDL KNX Panels



Morpheus Hotel in Macau

Designed by the legendary architect Zaha Hadid, its public areas and 779 guest rooms are automated with HDL hospitality solutions.



HDL smart panels are installed at the bedside table, bathroom, and doorway.

- Single control
- Scene control



Lighting



AC



Curtain



TV

The lighting effects are designed by a British firm called ISOMETRIX, while implemented with HDL solutions and devices. The combination of lighting and architect design makes people feel like walking in a place of science fiction.

- 0-10 V dimming
- DALI
- Leading-edge dimming
- Trailing-edge dimming



Lighting



AC



Why HDL?



One-stop service



Whole home solutions



Eye-catching panels



Reliable products



Excellent interactive experience



Rich projects



mature solution and technology



Professional technical support
& Perfect customer service



Outstanding brand

HDL[®]

Serious about smart buildings.