

# homescenario

Smart home made easy!



## Smart Hotel

HomeScenario, Inc.



**HomeScenario:**  
*AIoT Smart Building Expert*

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- SIP/IP Intercom System
- Integrated Alarm, Access Control, Monitoring
- Cloud Service Platform
- Smart Home
- Energy Management

Integrated Smart Building Solution



IP Intercom Indoor Station

Video Door Bell

Outdoor Intercom Station



IP Intercom Management Console



RFID Access Controller

# HomeScenario Business Scope Vertical Applications



Apartment  
住宅大樓



Villa  
別墅



Office  
商業大樓



Hotel  
旅館



School  
學校



Meeting Room  
會議室



Industry  
工廠



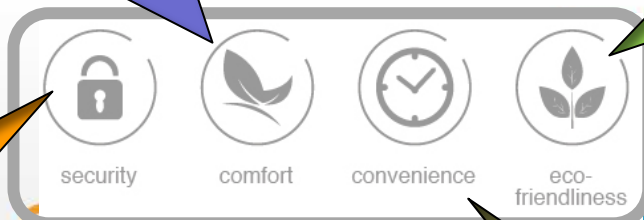
Government  
政府

# HomeScenario: Cloud AIoT Solution Provider

- Home Automation
- Scenario Control

- Smart Metering
- Energy Management

- SIP/IP Intercom
- Access Control
- Alarm & Perimeter Protection
- Video Monitoring



- Building Automation
- Concierge System
- Control *Anywhere*

Smart Home | Smart Building | Smart City

**Smart Hotel:**  
*Architecture & Application*

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# Demands for Smart Hotel

- **Peace-of-mind:**
  - *Secure* (protecting people and assets, alarm notifications)
  - *Green* (energy saving, eco-friendly)
  - *Convenient* (ease-of-use, higher productivity)
  - *Comfort* (faculty/students satisfaction, quality of working)
- **Unified communication:**
  - Integrated intercom and telephone
  - Message and concierge service
- **Everything under control:**
  - Lighting, dimming
  - Motorized curtain, shades, gates
  - HVAC, air-conditioner
  - Audio/video
  - Sensors, video monitoring
  - Smart and automatic scenario
- **Anytime, anywhere:**
  - Touch panel
  - iPhone/iPad/Android



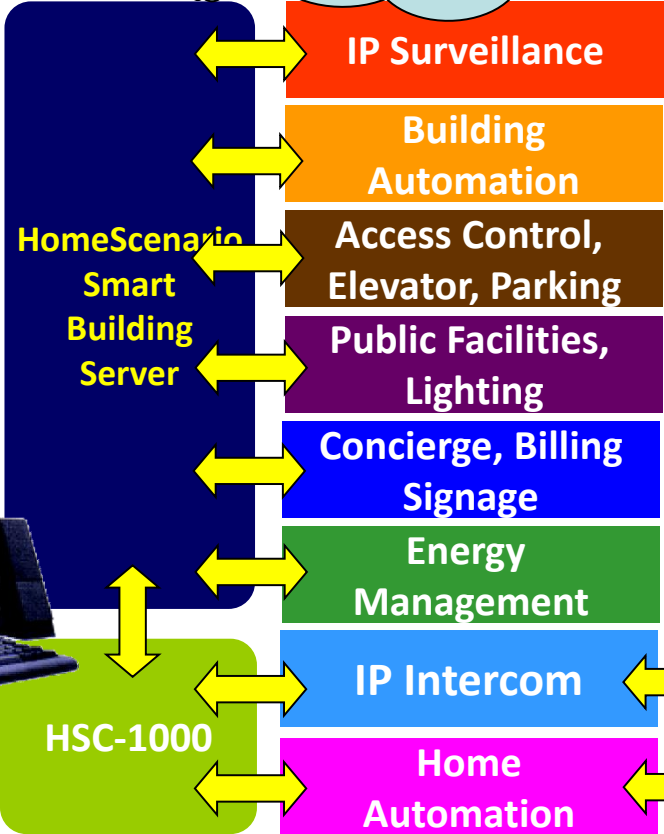
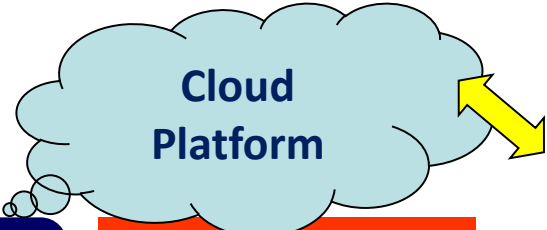
# The Hotel Systems



- Systems to be properly integrated
- Unified control interface
- Controlled anywhere
- Collecting real-time information such as power metering, sensor status, video recording
- Auto send notification or trigger preset scenario



# We Integrate and Make Smart Building Systems Work In Harmony

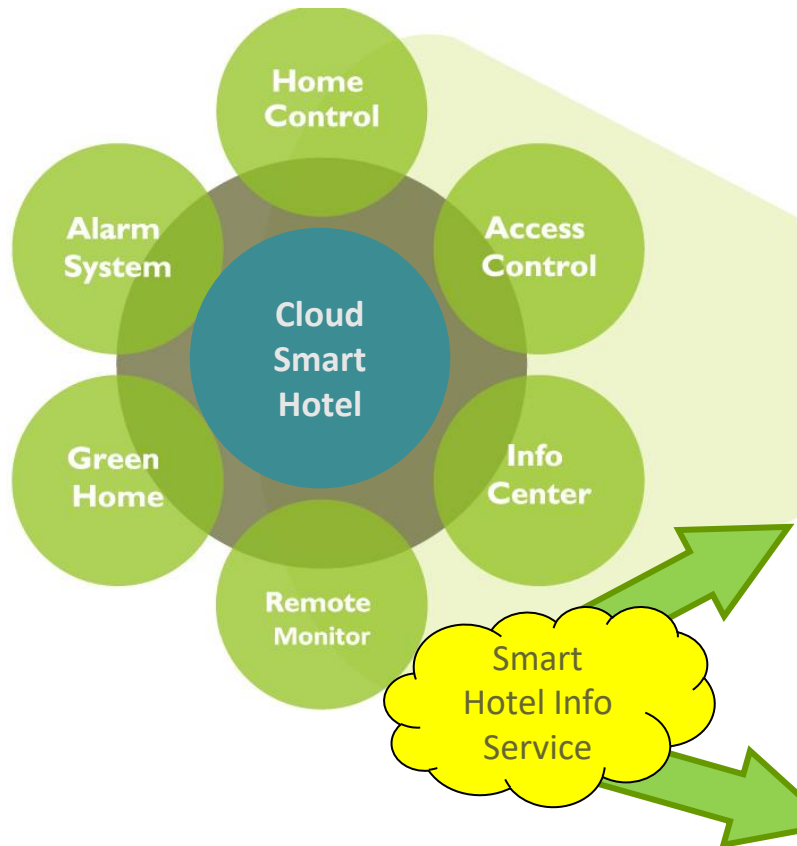


- Flexible architecture to facilitate 3<sup>rd</sup> party System Integration for smart building services
- Users to control and always get informed wherever they are!



## User Interfaces

- *Multi-functional integration*
- *Fully customized scenarios and user interfaces*
- *Easy to deploy, wired and wireless*
- *Notified, monitor and control from anywhere*



# Smart IoT Hotel via LINE@



- App “without App”
- PUSH message upon alarm or service
- Multiple user registration for one Hotel
- Features:
  - Alarm arm/disarm
  - Smart control
  - Call guard
  - Monitor video
  - Receive service information
  - Photo album
  - Access control
- Flexible Operation
  - Function button
  - Dialog flow
  - Web UI
  - Integration with 3<sup>rd</sup> party service

# Smart Hotel *Intercom* Applications

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# SIP-Based *Cloud Intercom*

(SIP Cloud Intercom)

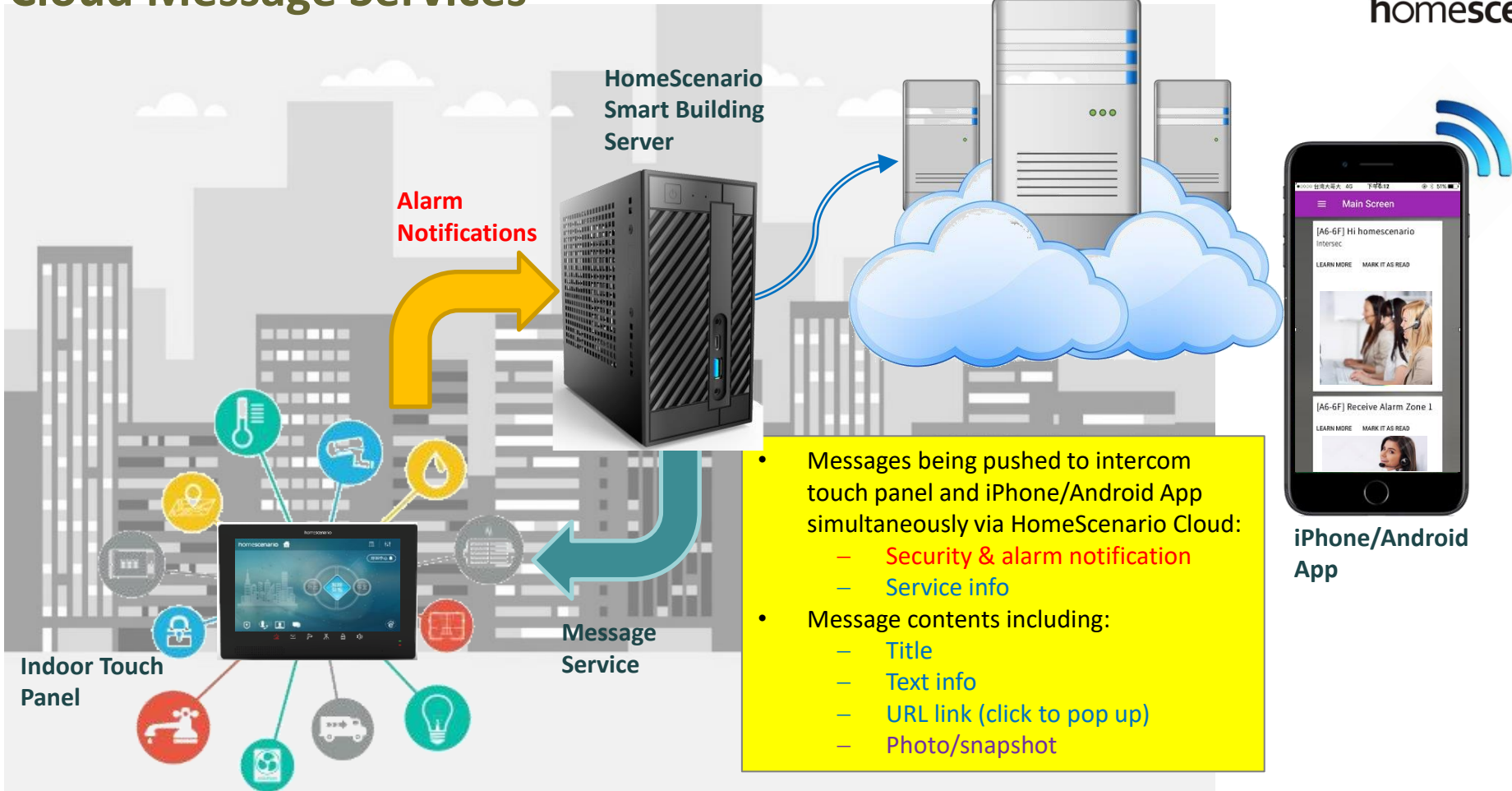


Smart Hotel *Alarm & Access*  
*Control* Applications

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# Cloud Message Services



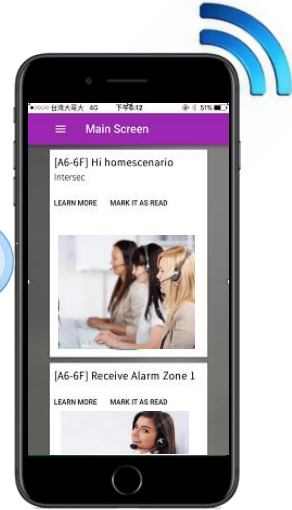
Alarm  
Notifications

HomeScenario  
Smart Building  
Server

HomeScenario  
Cloud Server

Indoor Touch  
Panel

Message  
Service



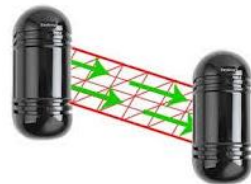
iPhone/Android  
App

- Messages being pushed to intercom touch panel and iPhone/Android App simultaneously via HomeScenario Cloud:
  - Security & alarm notification
  - Service info
- Message contents including:
  - Title
  - Text info
  - URL link (click to pop up)
  - Photo/snapshot

# Multiple Sensor Zone Protection



Intercom touch panel is also the *Alarm Control Panel*





# Multi Access Control:

*RFID, QR Code, LPR, Face*

User database and condition settings



**HSC-1010W**  
Smart Building Server



Event Report



Database Sync



(LAN)



**HBT-820D**

IP Outdoor Station



**HBE-700D**

IP Public Intercom Station



**HBR-300**

IP Access Controller

- Via IP network, system supports various intercom stations and access controller
- Can be expanded to cover biometrics e.g. face recognition and fingerprint
- Each user can be granted with individual permission according to ID, time, condition, etc.
- System can be applied to door access, elevator control, parking etc.
- Server can update user database and synchronize to access controller; stored at equipment storage it can work online or offline



Door Access



Elevator Floor Control



Parking



Lobby Entrance

# Advanced Access Control Integration



Face Recognition



Finger Print



QR Code



LPR



eTag

# Smart Hotel *Automation*

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# IP Intercom + Smart Hotel

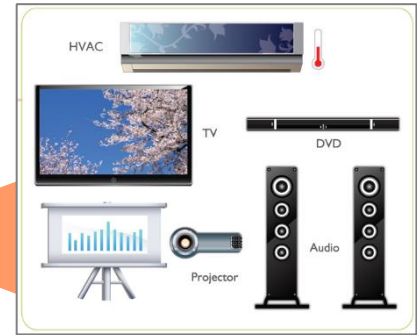
## Wired System for MDU/MTU



Wi-Fi/3G  
RF



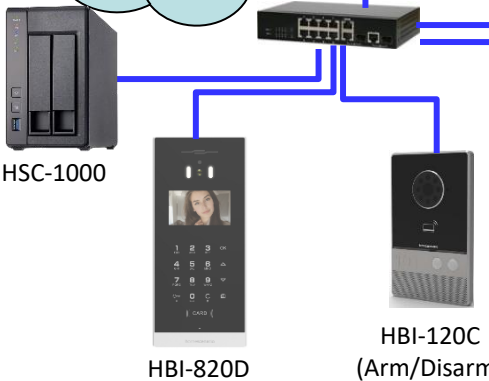
Smart Door Lock  
(battery powered)



A/V,  
Air-Con



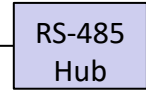
Cloud  
Platform



HBI-1000



HBC-100



RS-485  
Hub



HBI-300



HSK-250L



IR



HBA-200



Shutter  
Switch  
(Curtain)



Gas Valve



Wired Sensors



Scenario  
Button



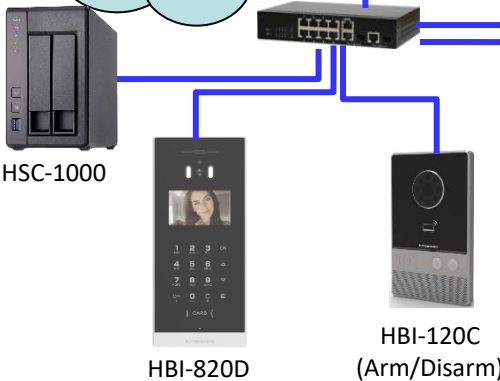
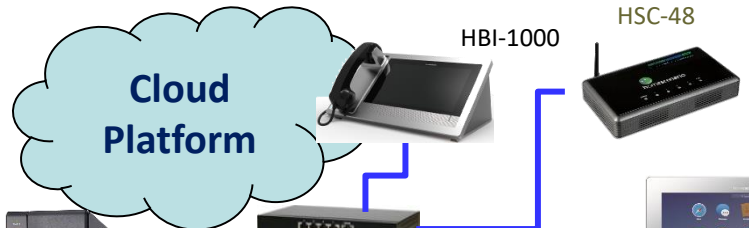
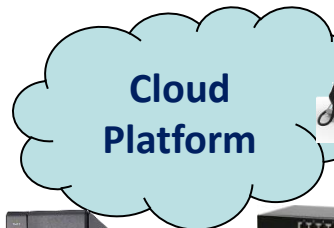
Light

# IP Intercom + Smart Hotel

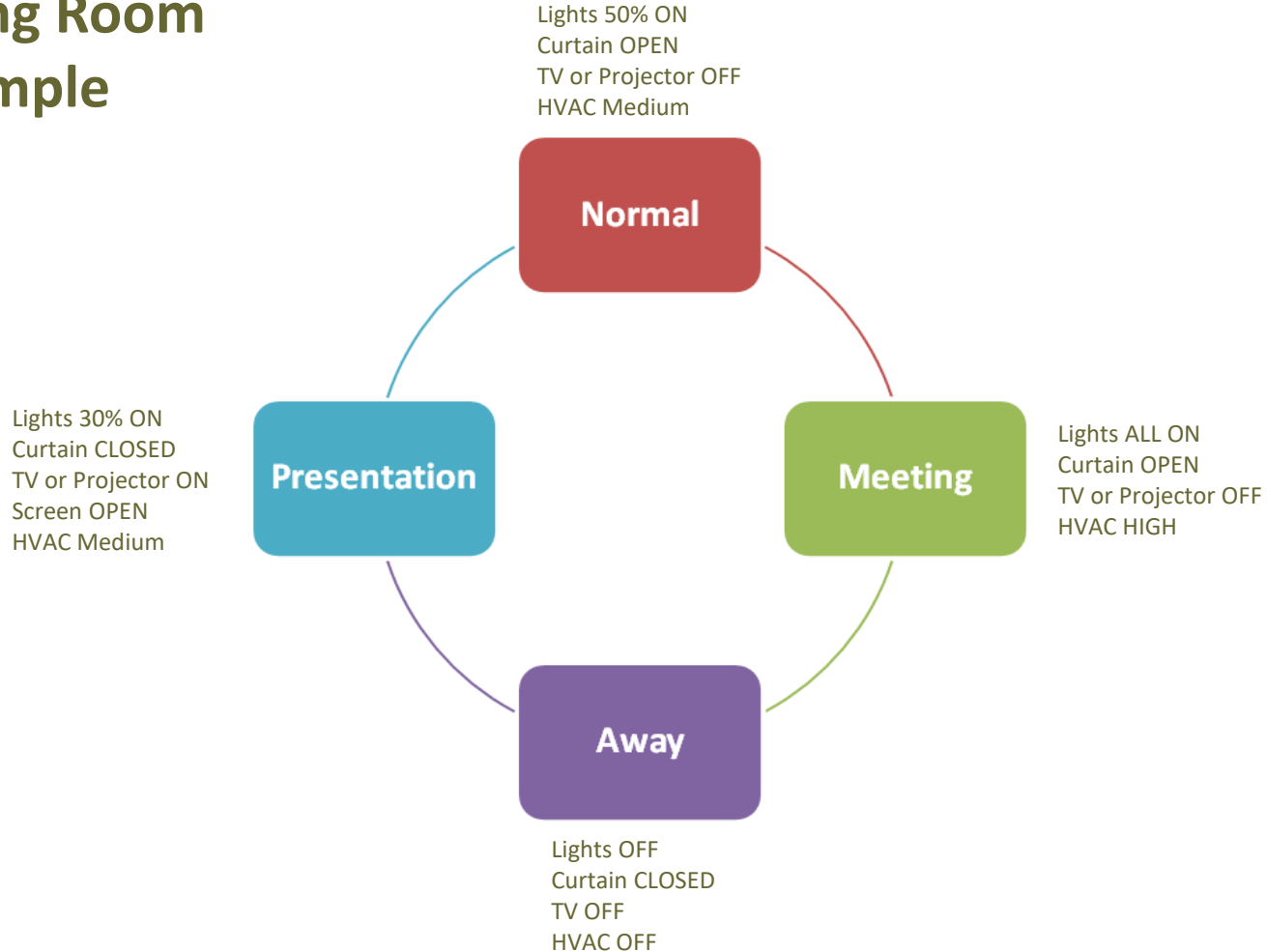
## Wireless System for MDU/MTU



Wi-Fi/3G  
RF



# Smart Meeting Room Scenario Example



# Smart Hotel *Energy* *Management*

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# Building Blocks

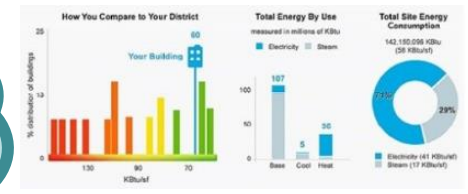
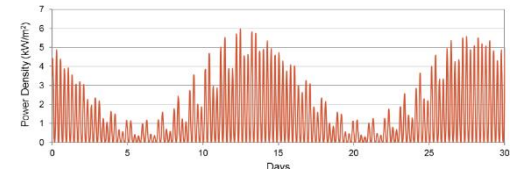
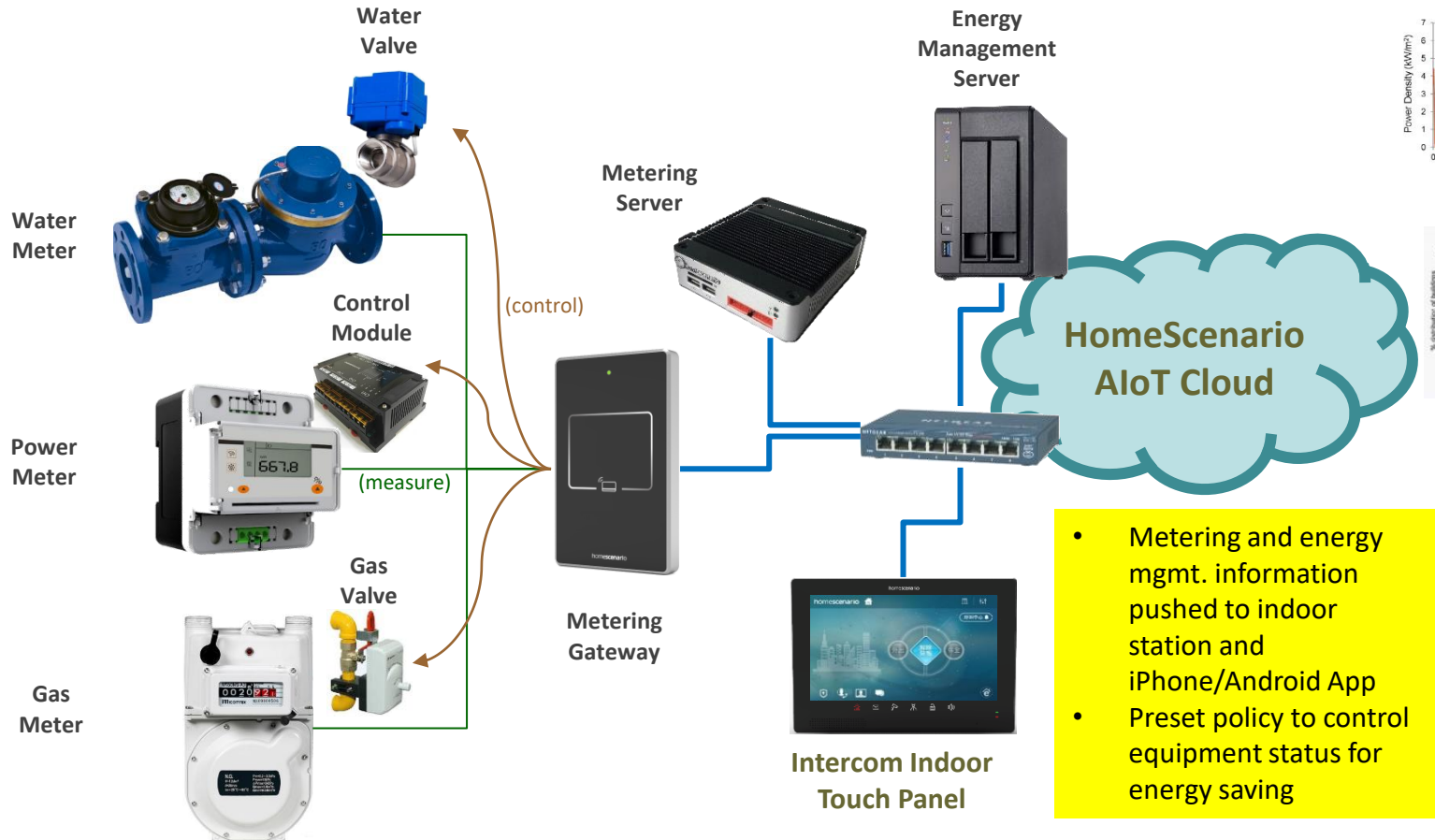


- Power meter
- Water meter
- Gas meter
- Air quality e.g. PM 2.5
- Temperature & humidity
- Light luminance
- RPM, mileage
- etc.

- Statistics, charts, comparison tables, histograms
- 24x7 pricing table
- Policies, benchmarks, conditions
- Automation, control, scenario activation
- etc.

- User-based accounting system
- Prepayments/receivables, wallet balance
- Cloud back-up
- Cloud message notification
- etc.

# Application Diagram



- Metering and energy mgmt. information pushed to indoor station and iPhone/Android App
- Preset policy to control equipment status for energy saving



iPhone/Android App

# Application Introduction



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- **Real-time smart metering & display, e.g.:**
  - Power meter
  - Water meter
  - Gas meter
- **Energy consumption statistics:**
  - Histogram (daily, weekly, monthly) for whole building or selected units/zones
  - Average, ranking, etc.
- **Cost calculations according to 24x7 pricing table**
- **Billing and prepayment system**
- **Cloud-based push message service**
- **Smart control:**
  - Lighting on/off/dim
  - Air-conditioner
  - Water valve
  - Gas valve
- **Integrated user interfaces:**
  - PC monitor in management Hotel
  - Touch panel in each room/zone
  - iPhone/Android App

# Smart Hotel Feature Summary

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# Integrated Features

- **SIP/IP Intercom:**
  - Indoor station vs. outdoor video phone
  - Indoor station vs. video doorbell
  - Door to door intercom
  - Call mgmt. center operator
  - Forward incoming call to *iPhone/Android anywhere*
- **Access Control:**
  - Indoor station or mgmt. console to unlock door during intercom
  - Centralized management access control via *Mifare RFID*
  - *Elevator* floor access control, call elevator
- **Alarm System:**
  - System arm/disarm
  - Instant alert to mgmt. center
  - Instant siren alert
  - (Optional) Instant alert to homeowner via e-mail/SMS or *iPhone/Android* pushed message

# Integrated Features (cont'd)

- **Information Feeds:**

- Publish news/alerts/announcements from mgmt. center, to ALL or SELECTED *indoor touch panel or iPhone/Android*
- Updated temperature, weather conditions, etc.

- **Smart Home Automation:**

- Home controls:
  - Lighting on/off/dim
  - Appliance on/off
  - Window shades
  - Thermostats
  - Audio/video
- *Scenario* control; one touch does it all
- Control via indoor station, *iPhone/iPad/Android*

- **Control *Anywhere*:**

- Via *3G/4G, Wi-Fi or internet*
- SMS/email notification
- Camera video monitoring

# Integrated Features (cont'd)

## ● Energy Management:

- Always collects energy consumption values via digital meters such as *Power, Water, Gas*
- Reports energy metering information:
  - *Real-time* energy consumption
  - *Histogram* chart (daily, weekly, monthly etc.)
  - *Comparison* table
  - Others
- Sets benchmark value and sends *alert* notification if real-time value over benchmark
- *Controls* equipment or appliance to reduce energy consumption, e.g.:
  - Lighting
  - Air-conditioner
  - Gas valve
  - Water valve/pump
  - Etc.
- Prepares *billing and accounting*:
  - Prepayment
  - Balance check and notification

# Smart Hotel *Building* *Automation*

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# Building Automation System Architecture

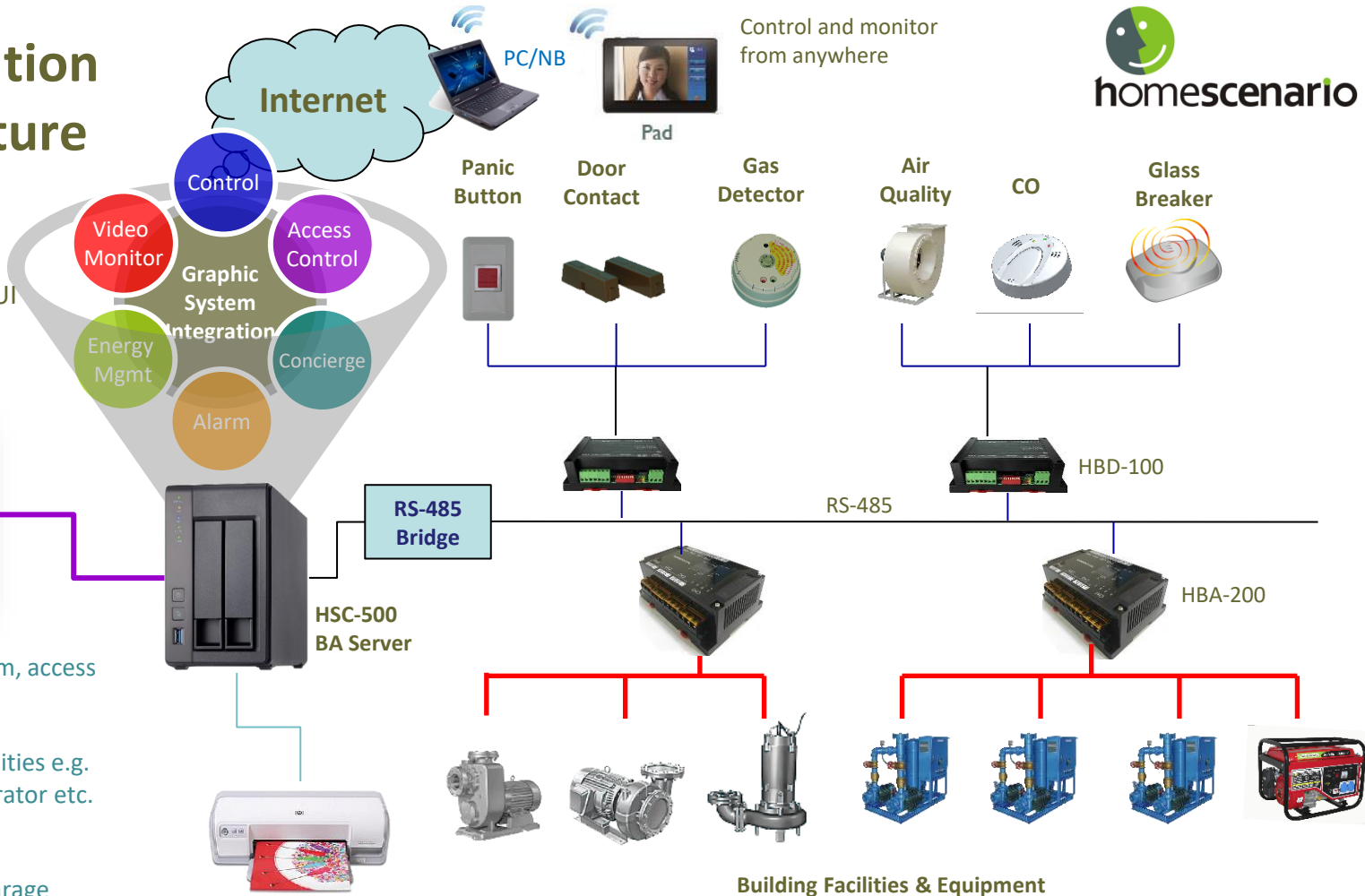


## Centralized Monitoring

(web-based, smart scenario automation with customized UI and animated graphics over electronic floor plan or map)



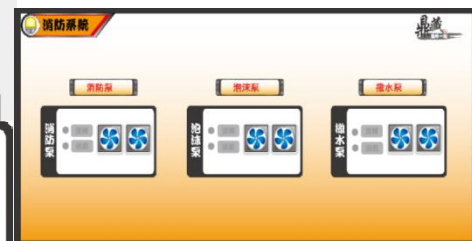
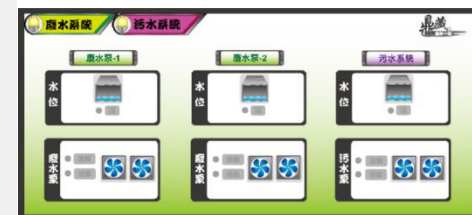
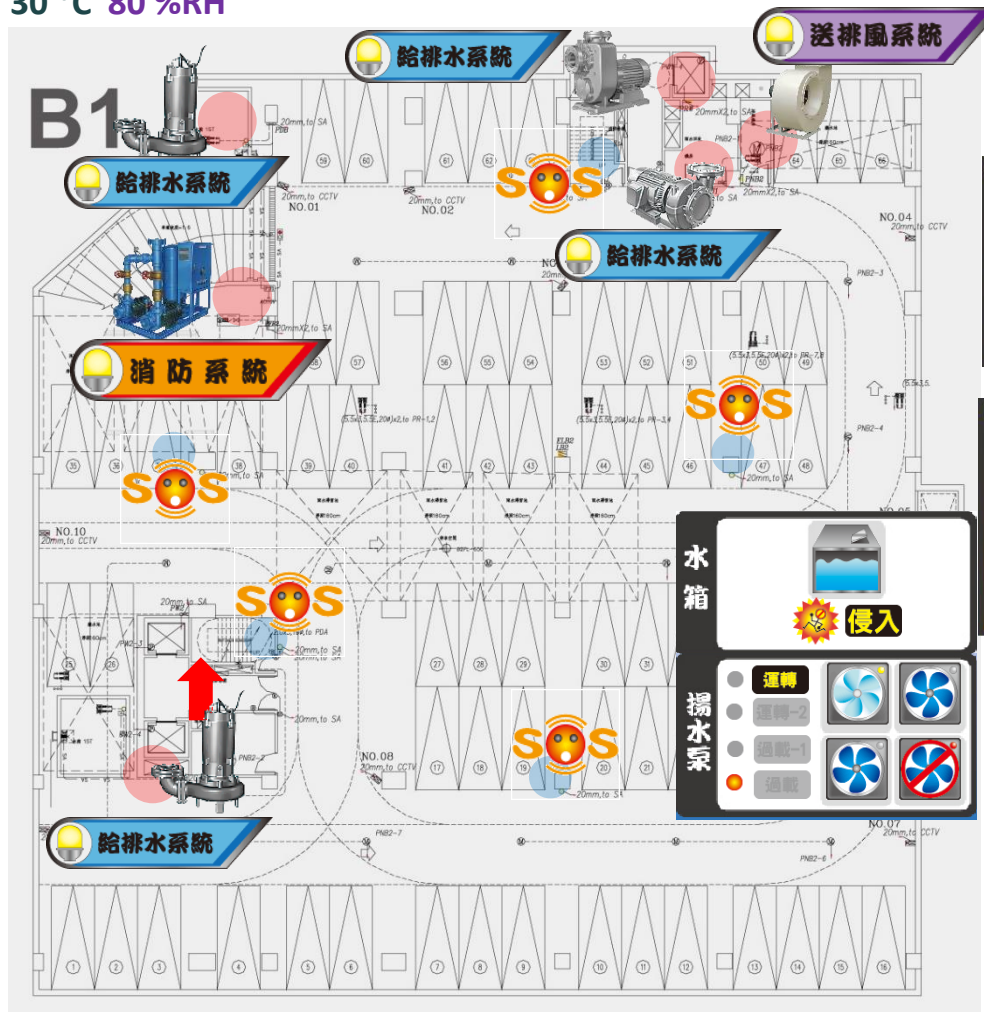
- Real-time security alarm, fire alarm, access control, intercom event/activity notifications
- Monitoring status for various facilities e.g. water pump, oil tank, diesel generator etc.
- Sensor status around the building
- IP camera video-on-demand
- Automatically controls lighting, garage gate, HVAC, etc.



30 °C 80 %RH

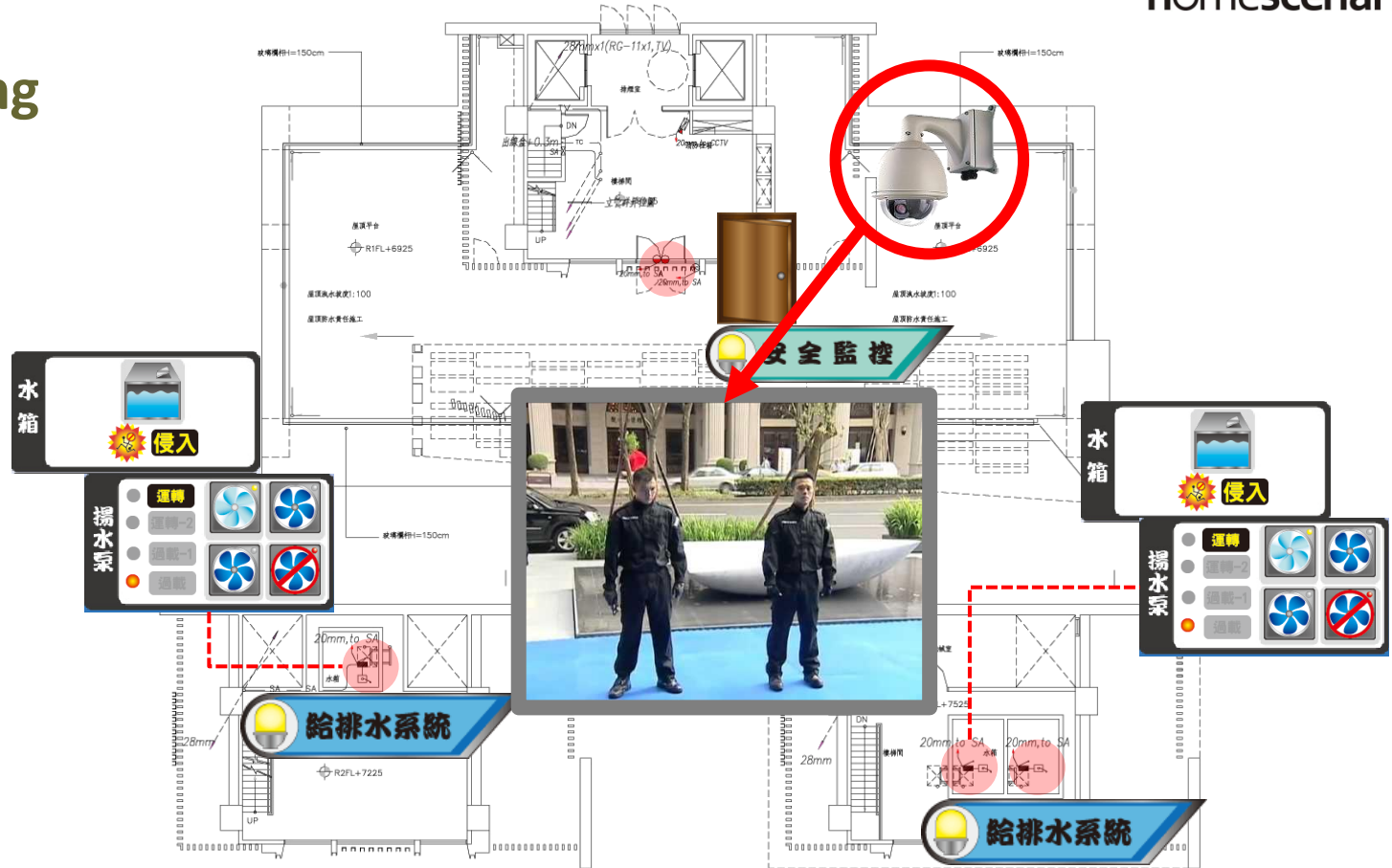
# Alarm & Facility Maintenance Application

- Equipment real-time operation status
- Environmental parameters (e.g. temperature, humidity, luminance, air-quality etc.)
- Resource (e.g. water, oil) stock level and auto adjustment
- Sensor or panic button alarm notification



# Access Control, Camera Monitoring Application

- Watch camera video on-demand
- Integration with building access control & fire alarm system
- Unlock door on-screen



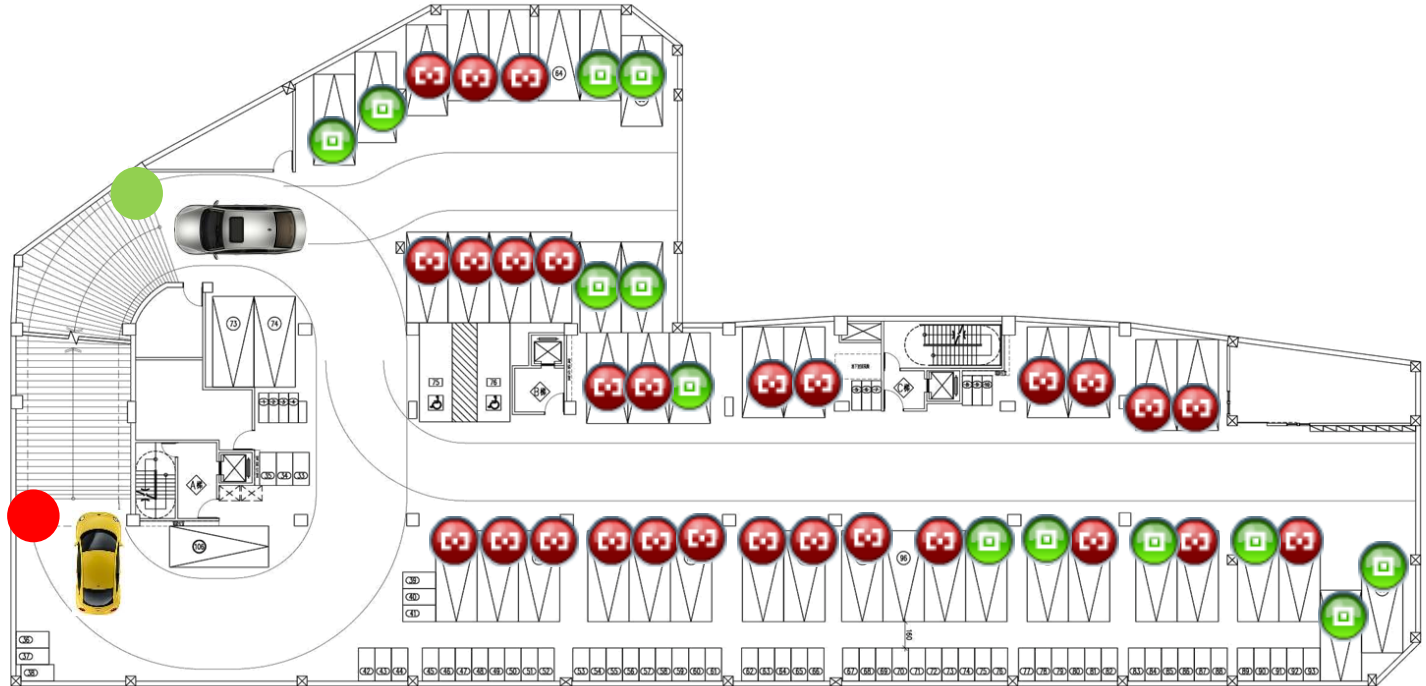
# Integration with Intercom, Alarm, Access Control

- Intercom parties and status
- Alarm arm/disarm status
- Door open/close status
- Floor position of elevator, control elevator



# Parking Space Management

- Real-time parking space availability
- Traffic light guidance for parking entrance and pass way



## Main Products

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# IP Video Doorbell



**HBE-100C**

Features	Technical Spec
<ul style="list-style-type: none"><li>• Wide angle, high quality CMOS camera</li><li>• Elegant industrial design with painted ABS frame and tempered glass front panel; which can well fit various interior design styles</li><li>• Wall-mount 1-gang installation, slim outlook thickness</li><li>• Supports IP network, works with HBE-200/310 indoor stations</li><li>• LED illumination during intercom for night vision</li><li>• Automatic snapshot during intercom for further verifications</li><li>• Indoor station can monitor camera video from HBE-100C</li><li>• Embedded RFID reader for controlling door lock or security alarm arm/disarm</li></ul>	<ul style="list-style-type: none"><li>• Power 12-24V DC</li><li>• Camera CMOS wide angle</li><li>• Op. Power 4.5W</li><li>• Standby 0.5W</li><li>• RFID Mifare 13.56MHz</li><li>• Network RJ-45 Ethernet</li><li>• I/O Lock/Open</li><li>• Installation 1-Gang</li><li>• Protection Indoor/Outdoor</li><li>• Materials Painted ABS frame, with glass-type front panel</li></ul>

# 10.1" IP Indoor Station



**HBE-200 (7")**



**HBE-310 (10.1")**

Features	Technical Spec
<ul style="list-style-type: none"> <li>• 7" or 10.1" LCD with capacitive touch panel</li> <li>• Elegant, slim industrial design with painted ABS frame and tempered glass front panel</li> <li>• Integrated features: alarm (8 zones), intercom, monitoring, message service, home automation</li> <li>• Integrated access control such as door lock, elevator floor control</li> <li>• Video intercom with video doorbell, outdoor intercom station, intercom console, and other indoor stations in the same network</li> <li>• Monitors video from video doorbell, outdoor station, CCTV/DVR or IP camera (via HBI-VS)</li> <li>• Displays information messages</li> <li>• Home automation user interfaces for controlling lighting, thermostats, window shades, audio/video, etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Power 12-24V DC</li> <li>• Display 7" or 10.1" TFT LCD</li> <li>• Touch Panel Capacitive</li> <li>• Network RJ-45 Ethernet</li> <li>• Alarm Input 8 zones</li> <li>• Siren Output 1x (optional)</li> <li>• Serial RS-485 (optional)</li> <li>• Installation Wall-mount</li> <li>• Protection Indoor</li> <li>• Materials Painted ABS frame, tempered glass front panel</li> </ul>



# Smart Home Control Gateway



**HBC-100**

Features	Technical Spec
<ul style="list-style-type: none"><li>• Can expand RS-485 for wired smart home control</li><li>• Also supports Z-Wave 2-way mesh networking, RF range up to 30m indoors</li><li>• Provides digital input/output connections</li><li>• Controls various home systems, e.g. light switch, thermostat, door access, window shades, security monitoring, A/V equipment, as well as scenarios</li><li>• Controls via iPhone/iPad/Android/intercom touch panel</li><li>• Always updates system status and allows controlling from anywhere via HomeScenario AIoT Cloud Platform</li><li>• Works with central management server for large scale deployment with HomeScenario Smart Building System</li></ul>	<ul style="list-style-type: none"><li>• Power 12V DC</li><li>• LAN RJ-45 Ethernet</li><li>• Wireless Wi-Fi/Z-Wave</li><li>• Installation Desktop</li><li>• DI 4x</li><li>• DO 1x</li><li>• Serial RS-485 (USB)</li><li>• Program Button for device program/association and Hotel reset</li></ul>

# Smart Home I/O Module



**HBA-200/210**

Features	Technical Spec
<ul style="list-style-type: none"><li>• Supports RS-485/Modbus for wired smart home control</li><li>• Provides 8 NC/NO relay outputs with high rating, which can be used to control lighting on/off or window curtain</li><li>• Can be used to switch load of AC or DC</li><li>• Max loading (each load): Resistive 20A x4, 10A x4</li><li>• Also provides 8-channel digital inputs, which can be connected with sensor or scenario button</li><li>• DIN-Rail installation</li></ul>	<ul style="list-style-type: none"><li>• Serial RS-485</li><li>• Digital Input 8x digital inputs, terminal blocks</li><li>• Relay Output 4x 20A, 4x 10A COM/NC/NO; terminal blocks</li><li>• N Neutral wire, for power status detection</li><li>• Installation DIN-Rail</li><li>• Dimension 155x110x60mm</li></ul>

# IR Control Station



**HSK-250Z**

Features	Technical Spec
<ul style="list-style-type: none"> <li>• Receives commands from gateway and transmits IR signals, either by internal IR transmitter, or IR emitter cable (HSK-10)</li> <li>• Embedded with IR database for A/V system</li> <li>• Supports IR code learning for A/V and HVAC systems</li> <li>• RiteON™ technology which auto detects equipment on/off status by connecting with the power detector, so as to assign the exactly correct IR command pre-defined by scenario</li> <li>• When acting as a host controller, arranges scenarios for lighting, AV system, projector screen, window shades, thermostat</li> <li>• Supports RS-485 for connecting with host controller</li> <li>• You can use iPhone/iPad/Android or IP intercom touch panel to easily control, from anywhere</li> </ul>	<ul style="list-style-type: none"> <li>• Power            12V DC</li> <li>• Connection    Z-Wave</li> <li>• Frequency     32-500KHz</li> <li>• IR Blaster     IR LEDs for 270° transmission, 5m range</li> <li>• IR Cable        Via 3.5mm phone jack</li> </ul>

# Guard Station



**HBI-1100 (10.1")**

# IR Control Station



**HSK-250Z**

Features	Technical Spec
<ul style="list-style-type: none"> <li>• Receives commands from gateway and transmits IR signals, either by internal IR transmitter, or IR emitter cable (HSK-10)</li> <li>• Embedded with IR database for A/V system</li> <li>• Supports IR code learning for A/V and HVAC systems</li> <li>• RiteON™ technology which auto detects equipment on/off status by connecting with the power detector, so as to assign the exactly correct IR command pre-defined by scenario</li> <li>• When acting as a host controller, arranges scenarios for lighting, AV system, projector screen, window shades, thermostat</li> <li>• Supports RS-485 for connecting with host controller</li> <li>• You can use iPhone/iPad/Android or IP intercom touch panel to easily control, from anywhere</li> </ul>	<ul style="list-style-type: none"> <li>• Power            12V DC</li> <li>• Connection    RS-485</li> <li>• Frequency      32-500KHz</li> <li>• IR Blaster      IR LEDs for 270° transmission, 5m range</li> <li>• IR Cable        Via 3.5mm phone jack</li> </ul>

# Wiring & Installation

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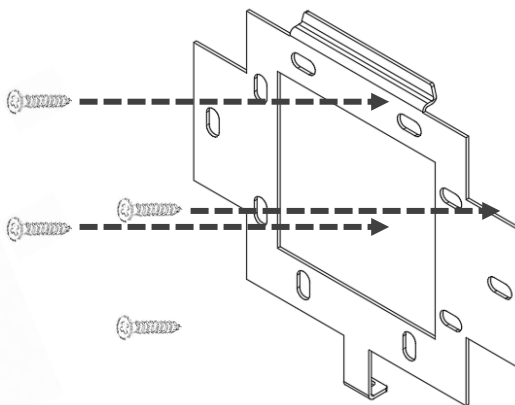
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# Indoor Station

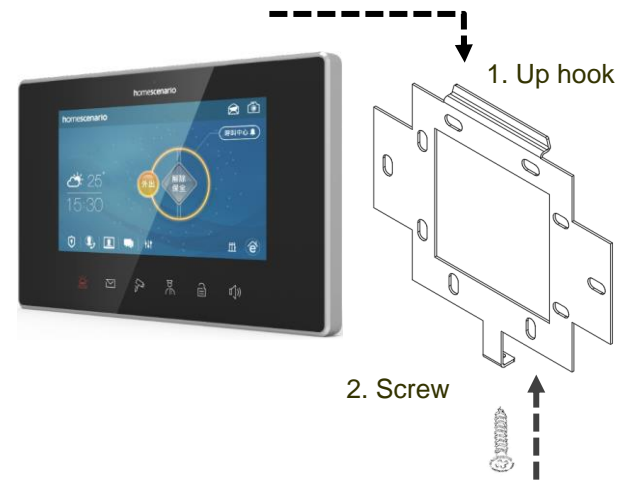
Step 1



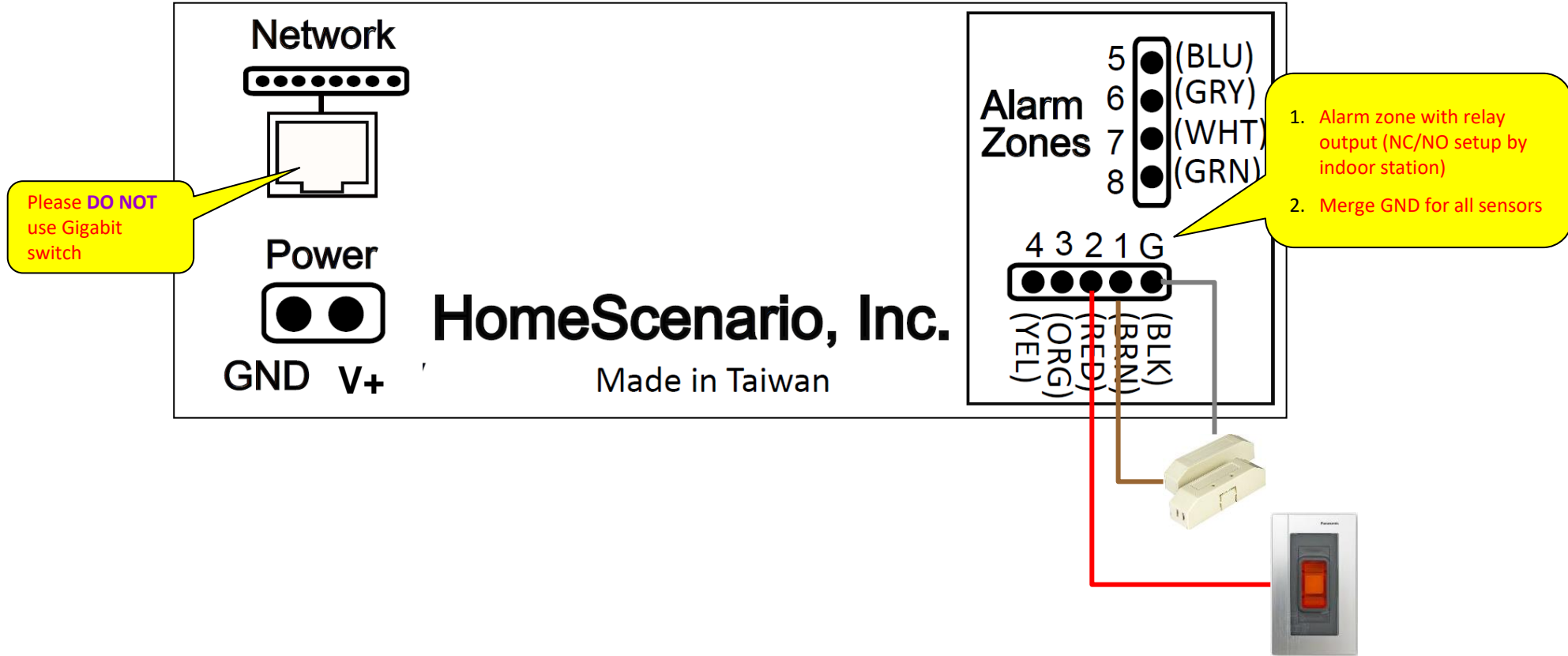
Step 2



Step 3



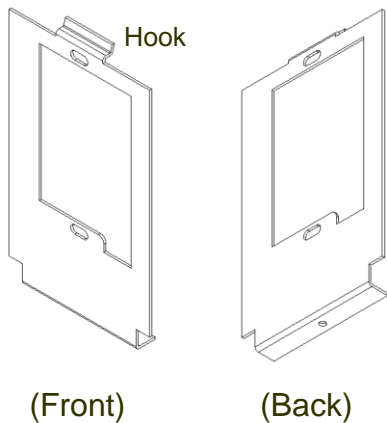
# Alarm Zones



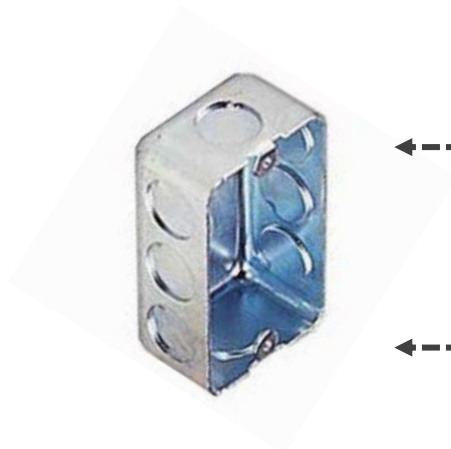


# Video Doorbell

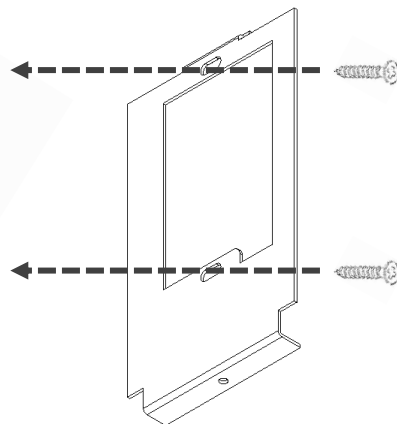
## Mounting Frame



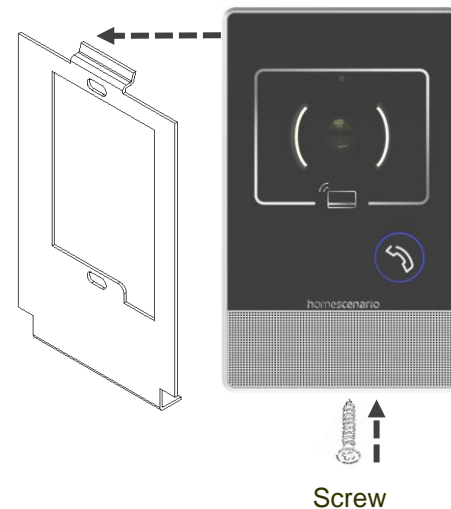
### Step 1



### Step 2

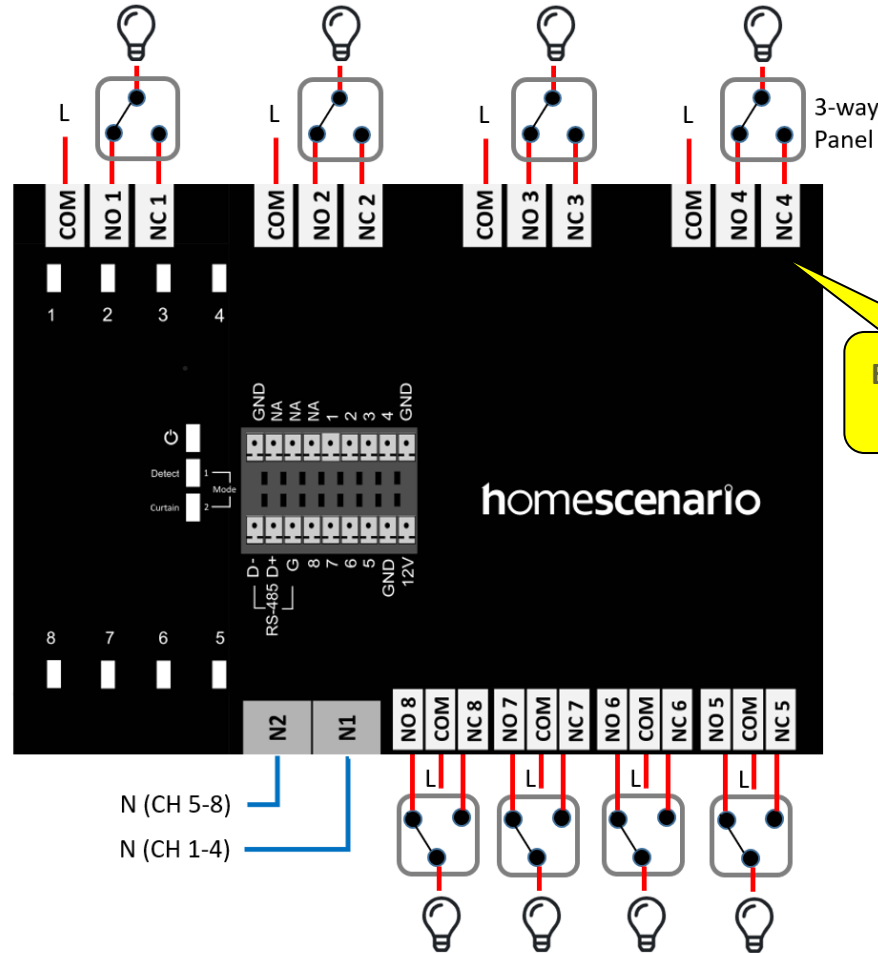
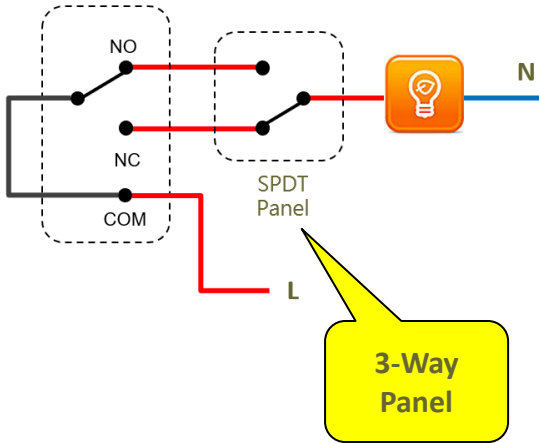


### Step 3

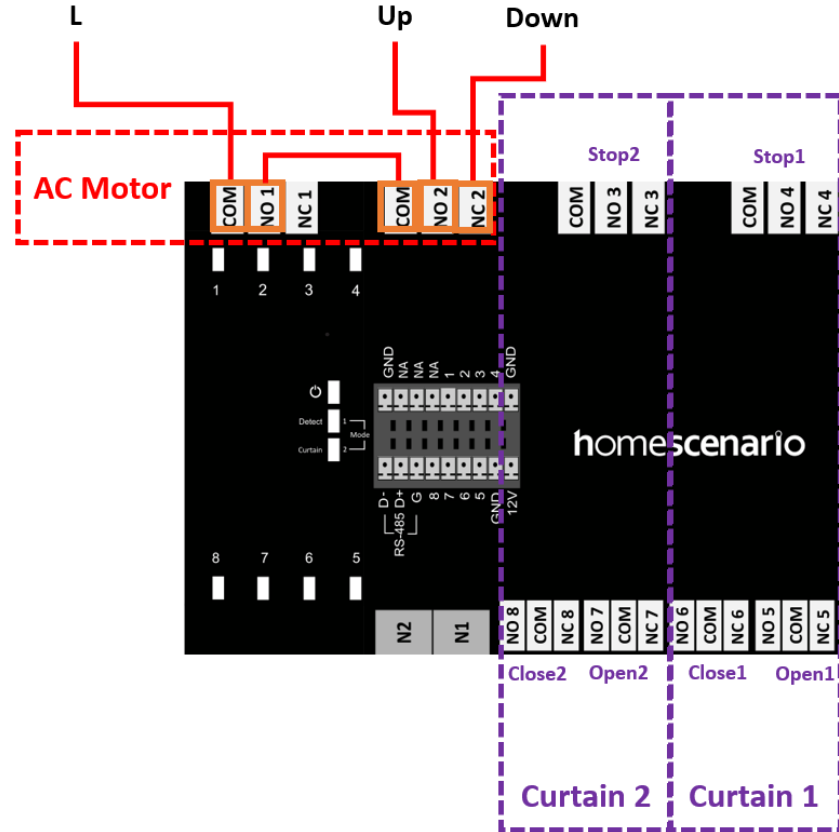


# HBA-200 Lighting Wiring

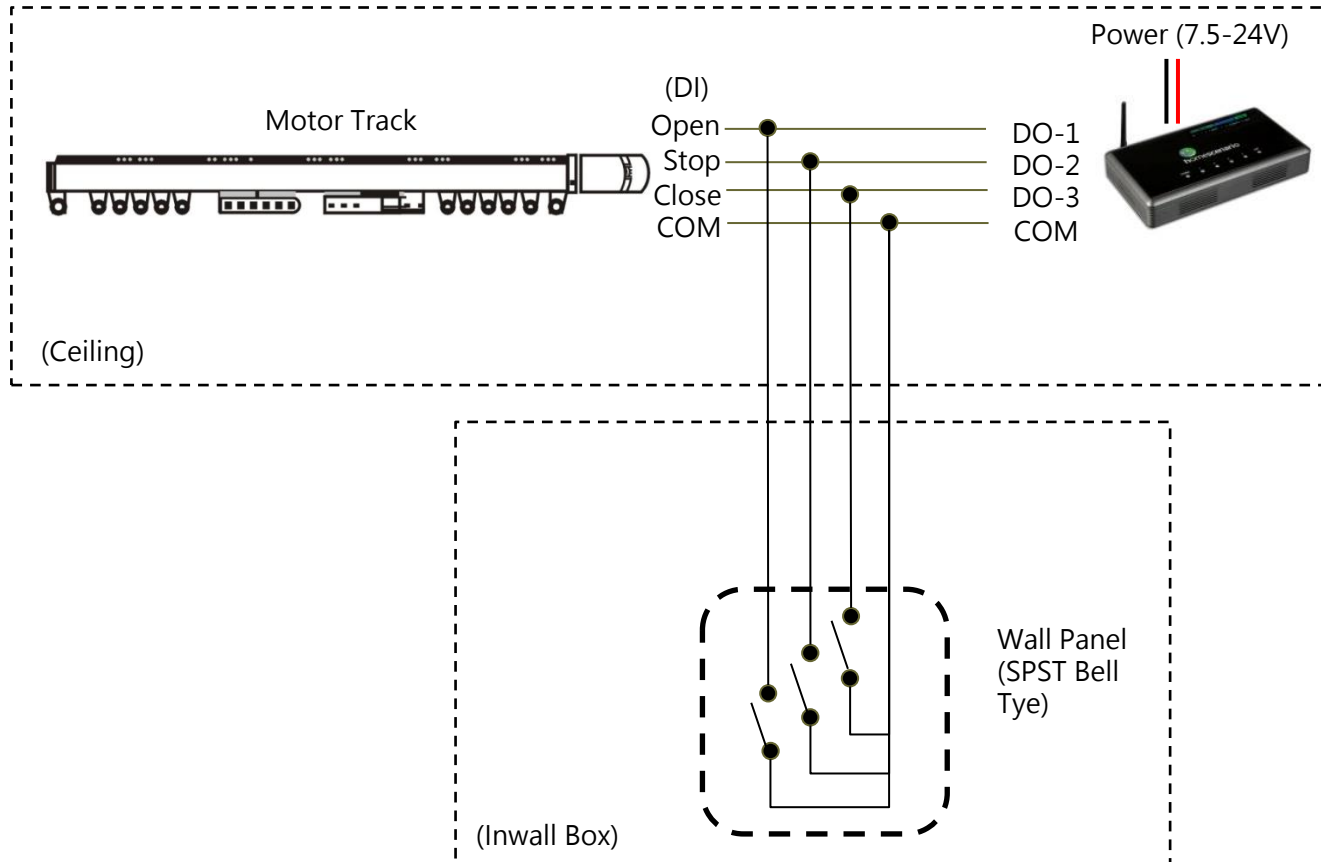
## 3-Way Wiring



# HBA-210 Curtain Wiring

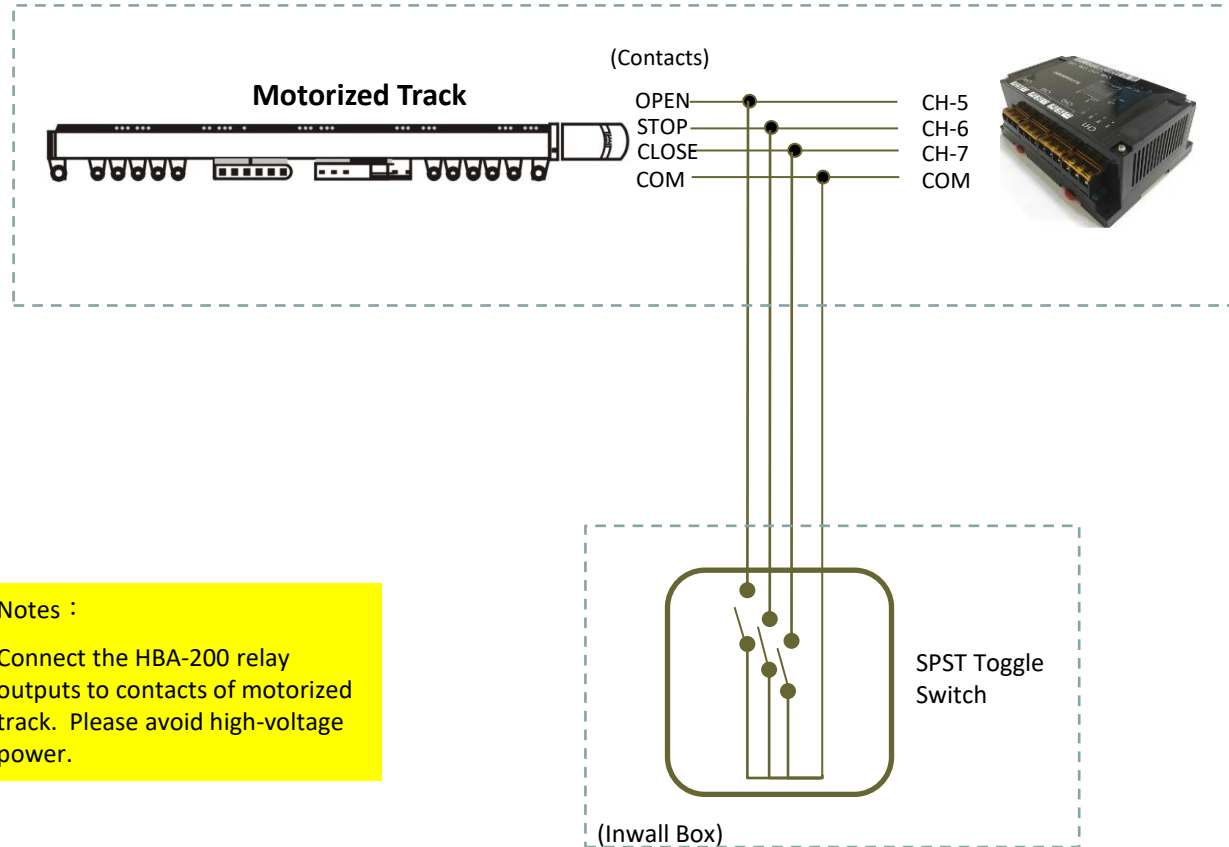


# Window Shades Control (HSM-300Z)



# Wiring Instruction:

## *Window Curtain*



**Notes :**

Connect the HBA-200 relay outputs to contacts of motorized track. Please avoid high-voltage power.

## Our Leadership

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# Adaptive User Interface

Flexible UI and scenario design

	Normal		Reading		Camera
	Home Theater		Music		Temperature
	Dining		Disarm		Humidity
	Sleeping		Arm		Sensor Status
	Wake-Up		Away		Power Consumption

# Why HomeScenario?

HunterDouglas



BANG & OLUFSEN



SONY



PHILIPS

Let's make things better

海康威视

HIKVISION

legrand

bticino

Panasonic

somfy.



tyco  
Security Products

B&W

DAIKIN

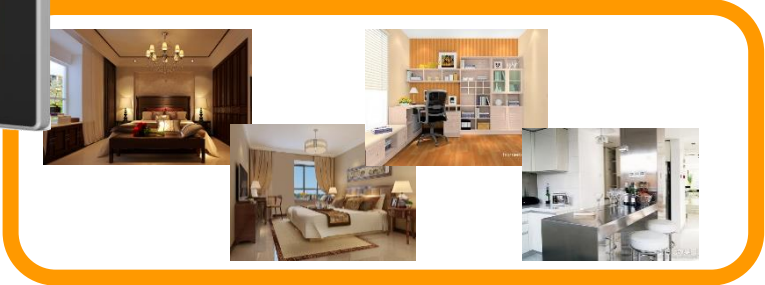
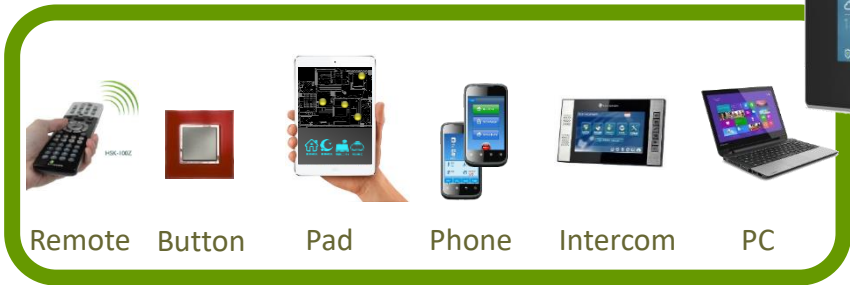
SAMSUNG

Honeywell

1. Well integrated with **No. 1** brands in the world

2. Customized **User Interfaces** for **Controlling from Anywhere**

3. Tailor-made **Scenarios** to meet user requirements



Comfort

Safety

Green

Convenience



## HomeScenario Solution Advantage

- Flexible, scalable, powerful
- Well integrated *smart building* solution: *IP intercom, alarm, access control, surveillance, home automation*
- *Cloud-based*, can be accessed and controlled *from anywhere* via the Internet
- *Wired & wireless* control technologies, flexible installation per project requirements
- Open architecture for cloud system, easy to *integrate* value-added services/systems and *maintain*

## HomeScenario Vision



*Asia's Leading Provider for Smart Building System*



**Thank You**

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