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Smart home made easy!

Smart AIoT Office Building

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

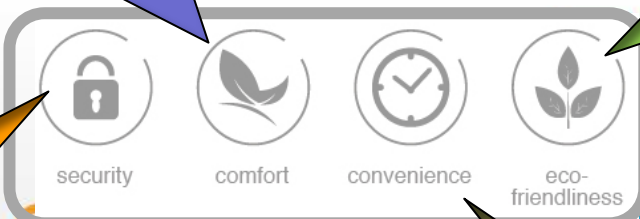Office
商業大樓

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**

security comfort convenience eco-friendliness

- **Building Automation**
- **Concierge System**
- **Control** *Anywhere*

Smart Home | Smart Building | Smart City

Smart Office:

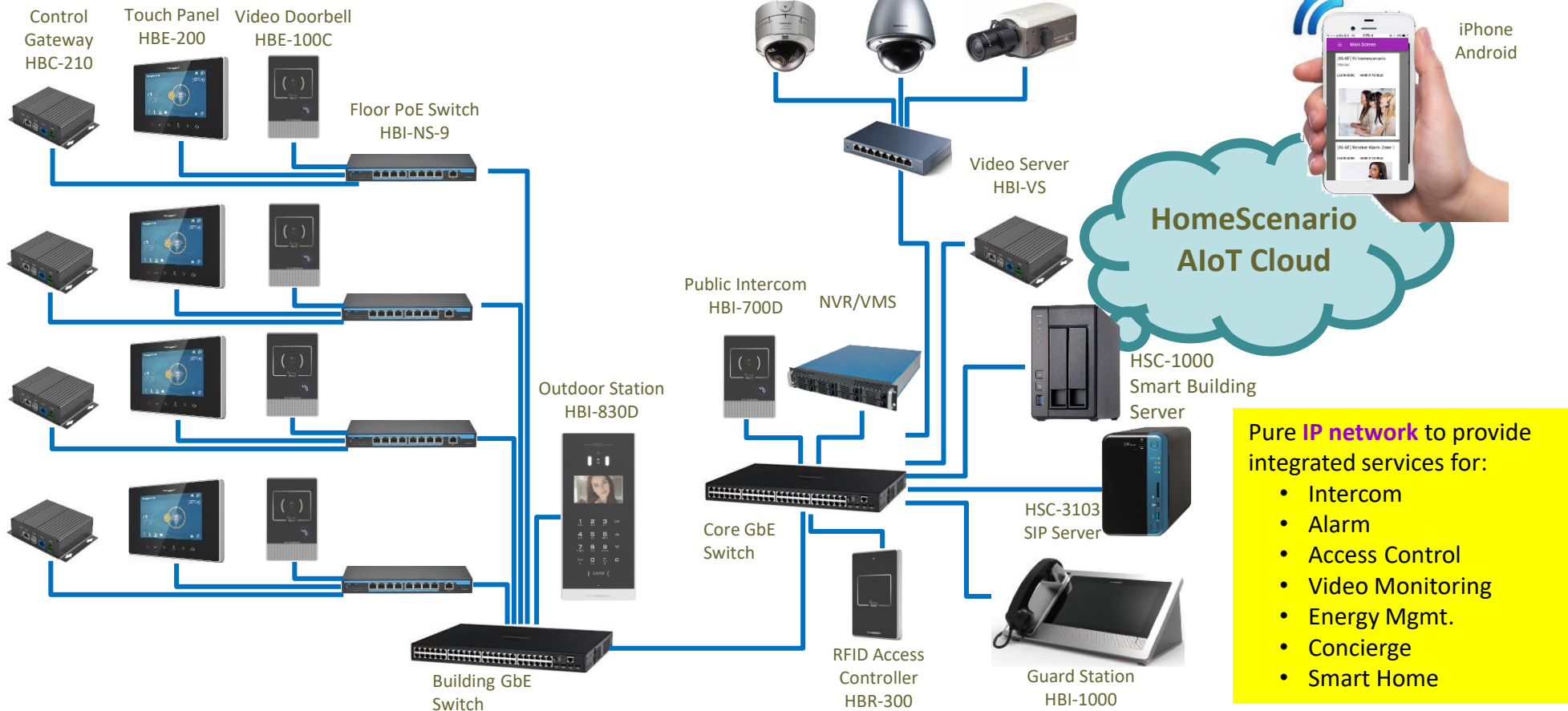## *Architecture & Application*

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Demands for Smart Office

- **Peace-of-mind:**
  - *Secure* (protecting people and assets, alarm notifications)
  - *Green* (energy saving, eco-friendly)
  - *Convenient* (ease-of-use, higher productivity)
  - *Comfort* (employee 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

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Smart Office IP Network Architecture

LAN — Wi-Fi/3G

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IP Camera

Control Gateway HBC-210

Touch Panel HBE-200

Video Doorbell HBE-100C

Floor PoE Switch HBI-NS-9

Video Server HBI-VS

iPhone Android

HomeScenario AIoT Cloud

Public Intercom HBI-700D NVR/VMS

HSC-1000 Smart Building Server

Outdoor Station HBI-830D

Core GbE Switch

HSC-3103 SIP Server

Building GbE Switch

RFID Access Controller HBR-300

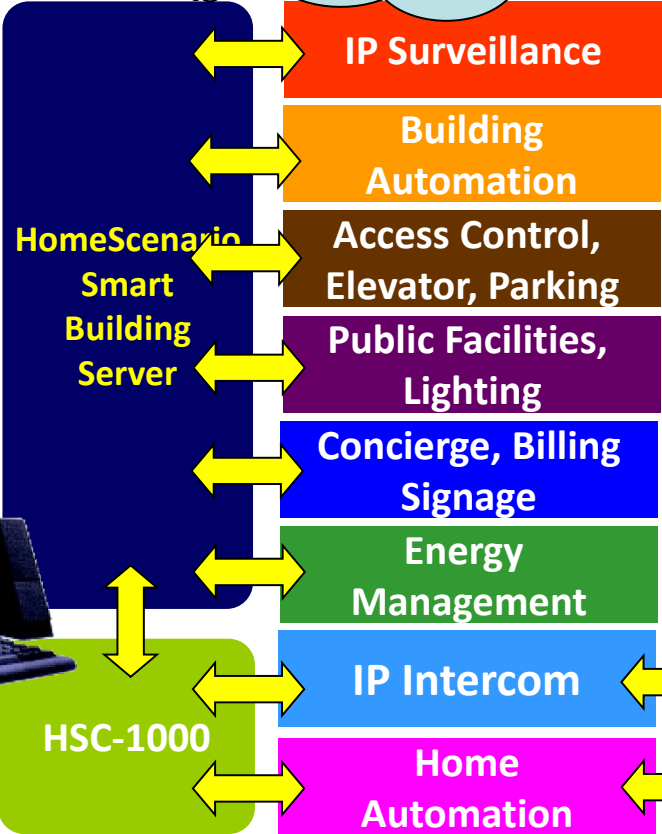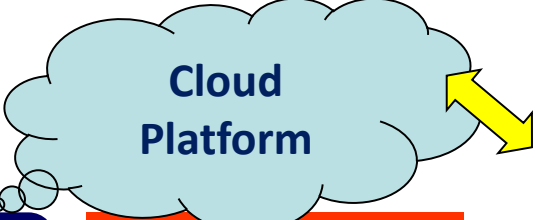Guard Station HBI-1000

Pure **IP network** to provide integrated services for:
- Intercom
- Alarm
- Access Control
- Video Monitoring
- Energy Mgmt.
- Concierge
- Smart Home

The Office Systems

Video Conference

Lighting

HVAC

Curtain

A/V

Scenario

Access

Camera

Alarm

Communication

- 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*

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Cloud Platform

HomeScenario Smart Building Server

- IP Surveillance
- Building Automation
- Access Control, Elevator, Parking
- Public Facilities, Lighting
- Concierge, Billing Signage
- Energy Management
- IP Intercom
- Home Automation

HSC-1000

- Flexible architecture to facilitate **3rd 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*
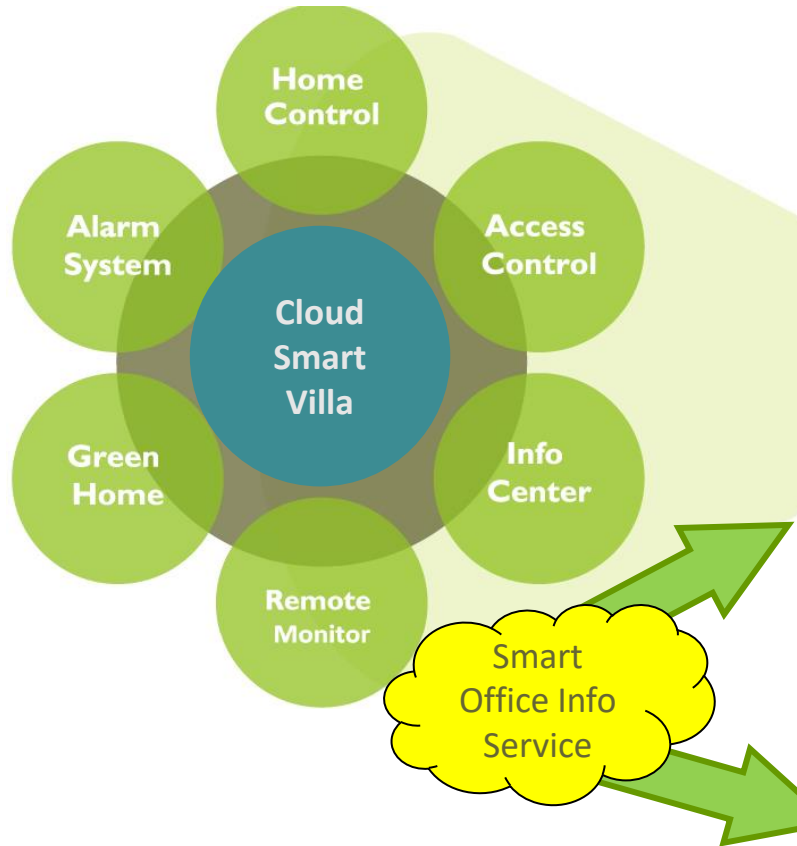
Smart AIoT Office via LINE@

- **App "without App"**
- **PUSH message upon alarm or service**
- **Multiple user registration for one office**
- **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 3rd party service

Smart Office *Intercom* Applications

SIP-Based *Cloud Intercom*

(SIP Cloud Intercom)

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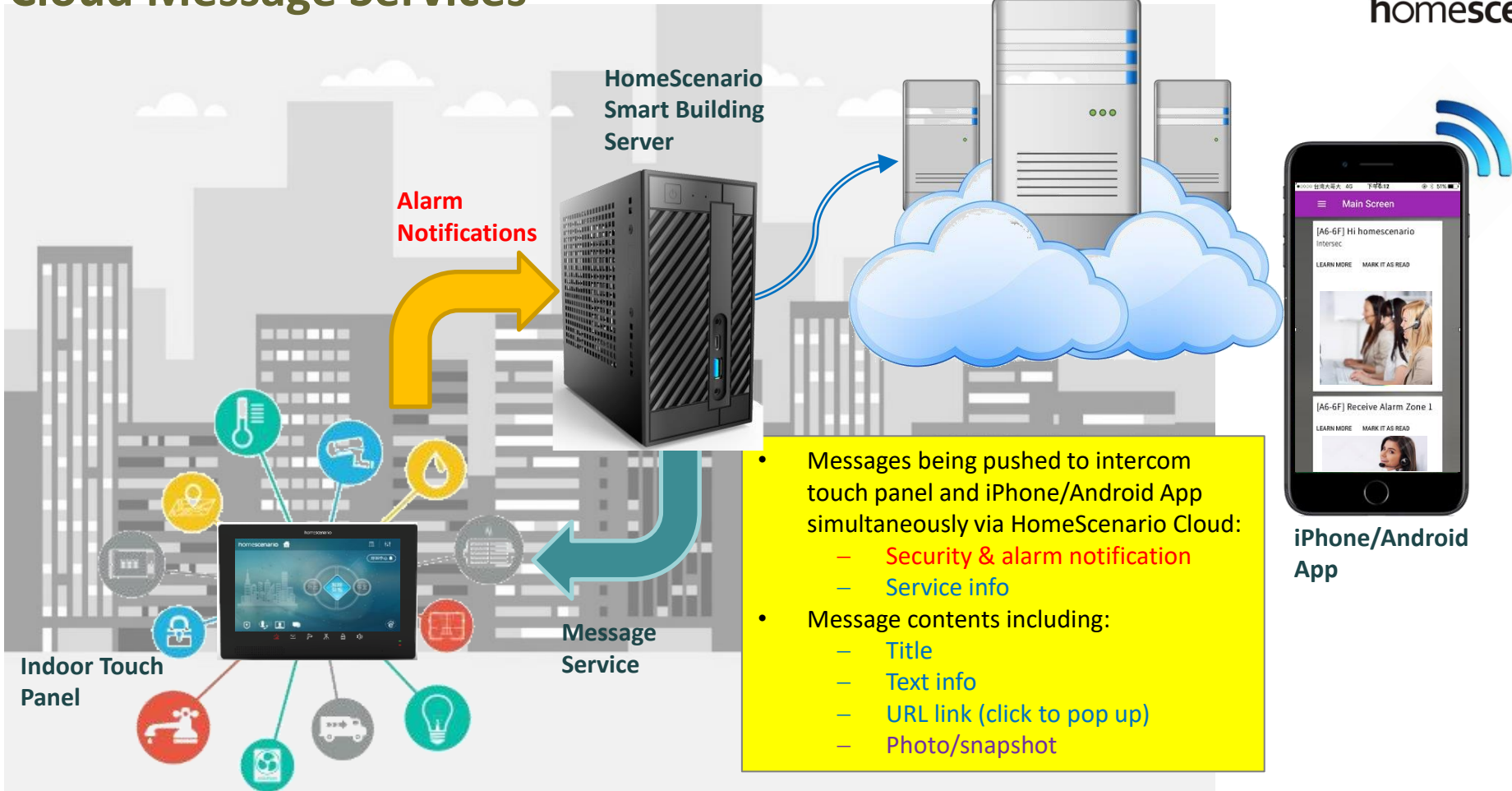Local Intercom Network — Internet — **3G/4G Mobile Broadband**

Video Doorbell

HSC-3103

HomeScenario cloud will forward intercom calls to SIP Video Phone, *iPhone/Android*, PSTN etc.

Outdoor Station

HomeScenario Cloud

iPhone/Android App (video intercom, unlock)

Intercom Console

Indoor Station

SIP Video Phone (video intercom, unlock)

SIP PBX

SIP Phone, PSTN Phone (intercom, unlock)

Smart Office *Alarm & Access Control* Applications

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Cloud Message Services

HomeScenario Cloud Server

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HomeScenario Smart Building Server

Alarm Notifications

iPhone/Android App

Indoor Touch Panel

Message Service

- 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*
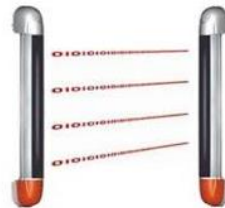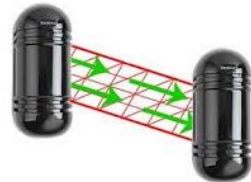
Multi Access Control:
RFID, QR Code, LPR, Face

User database and condition settings

HSC-1010W
Smart Building Server

Event Report

Database Sync

(LAN)

- 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

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Door Access

Elevator Floor Control

Parking

Lobby Entrance

HBT-820D
IP Outdoor Station

HBE-700D
IP Public Intercom Station

HBR-300
IP Access Controller

Advanced Access Control Integration

Face Recognition
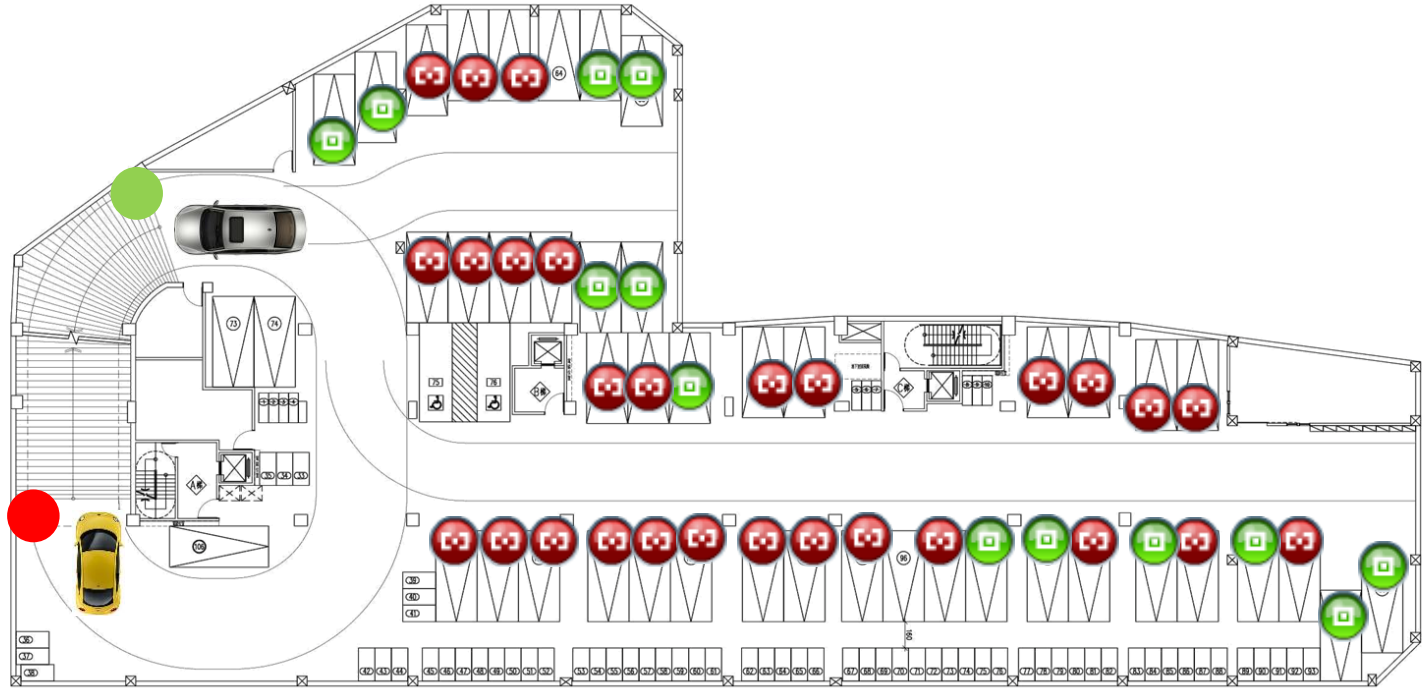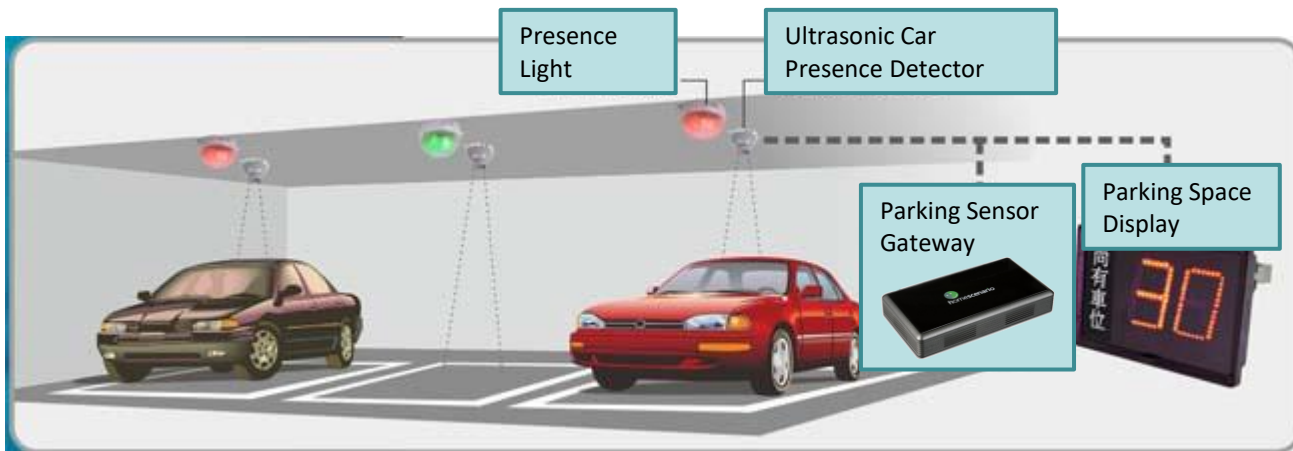

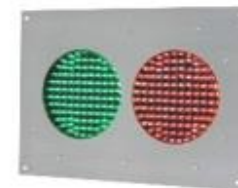
Finger Print

QR Code

LPR

eTag

Parking Space Management

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

Parking Management System

Presence Light

Ultrasonic Car Presence Detector

Parking Sensor Gateway

Parking Space Display

IR Beam Detector

Traffic Light

Parking Gate

Smart Office *Automation*

IP Intercom + Smart Office
Wired System for *MDU/MTU*

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Wi-Fi/3G

RF

Smart Door Lock (battery powered)

HVAC

TV

DVD

Projector

Audio

A/V, Air-Con

IR

HSK-250L

HBC-100

RS-485 Hub

HBI-1000

Cloud Platform

Shutter Switch (Curtain)

HBI-300

HBA-200

Gas Valve

HSC-1000

Wired Sensors

Light

HBI-820D

HBI-120C (Arm/Disarm)

Scenario Button
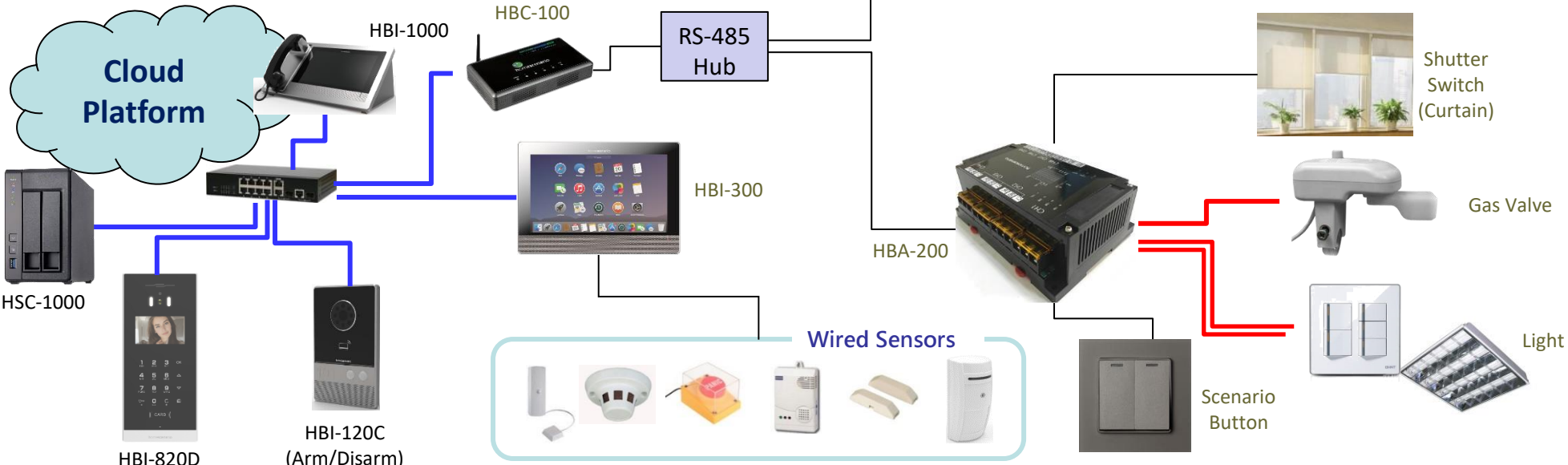
IP Intercom + Smart Office
Wireless System for *MDU/MTU*

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Wi-Fi/3G

RF

Smart Door Lock (battery powered)

HVAC

TV

DVD

A/V, Air-Con

IR

Projector

Audio

HSK-250Z

Cloud Platform

HBI-1000

HSC-48

Shutter Switch

HSM-300Z

HBI-300

Scenario Button

HSC-1000

Gas Valve

HBI-820D

HBI-120C (Arm/Disarm)

Wired Sensors

HGS-110Z/120Z

Light
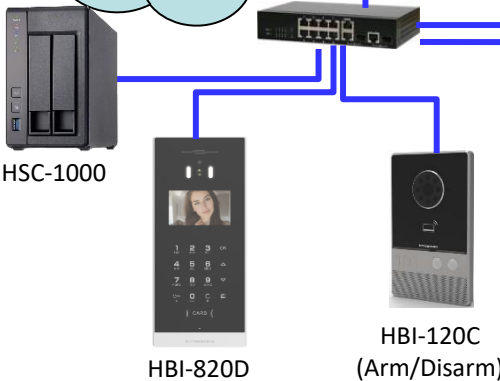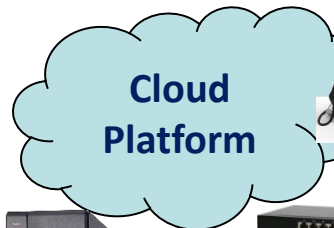
Smart Meeting Room Scenario Example

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Lights 50% ON
Curtain OPEN
TV or Projector OFF
HVAC Medium

Normal

Lights 30% ON
Curtain CLOSED
TV or Projector ON
Screen OPEN
HVAC Medium

Presentation

Meeting

Lights ALL ON
Curtain OPEN
TV or Projector OFF
HVAC HIGH

Away

Lights OFF
Curtain CLOSED
TV OFF
HVAC OFF
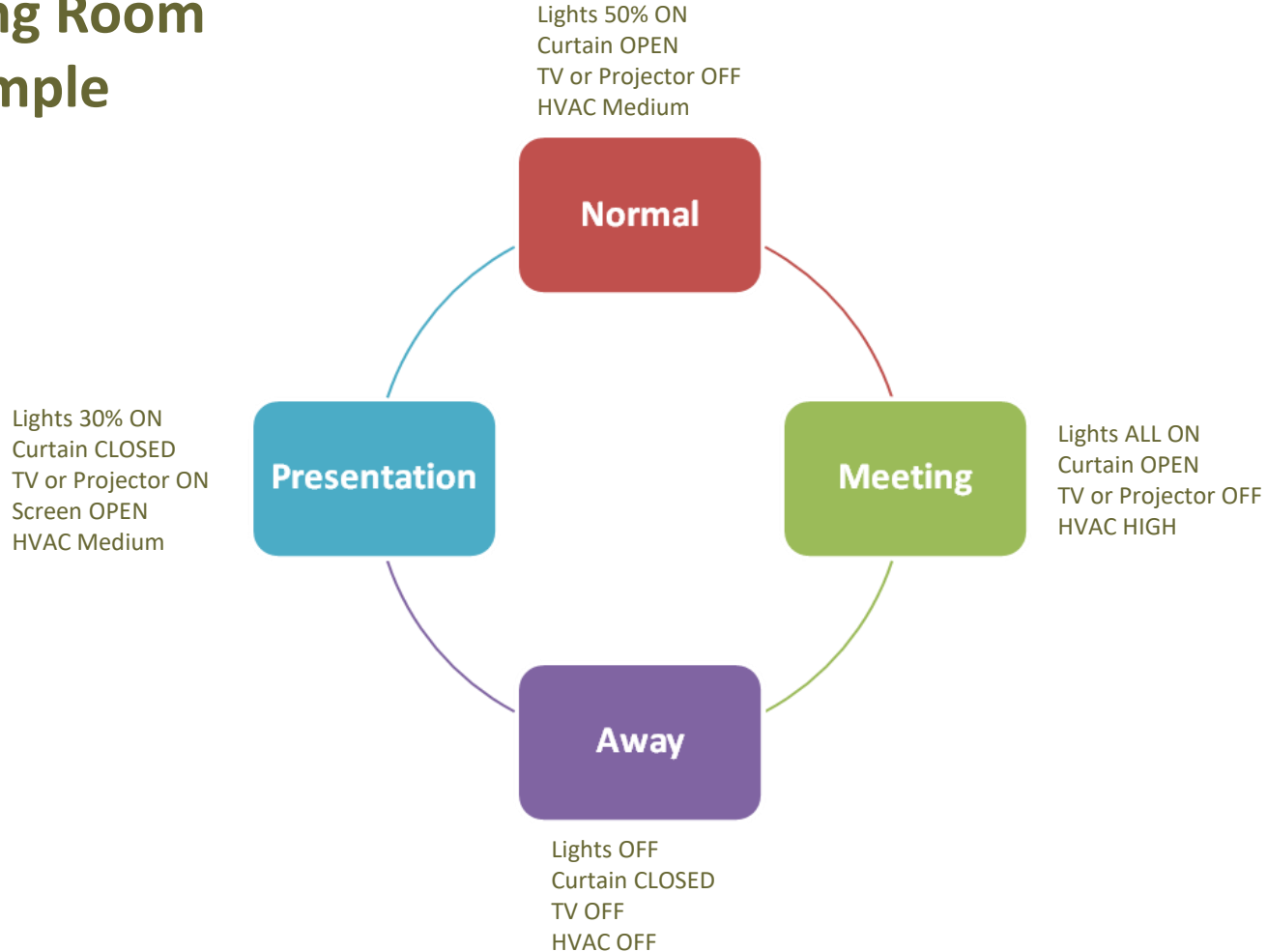
Smart Office *Energy Management*

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Smart Building 4.0 for Energy:

- Monitoring & Presentation
- Automation & Control
- Cloud-Based Notification
- Saving Energy

Building Blocks

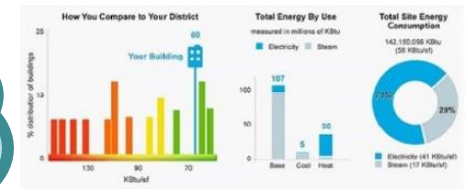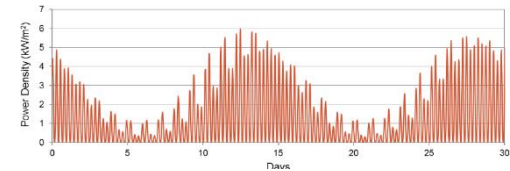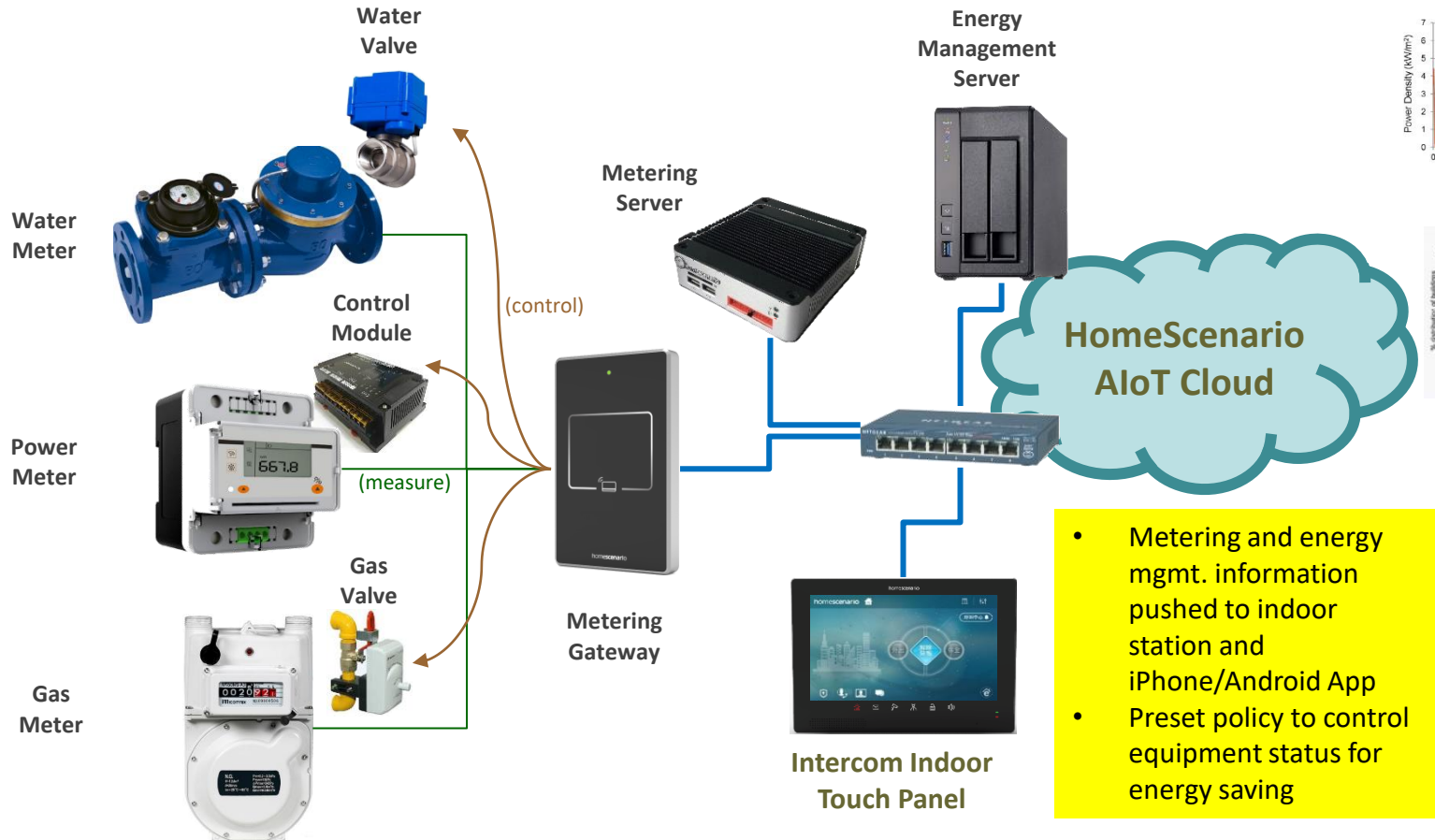| Metering & Measurement	Billing, Presentation, Policy, Automation	Cloud-Based Message, Payment

- 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

Water Valve

Water Meter

Control Module

Power Meter

Gas Valve

Gas Meter

(control)

(measure)

Metering Server

Metering Gateway

Energy Management Server

HomeScenario AIoT Cloud

Intercom Indoor Touch Panel

- 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

- **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 office
  - Touch panel in each room/zone
  - iPhone/Android App

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Smart Office
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

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Integrated Features (cont'd)

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- **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

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Main Products

IP Video Doorbell

HBE-100C

Features	Technical Spec
- Wide angle, high quality CMOS camera - Elegant industrial design with painted ABS frame and tempered glass front panel; which can well fit various interior design styles - Wall-mount 1-gang installation, slim outlook thickness - Supports IP network, works with HBE-200/310 indoor stations - LED illumination during intercom for night vision - Automatic snapshot during intercom for further verifications - Indoor station can monitor camera video from HBE-100C - Embedded RFID reader for controlling door lock or security alarm arm/disarm	- Power 12-24V DC - Camera CMOS wide angle - Op. Power 4.5W - Standby 0.5W - RFID Mifare 13.56MHz - Network RJ-45 Ethernet - I/O Lock/Open - Installation 1-Gang - Protection Indoor/Outdoor - Materials Painted ABS frame, with glass-type front panel

10.1" IP Indoor Station

HBE-200 (7")

HBE-310 (10.1")

Features	Technical Spec
• 7" or 10.1"LCD with capacitive touch panel • Elegant, slim industrial design with painted ABS frame and tempered glass front panel • Integrated features: alarm (8 zones), intercom, monitoring, message service, home automation • Integrated access control such as door lock, elevator floor control • Video intercom with video doorbell, outdoor intercom station, intercom console, and other indoor stations in the same network • Monitors video from video doorbell, outdoor station, CCTV/DVR or IP camera (via HBI-VS) • Displays information messages • Home automation user interfaces for controlling lighting, thermostats, window shades, audio/video, etc.	• Power 12-24V DC • Display 7" or 10.1" TFT LCD • Touch Panel Capacitive • Network RJ-45 Ethernet • Alarm Input 8 zones • Siren Output 1x (optional) • Serial RS-485 (optional) • Installation Wall-mount • Protection Indoor • Materials Painted ABS frame, tempered glass front panel

Smart Home Control Gateway

HBC-100

Features	Technical Spec
- Can expand RS-485 for wired smart home control - Also supports Z-Wave 2-way mesh networking, RF range up to 30m indoors - Provides digital input/output connections - Controls various home systems, e.g. light switch, thermostat, door access, window shades, security monitoring, A/V equipment, as well as scenarios - Controls via iPhone/iPad/Android/intercom touch panel - Always updates system status and allows controlling from anywhere via HomeScenario AIoT Cloud Platform - Works with central management server for large scale deployment with HomeScenario Smart Building System	- Power 12V DC - LAN RJ-45 Ethernet - Wireless Wi-Fi/Z-Wave - Installation Desktop - DI 4x - DO 1x - Serial RS-485 (USB) - Program Button for device program/association and factory reset

Smart Home I/O Module

HBA-200/210

Features	Technical Spec
- Supports RS-485/Modbus for wired smart home control - Provides 8 NC/NO relay outputs with high rating, which can be used to control lighting on/off or window curtain - Can be used to switch load of AC or DC - Max loading (each load): Resistive 20A x4, 10A x4 - Also provides 8-channel digital inputs, which can be connected with sensor or scenario button - DIN-Rail installation	- Serial RS-485 - Digital Input 8x digital inputs, terminal blocks - Relay Output 4x 20A, 4x 10A COM/NC/NO; terminal blocks - N Neutral wire, for power status detection - Installation DIN-Rail - Dimension 155x110x60mm

IR Control Station

HSK-250Z

Features	Technical Spec
• Receives commands from gateway and transmits IR signals, either by internal IR transmitter, or IR emitter cable (HSK-10) • Embedded with IR database for A/V system • Supports IR code learning for A/V and HVAC systems • 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 • When acting as a host controller, arranges scenarios for lighting, AV system, projector screen, window shades, thermostat • Supports RS-485 for connecting with host controller • You can use iPhone/iPad/Android or IP intercom touch panel to easily control, from anywhere	• Power 12V DC • Connection Z-Wave • Frequency 32-500KHz • IR Blaster IR LEDs for 270º transmission, 5m range • IR Cable Via 3.5mm phone jack

Guard Station

HBI-1100 (10.1")

IR Control Station

HSK-250Z

Features	Technical Spec
• Receives commands from gateway and transmits IR signals, either by internal IR transmitter, or IR emitter cable (HSK-10) • Embedded with IR database for A/V system • Supports IR code learning for A/V and HVAC systems • 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 • When acting as a host controller, arranges scenarios for lighting, AV system, projector screen, window shades, thermostat • Supports RS-485 for connecting with host controller • You can use iPhone/iPad/Android or IP intercom touch panel to easily control, from anywhere	• Power 12V DC • Connection RS-485 • Frequency 32-500KHz • IR Blaster IR LEDs for 270º transmission, 5m range • IR Cable Via 3.5mm phone jack

Wiring & Installation

Indoor Station

Step 1

Step 2

Step 3

1. Up hook

2. Screw

Alarm Zones

Network

Please **DO NOT** use Gigabit switch

Power

GND V+
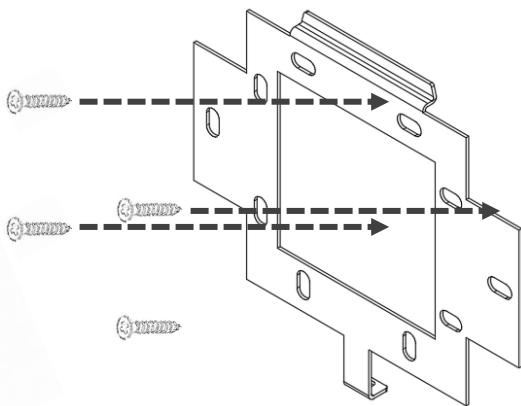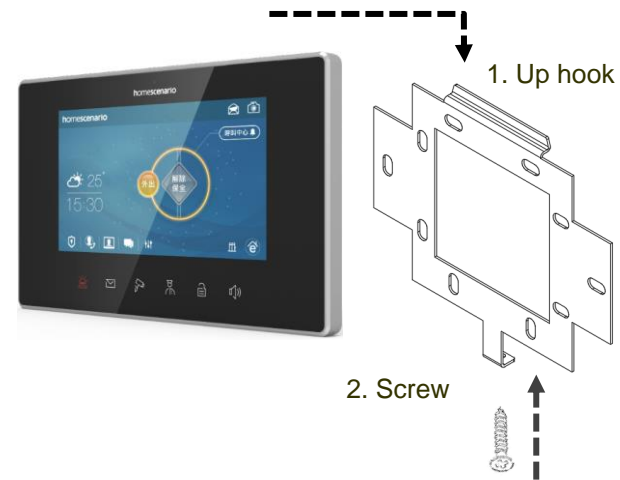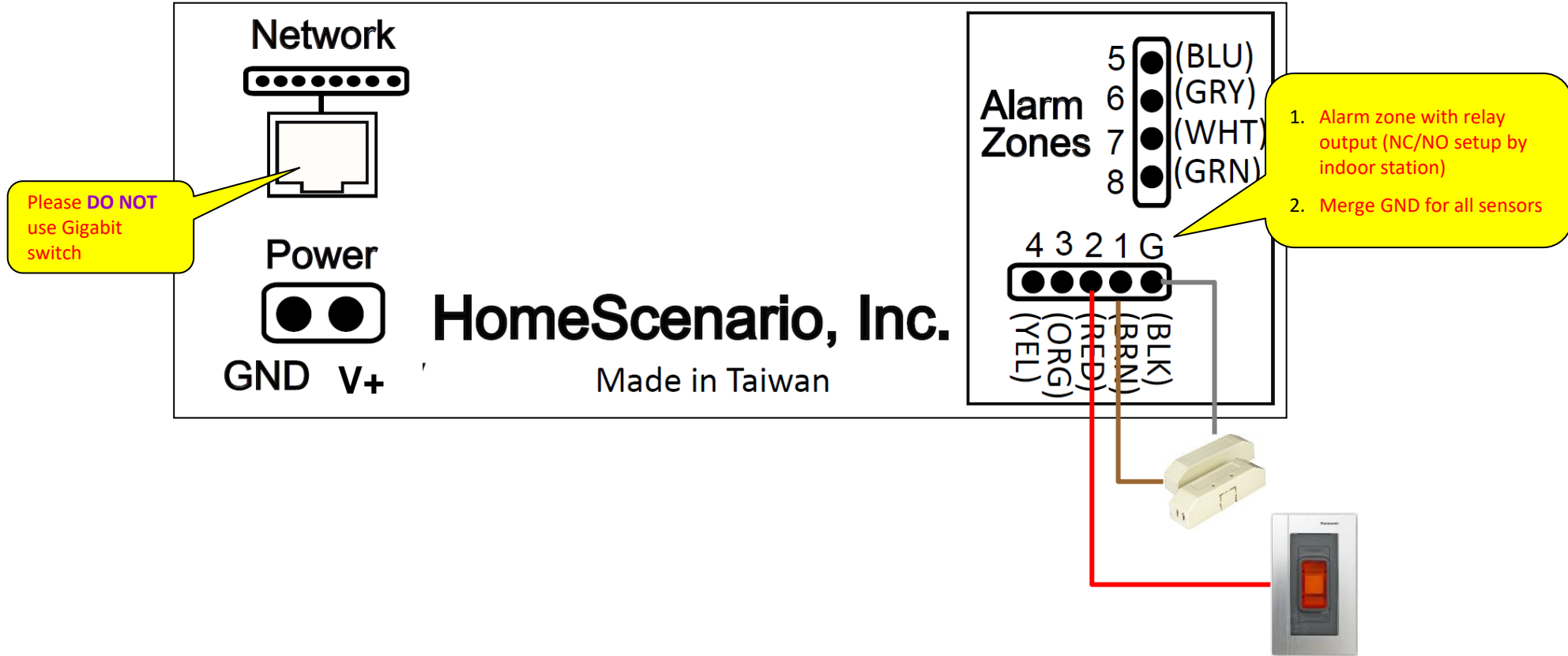
HomeScenario, Inc.

Made in Taiwan

Alarm Zones

5 (BLU)
6 (GRY)
7 (WHT)
8 (GRN)

4 3 2 1 G

(YEL) (ORG) (RED) (BRN) (BLK)

1. Alarm zone with relay output (NC/NO setup by indoor station)
2. Merge GND for all sensors

Video Doorbell

Mounting Frame

Hook

(Front) (Back)

Step 1

Step 2

Step 3

Screw

HBA-200 Lighting Wiring

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3-Way Wiring

3-Way Panel

SPDT Panel

Each CH 2 AC wires

N (CH 5-8)

N (CH 1-4)
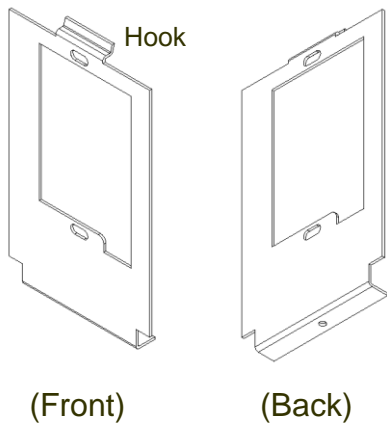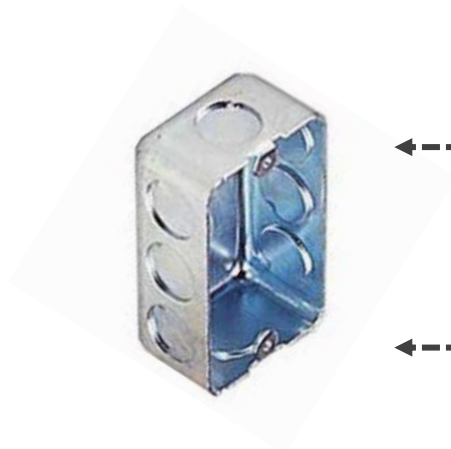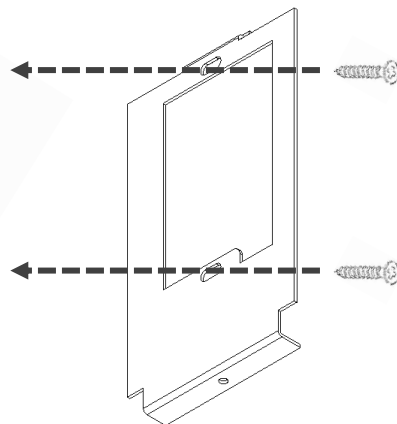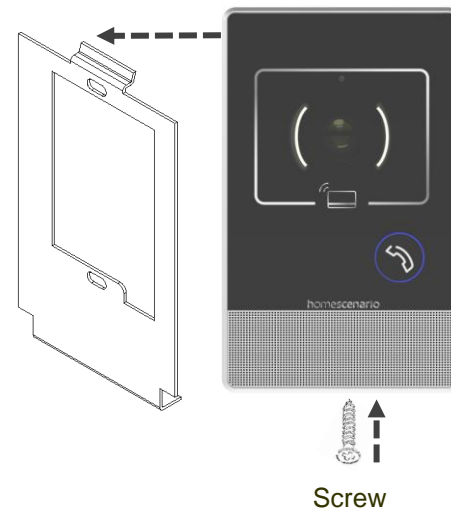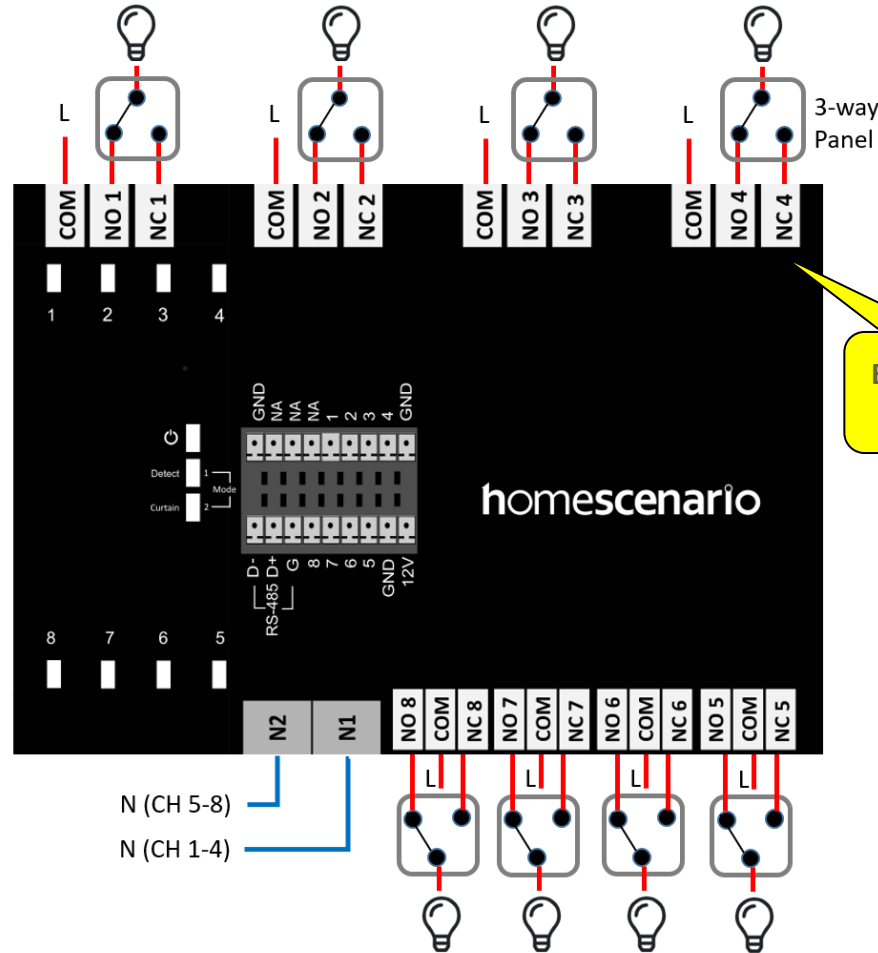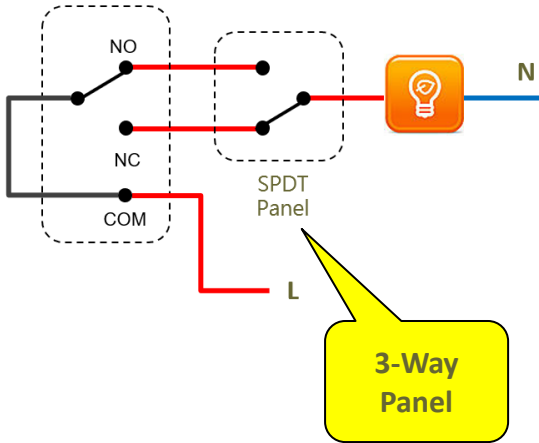
HBA-210 Curtain Wiring
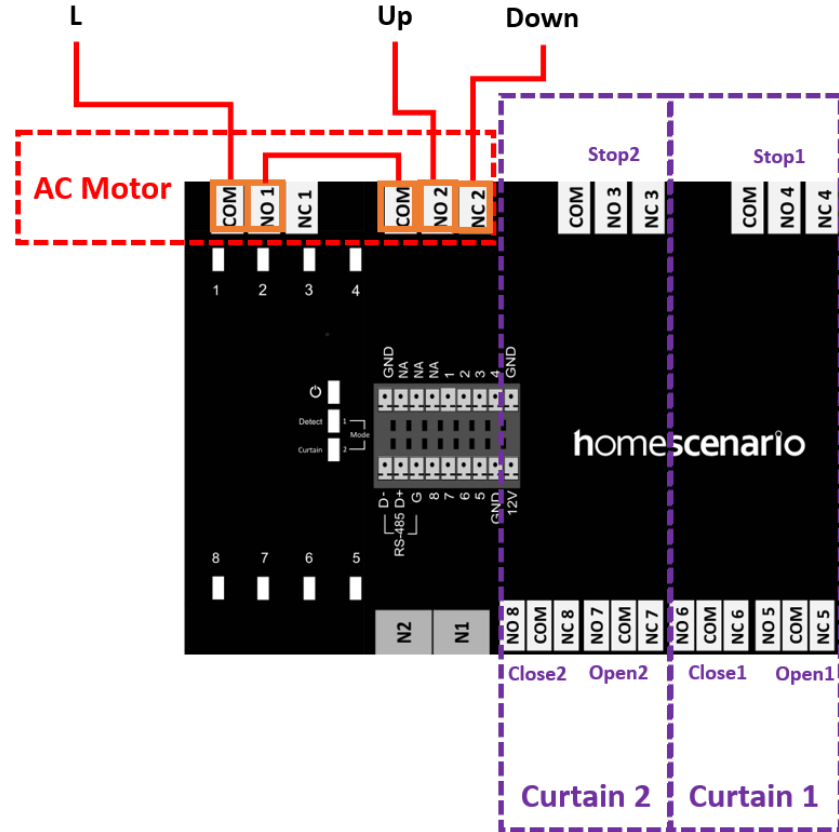
Window Shades Control (HSM-300Z)
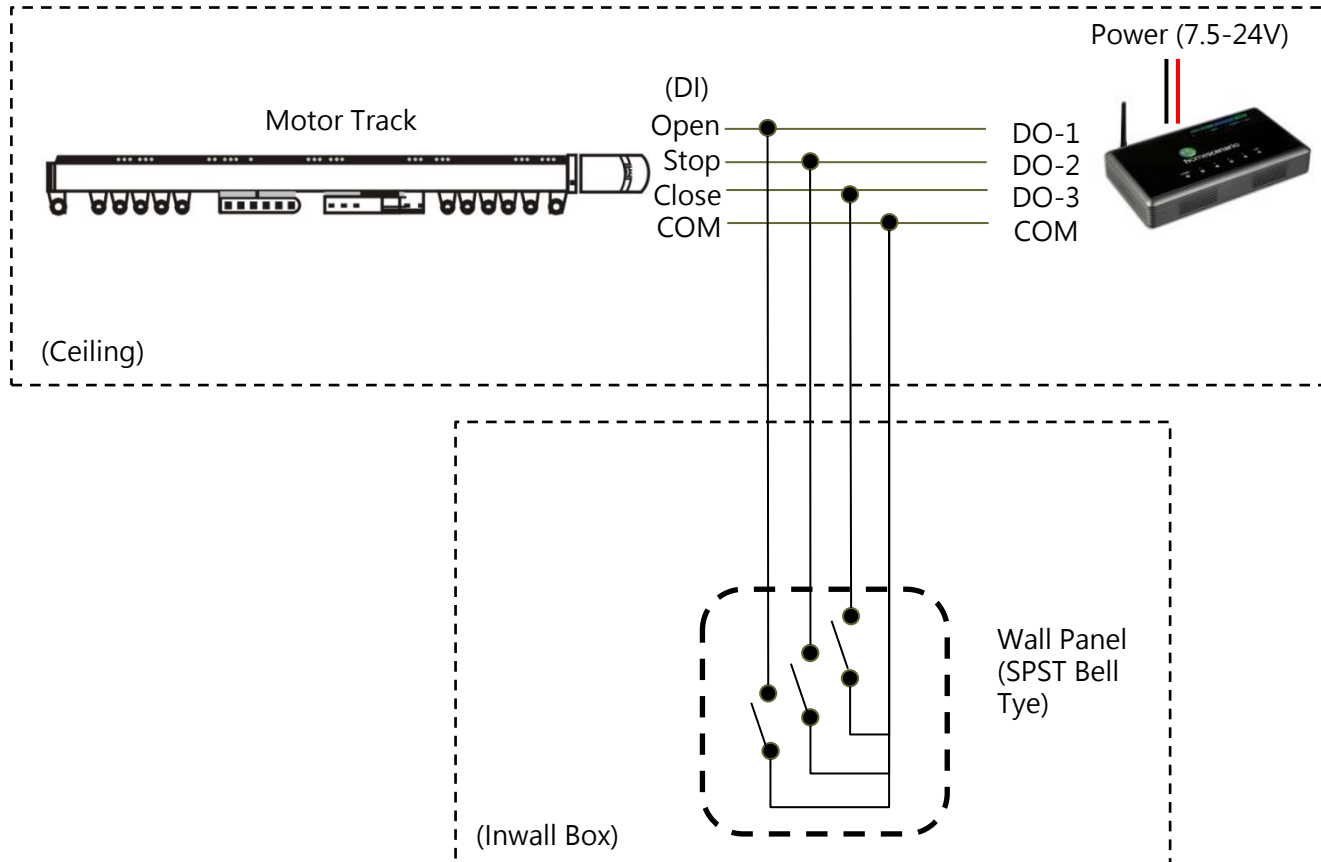
Wiring Instruction:

Window Curtain

Motorized Track

(Contacts)

OPEN	CH-5
STOP	CH-6
CLOSE	CH-7
COM	COM

SPST Toggle Switch

(Inwall Box)
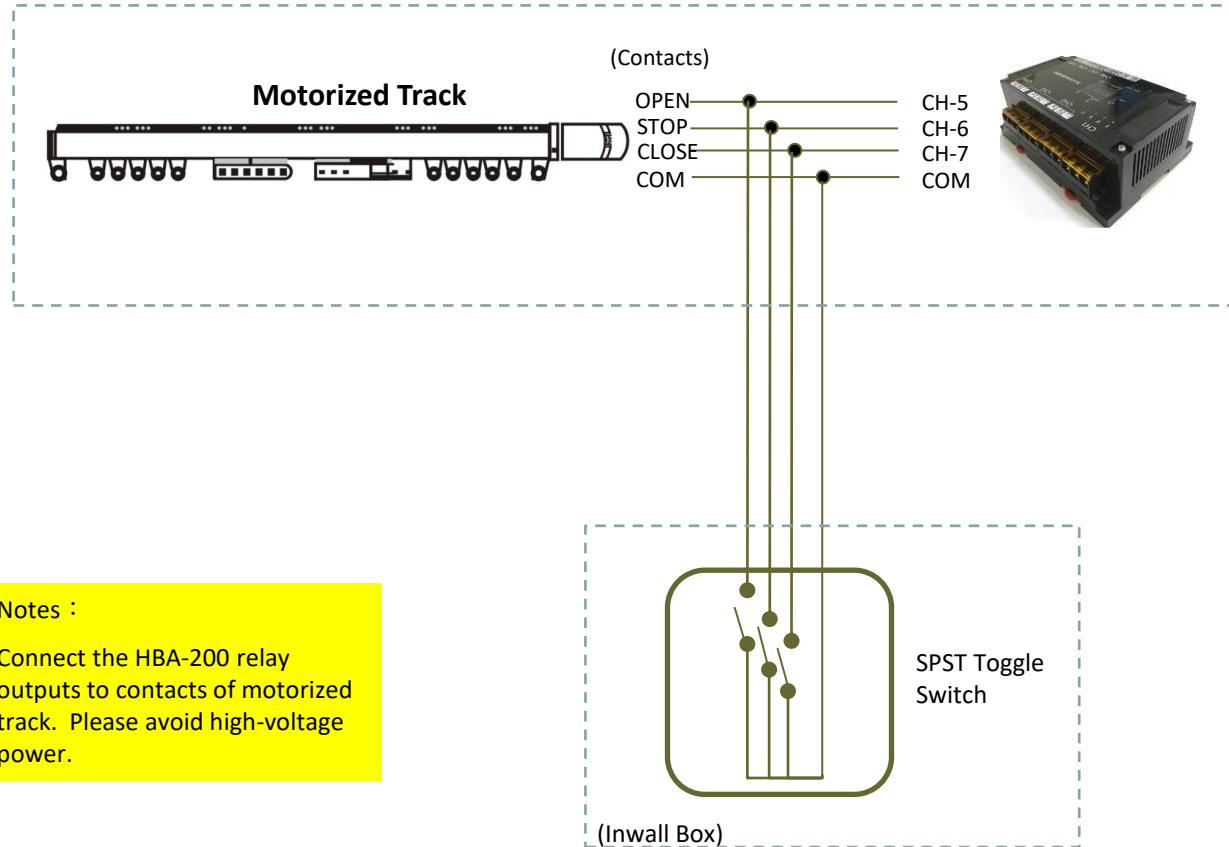
Notes：

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

Our Leadership

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Smart home made easy!

Adaptive User Interface

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☺	Normal	📖	Reading	📷	Camera
📺	Home Theater	♫	Music	🌡	Temperature
🍽	Dining	🔔✕	Disarm	💧	Humidity
🛏	Sleeping	🚨	Arm	▣ ▣	Sensor Status
☀	Wake-Up	🚪	Away	⚡	Power Consumption

Why HomeScenario?

HunterDouglas · **Yale** · BANG & OLUFSEN · homescenario

SONY · **PHILIPS** · **PHILIPS** *Let's make things better* · 海康威视 **HIKVISION**

legrand · **bticino** · **Panasonic** · **B&W**

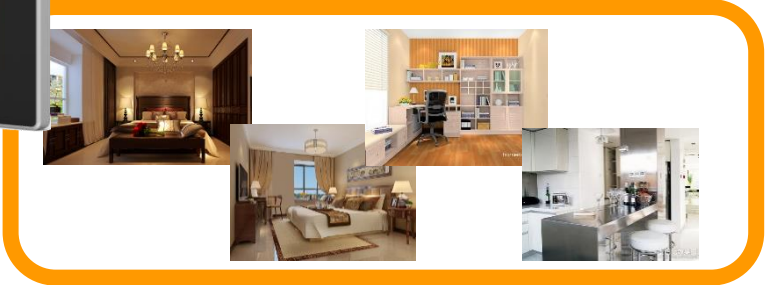**somfy** · **tyco** *Security Products* · **SAMSUNG**

DAIKIN

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

Remote Button Pad Phone Intercom PC

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***

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Asia's Leading Provider for Smart Building System

Thank You

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Smart home made easy!