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Smart home made easy!

Smart Villa Solution

HomeScenario, Inc.

HomeScenario Villa
Architecture & Application

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Demands for Smart Villa

- **Peace-of-mind:**
  - Secure (protecting family members and assets)
  - Green (energy awareness & saving)
  - Convenient (ease-of-use)
  - Comfort (better scenario, quality of life)

- **Under control:**
  - Lighting, dimming
  - Motorized curtain, shades, garage gates
  - HVAC, air-conditioner
  - Audio/video
  - Sensors, monitoring
  - Smart and automatic scenario
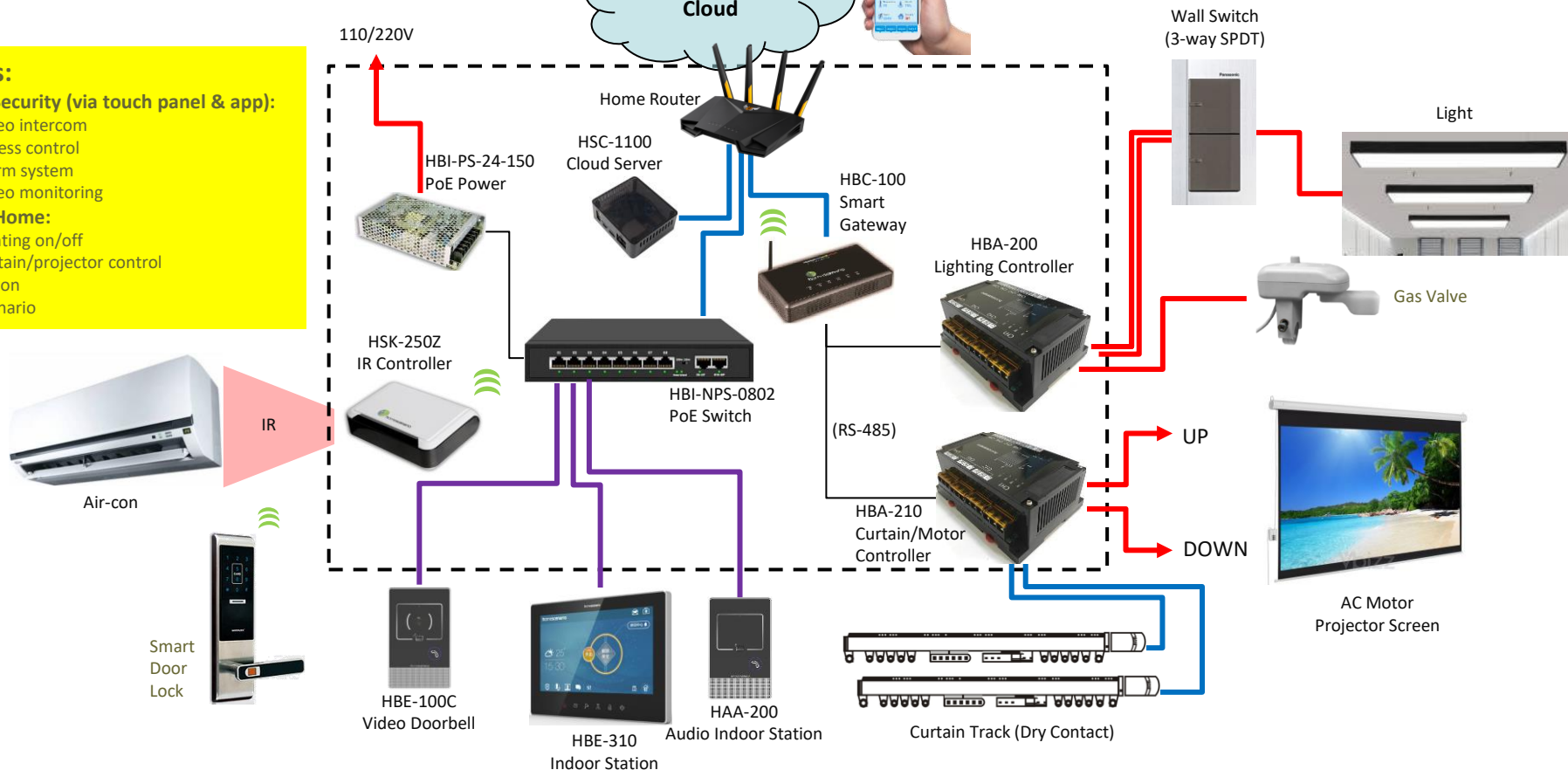
- **Anytime, anywhere:**
  - Indoor touch panel
  - iPhone/Android App

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Smart Villa Diagram

Legend:
- RF
- AC Cable
- LAN Cat-6
- PoE Cat-6
- Wi-Fi/4G

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Features:
- **Cloud Security (via touch panel & app):**
  - Video intercom
  - Access control
  - Alarm system
  - Video monitoring
- **Smart Home:**
  - Lighting on/off
  - Curtain/projector control
  - Aircon
  - Scenario

HomeScenario Cloud

110/220V

Home Router

HBI-PS-24-150 PoE Power

HSC-1100 Cloud Server

HBC-100 Smart Gateway

HBA-200 Lighting Controller

Wall Switch (3-way SPDT)

Light

Gas Valve

HSK-250Z IR Controller

IR

Air-con

HBI-NPS-0802 PoE Switch

(RS-485)

HBA-210 Curtain/Motor Controller

UP

DOWN

AC Motor Projector Screen

Smart Door Lock

HBE-100C Video Doorbell

HBE-310 Indoor Station

HAA-200 Audio Indoor Station

Curtain Track (Dry Contact)

Smart Villa Touch Panel

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

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Cloud Smart Villa

Home Control
Access Control
Info Center
Remote Monitor
Green Home
Alarm System

Smart Villa Portal Service

Integrated Features

- **SIP/IP Intercom:**
  - Indoor touch panel vs. video doorbell
  - iPhone/Android cloud intercom vs. video doorbell

- **Access Control:**
  - During intercom, indoor touch panel or iPhone/Android to unlock door for guest
  - RFID or dynamic QR Code access control
  - Garage door control

- **Alarm System:**
  - System arm/disarm via RFID or iPhone/Android
  - Instant siren alert
  - Instant cloud push alarm message to iPhone/Android App

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Integrated Features (cont'd)

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- **Monitoring:**
  - Monitor live camera video from indoor touch panel or iPhone/Android anywhere
  - Aware of any sensor status via iPhone/Android

- **Smart Home Automation:**
  - Home controls:
    - Lighting on/off/dim
    - Appliance on/off
    - Window curtain/shades, garage gate
    - Thermostats
    - Audio/video
  - Scenario control; one touch does it all
  - Control via indoor station, or anywhere via iPhone/Android

Main Products

Smart Villa Equipment Examples

Product	Model	Install	Power	Remarks
Indoor Station	HBE-200(7") HBE-310(10.1")	2-Gang	PoE	1-4 each villa
Audio Indoor Station	HAA-200	1-Gang	PoE	1-4 each villa
Video Doorbell	HBE-100C	1-Gang	PoE	1-2 each villa
PoE Switch	HBI-NPS-0802	ELV Box	HBI-PS-24-150	1 for 8 devices
Cloud Server	HSC-1100	ELV Box	HBI-PS-5-35	1 each villa
Smart Home Gateway	HBC-100	ELV Box	12V	1 each villa
Lighting Control	HBA-200	ELV Box	12V	8CH on/off
Curtain Control	HBA-210	ELV Box	12V	2x Dry Contact, 1x AC Motor
IR Control	HSK-250Z	Desktop	12V	IR line of sight

IP Video Doorbell

HBE-100C

Features	Technical Spec

Features

- 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

Technical Spec

- 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

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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

SIP/IP Cloud Smart Home Gateway

HSC-1100

Features	Technical Spec
• Cloud-based smart building service message publication, for individual or a group of users • Cloud-based alarm event process and notification to iPhone/Android App • Cloud-based SIP intercom forward; when system is switched to preset mode the intercom call will be forwarded to iPhone/Android App, so user can monitor and talk anywhere and unlock door during intercom • System log and query	• CPU ARM Cortex A53 • RAM 1G DDR3 • Flash 8G SSD • OS Linux/Android • SD Card Supported • Serial USB • LAN RJ-45 GbE • Power Type-C 5V/3A • Install Desktop • Dimension 66x58x25mm

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^{TM} 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

Wiring & Installation

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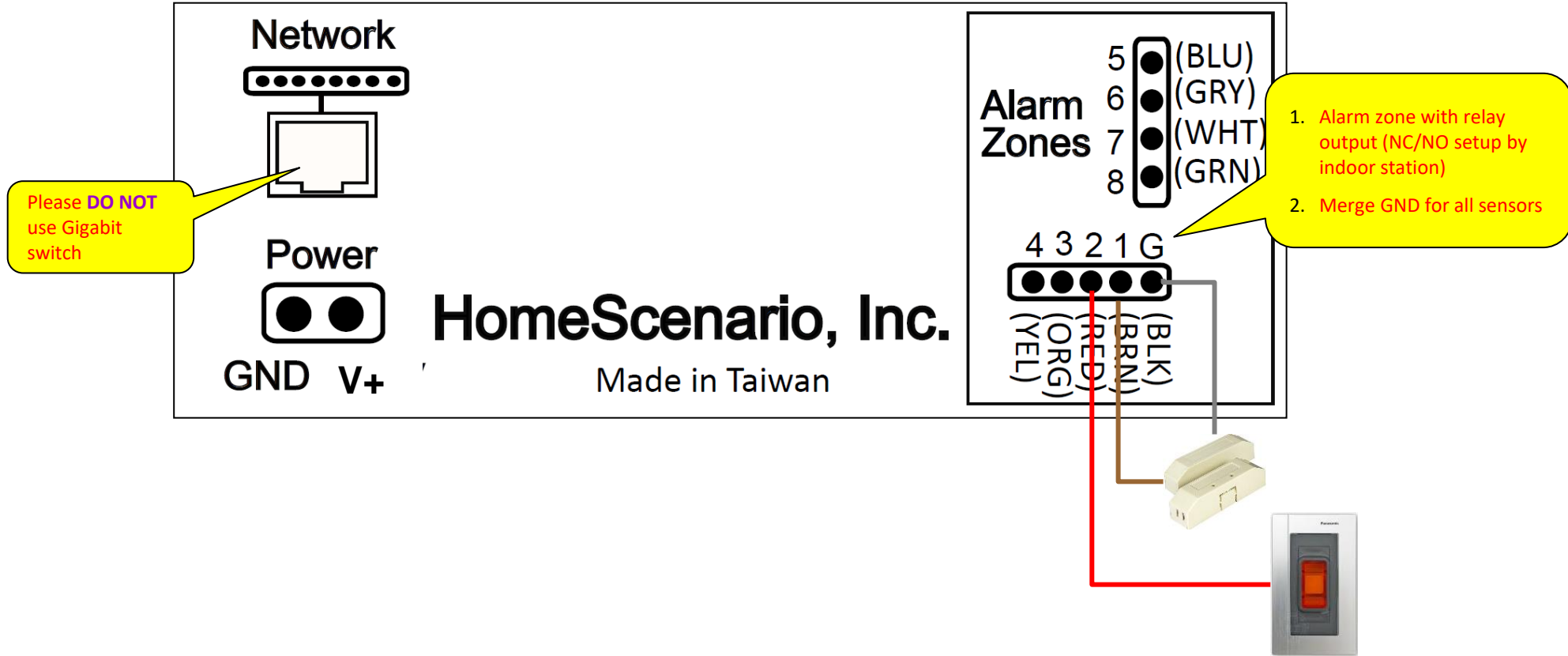**Smart home made easy!**

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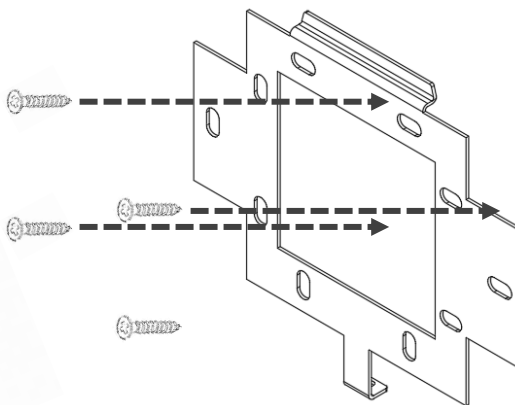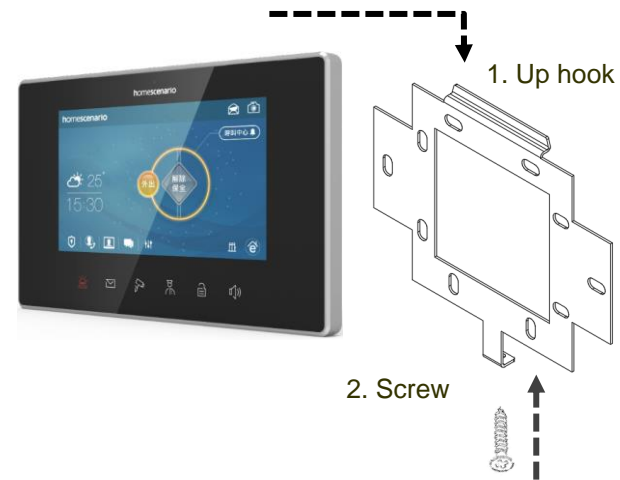
1. Alarm zone with relay output (NC/NO setup by indoor station)
2. Merge GND for all sensors

Video Doorbell

Mounting Frame
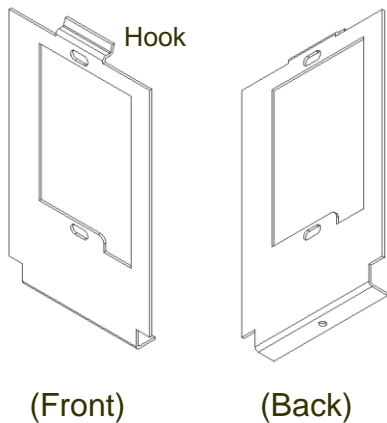
Step 1 **Step 2** **Step 3**

Hook

(Front) (Back)

Screw

HBA-200 Lighting Wiring

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3-Way Wiring

Each CH 2 AC wires

3-Way Panel

SPDT Panel

N (CH 5-8)

N (CH 1-4)
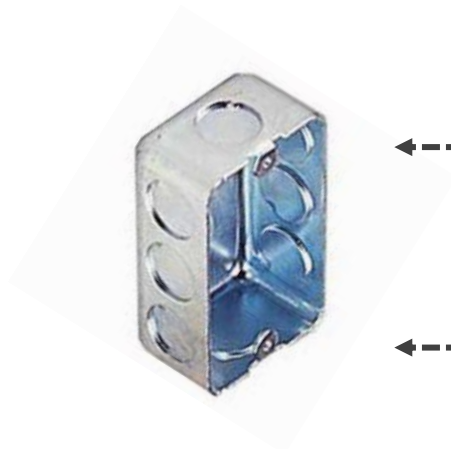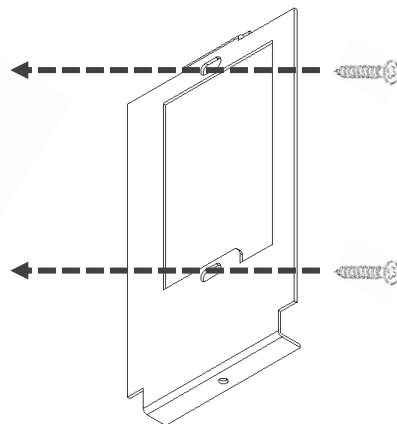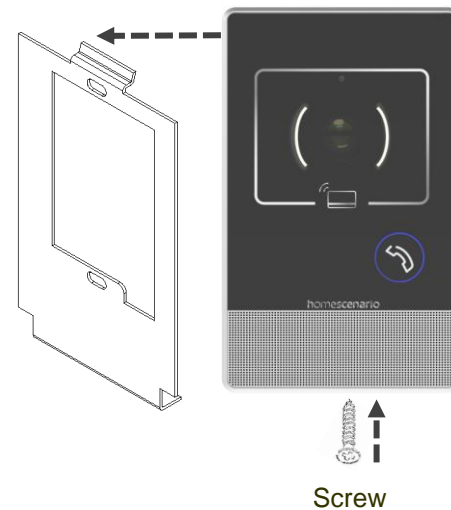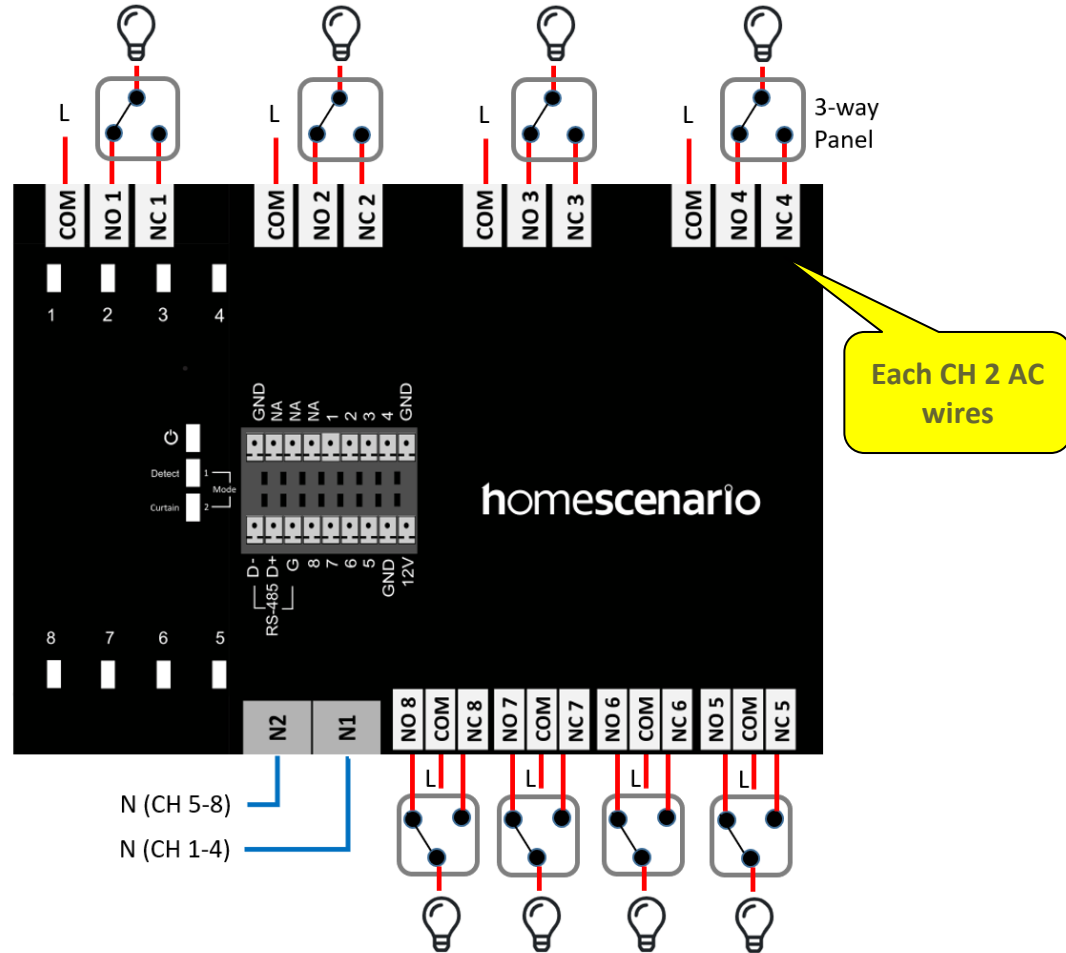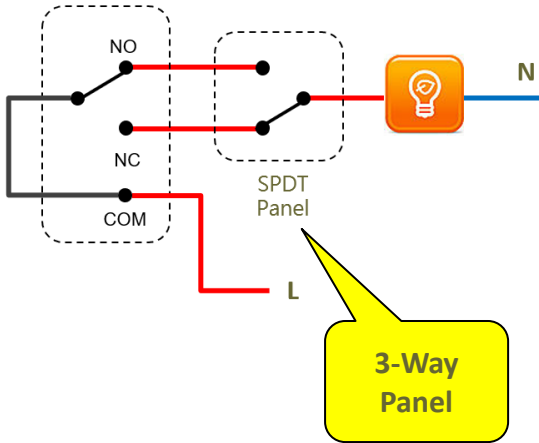
HBA-210 Curtain Wiring
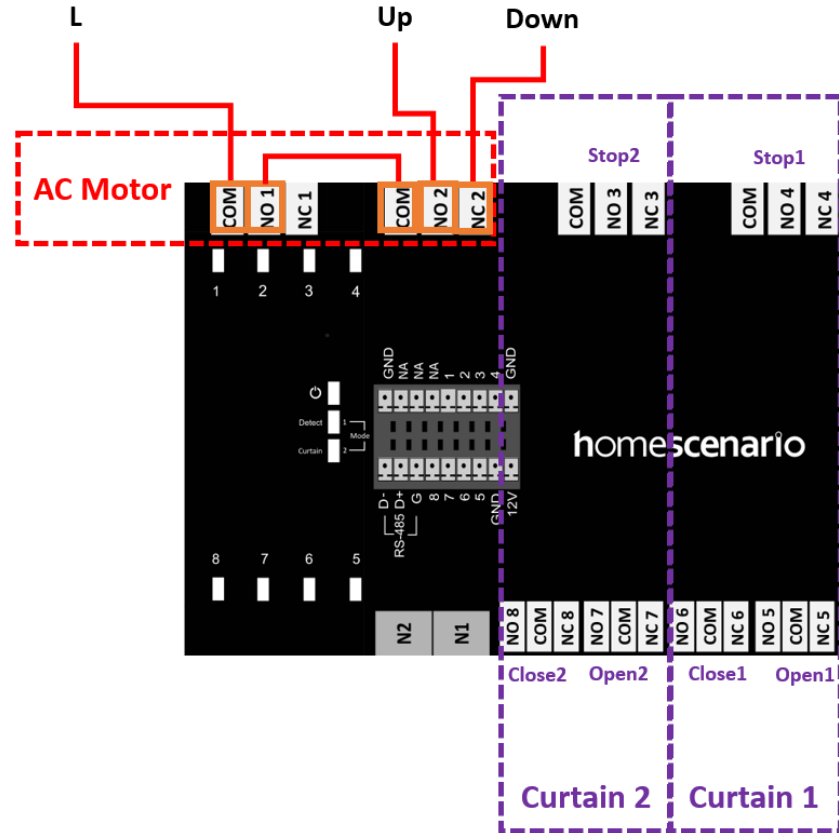
Wiring Instruction:

Window Curtain

Motorized Track

(Contacts)

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

SPST Toggle Switch

(Inwall Box)
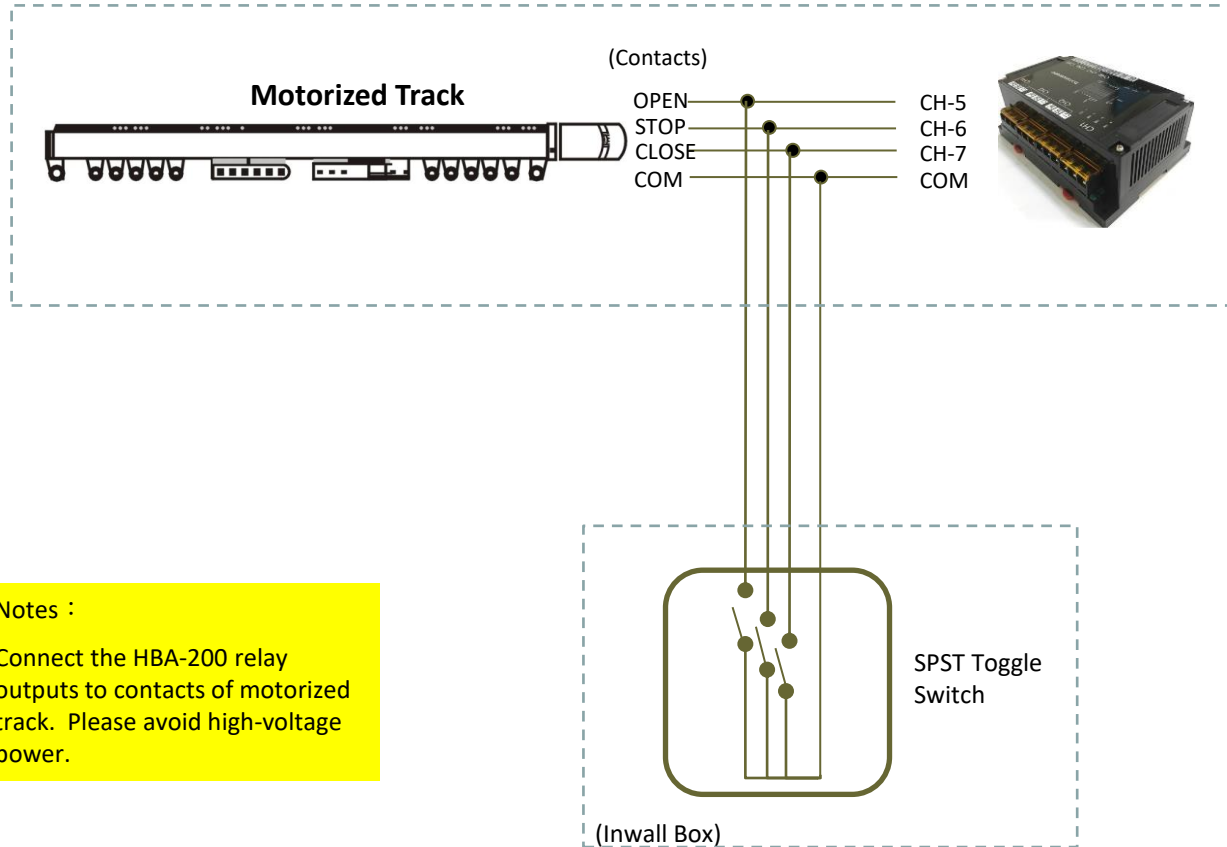
Notes：

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

Summary

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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HomeScenario Vision

Asia's Leading Provider for Smart Building System

Thank You

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