# User Manual NSPanel86PB-Relay / NSPanel86PW-Relay (EN)

ITEAD - 李梓旋(42604830)


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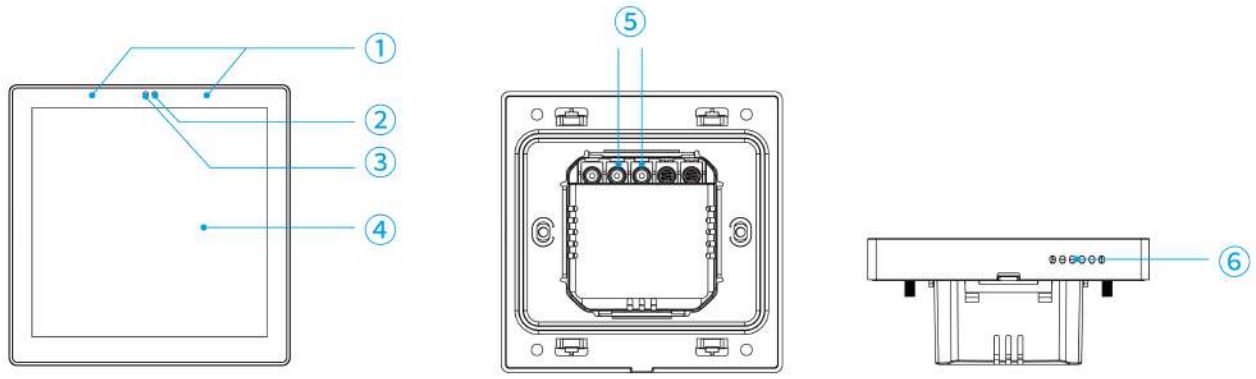
Smart Home Control Panel（Dual-Channel Relay） User Manual v1.0

# Introduction




| | | |
|---|---|---|
| ① Microphone | ② Proximity Sensor | ③ Light Sensor |
| ④ 3.95" Capacitive Touchscreen | ⑤ Dual-Channel Relay | ⑥ Speaker |

*Device Weight: < 1kg

*Recommended Installation Height: < 2 m

## Features

**NSPanel Pro Gen2** is a smart wall panel designed to unify your entire home. It seamlessly integrates device control, environment regulation, security monitoring, and intuitive touch interaction into one elegant interface—becoming the visual command center of your smart home.

- **Whole-Home Control at Your Fingertips**

Adjust lights, curtains, air conditioning, and room temperature through a sleek visual interface. Customize your dashboard with widgets to create a personalized control panel tailored to your needs.

- **Dual-Channel Relay, Direct Local Control**

With built-in dual-channel relays, it can directly control two wired devices, enabling stable and reliable local on/off operation even without an internet connection.

- **Zigbee & Matter Bridge Built-In**

Equipped with a built-in Zigbee gateway, it supports stable connectivity with a wide range

of Zigbee devices. With the Matter Bridge, effortlessly integrate and control devices across different smart home ecosystems.

- **Home Assistant Dashboard & Camera View**

Fully compatible with Home Assistant, serving as a dedicated touchscreen interface. Supports real-time camera monitoring—view live feeds directly on the panel for enhanced security and peace of mind.

- **Central Heating Control System**

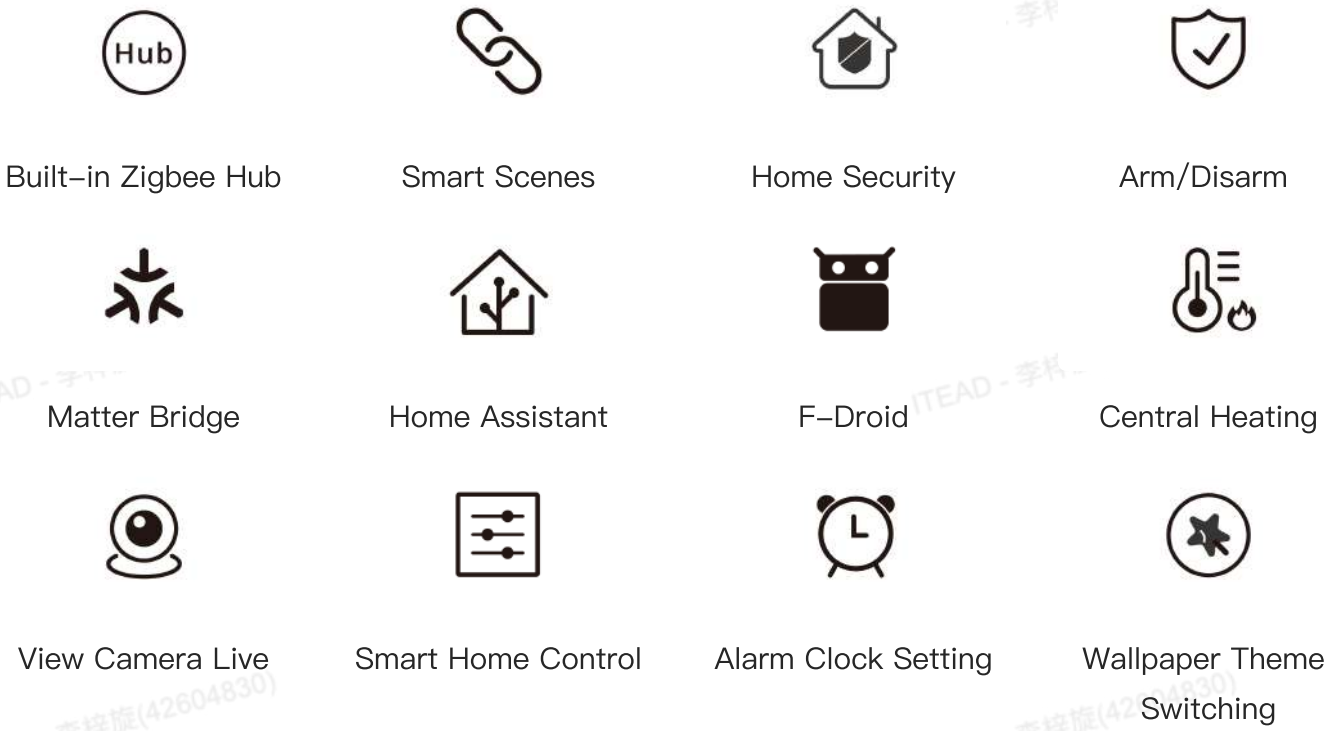
Supports multiple temperature and humidity sources, allowing simultaneous monitoring and control of temperatures in multiple rooms. It can also activate connected devices to achieve consistent temperature throughout the home.

- **Open Ecosystem with F-Droid**

Unlock the full potential of your NSPanel Pro Gen2 with the F-Droid app store, explore a wide range of third-party tools to customize your experience.

- **One-Tap Security Mode**

Preset three security modes—Away, Home, and Sleep—for quick and easy arming. One tap activates whole-home protection, keeping your family safe at all times.




# Compatible Voice Assistants

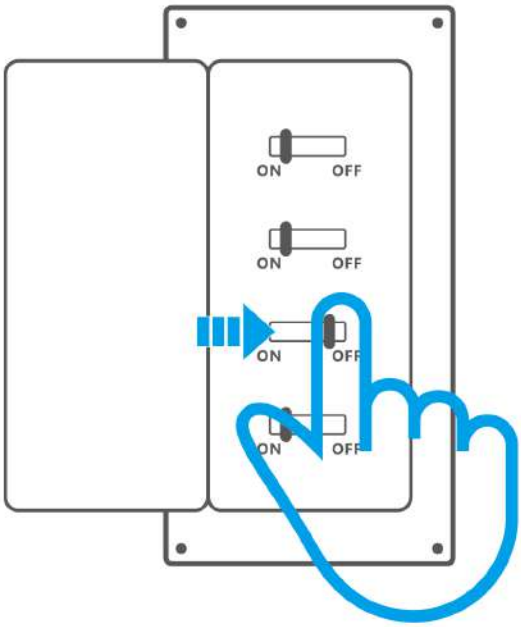
# Specification

| NSPanel Pro Gen2 | |
|---|---|
| Product series | NSPanel Pro Series |
| Product name | Smart Home Control Panel |
| Model | NSPanel86PB-Relay, NSPanel86PW-Relay |
| CPU | Quad-core ARM Cortex-A35 CPU |
| GPU | Mali G31-2EE GPU |
| Soc | RK3326-S |
| RAM | 2 GB |
| Storage | 32 GB |
| Rating | 100—240V-50/60 Hz MAX 5A/Gang 10A/Total Resistive load<br>LED: 150W@240V/Gang, 75W@100V/Gang |
| Wireless connectivity | IEEE 802.11a/b/g/n/ac/ax 2.4G/5G, Zigbee 3.0 |
| Screen size | 3.95" (Capacitive touch panel) |
| Screen resolution | 480x480 |
| Touch control | Support multi-touch |
| Audio output | 8Ω, 1.5W speaker |
| Microphone | Dual Array Digital Microphone |
| Light sensor | Adjust brightness according to ambient light automatically<br>(IIC light sensor) |

| | |
|---|---|
| Net weight | 190g |
| Applicable place | Indoor |
| Working temperature | -10℃-40℃ |
| Working humidity | 10%~80% RH, non-condensing |
| Color | NSPanel 86PW-Relay: White, NSPanel 86PB-Relay: Dim Gray |
| Product dimension | 86x86x39.5mm |
| Casing materials | PC+CRS |
| Certification | CE/RoHS |

# Installation

## 1. Power off




WARNING

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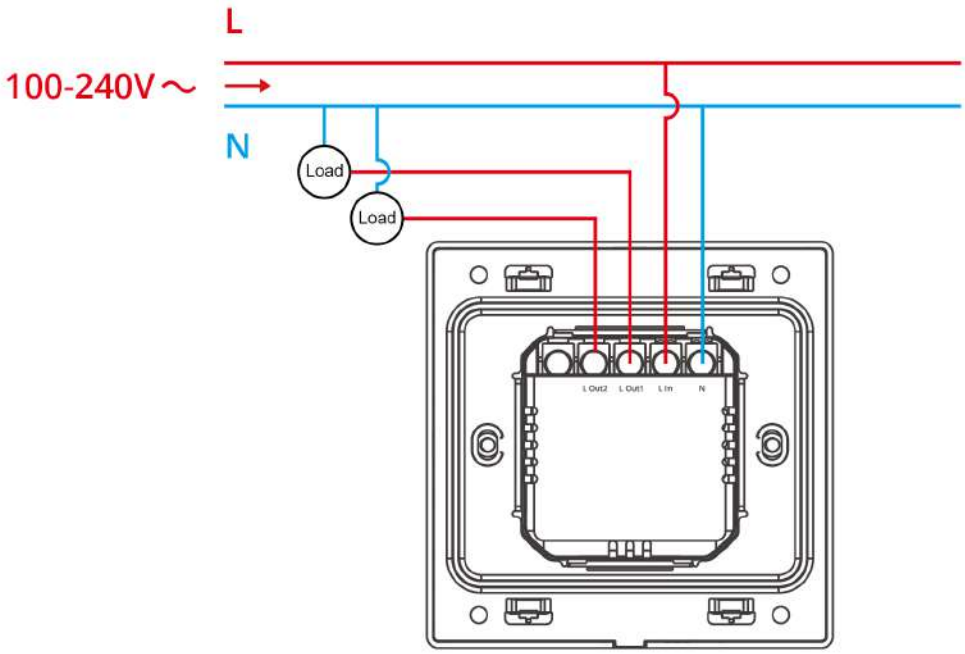
1. Please install and maintain the device by a professional electrician. To avoid electric shock hazard, do not operate any connection or contact the terminal connector while the device is powered on!

2. To ensure the safety of your electrical installation, it's essential either a Miniature Circuit Breaker (MCB) or a Residual Current operated Circuit-breaker with Integral Overcurrent protection(RCBO) with an electrical rating of 10A has been installed before the NSPanel86PB-Relay,NSPanel86PW-Relay.

## 2.Wiring instruction




⚠️ **Warning:** Please make sure all wires are connected correctly.

## 3.Installation

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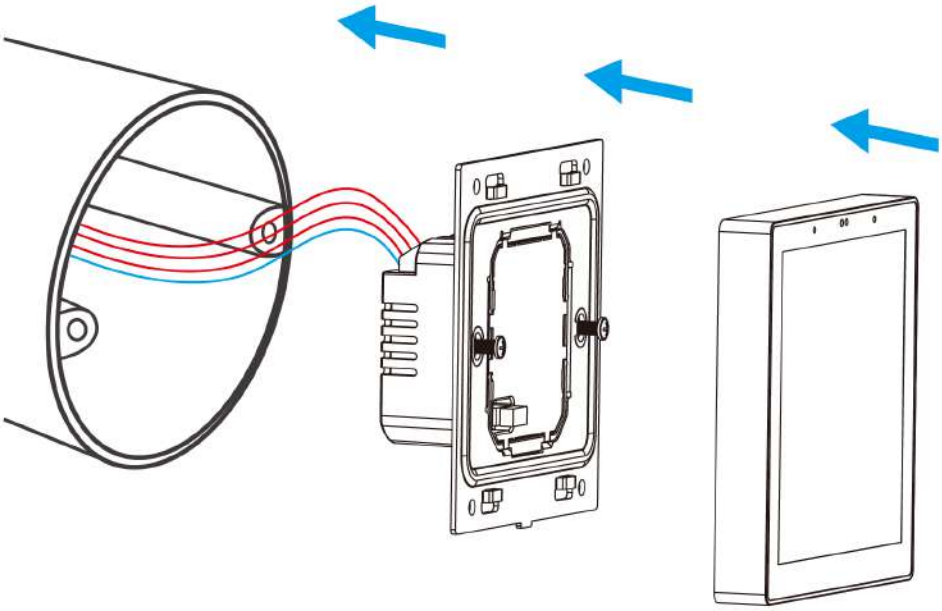


⚠️**Warning:** The product should be installed in the concrete wall or other non-combustible location.

# Function Guide

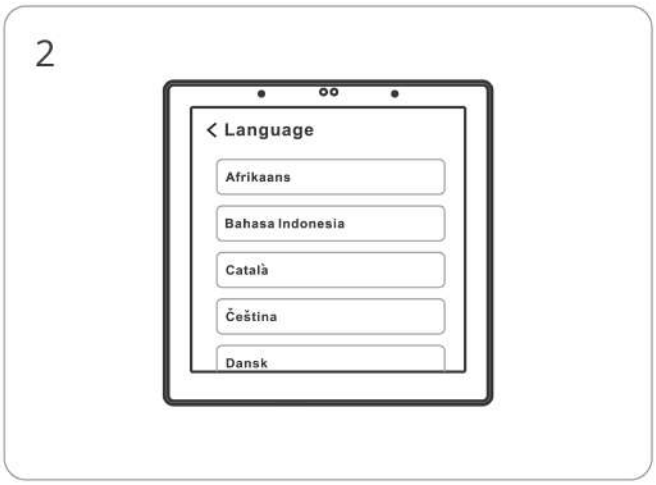
## Log In to eWeLink Account

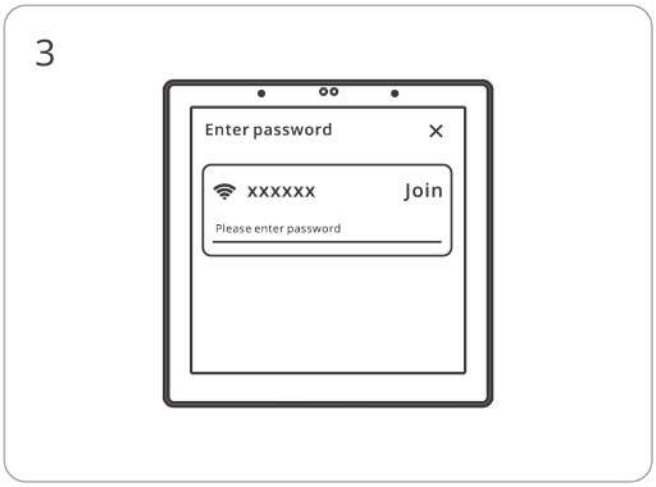
**Download the "eWeLink"App**

Please download the "**eWeLink**" App from **Google Play Store** or **Apple App Store**.

## 1. Power on

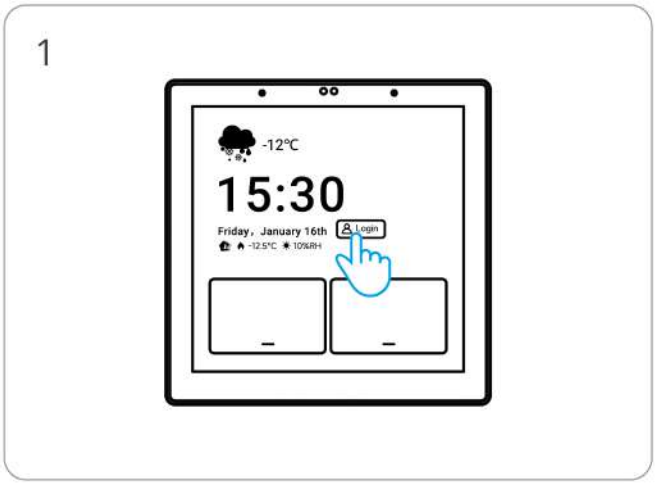
After powering on, click "Start," choose the language and region, and then select Wi-Fi and input the password to enter the device's main interface.

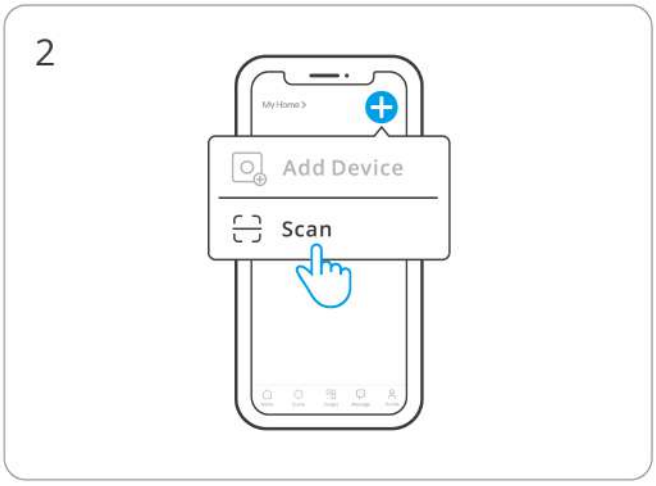



## 2. Log in

Tap "Log in" on the device and tap "+" on the eWeLink App to select "Scan", then scan the QR code on the device screen by your App.

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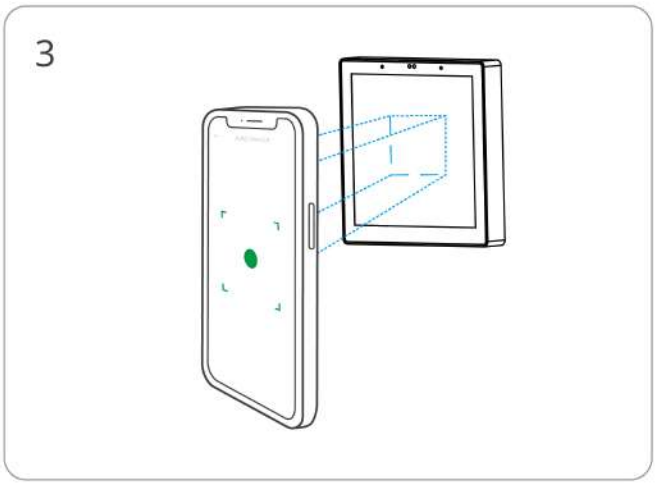
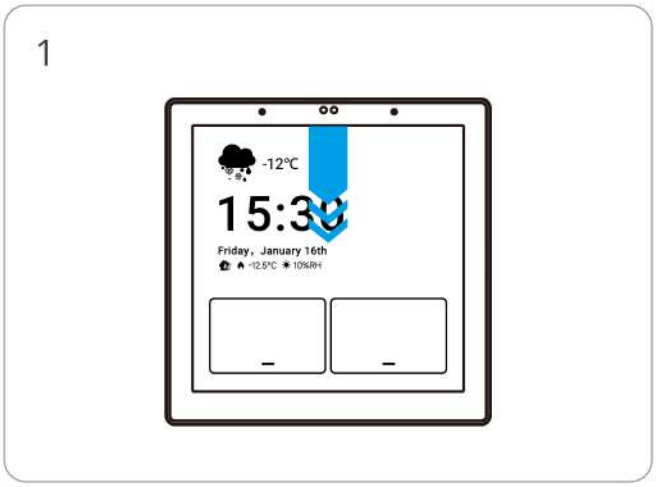
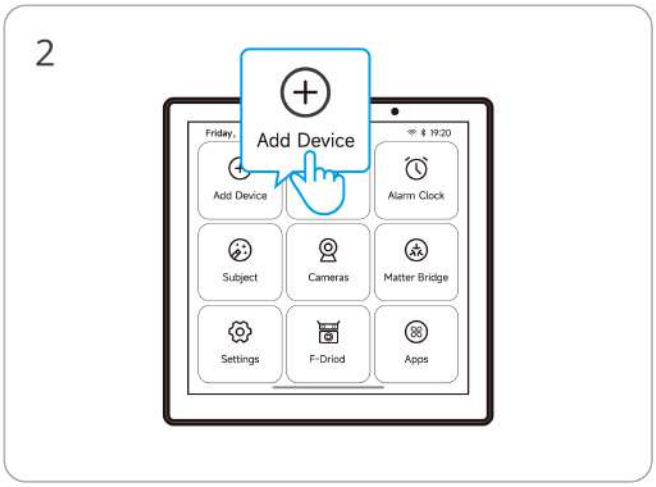



# Add Zigbee Devices

## 1. Pairing mode entry

### Method 1: Entry on the central control panel.



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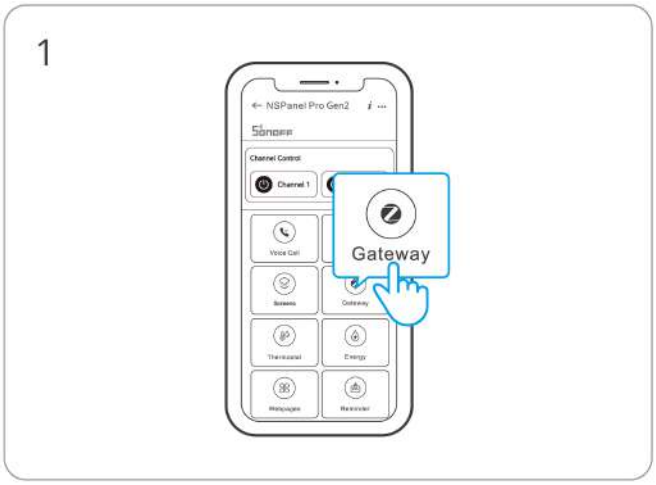
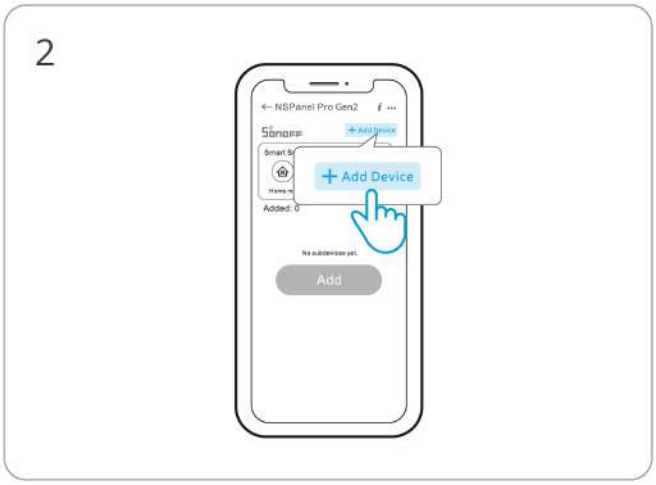
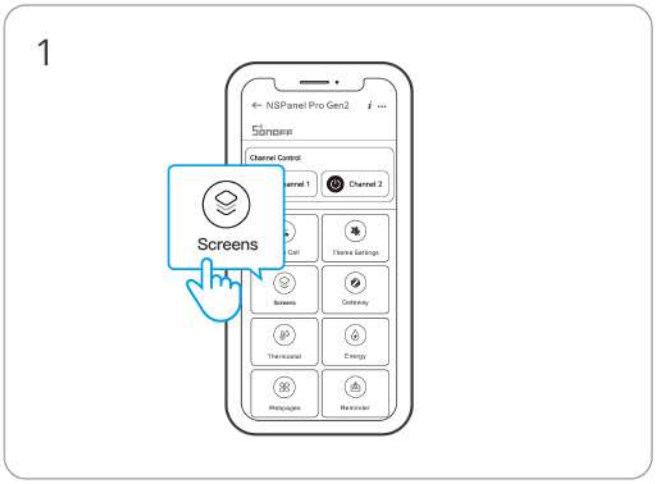
Method 2: Entry on the eWeLink App.



**2.** Set the Zigbee device into the pairing mode and complete the adding by following the prompts.

## Add Wi-Fi Devices



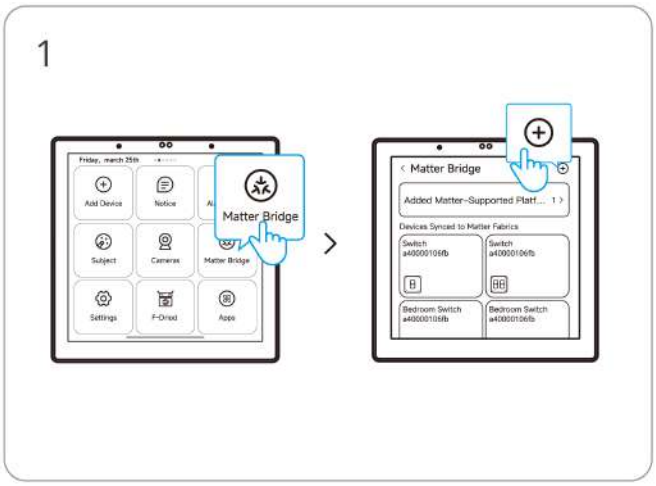
1. Add Wi-Fi devices on the eWeLink App.

2. In the main interface of NSPanel Pro Gen2 on the App, select "**Edit Extended Screen**" and synchronize the connected Wi-Fi devices to the NSPanel Pro Gen2.

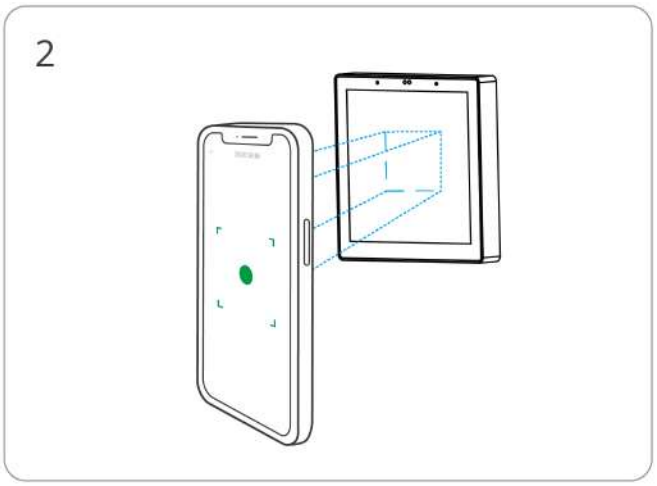
*After adding the devices, they can be checked and controlled on the panel.

# Matter Bridge

## Method 1: Pair via Matter Bridge on the NSPanel Pro Gen2 & Sync Devices via App




Swipe down on the screen and select "Matter Bridge" to enter pairing mode.




Open a third-party Matter-compatible app, scan the Matter pairing code or enter the numeric code, and follow the on-screen instructions to complete pairing.

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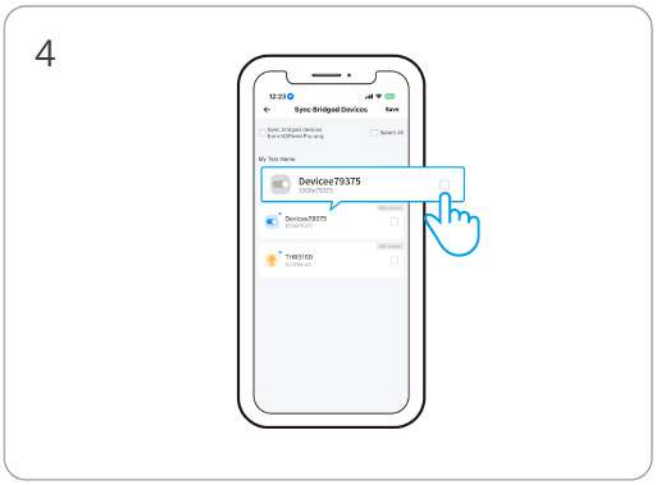
Open the eWeLink app, go to the NSPanel Pro Gen2 device settings page, navigate to **Matter Bridge > Sync Bridged Devices**.




Select and confirm the device to sync it to your added Matter ecosystem.

## Method 2: Pair via Matter Bridge in eWeLink App & Sync Devices

On the NSPanel Pro Gen2 device settings page in the eWeLink app, select "Matter Bridge" to enable pairing mode.

Use a third-party Matter-compatible app to scan the Matter pairing code or enter the numeric code to complete pairing.

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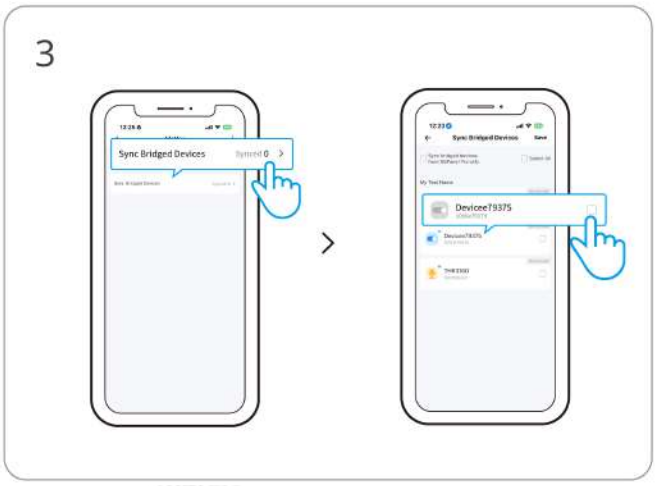
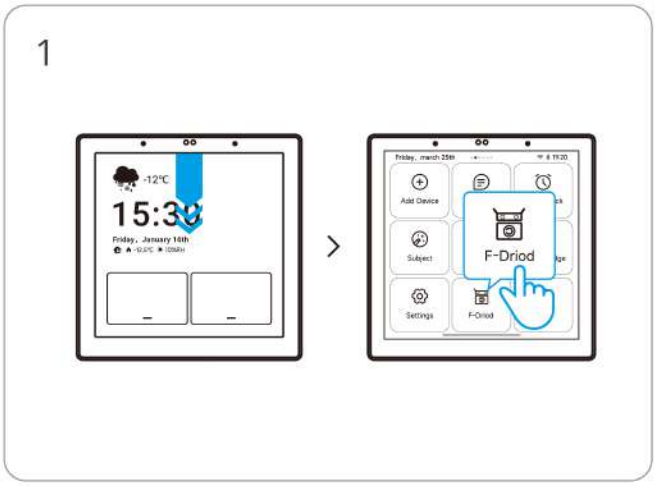
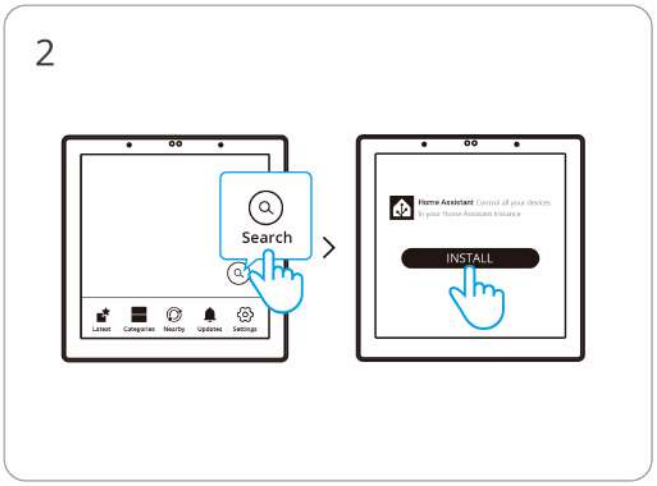



In the device sync management section, select the devices under your eWeLink account and confirm. The selected devices will be synced to your Matter ecosystem.

## F–Droid




Swipe down on the screen and select "F–Droid" to search for apps.




Download and install the desired app, then launch it to start using.

## Home Assistant App as Home App

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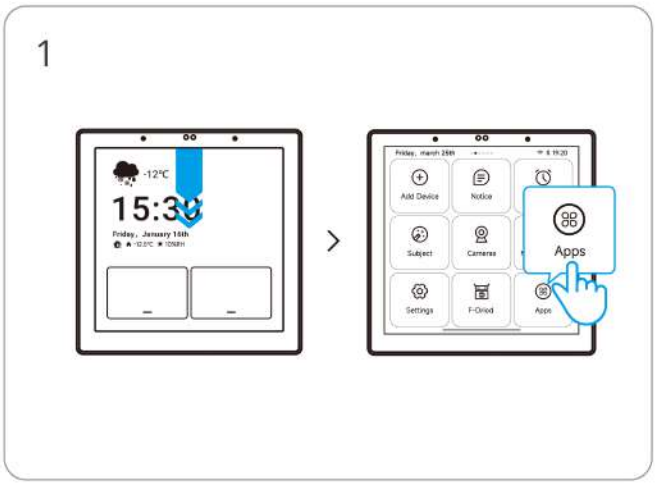
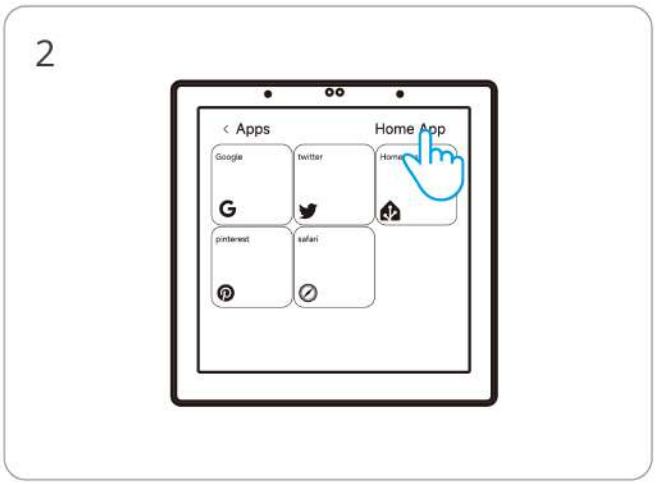
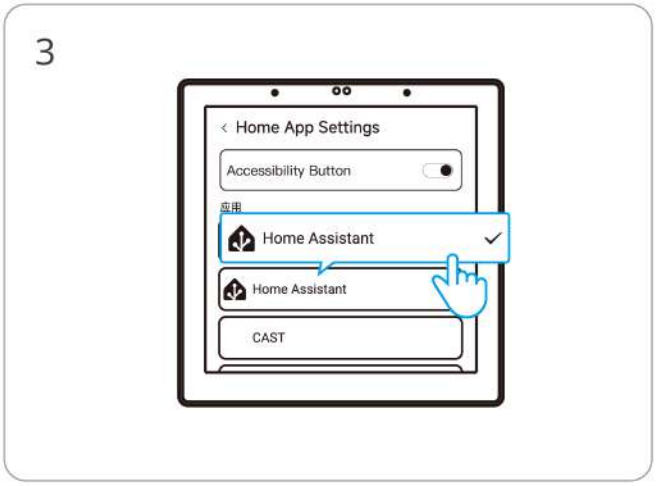



Swipe down on the screen, tap "Apps" to enter the app selection interface.




Select "Home App", then choose "Home Assistant" from the app list and confirm.




Choose "Home Assistant" and confirm to set it as the default Home App, accessible directly from the main screen.

*Other apps can also be set as the default home screen app.

# Enable & Add Central Heating

## Enable Central Heating:

### Method 1:

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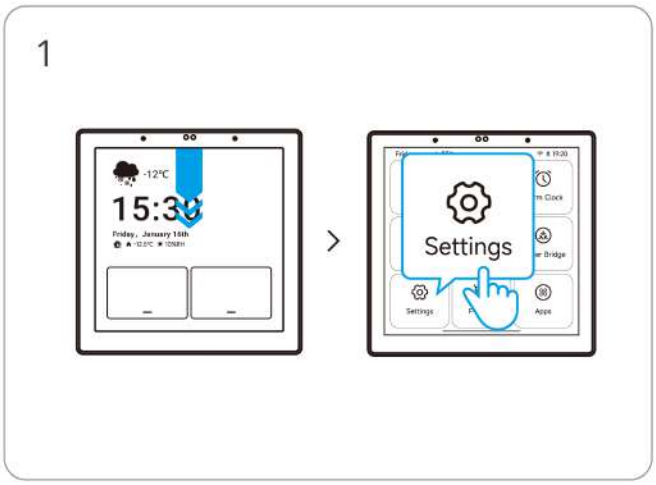
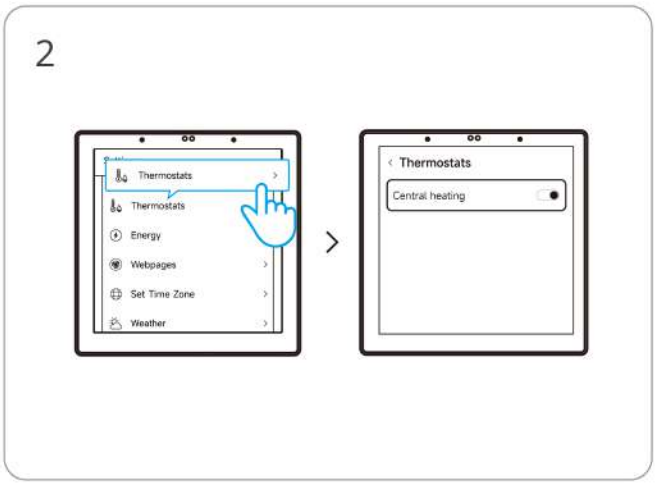
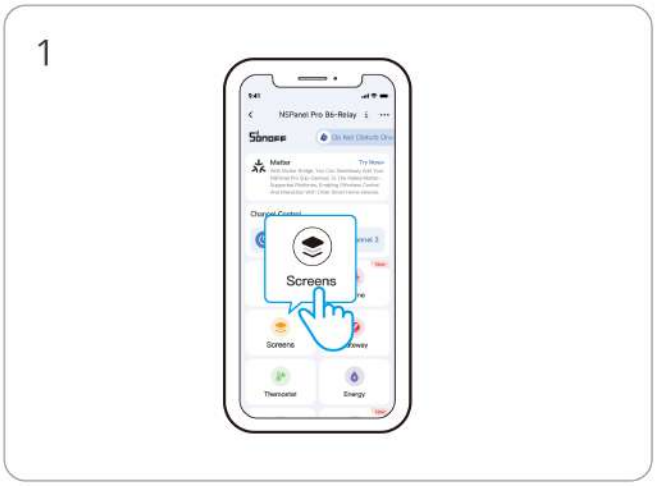



NSPanel Pro Gen2 Screen > Drop-down Menu > Settings

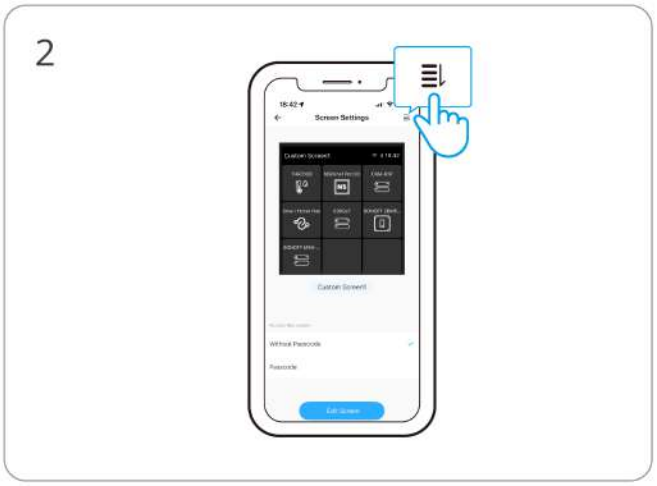



Thermostats > Central Heating, set to "Enable".

**Method 2:**




eWeLink App > NSPanel Pro Gen2 > Screens




Tap the split-screen sort icon in the top right corner.

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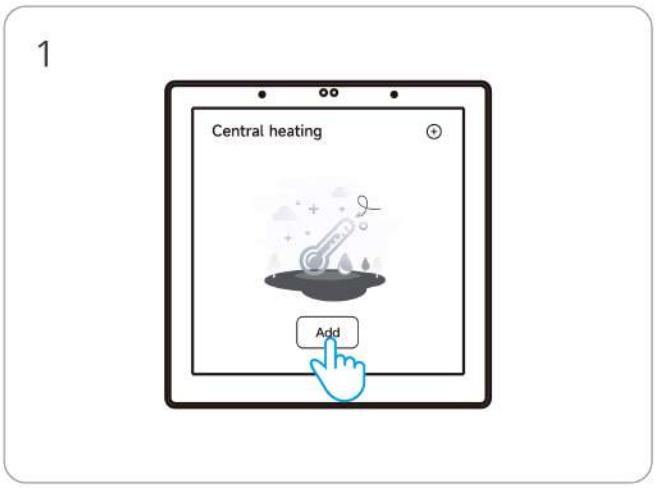
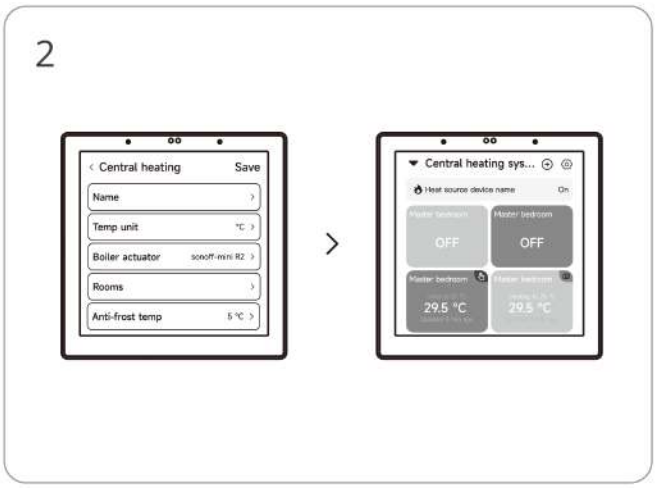
Set the "Central Heating" to display.

## Add Central Heating:




On the NSPanel Pro Gen2 screen, enter the "Central Heating" split screen, tap "Add".




Follow the on-screen instructions to complete the setup to control the room temperature.

# Add Camera & View Camera

## Method 1: Add Camera via the NSPanel Pro Gen2 Screen

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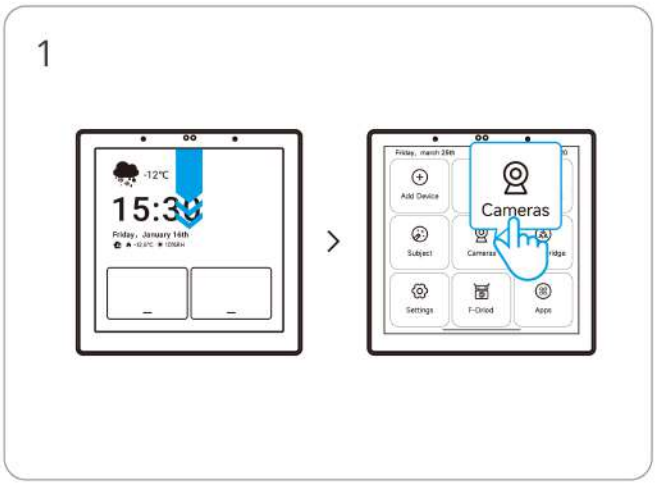
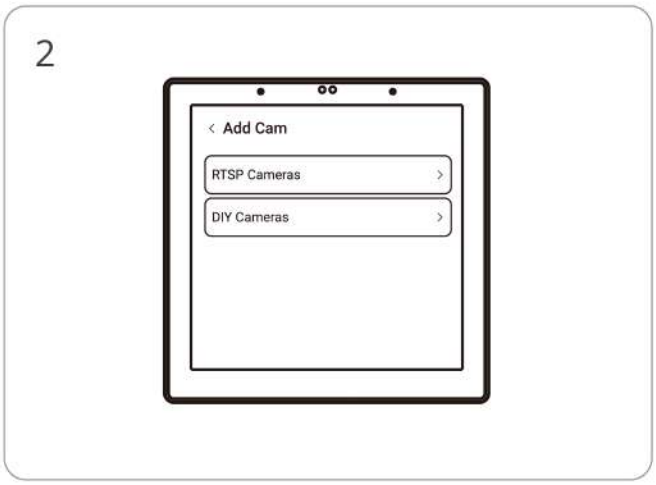
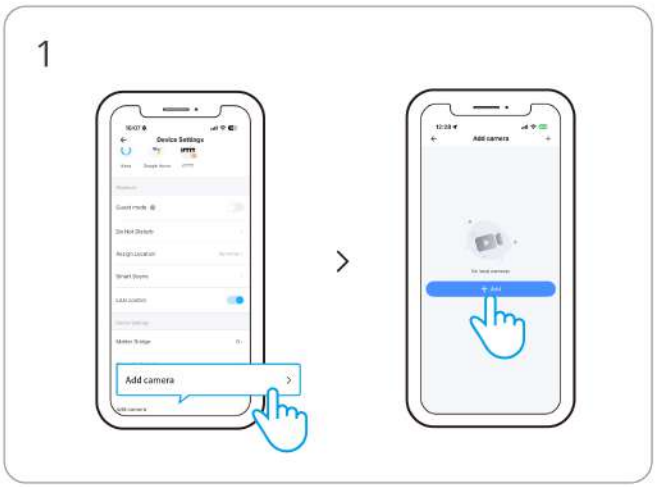



Select "Cameras" from the drop-down menu.




Choose to add an RTSP camera or a DIY camera according to the on-screen instructions.

## Method 2: Add Camera via the eWeLink App




eWeLink App -> NSPanel Pro Gen2 -> Settings Page -> Add Cameras.

Choose to add an RTSP camera or a DIY camera according to the on-screen instructions.

## View Camera Feed

View the camera feed on the NSPanel Pro Gen2 screen.

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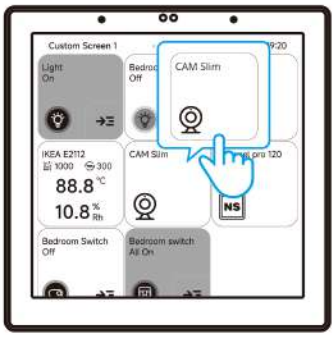
1




Select the added "Camera" device, such as "CAM Slim".

2

Instantly view the live camera feed on the screen.

# Smart Security

There are 3 modes of Smart Security, home mode, away mode and sleep mode. Select the mode on the App to enable the triggerable sub-devices and set the alarm sound.

1

2

3

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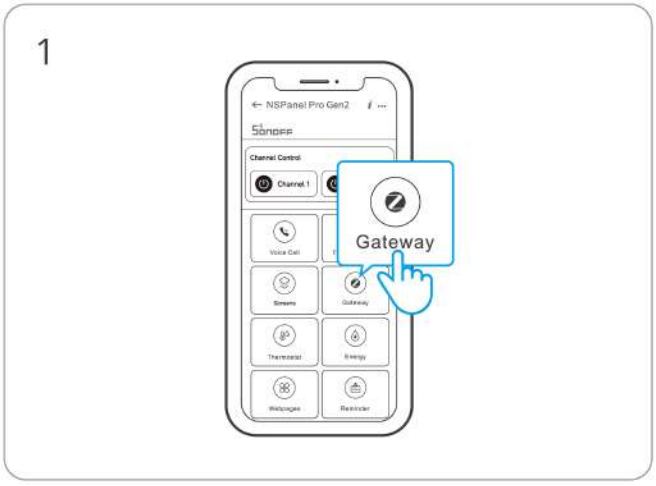
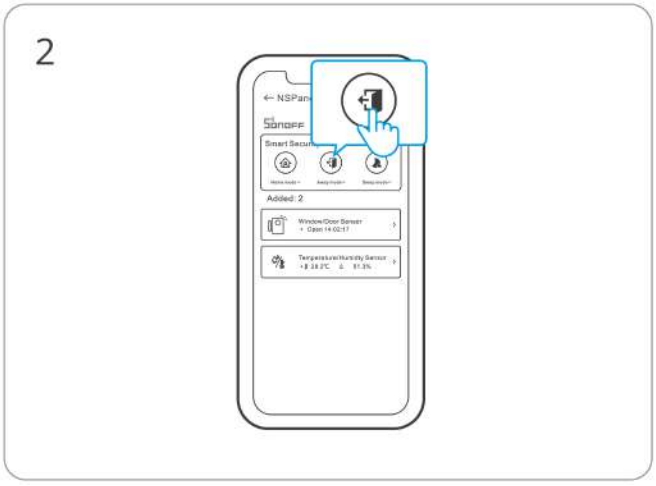
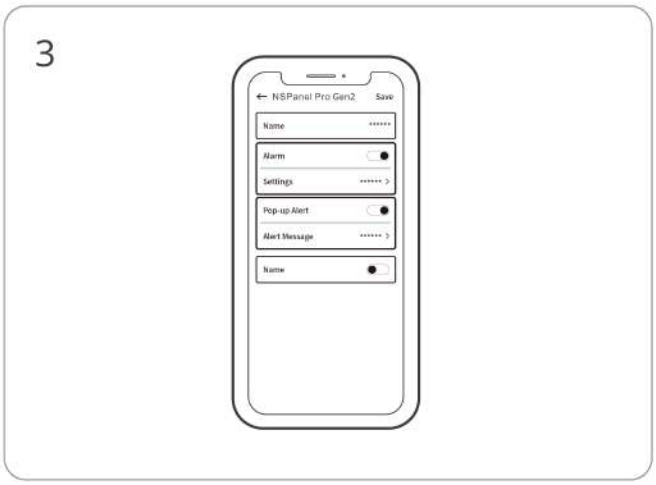
*The smart security functions can only be used after adding security sub-devices (door/window sensors, motion sensors, water leak sensors, wireless buttons).

**If security sub-devices have already been added, the operation steps are as follows:**




# Factory Reset

## Method 1:

Deleting the device on the eWeLink App indicates you restore it to factory setting.

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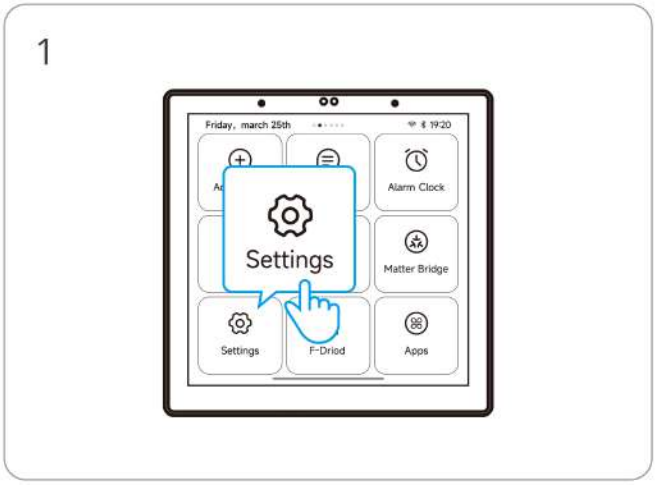
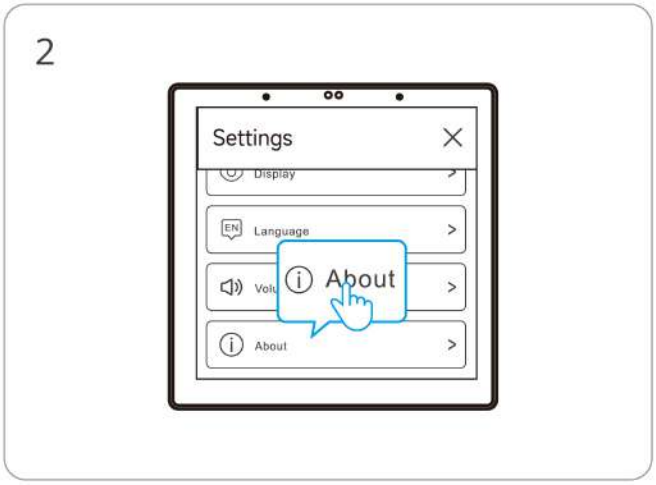
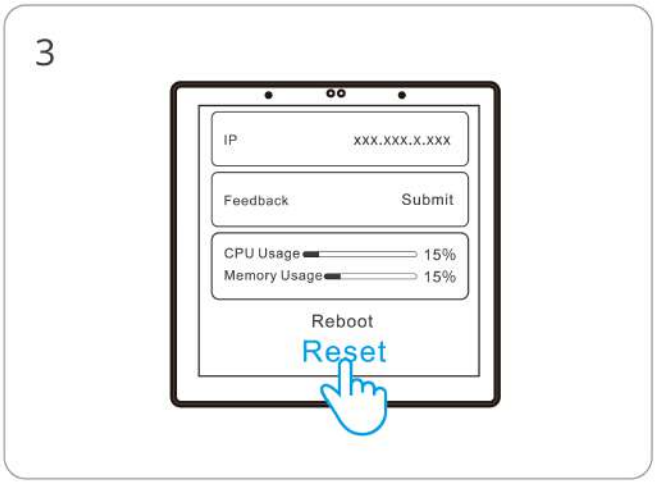
## Method 2:

Complete the factory reset follow the prompts on the panel.

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# EU Declaration of Conformity

Hereby, Shenzhen Sonoff Technologies Co., Ltd declares that the radio equipment type NSPanel86PB-Relay,NSPanel86PW-Relay is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: https://sonoff.tech/compliance/.

# For CE frequency

## EU Operating Frequency Range

Wi-Fi: 802.11 b/g/n20 2412-2472 MHz, 802.11 n40:2422-2462 MHz, 802.11a/n/ac/ax 5150-5250 MHz, 5725-5850 MHz

BLE: 2402-2480 MHz

Zigbee: 2405-2480 MHz

## EU Output Power

Wi-Fi 2.4G≤20dBm

Zigbee 3.0≤10dBm

BLE≤10dBm

Wi-Fi 5150-5250MHz＜23dBm

Wi-Fi 5725-5850MHz＜14dBm

5G is only available indoors.

Under normal use of condition, this equipment should be kept a separation distance of at least 20 cm between the antenna and the body of the user.

| Scatola | Scatola | Manuale | Neto | Borsa |
|---|---|---|---|---|
| PAP 20 | PAP 21 | PAP 22 | EVA 7 | LDPE 4 |
| Carta | Carta | Carta | Plastica | Plastica |
| RACCOLTA DIFFERENZIATA | | | | |

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Verifica le disposizioni del tuo Comune.

Separa le componenti e conferiscile in modo corretto.

# WEEE Disposal and Recycling Information

All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.

**Manufacturer: Shenzhen Sonoff Technologies Co., Ltd.**

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Made in China

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