



User Manual

KNX 12-inch touch panel

Daul Standard 86 backbox (BS)



KNX/EIB Home and Building Control System

Attentions

- 1. Please keep the device away from strong magnets, heat, and moisture.**
- 2. Do not drop the device or hit it hard.**
- 3. Do not clean the device with a wet cloth or strong chemicals**
- 4. Do not disassemble the devices.**

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1. Overview

The KNX series central control screen, hereinafter referred to as the central control screen, is mainly used in building control systems. It is connected to the bus via EIB terminals to control other devices on the bus.

This central control screen can control 256 lighting channels (including switches, dimming lights, color temperature adjustable lights, dual color temperature lights, and RGB lights), 32 curtain channels (including opening and closing curtains and Venetian blinds), 32 HAVC channels (including air conditioning, underfloor heating, and fresh air), 128 scene channels, can connect to 2 external speakers, and support music playback control and synchronized music playback, etc.

Physical address allocation and parameter configuration can be done through ETS software (version ETS5 or above).

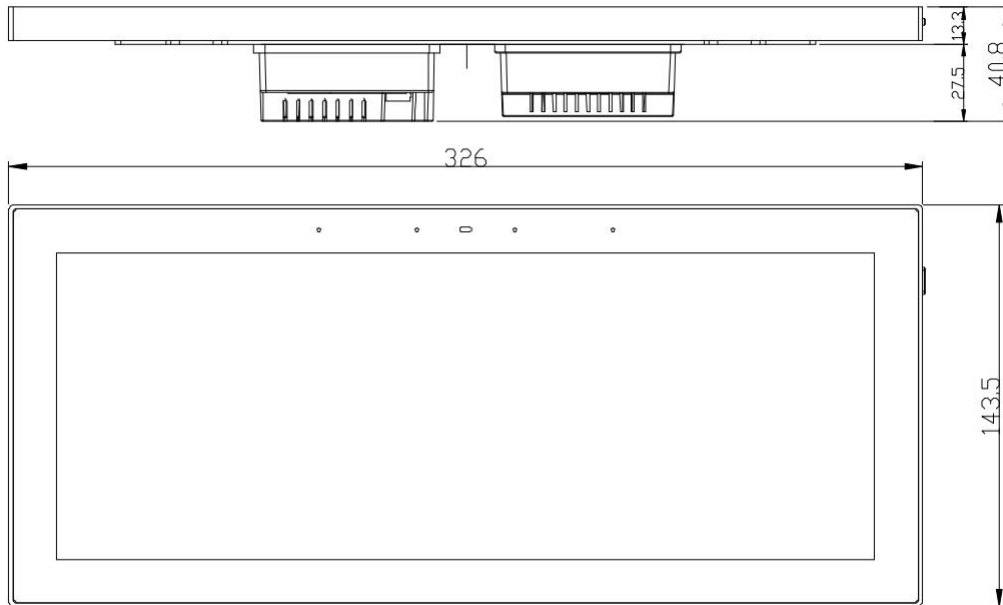
To ensure the system works properly, please check the wiring for any problems before use. This manual provides detailed technical information about the product, as well as installation, debugging, database usage, and programming details .

2. Technical parameters

12inch KNX touch panel

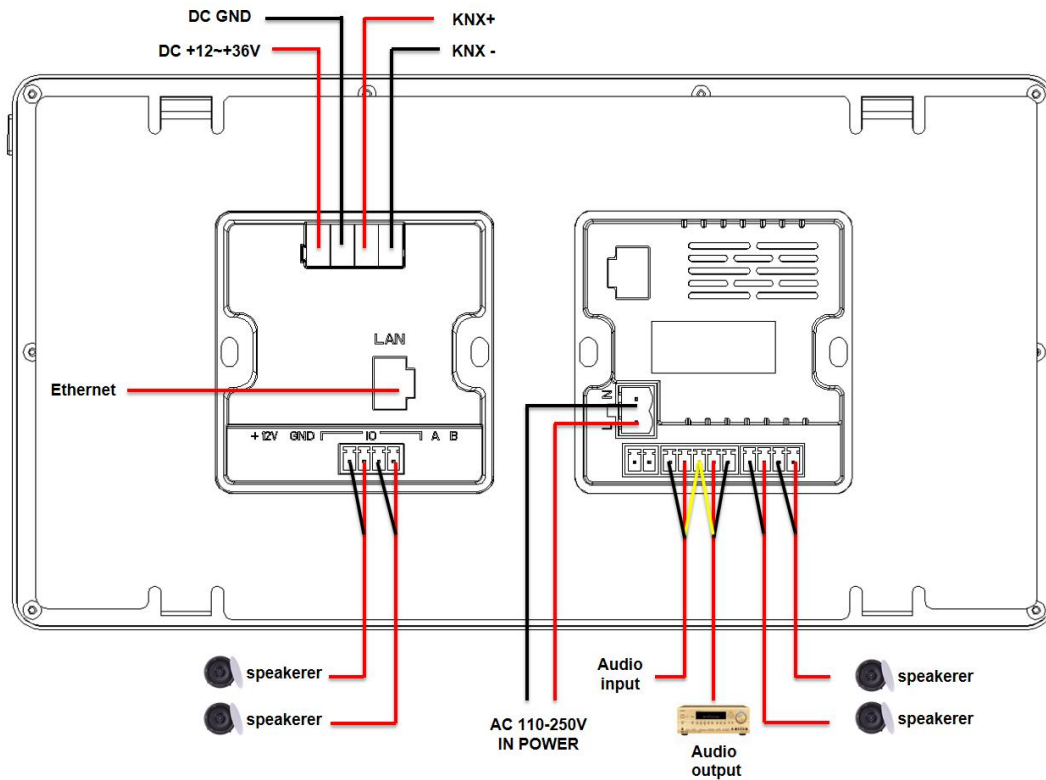
System	Android 11
CPU	Quad-core, Cortex 1.5GHz
RAM + ROM	2GB + 8GB
Screen	12.3inch 1920*720, IPS, multi-touch
Microphone	Four-microphone line array
Built-in speaker	1x2W
Bluetooth	5.0
WiFi	802.11b/g/n wireless protocol 150Mbps 2.4GHz
Ethernet	RJ45, 0M/100M adaptive Ethernet
Interface	USB-C, Support,MAX32G
	TF, Support,MAX 32G
	Audio Input/Audio Output
ExternalSpeaker output	4*(10-25W) (MAX)
One 86 box Power Supply	KNX Bus voltage: 24V
	Auxiliary Supply: DC 12V~36V
One 86 box Power supply	Auxiliary Supply: AC100~240V (DC 12V~36V is optional)
Working temperature	0°C ~40 °C
Working humidity	≤90% RH
Storage temperature	-20°C ~60 °C
Net weight	1.5KG
Dimensions	326× 143.5× 11.5mm, without back box
Installation	Dual 86 back boxes (BS) (EU back box for Optional)

3. Dimensions



4. Wiring diagram

KNX+Background music wiring diagram



5. ETS Parameter Description

5.1 Lighting

It supports a total of 256 lighting channels (including switches, dimmer lights, color temperature adjustable lights, dual color temperature lights, and RGB lights).

" Light " parameter interface allows you to set how many lights to activate.

Light ID	Status
Light 1	Enable
Light 2	Enable
Light 3	Enable
Light 4	Enable
Light 5	Enable
Light 6	Enable
Light 7	Disable
Light 8	Disable
Light 9	Disable
Light 10	Disable
Light 11	Disable

" Device Type " parameter can be used to set the type of light.

Light_Brightness: Adjusts the brightness of the light.

Light_Color_Temperture: Adjusts brightness and color temperature of the light.

Light_RGB: RGB color adjustment light

Light_RGBW:RGBW color-changing light

Light_Switch: Normal switch

Device Type: Light_Switch

Device Type: Light_Switch

Description (Max 30char):

- Light_Brightness
- Light_Color_Temperture
- Light_RGB
- Light_RGBW
- Light_Switch (checked)

" **Description** " parameter can be used to set the name of the light.

Description (Max 30char.)

5.2 Curtains

It supports a total of 32 types of blinds (including sliding blinds and Venetian blinds).

" **Shade** " parameter interface allows you to set how many curtains to enable.

- Shade

Shade 6	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Shade 7	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

Shade 1

" **Description** " parameter can be used to set the name of the curtain.

Description (Max 30char.)

" **Device Type** " parameter indicates the type of curtain.

Shade_Curtain: Opening and closing curtains

Shade_Shutter: Venetian blinds

Device Type Shade_Curtain Shade_Shutter

5.3 HVAC

" **HAVC** " parameter interface allows you to set how many air conditioning units to activate.

- HVAC

HVAC 8	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
HVAC 9	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
HVAC 10	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

+ HVAC Fast Configuration

" **Description** " parameter can be used to set the name of the air conditioner.

Description (Max 30char.)

" **Template for quick parameter configuration** " parameter allows you to set the template parameter type.

Template for quick parameter configuration Template 1 Template 2

" **Device Type** " parameter can be used to set the air conditioner type.

"HVAC _ Air _ Condition" : Air Conditioning

"HVAC _ Floor _ Heater" : Underfloor heating

"HVAC_Air_Purifier " : Fresh Air System

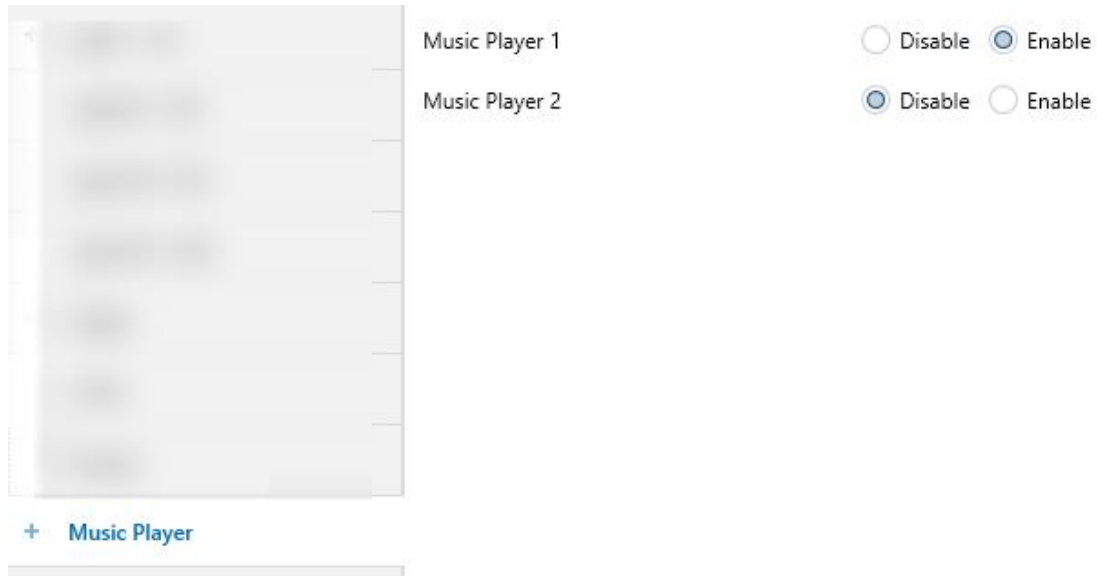
Device Type	HVAC_Air_Condition
	HVAC_Air_Condition ✓
	HVAC_Floor_Heater
	HVAC_Air_Purifier

" **Type of air condition** " parameter allows you to set whether the air conditioning type is FCU or VRF.

Type of air condition FCU VRF

5.4 Player

" **Music Player** " parameter allows you to set how many players to enable.



" **Player Details** " screen allows you to set up linked music playback or notification messages.

" **Invalid** " : Not enabled

" **Play Prompt** "

" **Play Music** " : Play background music

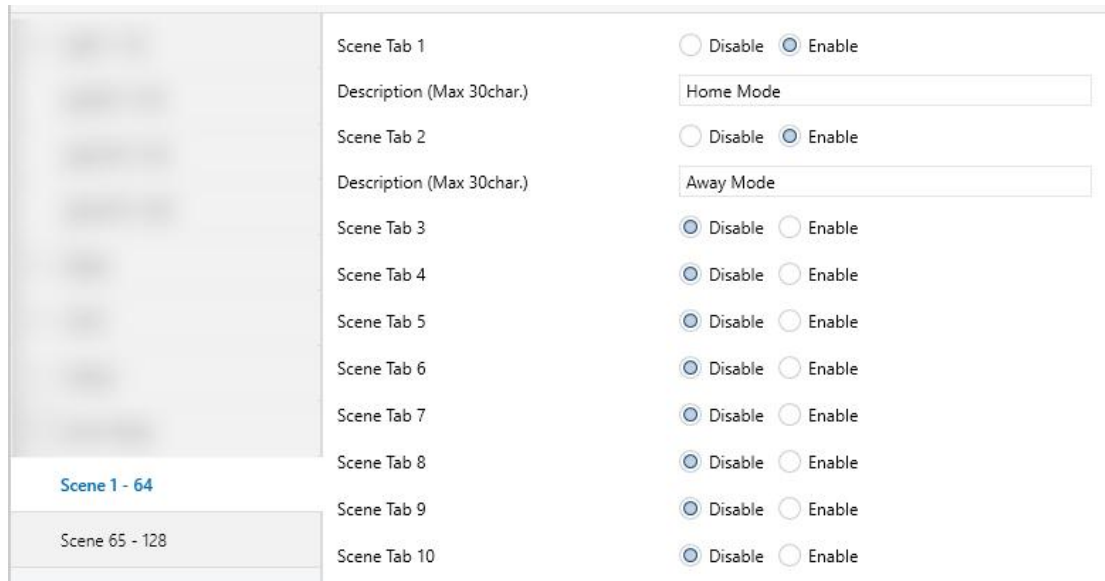
" **Play Prompt & Music** " : Plays a prompt and background music.

" **Play Local Music** " : Play local music



5.5 Scenario

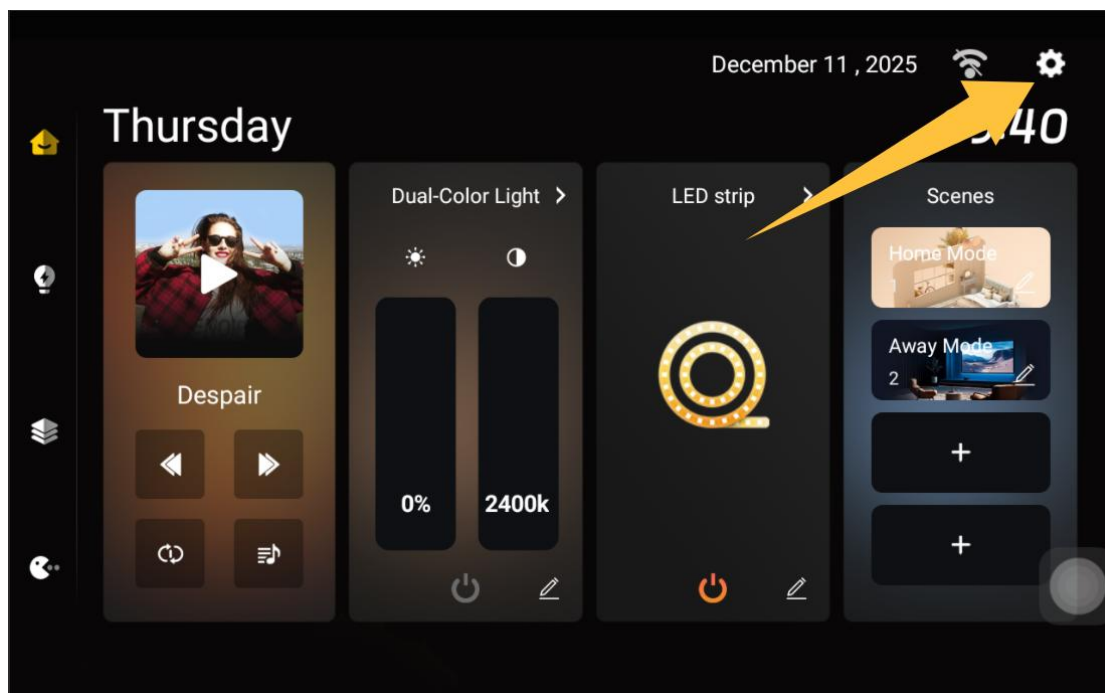
" **Scene** " parameter interface allows you to set the scene name and the number of scenes to enable.

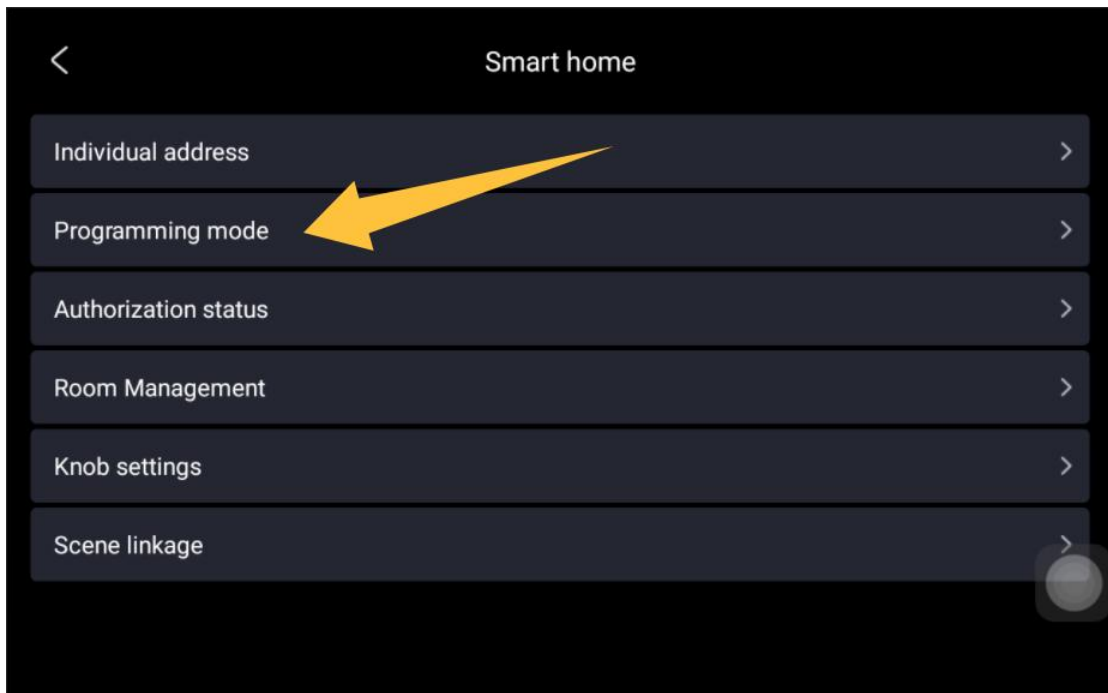
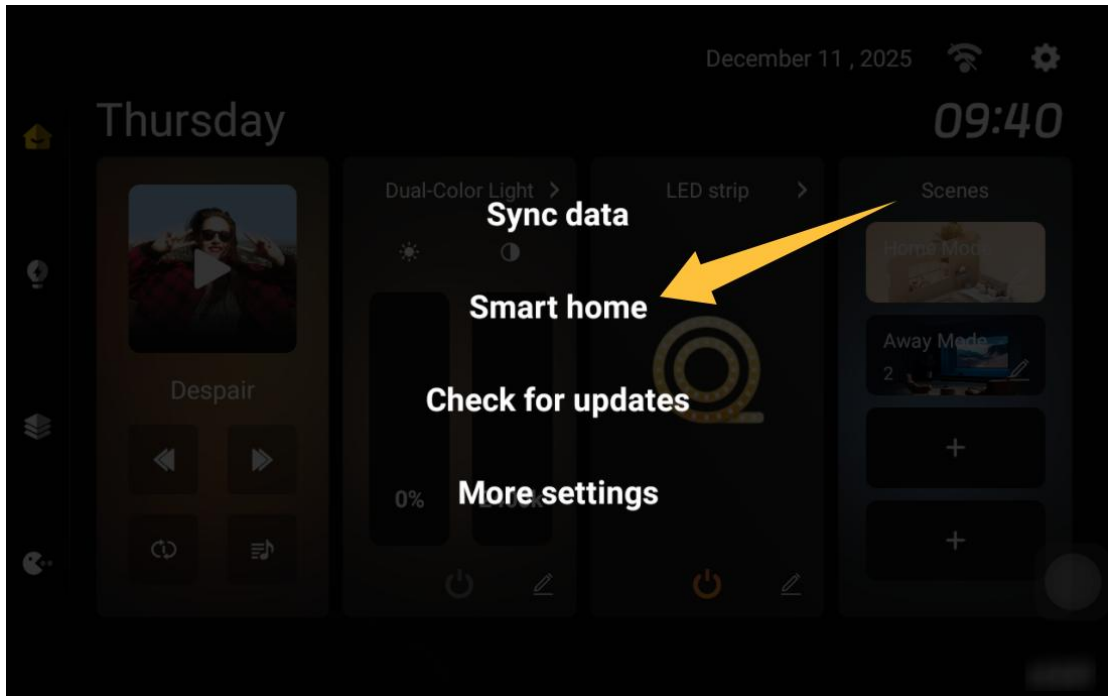


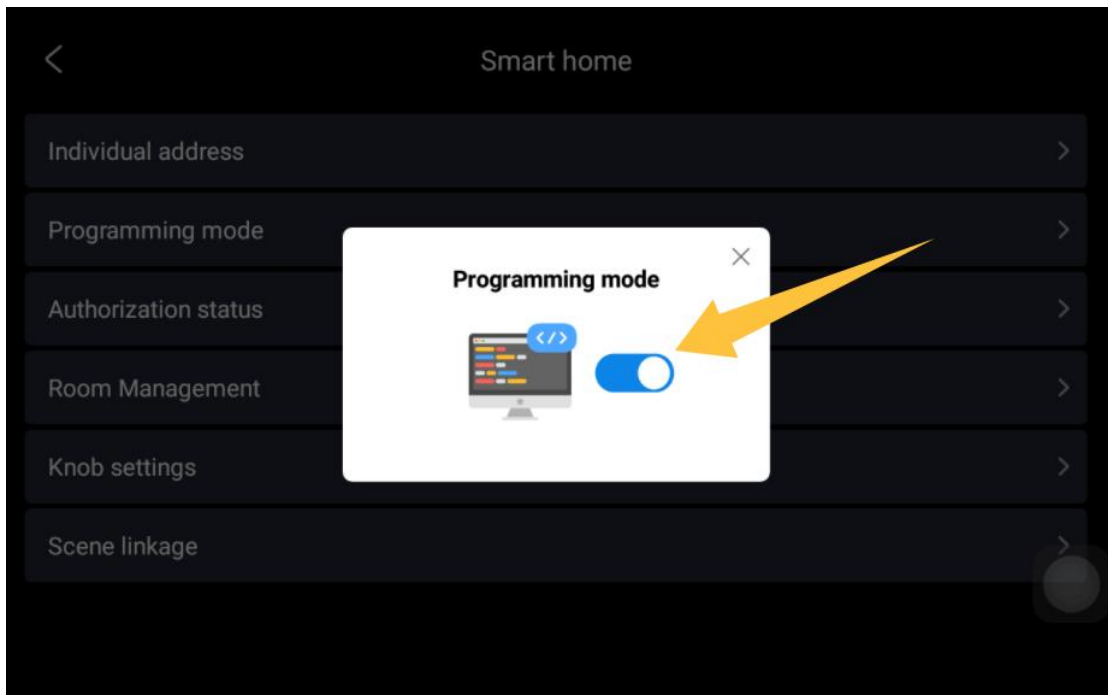
6. Programming Mode and Data Download

6.1 Enable programming mode

To download complete data via ETS, you need to first enable the programming mode on the central control screen. The method to enable it is as follows:



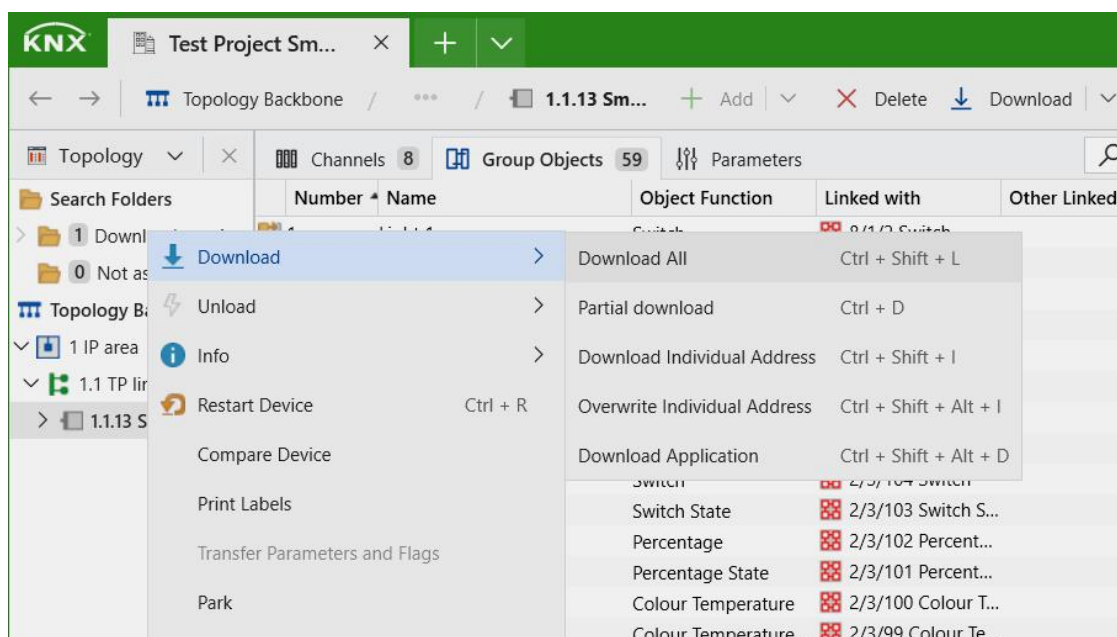


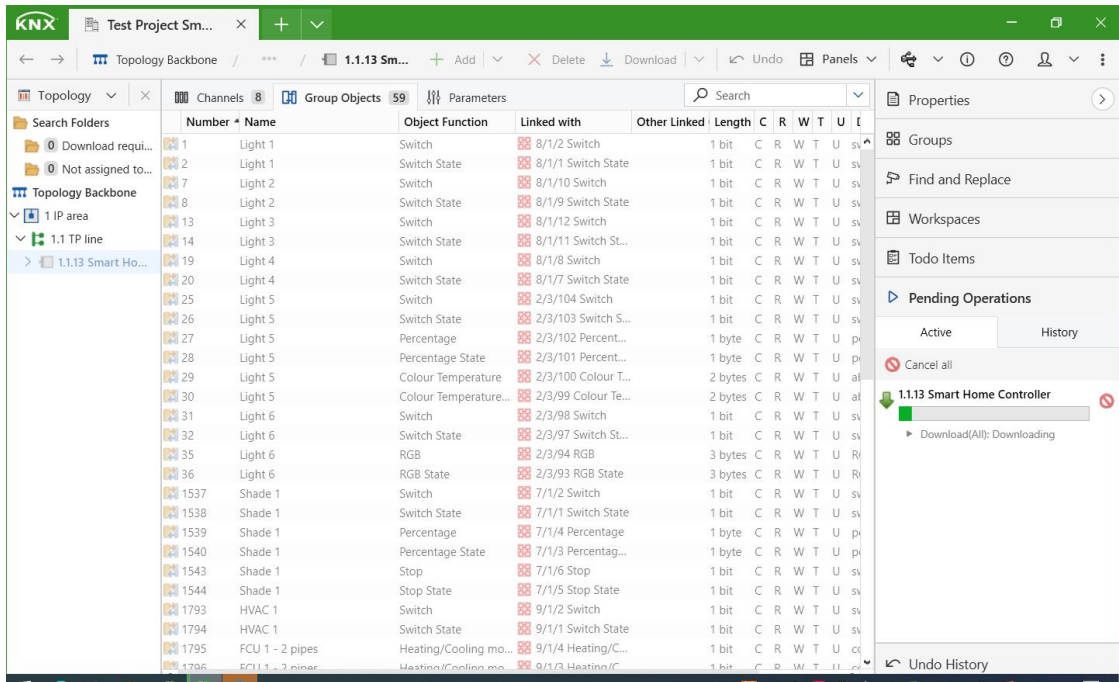


Note: Remember to turn off programming mode after the data download is complete.

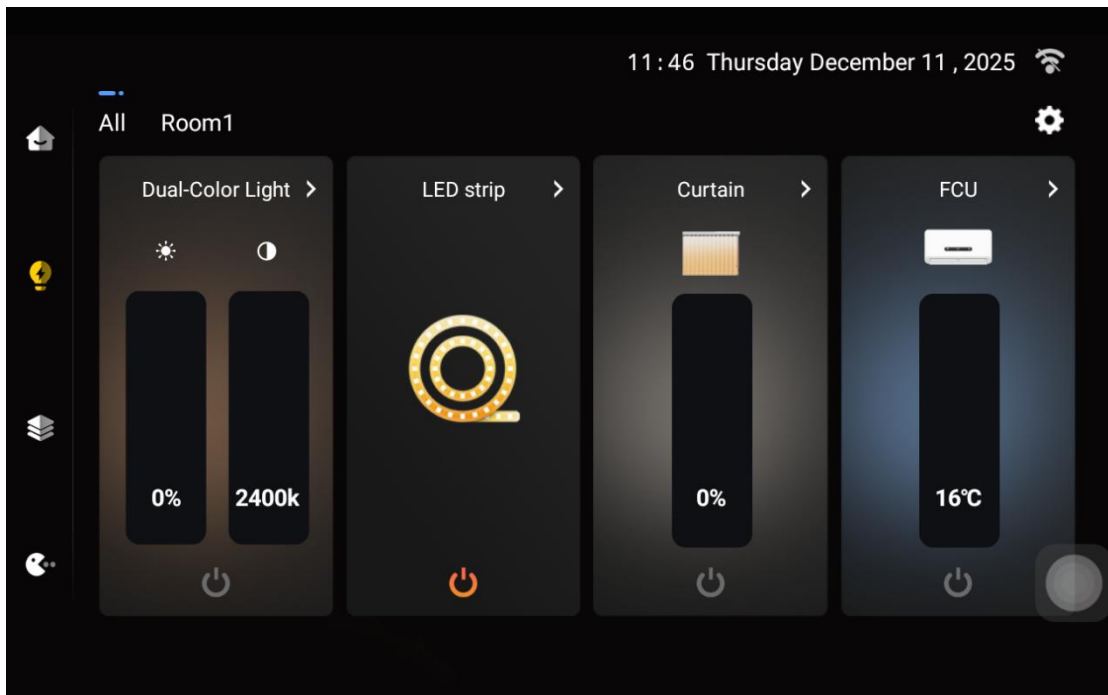
6.2 ETS Download Data

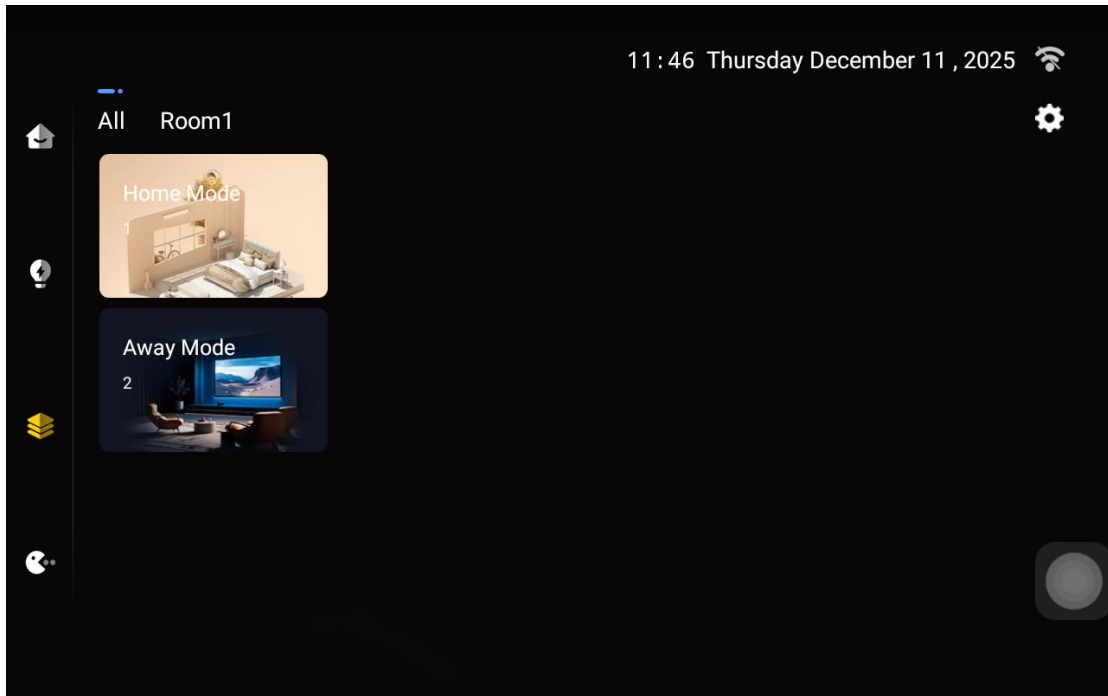
To select "Download All" to download data, you must enable the programming mode on the central control screen. Refer to section 6.1 for instructions on how to enable it.





Once the download is complete, the central control screen will refresh and display the downloaded data, which can be viewed in the device and scene interfaces.





7. Installation instructions

- 1、 Embedded in the provided bottom box, bottom box installation size: standard 86 box deepened;
- 2、 The wire used in this product: multi-strand copper core wire, coaxial line, audio wire, audio wire
- 3、 Please consult the supplier when installing this machine;
- 4、 Do not repair the machine without authorization, if you need to repair, please consult the supplier, by professional maintenance;

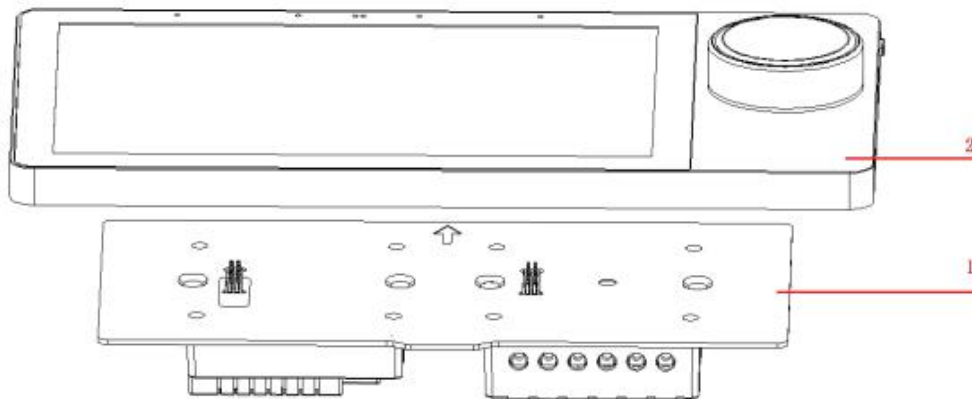


Figure 1: ① main engine ② power supply box

