Appendix

KNX Smart Touch S3



Plastic button model:

CHTF-3.3/3.1.01(Gray)

Glass/Metal button model:

CHTF-3.3/3.2.xy

(x=1:Glass; x=2:Metal)

(y=0: White; y=1: Black; y=3: Gray; y=4: Golden)

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Charpter 1Preface

S3 smart screen is a set of smart home multifunctional IOT smart screen with central control, visual intercom fusion network. Convenient operation, excellent interaction, truly realize the intelligence and automation of home furnishing, bring a new home life experience.

- Adopt a 3.3-inch IPS screen design
- The structure appearance has plastic frame and multi-touch surface panel
- DC 9V-36V
- Support the SIP visual intercom function
- Support for KNX smart home features
- With 3 physical key control devices / scenarios
- Support for mobile phone remote control
- Support for mobile phone custom scenarios
- Indoor temperature and humidity detection
- The human body is close to induction
- Automatically adjust the screen brightness
- Automatic adjust the key brightness

Charpter 2Boot Guidance

(1) Enter the initial interface, select the language and click the "Next" button (Figure 2-1);

(2) Enter the network configuration and select the required hot spots for connection (Figure 2-2);

(3) Click the "Next" button after the successful network connection;

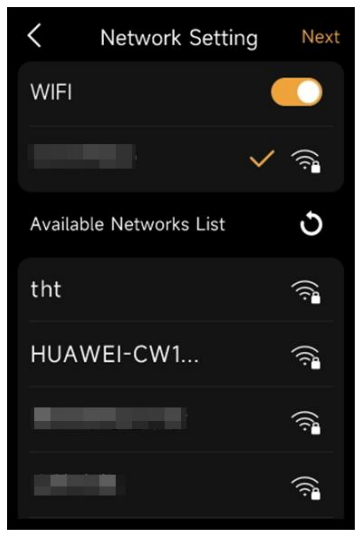
(4) Enter the account binding page (Figure 2-3), log in the APP, click the "scan" function in the upper right corner of the APP homepage (Figure 2-4), and scan the mobile phone camera against the QR code of the device;

(5) Click the S3 smart screen device identified by scanning to add (Figure 2-5), when adding, ensure that the device is online, after confirming the binding is successful, S3 device will prompt "Binding Successful" and then automatically enter the home page;

(6) At the APP end of the Vision Sound Intelligence, the system automatically reads the device and scene data configured by the S3 smart screen (Figure 2-6). After selecting the devices to be added, click "Sync" to complete.



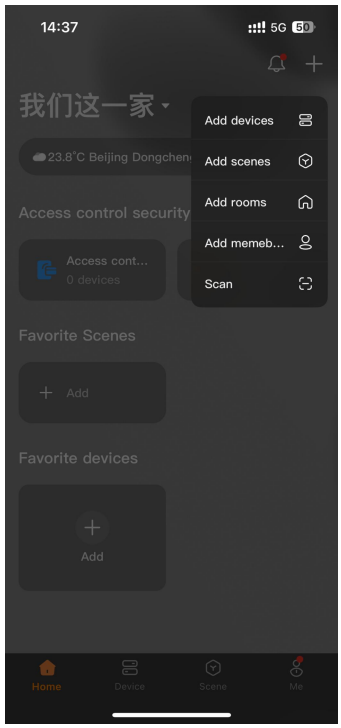
2-1



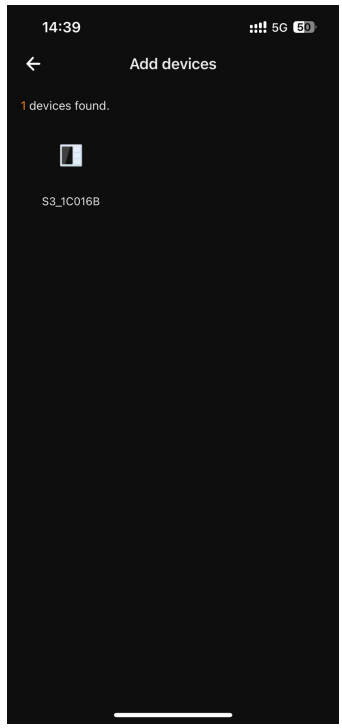
2-2



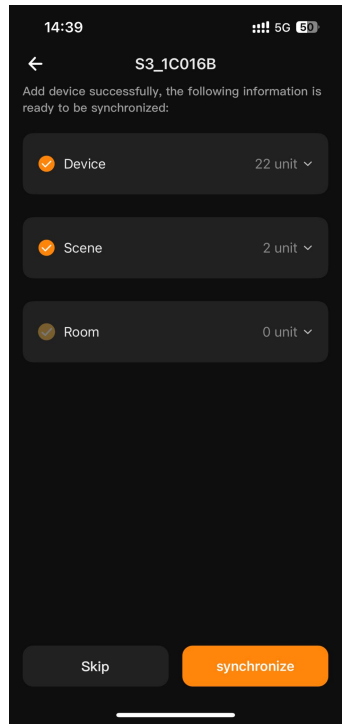
2-3


14:37
5G
我们这一家
Add devices
Add scenes
Add rooms
Add memeb...
Scan
Access control security
Access cont...
0 devices
Favorite Scenes
Add
Favorite devices
Add
Home
Device
Scene
Me

2-4


14:39
5G
Add devices
1 devices found.
S3_1C016B

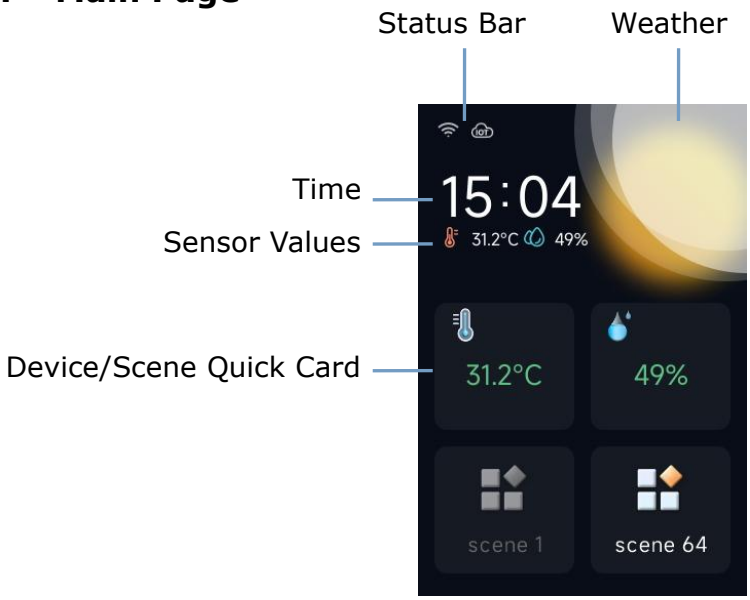
2-5


14:39
5G
S3_1C016B
Add device successfully, the following information is ready to be synchronized:
Device
22 unit
Scene
2 unit
Room
0 unit
Skip
synchronize

2-6

Charpter 3Home Page

3.1. Main Page



3.2. Status Bar

Display WiFi open state, Bluetooth open state, cloud connection state and mute open state respectively.

3.3. Time and Sensor Values

Displays the current time and device sensor values (such as temperature, humidity, CO2, etc., see ETS configuration for details).

3.4. Weather

The weather information in the area is determined by the APP, IP, time zone and longitude and latitude of the equipment.

3.5. Device / Scene Shortcut Card

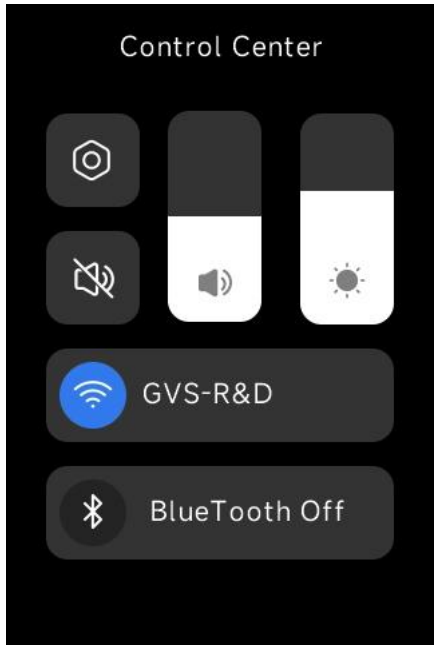
The home page supports shortcut keys to add devices or scenes through ETS software or APP, allowing for up to 4 scene / device shortcut cards.

(1) Scene shortcut card: link the configured scene of the function page, display the scene name and icon, and click to trigger the scene execution.

(2) Device shortcut card: link the configured device on the function page, display the

device name and the device icon, click the card to switch the operation, and long press the card to enter the device details.

Charpter 4Control Center



- **Settings**

Enter the setting and conduct system-related operations on the equipment.

- **Silent Mode**

After the mute, the ring tone and touch screen sound are silent, do not affect the speaking voice.

- **Volume**

Adjust the volume of the incoming call and touchscreen tones.

- **Brightness**

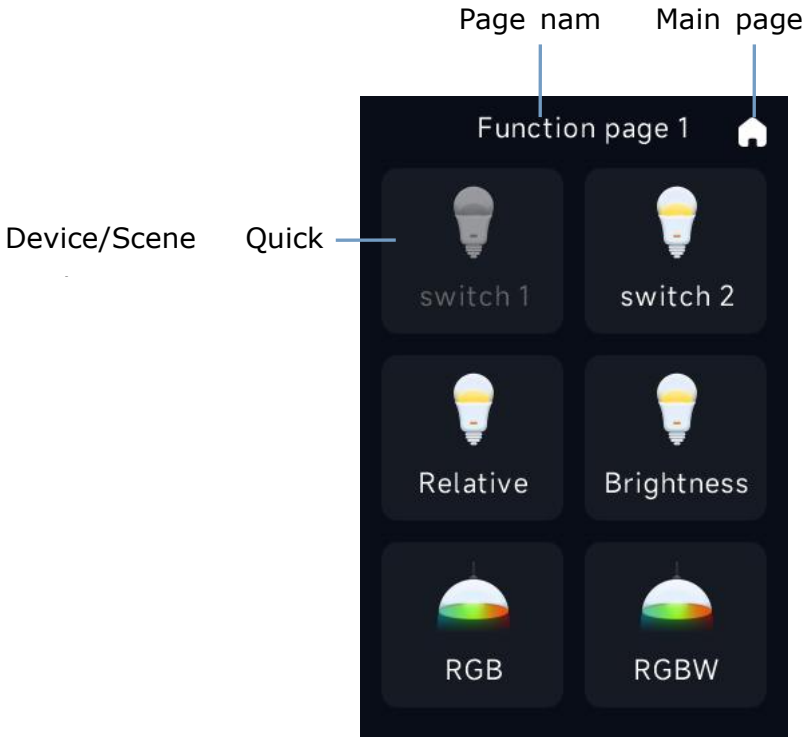
Adjust the screen brightness size.

- **WIFI**

Turn the WiFi on or off.

- **Bluetooth (stay in development)**

Charpter 5Smart Home



Swipe left from the home page to enter the list of smart home devices, showing the smart home devices / scenarios that have been added on each feature page.

5.1. Add Feature Pages

Function pages can be configured through the ETS software (up to 6), or custom function pages can be added through the APP (up to 10 new), and all pages can be hidden / displayed through system Settings or APP.

5.2. Add the Devices / Scenes

The ards can be configured through APP or ETS, with up to 6 smart home devices / scenarios for each feature page.

Note: scenarios or devices that are not ETS configured go to custom pages by default.

5.3. Light

- **Switches**

Click the light equipment card, the card color change indicates the switch status, bright color represents on, and gray represents off.

- **Dimming Function**

Long press the adjustable light equipment card, slide the progress bar to adjust the light brightness / color temperature, the switch bright color represents on, gray represents off, click the upper left corner to enter the RGB dimming interface, circle to select a color, slide the progress bar for color adjustment.



Adjustable light interface



RGB Dimming Interface

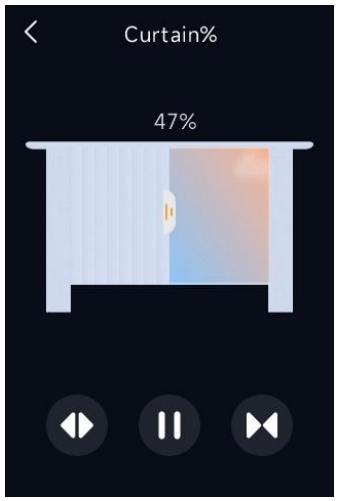
5.4. Curtain

- **Switches**

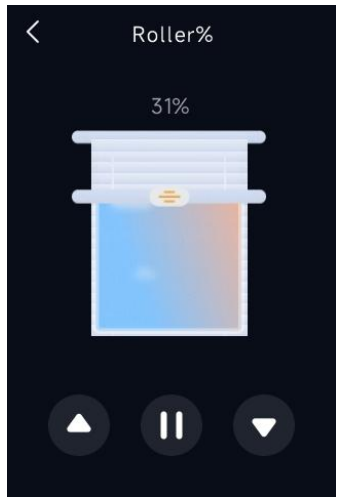
Click the curtain equipment card, enter the curtain control interface, you can control the curtain open, close, pause.

- **Amplitude Adjustment**

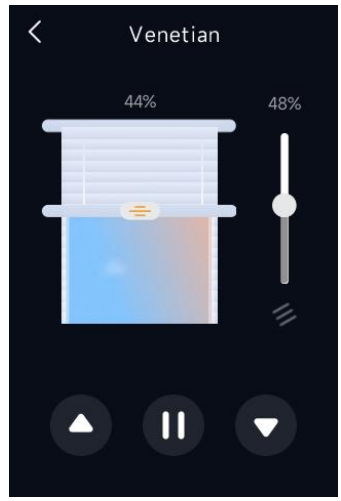
Left and right / up and down the percentage of the curtain, can adjust the closing range of the curtain.



Roller Shade



Roller Blind

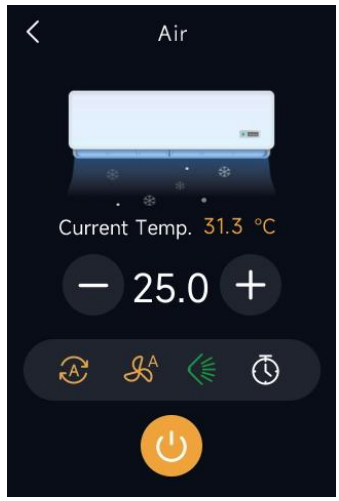


Venetian Blind

5.5. Air Conditioning

Click the air conditioning equipment card to enter the air conditioning control interface. The control functions are as follows:

- On / off: click the switch button, bright color represents on, gray represents off;
- Temperature setting: click the temperature plus and minus icon to control the current temperature;
- Mode setting: click the mode setting icon, you can set the cooling, heating, dehumidification, air supply and automatic mode;
- Wind speed setting: click the wind speed setting icon, you can set the low speed, medium speed, high speed, automatic mode;
- Timing setting: click the timing setting icon to set a certain time to perform the specified switch action.

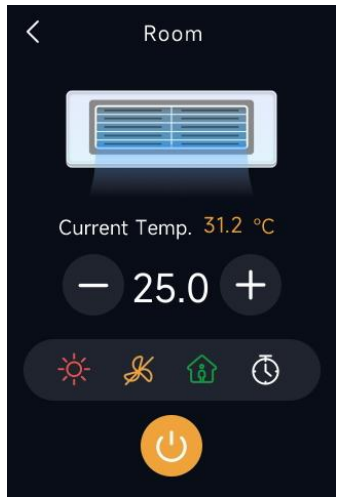


Air conditioning control interface

5.6. Temperature

Click the temperature control equipment card to enter the room temperature control interface. The control functions are as follows:

- On / off: click the switch button, bright color represents on, gray represents off;
- Temperature setting: click the temperature plus and minus icon to control the current temperature;
- Mode setting: Click the mode setting icon to set the cooling and heating mode;
- Wind speed setting: click the wind speed setting icon, you can set the low speed, medium speed, high speed, automatic and close mode;
- Working mode: click the energy saving setting icon, you can set the energy saving, comfort, standby, protection mode;
- Timing setting: click the timing setting icon to set a certain time to perform the specified switch action.

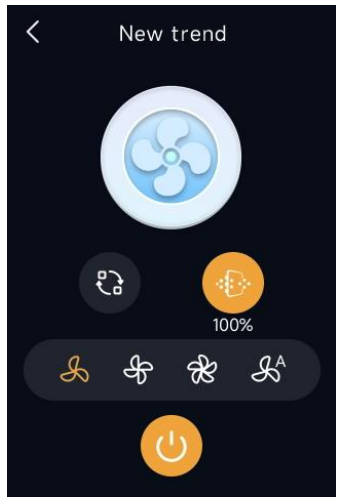


Room temperature control interface

5.7. Fresh Air

Click the fresh air equipment card to enter the fresh air control interface. The control functions are as follows:

- On / off: click the switch button, bright color represents on, gray represents off;
- Heat exchange setting: turn the heat exchange function on or off;
- Filter life display: after boot, the filter life indicator icon is highlighted, and the remaining life value will be displayed below the icon, click the icon to reset the use time of the filter, click the confirmation, the filter service life can be reset to 100%;
- Wind speed setting: low speed, medium speed, high speed and automatic mode can be set.

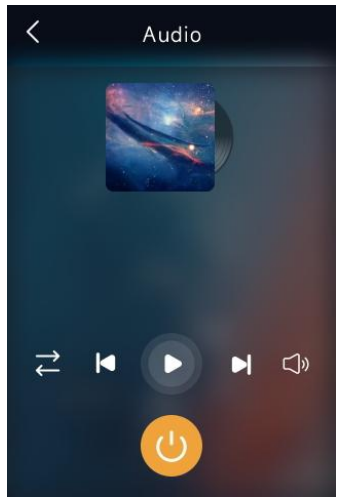


Fresh air control interface

5.8. Background Music

Click the background music device card and enter the background music control interface. The control functions are as follows:

- On / off: click the switch button, bright color represents on, gray represents off;
- Play mode: click the play mode icon, you can set the play mode of all loop, random, single loop;
- Play control: click the play control icon, you can control the play / pause, the previous song, the next song;
- Volume control: click the music control icon, you can control the volume addition, mute.



Background music control interface

5.9. Scene

Scene cards are divided into two types: manual execution scene and automatic execution scene, click the manual execution scene card to trigger the corresponding scene execution; the automatic execution scene is automatically executed under meeting conditions, not displayed in the interface.

5.10. Physical Buttons

The S3 smart screen design has 3 physical buttons, which can control the scene or device control through ETS or app binding to the specified device or scene.

- Scene control: if the button binds to the scene, press the button to directly execute the scene;
- Device control: If the button is bound to a device with only switch function, press the button to directly perform off or on, and perform the action of on or off. If the device bound to the button has other functions besides the switch function, press the button to directly link to enter the detailed operation page of the device.

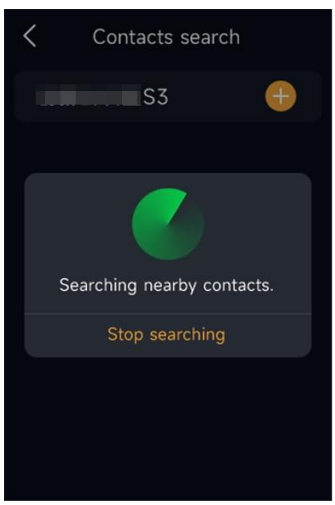
Charpter 6 Video Intercom



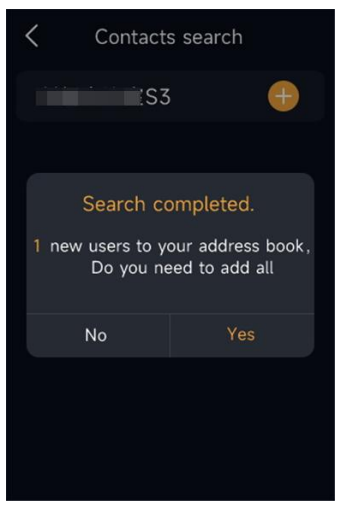
Swipe right to the home page to enter the visual intercom address list, showing the added indoor equipment in the same LAN.

6.1. Add Contact

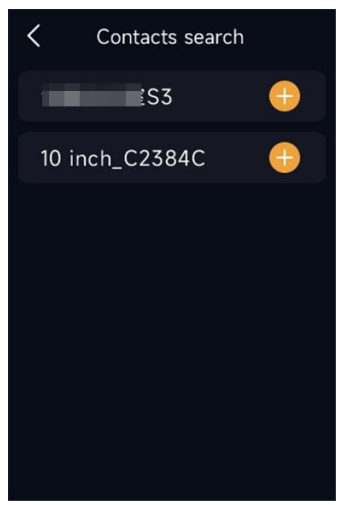
Through the  button, you can automatically search the indoor machine in the same LAN and select the required equipment.



Search interface



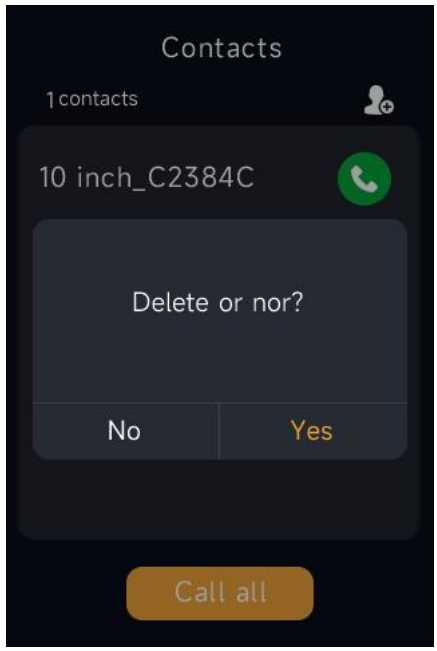
Discovery Interface



Add Interface

6.2. Delete Contact

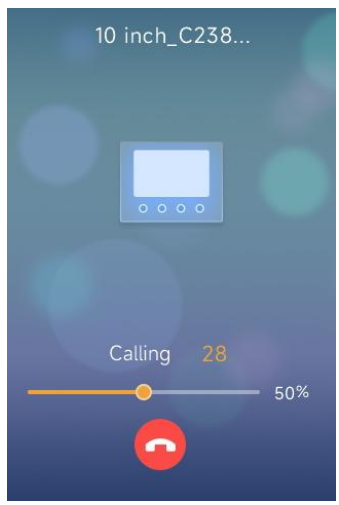
Click a single contact in the address list to delete.



Remove the interface

6.3. Single Call

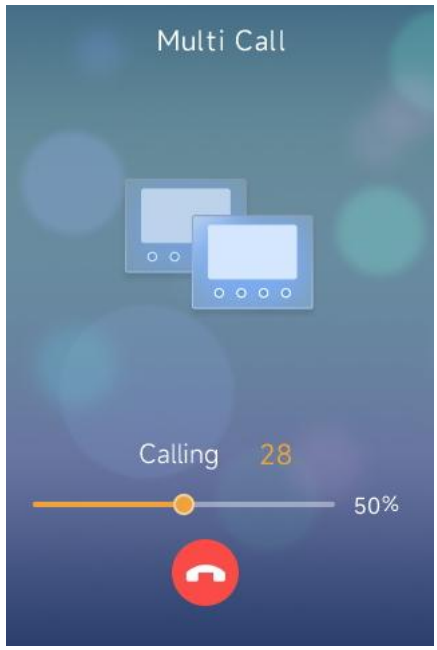
Select the contact and click the call button to make two-way voice calls between indoor units, disable the microphone and adjust the volume of the intercom call.



Single call interface

6.4. Group Call

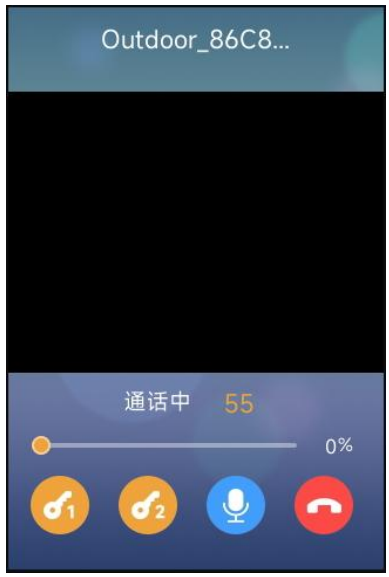
Click the "Call all" button. If the number of contacts is within 16 (including 16), all contacts will call by default. If the number of contacts exceeds 16, select the contact to call again, and the group will answer the call, and the rest will hang up.



Group call interface

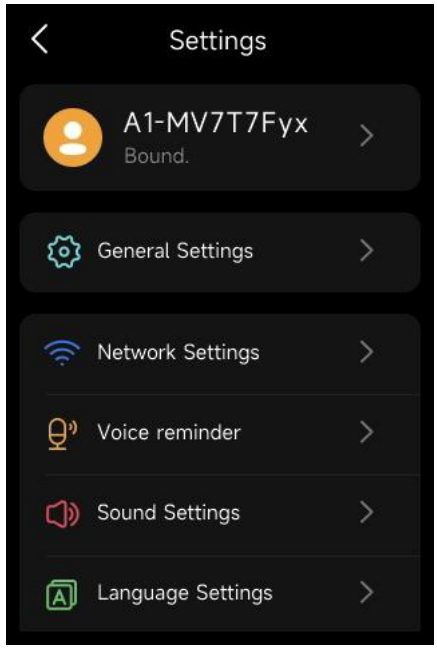
6.5. Intercom Call

The S3 smart screen can answer calls from the door machine, make video calls and unlock with the door machine, and prohibit the microphone and adjust the volume of the intercom call during the call.



Door the phone to answer the interface

Charpter 7Settings



7.1. Account Binding

(1) Check the cloud status icon on the home page to ensure that the device is online. Enter the Settings, select the Account Binding, and pop up the QR code interface of the device (Figure 7-1-1);

(2) Use the APP, click the "scan" function in the upper right corner of the home page (Figure 7-1-2);

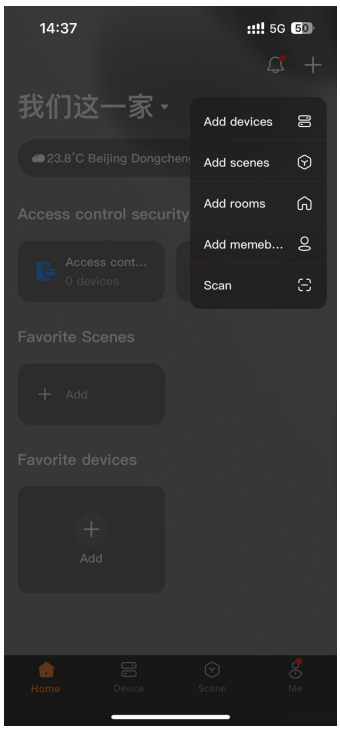
(3) Scan the mobile phone camera at the QR code of the device;

(4) Click the S3 smart screen device identified by scanning to add (Figure 7-1-3). When adding, ensure that the device is online. After confirming that the binding is successful, the S3 device will prompt "Binding Successful";

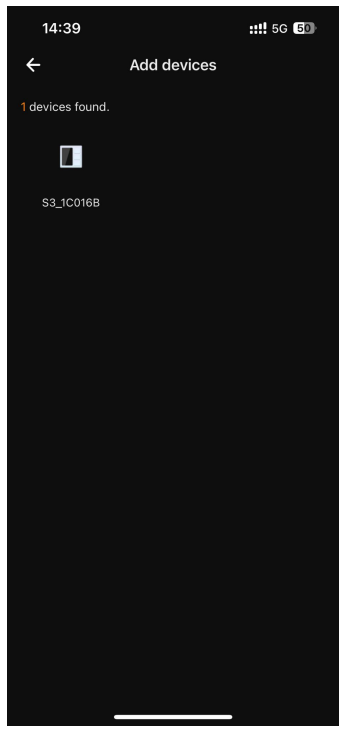
(5) At the APP end of the Vision Sound Intelligence, the system automatically reads the device and scene data configured by the S3 smart screen (Figure 7-1-4). After selecting the device to be added, click "synchronization" to complete.



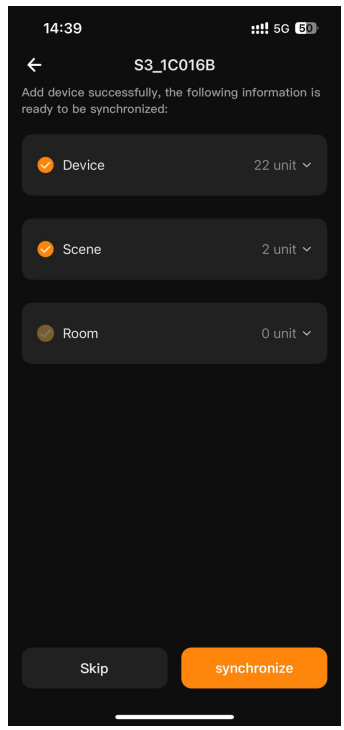
7-1-1



7-1-2



7-1-3

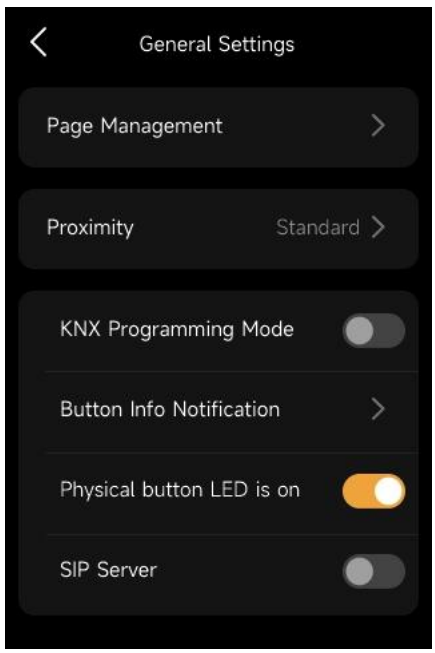


7-1-4

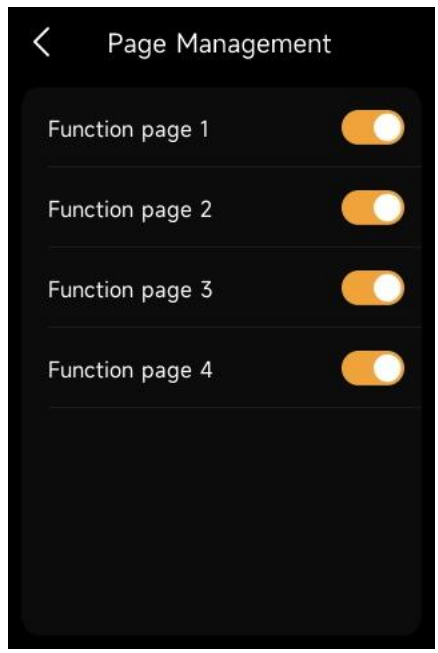
7.2. General Settings

Enter the Settings, select the General Settings, and enter the General Settings interface (Figure 7-2-1):

- Page Management: control the configured hiding or display of functional pages (Figure 7-2-2);
- Proximity: set the wake-up distance of the equipment, divided into normal (30cm), standard (60cm) and enhanced (100cm);
- KNX Programming Mode: open KNX programming mode, at this time the 3 physical keys red always bright;
- Button Info Notification: control the label hiding or display of physical buttons, and the continuous display time when display;
- Physical button LED is on: control the physical button indicator light fire off;
- SIP Server: displays the configured SIP server address and registration status. Operations to enable this feature need to be performed in the APP.



7-2-1



7-2-2

7.3. Network Settings

(1) Enter the Settings, select the Network Settings, and automatically search for nearby hot spots after opening the WiFi (Figure 7-3-1);

(2) Select the required hot spot to enter the password and then connect.



7-3-1

7.4. Voice Reminder

Configure the voice reminder function (as shown in Figure 7-4-1).

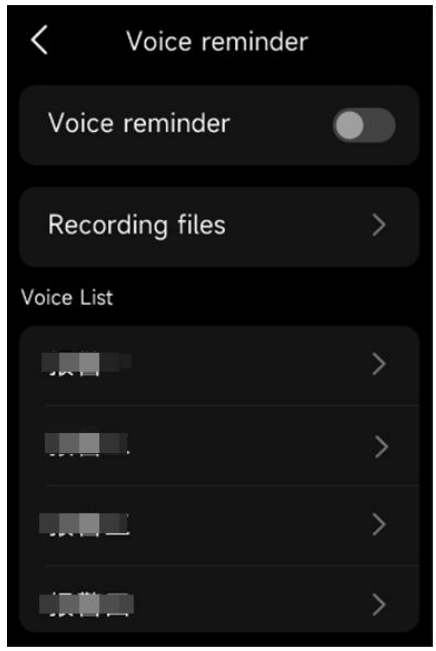
(1) Voice reminder switch: If turned on, then the voice reminder function will be broadcast, and the device will not broadcast the voice reminder when the voice reminder function is triggered.

(2) Recording files

- Recording: Click the recording button to automatically start the 20-second countdown recording, up to 4 times.
- Play: In the list of recording files, click the play button on the right side of the specific recording file.
- Delete: In the list of recording files, long press the specific recording file.

(3) Voice List

- Add voice items: configured by ETS, up to 8.
- Select the audio file for the voice item: click the specific voice item, select the audio file for it as the voice reminder, select the preset 7 voice, or the custom added recording file. Note: The popup prompt is required that you must select an audio file.

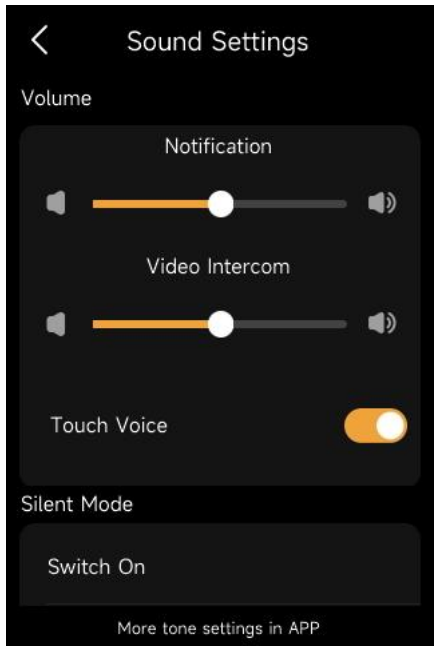


7-4-1

7.5. Sound Settings

Enter the Setting, select the sound setting, and enter the sound setting interface (as shown in Figure 7-5-1):

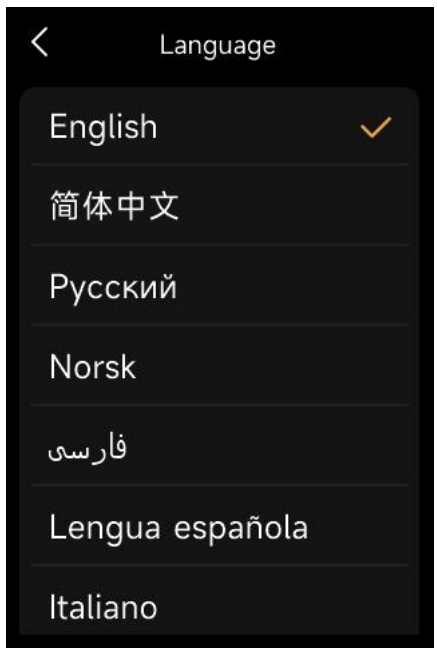
- Silent Mode: After the silent mode is turned on, the call sound and the touch screen sound are silent, and the timing opening needs to be operated on the audio intelligence side of the APP;
- Volume: can adjust the volume of call ringing and intercom respectively;
- Touch Voice Switch: the sound switch that can control the touch screen tone.



7-5-1

7.6. Language Settings

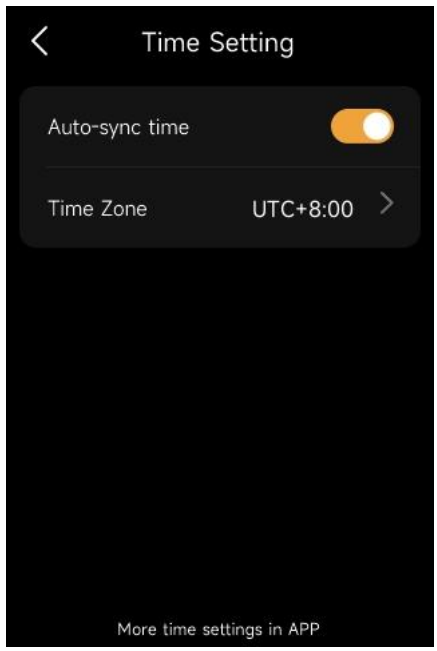
Enter the Settings, select the language settings, enter the language settings interface (shown in Figure 7-6-1), and select the corresponding language, the system automatically switches the language.



graph 7-6-1

7.7. Time Settings

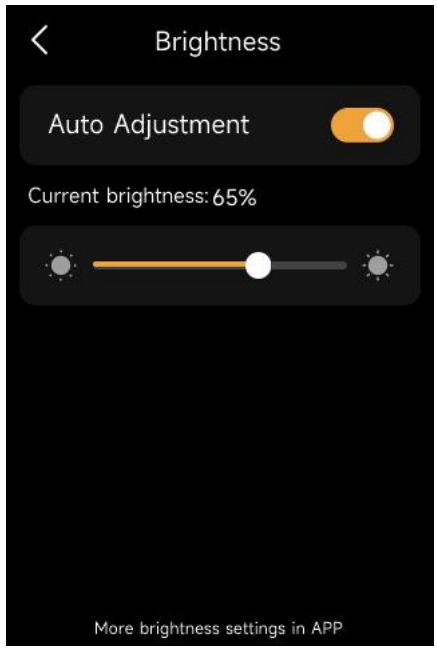
Enter the setting, select the time setting, and enter the time setting interface (shown in Figure 7-6-1) to automatically synchronize the network time or manually set the time.



7-7-1

7.8. Brightness

Enter the Settings, select the screen brightness, enter the screen brightness setting interface (shown in Figure 7-8-1), you can choose to automatically adjust the screen brightness or manually adjust the screen brightness.



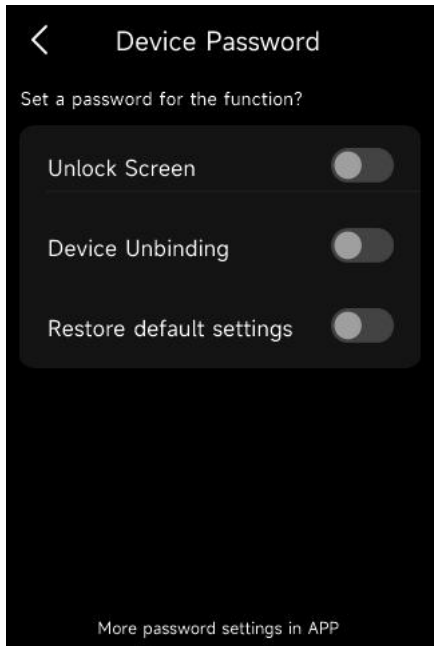
7-8-1

7.9. Device Password

Enter the Settings, select the local password, and enter the local password setting interface (shown in Figure 7-9-1). You can select the password verification when the lock screen unlock, device unbind and restore the default Settings.

The local default password is: 1234.

Note: Initial status The user uses the ETS configured password, and the user can change and reset the password through the APP.

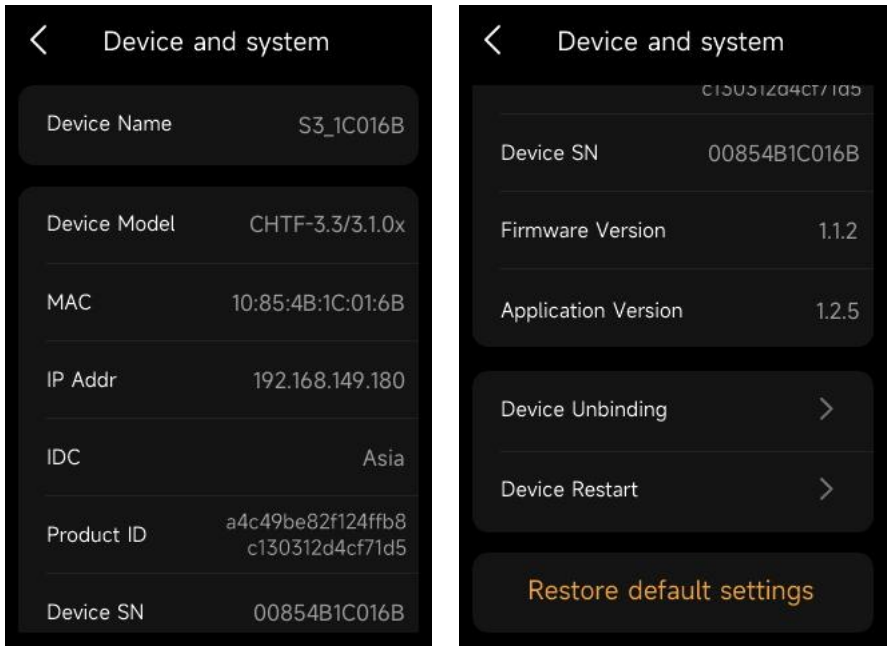


7-9-1

7.10. Device and system

Enter the Setting, select the equipment and system, and enter the equipment and system interface (as shown in Figure 7-10-1):

- View device information: you can view the device name, device model, MAC address, IDC, IP address, product ID (PID), device SN, firmware version, and application version;
- Device Unbinding: remove the binding information between the device and the APP;
- Device Restart: make a soft restart of the equipment;
- Restore default settings: restore the factory value of the device and clear all data except the KNX smart home system.


Device and system
Device Name
S3_1C016B
Device Model
CHTF-3.3/3.1.0x
MAC
10:85:4B:1C:01:6B
IP Addr
192.168.149.180
IDC
Asia
Product ID
a4c49be82f124ffb8
c130312d4cf71d5
Device SN
00854B1C016B
Device and system
Device SN
00854B1C016B
Firmware Version
1.1.2
Application Version
1.2.5
Device Unbinding
Device Restart
Restore default settings

7-10-1

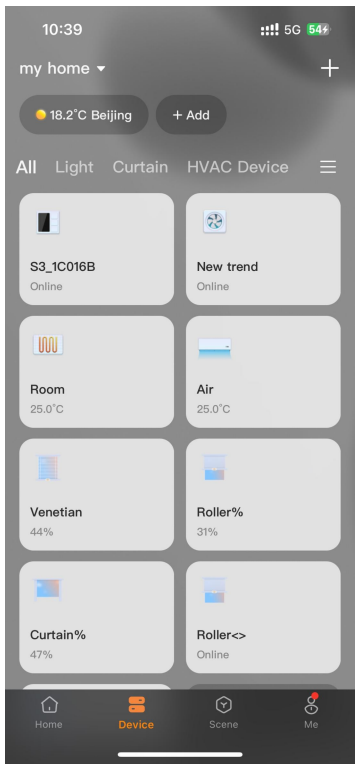
Charpter 8App Settings

S3 smart screen can be bound to the smart home APP for remote control of smart home and system Settings.

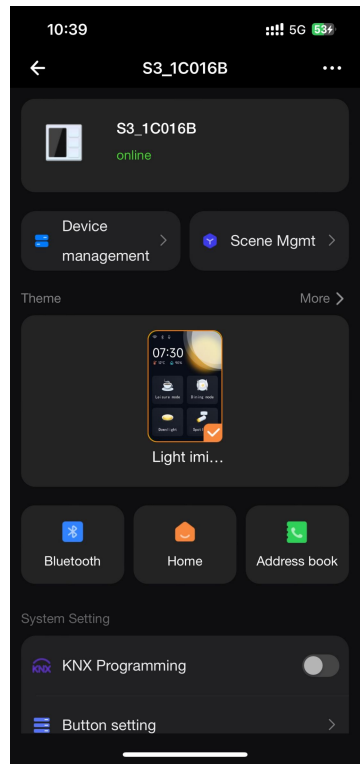
Note: The binding operation can view the account binding of 7.1!

- Remote control of smart home: After account binding, selecting the "device" tag bar in the APP will synchronously display the S3 smart screen and all the devices configured by it. Choosing the "Scene" tag bar will synchronously display all the scenes of the S3 smart screen configuration, and click the corresponding device or scene to remotely control it;
- System Settings: Select the "Device" label bar, click the corresponding S3 device, enter the S3 smart screen setting interface, and make relevant system Settings and smart home data configuration for the device.

Note: "Remote control of smart home" is for general device management and scene management. Please refer to the APP manual for this part! "System Settings" refers to the device-specific functions of the S3. This manual only describes this part.





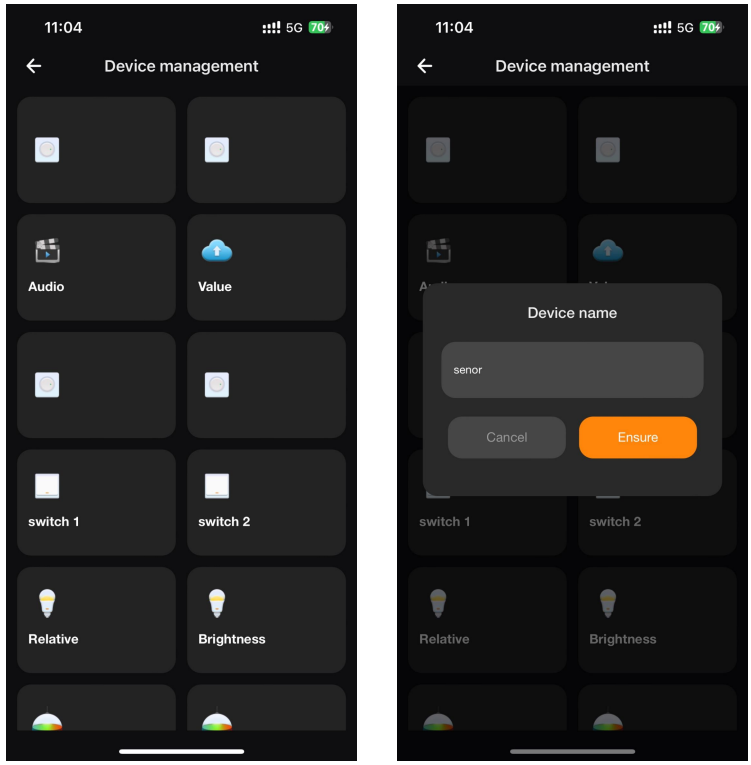


8.1. Device status

Display the online and offline status of the device.

8.2. Device management

Displays the local list of S3 devices, including devices added by APP and ETS configuration. The child device name can be modified.



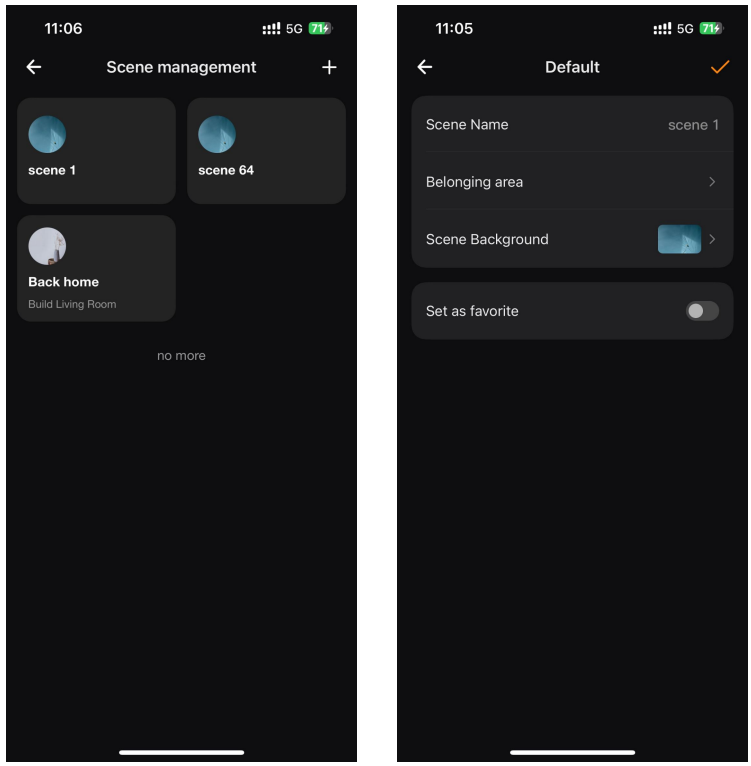
8.3. Scene management

(1) Displays the local list of scenes of the S3 device, including the scenes added by the APP (except the automation scenes) and the ETS configuration scenes.

(2) Modify the scene: Click the specific scene, enter the scene details interface, and you can modify the relevant information of the scene.

(3) Add: Click the upper right corner + to add the APP configured scene (tap-to-run scene and scene by default) and send it to the S3 device.

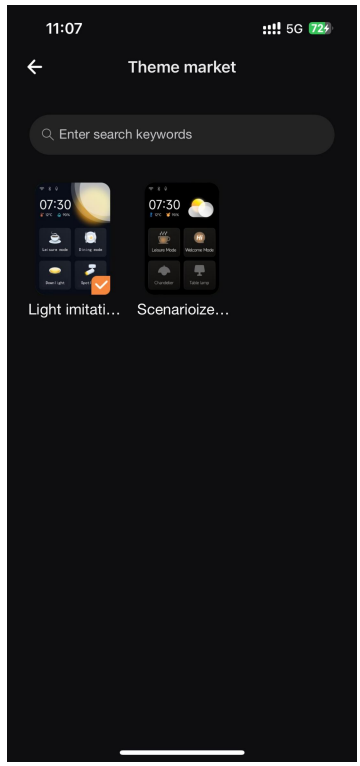
Note: Synchronize the local KNX scene of the S3 device to the APP, and the APP is not editable and deleted. The APP can edit and delete the devices and scenes created in the APP, and it will synchronize on the S3 device screen.



8.4. Theme

Enter the theme Settings interface:

You can select a theme for the device.



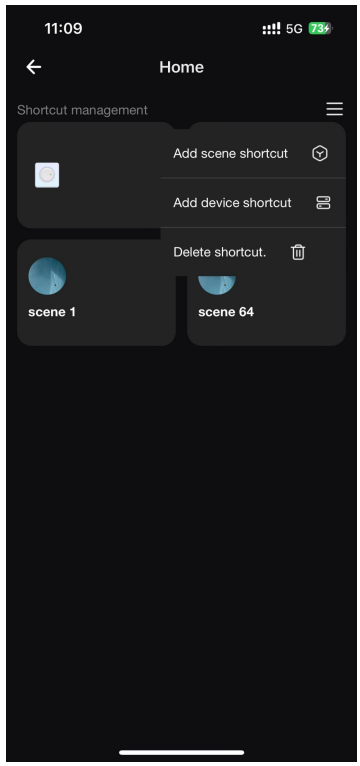
8.5. Home

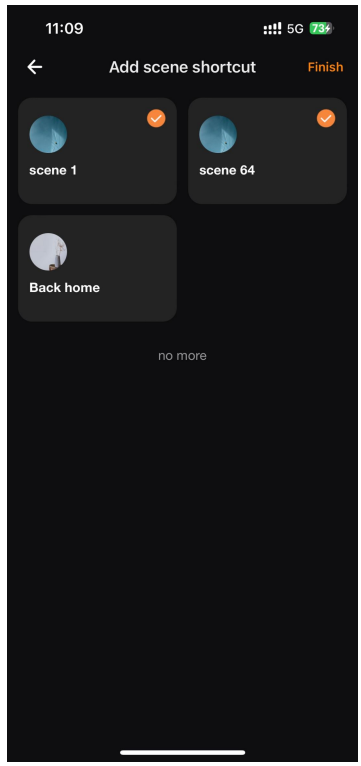
Enter the home page management interface:

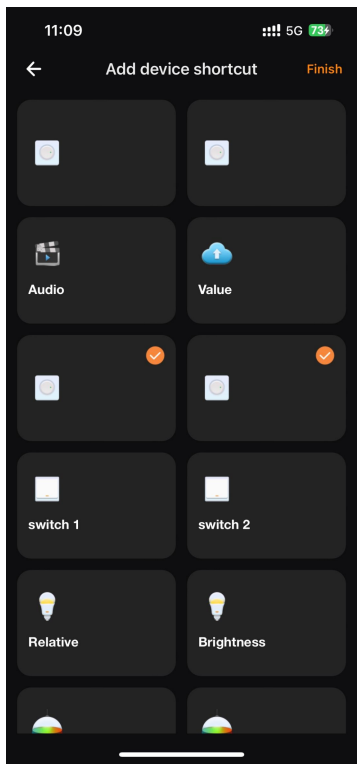
(1) Shortcut management: displays the shortcut card for the S3 device home page.

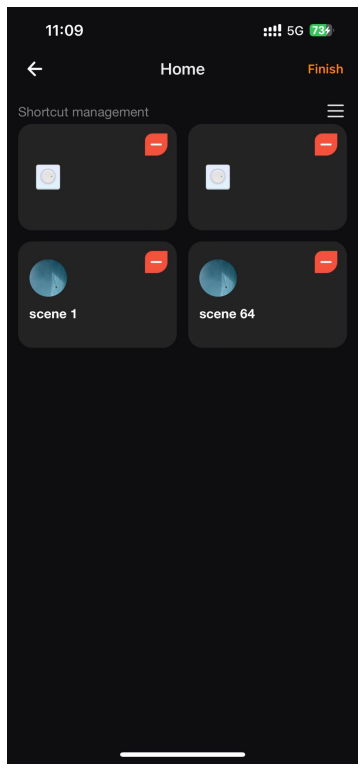
(2) Add scene / device: Click the upper right corner, select Add scene / device, check the corresponding scene / device, and click Finish. The scene / device shortcut card will automatically synchronize display on the S3 device.

(3) Delete: Click on the upper right corner, select Delete, check the corresponding scene / device, and click Finish. The corresponding scene / device shortcut card in the S3 device will be automatically synchronized.


11:09
5G
Home
Shortcut management
Add scene shortcut
Add device shortcut
Delete shortcut.
scene 1
scene 64


11:09
5G
Add scene shortcut
Finish
scene 1
scene 64
Back home
no more


11:09
5G
Add device shortcut
Finish
Audio
Value
switch 1
switch 2
Relative
Brightness

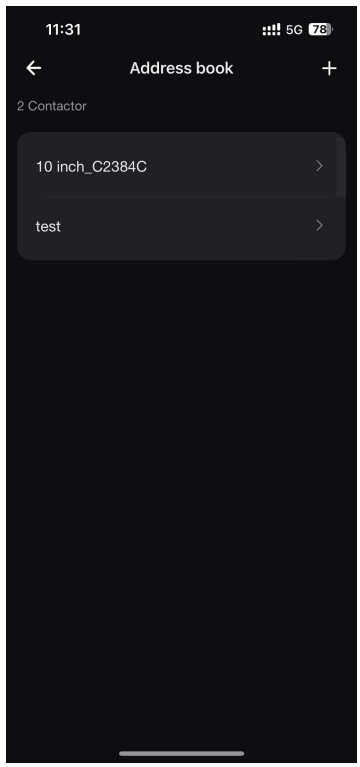

11:09
5G
Home
Finish
Shortcut management
scene 1
scene 64

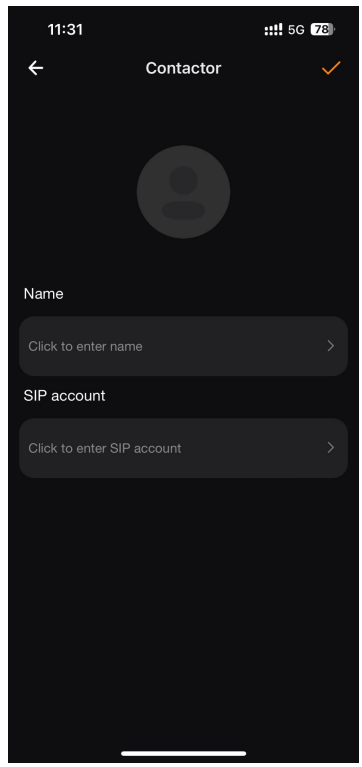
8.6. Address book

(1) Contact list: contains contacts that are manually added by the APP and are locally synchronized with the device.

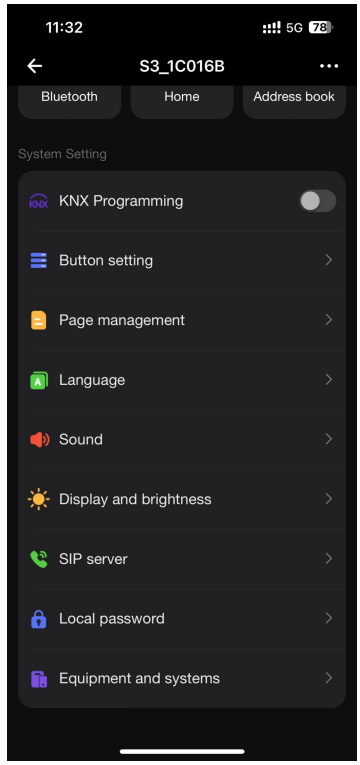
(2) Add contact: click "+" in the upper right corner, enter the name and SIP account, and click Finish.

(3) Edit / Delete contacts: Click the contact you need to edit / delete to enter the Contact Details page. You can modify the contact name and the SIP account. Click "Delete" in the upper right corner to delete the corresponding contact.





8.7. System Setting



8.7.1. KNX programming

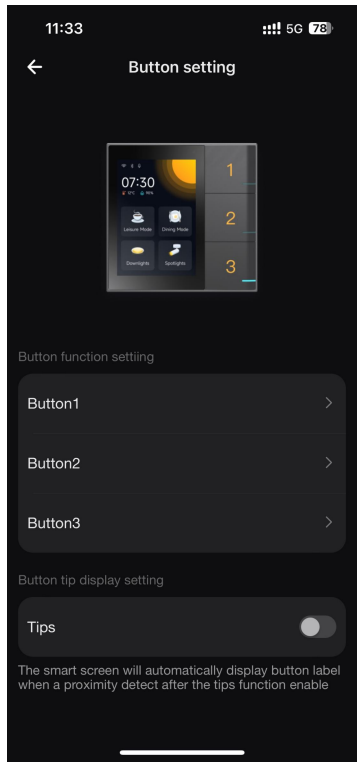
The KNX programming mode can be turned on or off. Open KNX programming mode, to download the complete KNX database.

8.7.2. Button Setting

Enter the button settings interface:

(1) Button function setting: set the functions of three physical buttons, select the trigger scene / device, and bind the corresponding scene / device for the button.

(2) Button tip display setting: When on, when the device detects that the human body is close, the labels of the three buttons will be automatically displayed.



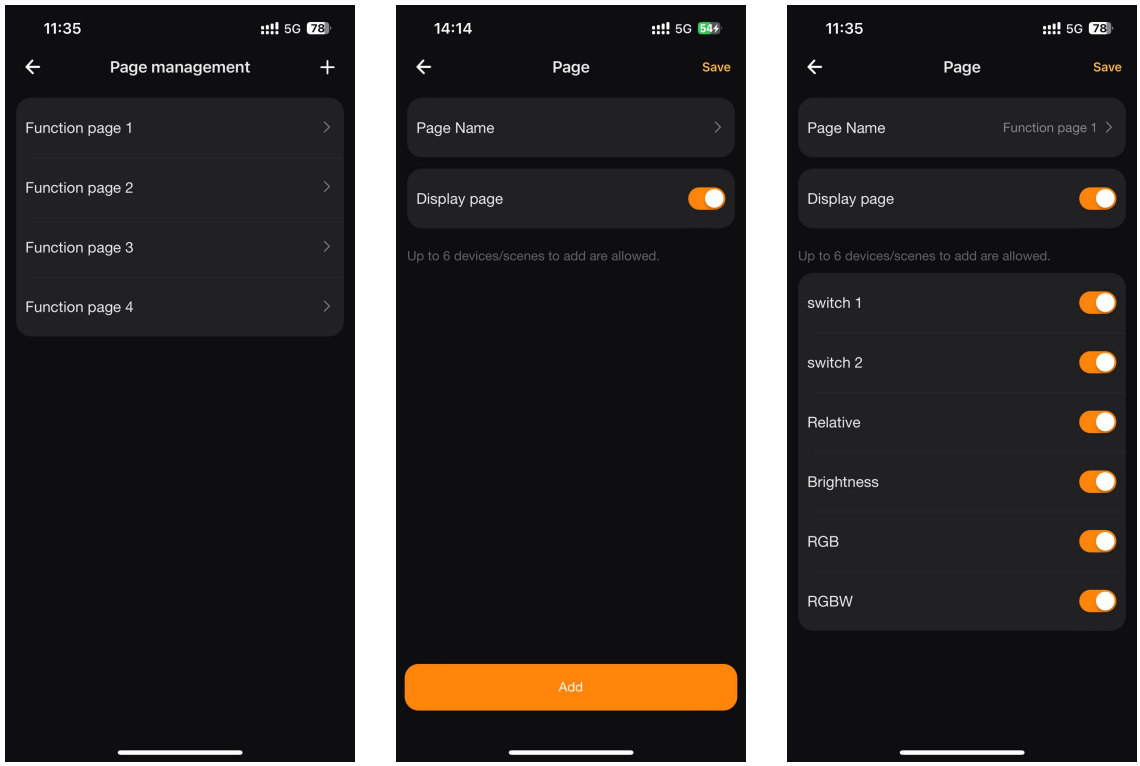
8.7.3. Page management

Enter the page management interface:

(1) Add: add a custom page to the device, add up to 10 pages (the ETS delivery device page is not included). Enter the page name, select whether to display the page, and add the device / scene to the page.

(2) Edit: Click › to modify the page name, select Show / hide page, select Show / hide device and scene.

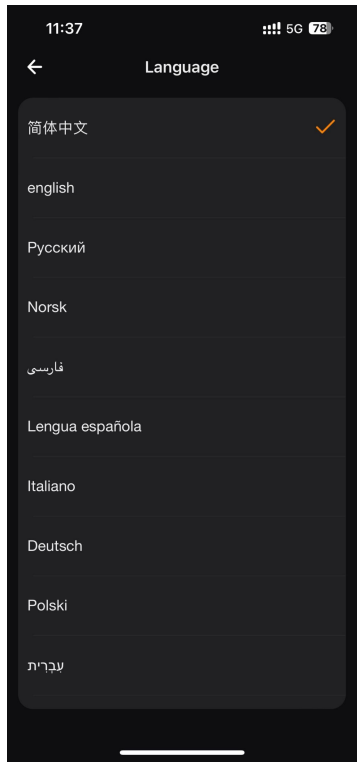
(3) Delete: in the page management interface, swipe the corresponding page left and click the delete icon to delete the corresponding custom page. Do not delete the ETS issued pages.



8.7.4. Language

Enter the language settings interface:

After selecting the corresponding language, the device automatically switches the language.



8.7.5. Sound

Enter the sound settings interface:

(1) Mute Mode: When the silent mode is on, all incoming calls, messages, notifications and touch screen sound are silent.

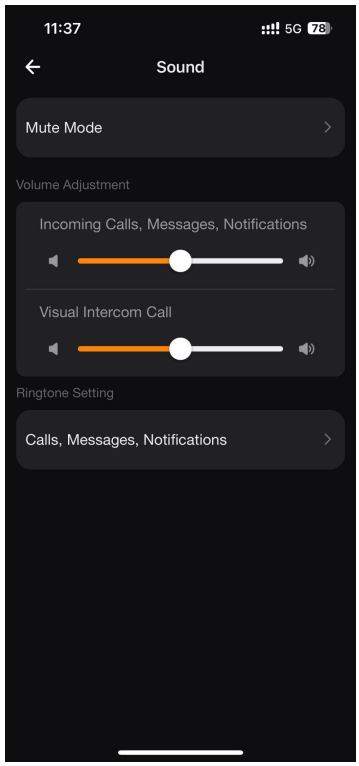
① Turn it on immediately, and the silent mode of the device will take effect immediately.

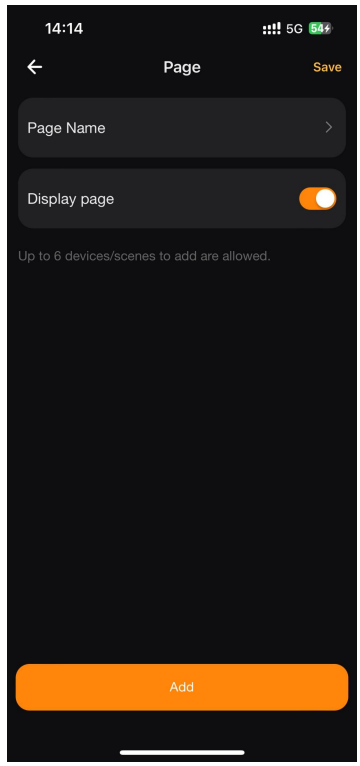
② Close on immediately and no time open time is added, the device will never enter silent mode.

③ Close immediate immediately and a timing open time period is added, the device will enter and remain silent mode during the set time period. Only 1 time period can be added.

(2) Volume Adjustment: it can adjust the volume of the device call, information, notification, or adjust the volume of the device visual intercom call.

(3) Ringtone Setting: can set the device call, information, notification bell, 5 optional (Ring1~5).





8.7.6. Display and brightness

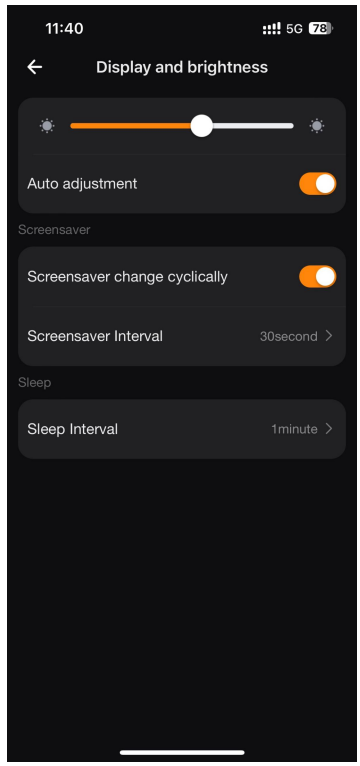
Enter the Display and brightness interface:

(1) You can choose to automatically adjust the screen brightness or manually adjust the screen brightness.

(2) Screensaver change cyclically switch: the device will not switch the screensaver pictures after the rotation is turned off. After the rotation is enabled, the device automatically plays the screensaver picture in a loop.

(3) Screensaver interval: If the user has no operation within the set time, the device automatically enters the screensaver.

(4) Sleep Interval: The device is in the screensaver state. If the user has no operation within the set time, the device automatically enters the dormant state.

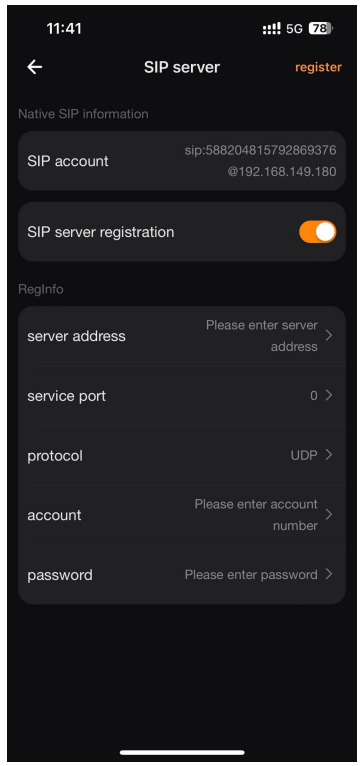


8.7.7. SIP server

Enter the SIP server interface:

(1) Displays the native SIP account of the S3 device.

(2) SIP server registration switch: After on, server address, service port, protocol type, account number, and password. If the APP does not register the SIP server, the S3 device can only communicate through the LAN. If the registered SIP account, the S3 device can communicate through the LAN and the registered server.



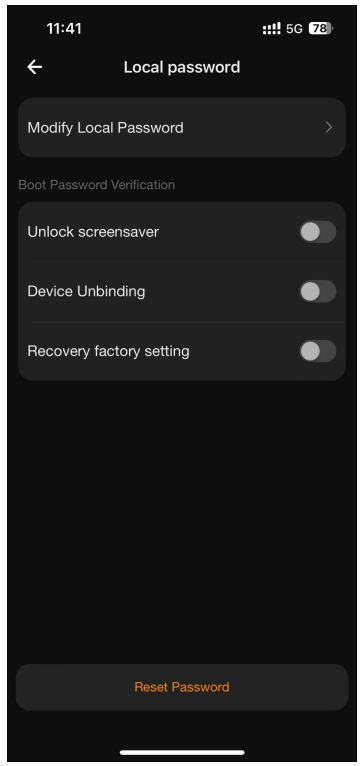
8.7.8. Local password

Enter the local password interface:

(1) Modify Local Password: the password configured with ETS. 4 Bit password.

(2) Boot Password Verification: Set whether the function needs to open password verification, including unlock screensaver, device unbinding and recovery of factory settings. After being enabled, you need to enter the local password to unlock or restore the factory settings.

(3) Reset password: Reset the local password to the initial password.

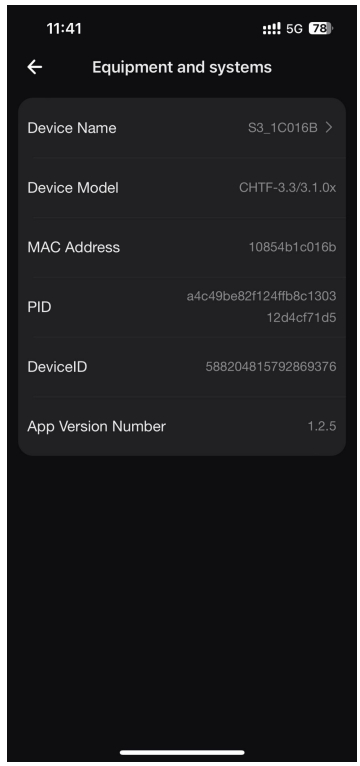


8.7.9. Equipment and systems

Enter the equipment and system interface:

(1) View the device information: you can view the device name, device model, MAC address, PID, device ID, and application version number.

(2) You can modify the S3 device name.



8.8. Device details

In the S3 setting interface, click on the upper right corner ••• to enter the device details interface.

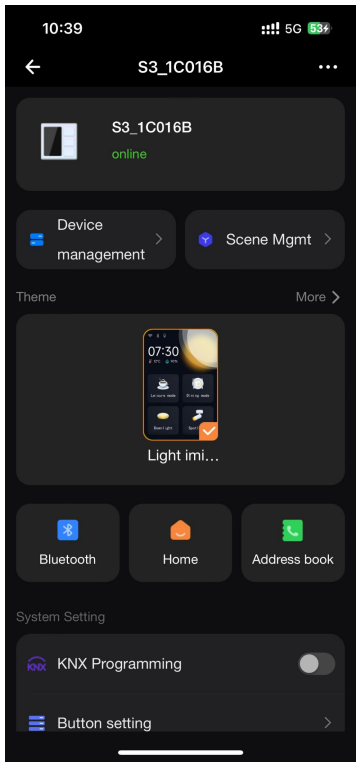
(1) You can view the device status, device ID, MAC address, and device type.

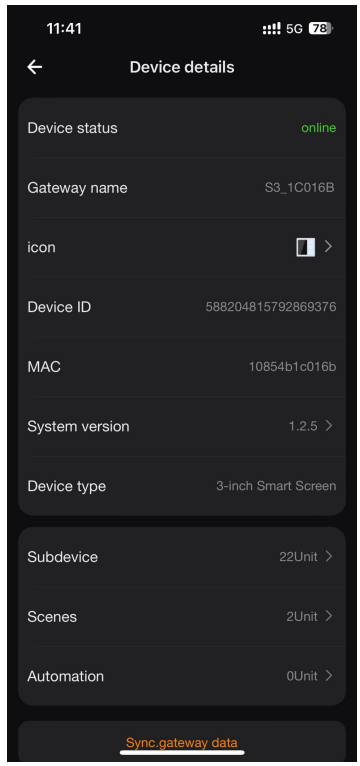
(2) Change the gateway name (i. e. device name), icon (displayed in the APP).

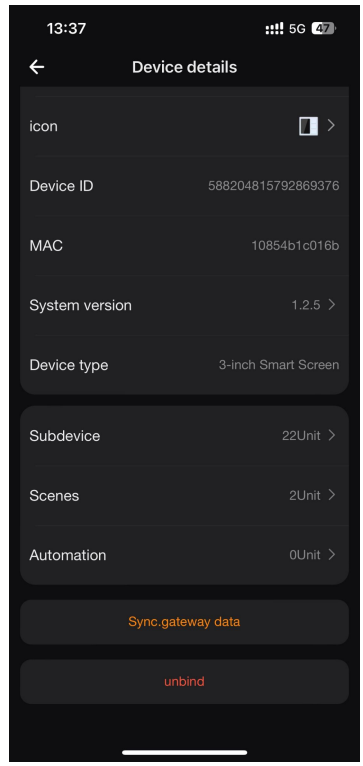
(3) If a new system version is detected, you can upgrade for the S3 device.

(4) View and synchronize the gateway data (devices and scenarios).

(5) Unbind the S3 device.


10:39
5G
S3_1C016B
S3_1C016B
online
Device management
Scene Mgmt
Theme
More
Light imi...
Bluetooth
Home
Address book
System Setting
KNX Programming
Button setting


11:41
5G
Device details
Device status
online
Gateway name
S3_1C016B
icon
Device ID
588204815792869376
MAC
10854b1c016b
System version
1.2.5
Device type
3-inch Smart Screen
Subdevice
22Unit
Scenes
2Unit
Automation
0Unit
Sync.gateway data


13:37
5G
Device details
icon
Device ID
588204815792869376
MAC
10854b1c016b
System version
1.2.5
Device type
3-inch Smart Screen
Subdevice
22Unit
Scenes
2Unit
Automation
0Unit
Sync.gateway data
unbind

Charpter 9Icon list

9.1. Theme 1 device icons

NO.	ETS options	Icon
01	General light	
02	Ceiling light	
03	Downlight	
04	Walllight	
05	Spotlight	
06	Chandelier	
07	Floor light	
08	LED strip	
09	RGB light	

NO.	ETS options	Icon
10	Curtain	
11	Roller blind	
12	Venetian blind	
38	TV	
39	Audio	
40	Socket(CHN)	
41	Socket(EU)	
42	Fan	
43	Lock1	

44	Lock2	
45	Power 1	
46	Power 2	
47	Window 1	
48	Window 2	
49	Alarm	
50	Projector	
51	Multimedia	
52	Presence	

56	FIRE	
57	Water Sensor	
58	Gas Sensors	
59	Sensor 1	
60	Sensor 2	
61	Temperature 1	
62	Temperature 2	
63	Humidity	
64	PM2.5	

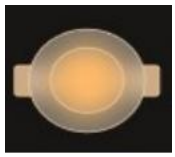
53	Infrared Sensor	
54	Door Sensor	
55	VESDA	
68	Brightness	
69	Wind speed	
70	Rain	
71	Energy	
72	I/O signal	
73	Electronic heating	

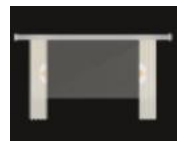
65	PM10	
66	CO2	
67	VOC	
77	Air conditioner 3	
78	Heating	
79	Cooling	
80	Heating/Cooling	
81	Music 1	
82	Music 2	

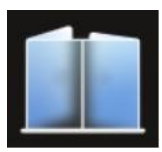
74	**Water heating**	
75	**Air conditioner 1**	
76	**Air conditioner 2**	

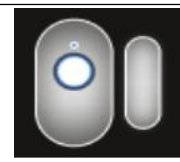
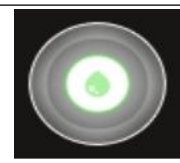
83	**Ventilation**	
84	**AQI**	

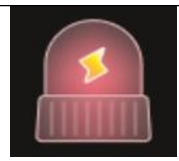
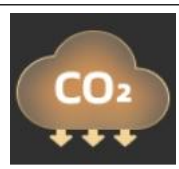
9.2. Theme 2 device icons

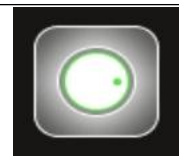
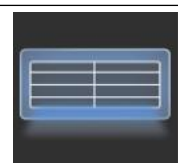
NO.	ETS options	Icon
01	**General light**	
02	**Ceiling light**	
03	**Downlight**	
04	**Walllight**	
05	**Spotlight**	

NO.	ETS options	Icon
10	**Curtain**	
11	**Roller blind**	
12	**Venetian blind**	
38	**TV**	
39	**Audio**	

06	Chandelier	
07	Floor light	
08	LED strip	
09	RGB light	
44	Lock2	
45	Power 1	
46	Power 2	
47	Window 1	
48	Window 2	

40	Socket(CHN)	
41	Socket(EU)	
42	Fan	
43	Lock1	
54	Door Sensor	
55	VESDA	
56	FIRE	
57	Water Sensor	
58	Gas Sensors	

49	Alarm	
50	Projector	
51	Multimedia	
52	Presence	
53	Infrared Sensor	
64	PM2.5	
65	PM10	
66	CO2	
67	VOC	

59	Sensor 1	
60	Sensor 2	
61	Temperature 1	
62	Temperature 2	
63	Humidity	
75	Air conditioner 1	
76	Air conditioner 2	
77	Air conditioner 3	
78	Heating	

68	Brightness	
69	Wind speed	
70	Rain	
71	Energy	
72	I/O signal	
73	Electronic heating	
74	Water heating	

79	Cooling	
80	Heating/Cooling	
81	Music 1	
82	Music 2	
83	Ventilation	
84	AQI	