

Haiwell Intelligent Center TVBOX

Haiwell Intelligent Center Instructions



Edit History

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I. Product Introduction

1. Main Functions

The Haiwell Intelligent Central Hub (TVBOX) can centrally monitor the screens of HMI, gateways, SCADA, Intelligent PLCs, cameras, etc. through local area networks or the Internet. It can also merge the screens of multiple devices or cameras for simultaneous monitoring. Moreover, it can display information such as device, alarms, videos, and monitoring in a visually appealing large screen format. It also provides a welcome screen function, which effectively enhances the corporate image. Different from traditional TV large screen solutions, TVBOX innovatively uses mobile phones to replace traditional remote controls for large screen control, making the ease of use of large screen control reach a new height. It also integrates Haiwell's characteristic A/B Key security mechanism and cloud access mechanism. Members of the device can remotely view the large screen and control TVBOX anytime and anywhere through the cloud platform, APP, mini-program, etc.

2. Core Highlights

- **Intelligent Central Hub:** With TVBOX as the central hub, it integrates Haiwell Intelligent HMI, gateway, PLC, cloud platform, data visualization, mobile phones, tablets, computers, TVs, cameras and third-party ERP/MES systems, creating a smart centralized control center.
- **Digital Dashboard:** One TVBOX and one TV, no configuration required, allowing production data, device status, video surveillance, etc. to be displayed on the large screen in seconds.
- **Cool Templates:** Built-in rich and cool visualization large screen templates, with complete coverage of scenarios, high-end templates can be used with one click, and cool effects can be easily obtained.
- **Welcome Screen:** Built-in multiple welcome screens, allowing for arbitrary modification of welcome content, suitable for festivals, customer visits, meetings, etc.
- **Split Screen Display:** Displaying Intelligent HMI, gateway, PLC, cloud map, data visualization, cameras, video files, and third-party web pages in 4/6/9 grid formats in real time.
- **Mobile Control:** No need for mouse, keyboard, or remote control, achieving collaborative interaction between mobile phones, tablets, and large screens, creating a new way of interaction between mobile phones and large screens.
- **Multi-terminal Access:** TVBOX can be accessed at any time through local area network or the Internet via mobile APP, mini programs, PC browsers, etc.
- **Alarm Display:** Displaying alarm information of local and cloud devices, achieving real-time monitoring of device alarms, ensuring the safe and stable operation of device.
- **Video Playback:** Supports playing audio and video files, used for playing enterprise publicity, event celebrations, product displays, etc.
- **Creating ESOP:** Displaying ESOP in the form of files, videos, etc., achieving paperless management in workshops, assisting enterprises in realizing information transformation.

II. Product Specifications

1. Product Parameter

Model		TVBOX4	TVBOX4 Pro
Hardware	Flash	4GB	8GB
	RAM	4GB	
	Ethernet	10/100/1000 Base-T*1	
	USB	USB 2.0*1 USB 3.0*1	
	HDMI	HDMI 2.0*1	
	WIFI	2.4GHz/5GHz,802.11a/b/g/n/ac	
	RTC	Built in real-time clock	
Display	Maximum resolution	1K (1920*1080)	4K (3840*2160)
	Support for video coding	H.264 Support up to 4K/2K@30fps	
Power supply	Input power supply	Standard 5V Type-C power supply interface	
	Power consumption	10W@5VDC	
Environment	Storage environment temperature	-20°C ~ +70°C	
	Operating ambient	-10°C ~ +60°C	
	Relative humidity	10% ~ 90% RH (no condensation)	
	Cooling method	Natural wind cooling	
	Class of protection	IP31	IP41
	Vibration resistance	10~25 Hz (X.Y and Z axis 2G/30 minutes)	
	Resistance to impact	15G, 11ms duration, 6 times each in the X, Y and Z directions	
	Usage environment	Dustproof, moisture-proof, corrosion-resistant, and protected from electric shock and external impact environments	
Shape	External dimensions (W*H*D)	112*112*30mm	133*133*44mm
	Shell material	Engineering plastic ABC+PC	All aluminum shell
	Weight	0.6kg	0.95kg
	Installation method	Horizontal placement, wall mounting	Horizontal placement
Features	RTSP camera	1 PCS	3 PCS
	Special features	/	Support access to cloud project, third-party web pages

2. Product Model List

Model	Storage	Maximum Resolution	WIFI	USB	HDMI	RTSP Camera	LAN	Dimensions W*H*D
TVBOX4	4G+4G	1K	2.4G/5G	2	1	1	1	112*30*112mm
TVBOX4 Pro	4G+8G	4K	2.4G/5G	2	1	3	1	133*44*133mm

3. Shape Dimensions



Figure1 Shape Dimensions of the TVBOX

III. Control and Access Methods

Mobile control: Users can download the Haiwell Cloud APP version 3.0.9 or above, connect to the TVBOX4's own hotspot with their mobile phone, and access and control the TVBOX. The mobile phone can serve both as the screen and the controller of the TVBOX.

Device-end control: Users can connect a display, keyboard, and mouse to the TVBOX via the HDMI and USB interfaces on the TVBOX to access and control it. (The keyboard and mouse must be connected to the TVBOX ontology)

Local area network control: Users can access and control the TVBOX via the local area network IP address. (The IP address of the TVBOX in its own hotspot is 10.5.5.1)

When the TVBOX is used for the first time or the factory settings are restored, the startup guide tutorial (initial configuration) must be completed before it can be used normally.

1. Mobile Phone Control

After the WIFI connection is completed, open the APP. The APP will automatically search for the TVBOX4 nearby. You can directly access the found TVBOX4 or scan the colorful QR code at the lower left corner of the TVBOX4 with the APP to enter the control interface. The touchpad on the mobile phone is divided into two modes: the dynamic control mode and the virtual control mode. The specific descriptions are as follows.

Dynamic control mode: Similar to virtual buttons, it supports clicking the corresponding buttons to

perform interface switching operations, and the operation is synchronized with the TVBOX end.

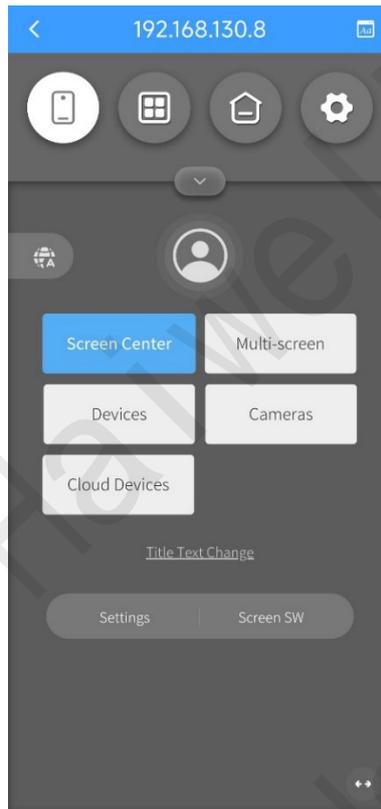


Figure2 Dynamic Control Mode

Virtual Control Mode: Similar to the touchpad of a laptop computer, it supports single-click selection and two-finger up/down swiping.



Figure3 Virtual Control Mode1

Table 1 Control mode shortcut operation buttons I

ICONS	Instructions
	The mode switch button can be used to switch between the agile control mode and the virtual control mode
	The screen switch button, when clicked, leads to the screen selection interface
	The "Home Refresh" button, when clicked, will lead you to the home interface of the current visualization dashboard
	The background setting button, when clicked, can lead you to the background setting interface
	The voice control button allows you to mute or unmute the sound with one click.
	Volume adjustment button, drag to set volume level
	More buttons, click to view. Theme switching and control QR code setting button entry
	Theme switch button, click to switch the touchpad interface theme
	Control the QR code settings button. Clicking it allows you to set the size, position, and visibility of the QR code
	The back button allows you to return to the previous screen
	The "Forward" button can take you back to the previous screen
	The mouse sensitivity setting button can be used to adjust the sensitivity of the touchpad mouse
	On the upper right corner of the mobile interface, there is a button for switching to the large-screen style. Clicking it will switch to the visual large-screen style
	Users can select an adaptive mode for images
	On the upper right corner of the mobile interface, there is a "Touchpad Mode" button. Clicking it will switch from the visual dashboard to the touchpad interface

IV. Initialize TVBOX

The TVBOX can be used normally only after the user has completed its initialization.

1. Download the APP

Users can scan the QR code of Haiwell Cloud APP to download it. For detailed instructions on usage, please refer to the [Haiwell Cloud APP Introductory Tutorial](#).



Figure4 QR code of Haiwell Cloud APP

The first step is that TVBOX will prompt that the user needs to download and install the Haiwell Cloud APP, as shown in the following figure.



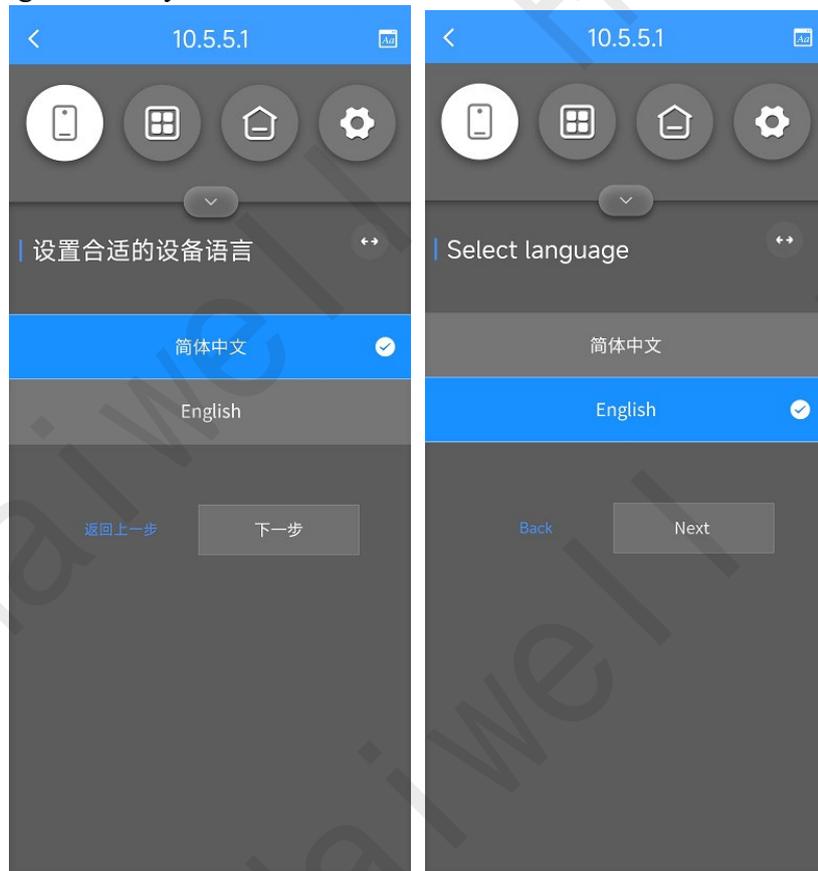
Figure 5 Prompt on the Mobile Phone End



Figure6 Prompt on the TVBOX Display End

2. Language Configuration

Clicking on "Next" leads you to the language configuration interface. Currently, TVBOX4 supports the configuration of two languages: Chinese and English. Users can directly operate on their mobile devices, and the relevant settings will be synchronized to the TVBOX end, as shown in the following figure.



(a) (b)
Figure7 Switching Languages on the Mobile Phone

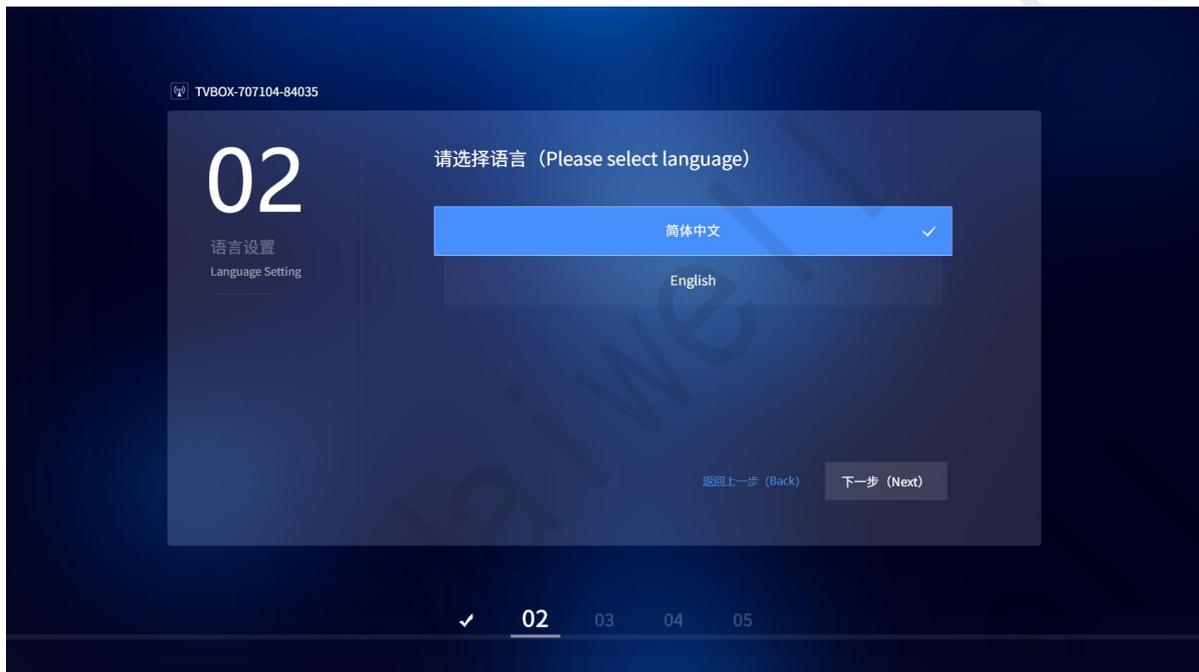


Figure8 Switching Languages on the TVBOX Display End

3. Network Configuration

The Intelligent Central TVBOX supports both wireless and wired network access methods. After connecting to the network, it will support the TVBOX to automatically search for local LAN devices such as Intelligent HMI, Intelligent Gateway, cameras, etc. After going online, it can access remote devices and cloud project pictures, enriching its usage.

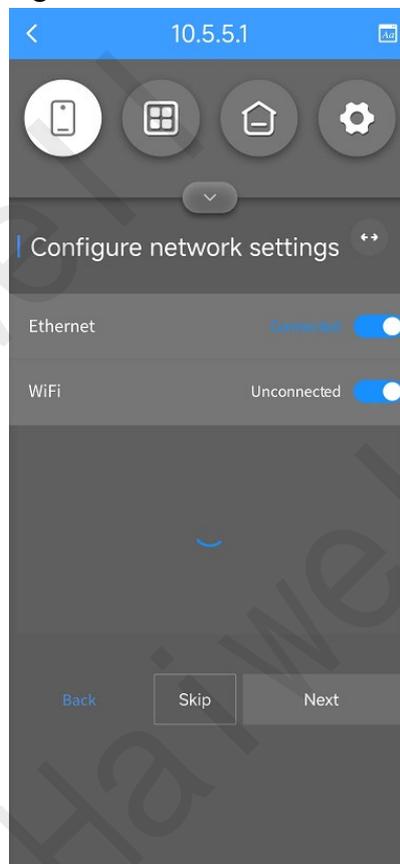


Figure9 Network Settings on the Mobile Phone

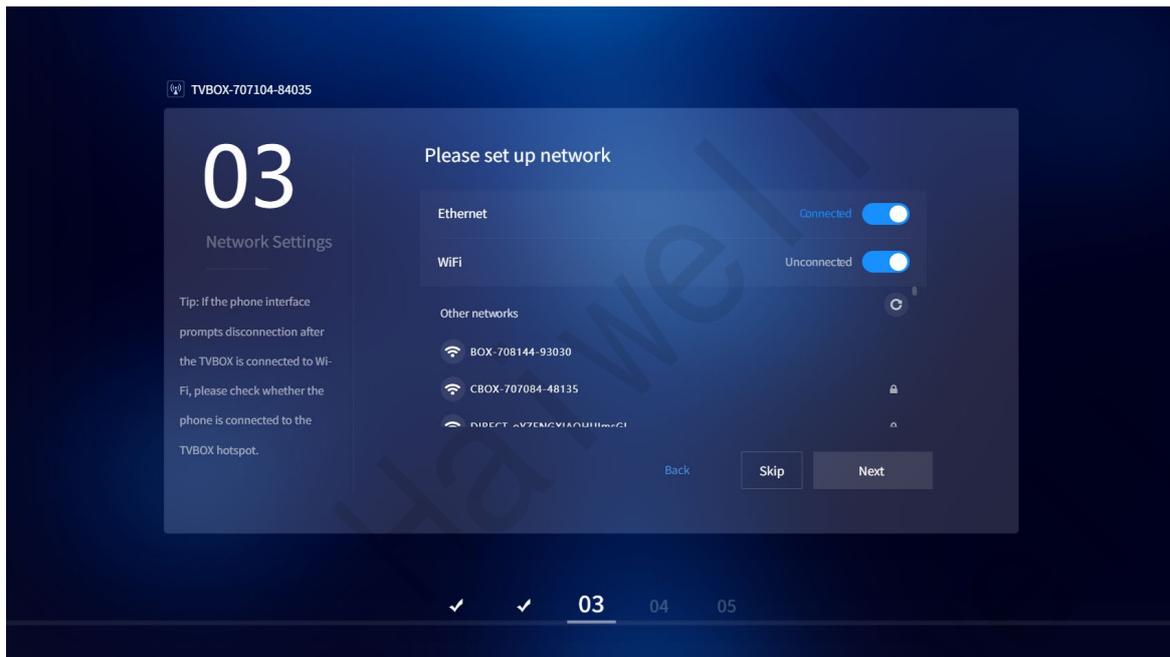


Figure10 Network Settings on the TVBOX Display End

3.1 Wireless Network Access

After enabling the wireless network (WIFI), it will automatically search for nearby WIFI. Just select the WIFI you need to connect to from the WIFI list, enter the correct password for verification, and you can connect.



Figure11 WIFI Settings on the TVBOX Display End

3.2 Wired Network Access

After turning on the wired switch (Ethernet), users can insert an Ethernet cable into the TVBOX's 10/100/1000 Base-T Ethernet interface to quickly connect the TVBOX to the wired network.

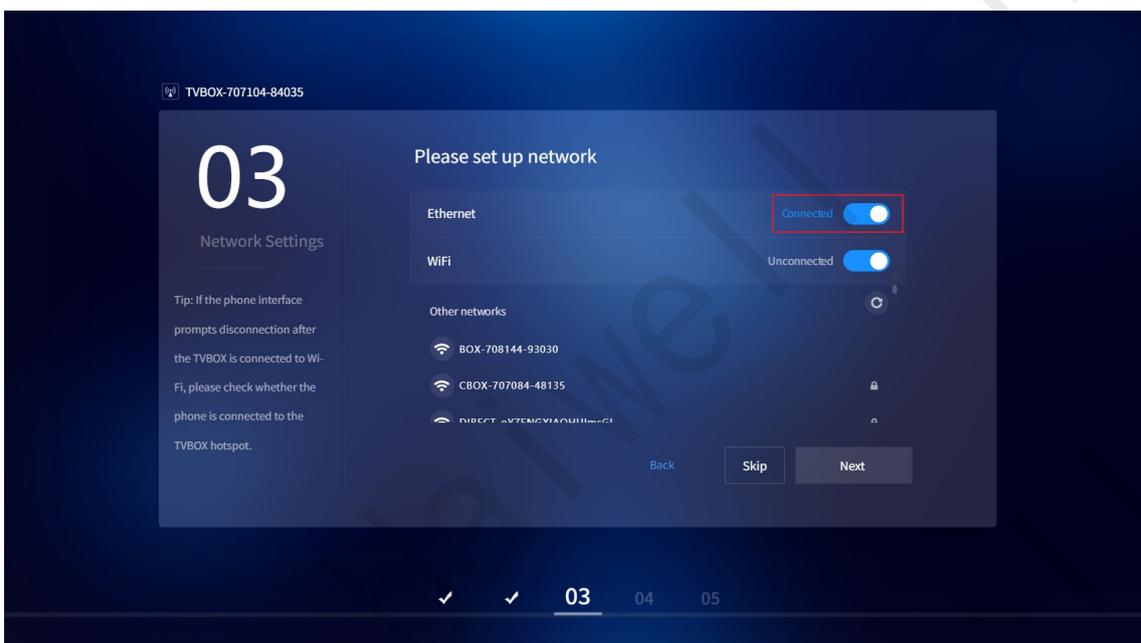


Figure12 Ethernet Settings on the TVBOX Display End

4. Haiwell Cloud Account Login

To facilitate the display of relevant information such as devices and cloud projects under the Haiwell Cloud account on the TVBOX4, users can choose to log in to the Haiwell Cloud account. Open the Haiwell Cloud APP and scan the QR code on the TVBOX to log in quickly. If the TVBOX4 is used within a local area network, click **【Skip】** to proceed.

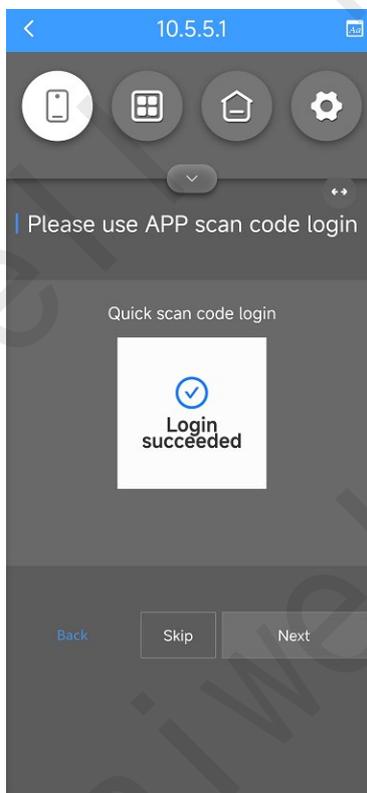


Figure13 Haiwell Cloud Account Login on the Mobile Phone

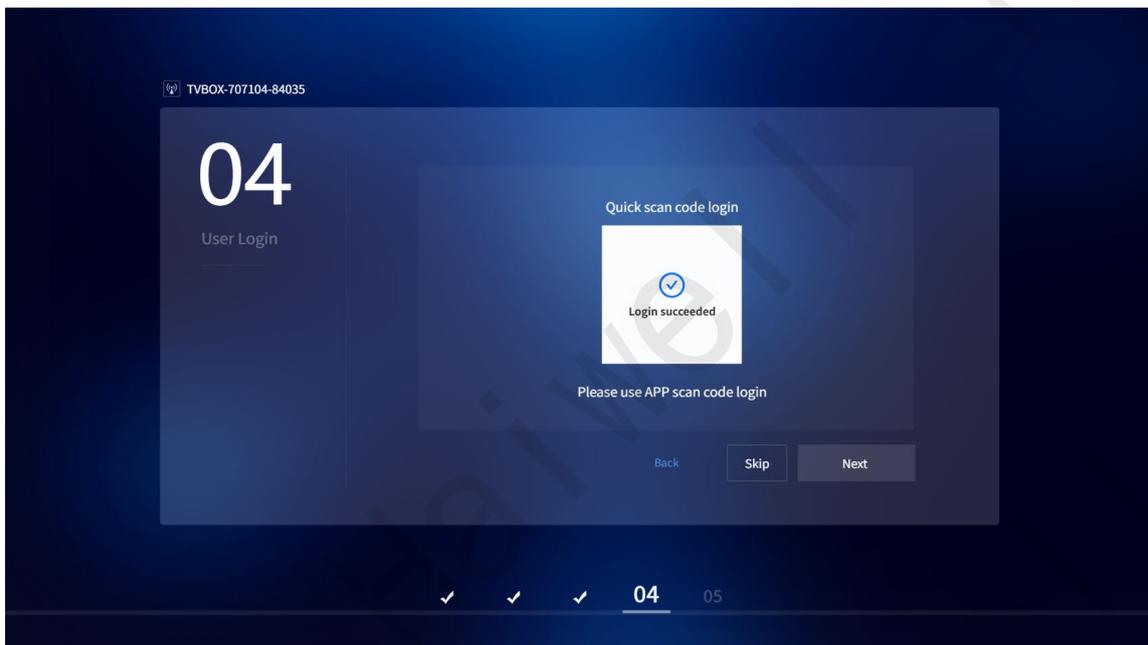


Figure14 Haiwell Cloud Account Login on the TVBOX Display End

5. Screen Selection

To meet the different application scenarios of users, Haiwell has launched various styles of demo version project, enterprise version large screens, personal version large screens and local version large screens. Users can choose the style of large screens according to their actual application needs. If the selected large screen is not applicable after selection, click the **【**  **】** button at the upper left corner of the mobile touchpad to enter the screen selection interface and switch the style of large screens.

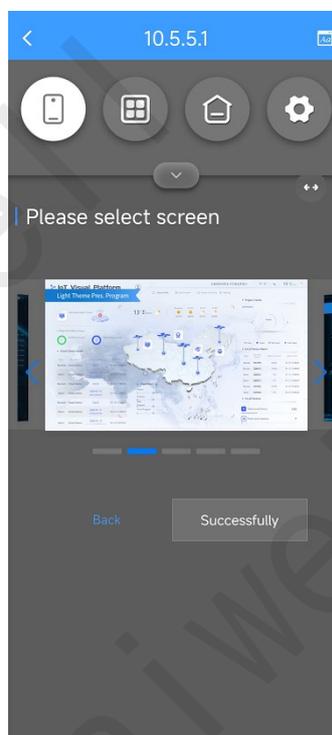


Figure15 Screen Selection on the Mobile Phone

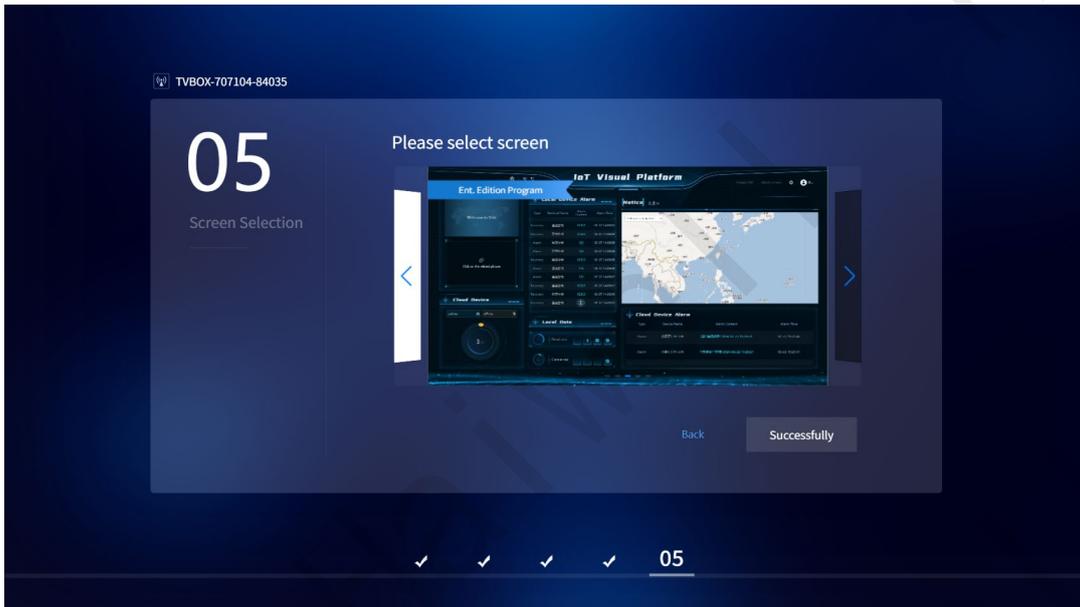


Figure16 Screen Selection on the TVBOX Display End

5.1 Dark-themed Demonstration Large Screen

The dark-themed demonstration large screen mainly shows the information related to enterprise-level enterprise device, maintenance device, cloud project, local device, cameras, etc. When the user role is a distributor or there is a need to display information such as device and cloud project to customers, it is recommended to use this large screen. If the user is currently only an individual user, it is suggested that they can register an enterprise through the Haiwell Industrial Internet of Things Enterprise Platform and then use the demonstration large screen.

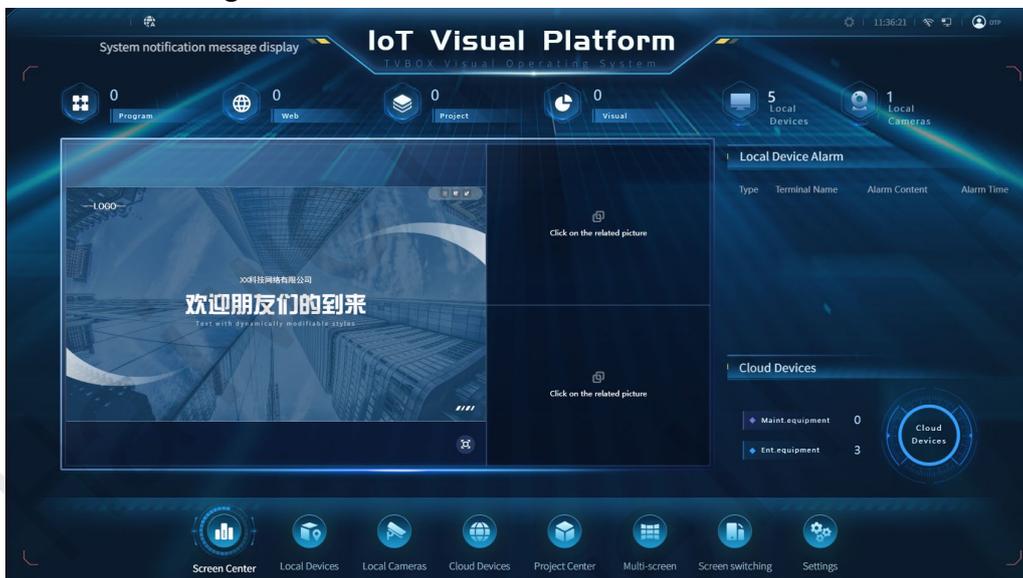


Figure17 Dark Color Scheme Demonstration Project

5.2 Light Color Scheme Demonstration Screen

The display functions are the same as those of the dark color scheme demonstration screen, but the style is different. Users can choose according to their preferences.

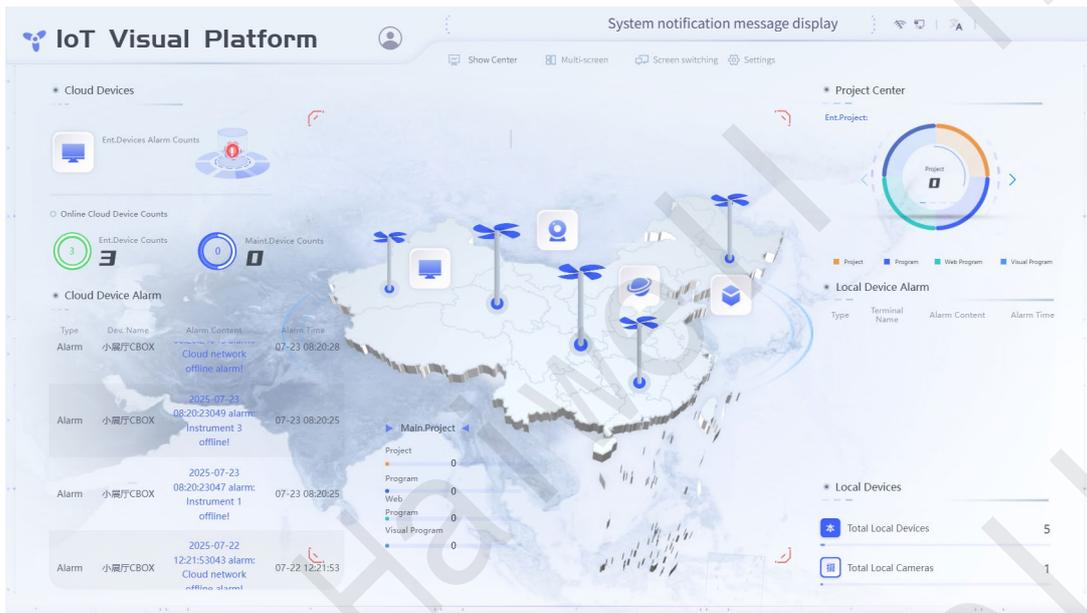


Figure18 Light Color Scheme Demonstration Project

5.3 Enterprise Edition Large Screen

The enterprise edition large screen mainly displays information related to enterprise-level devices, cloud projects, local devices, and local cameras. When TVBOX is to be used on a company's visualization large screen, it is recommended that users use the enterprise edition large screen.

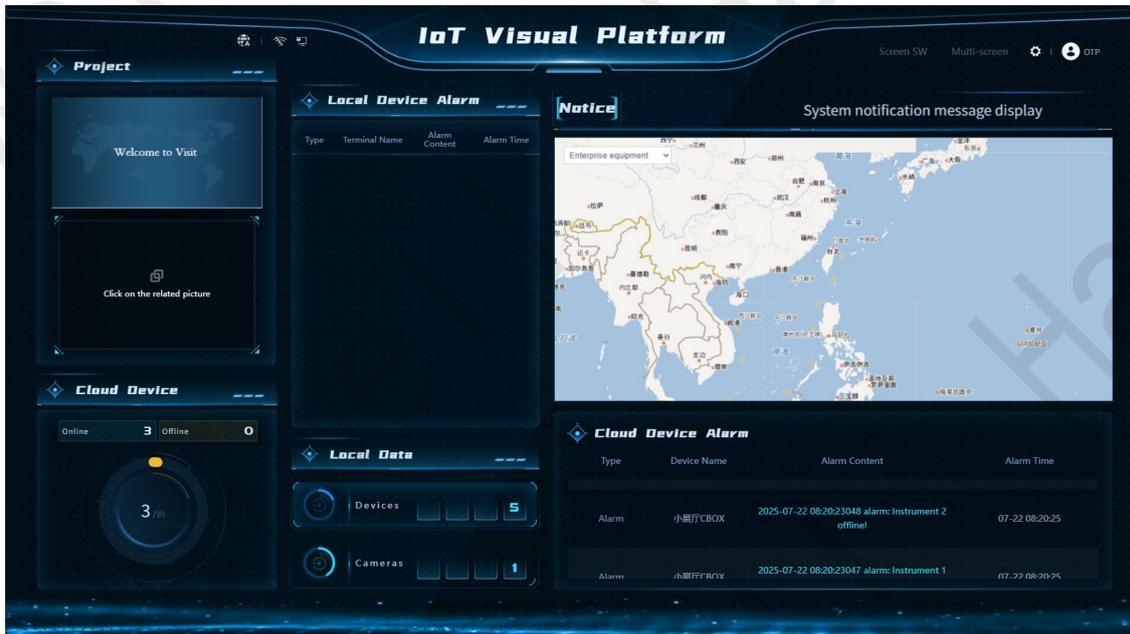


Figure19 Enterprise Edition Large Screen

5.4 Personal Edition Large Screen

The personal edition large screen mainly shows the number of personal devices under the personal account name, alarm information, local devices, and related information of local cameras. When the user is an individual terminal, only the relevant situation of the devices under his own name needs to be viewed. It is recommended to use the personal edition large screen. If the user's actual role is a manufacturer, etc., it is recommended to register an enterprise through the Haiwell Industrial Internet of Things Enterprise

Platform and then use the enterprise edition large screen.

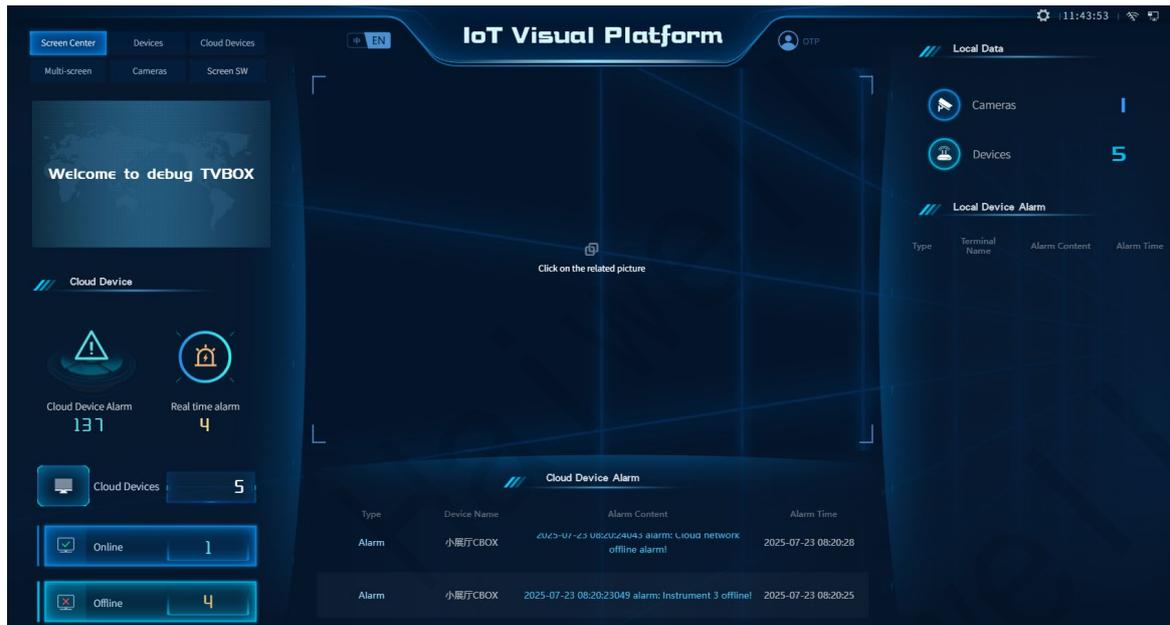


Figure20 Personal Edition Large Screen

5.5 Local Edition Large Screen

It mainly displays the number of devices and cameras within the local LAN and supports viewing alarm information of local devices. When a user's devices are only used within the LAN and only the status of devices and cameras within the LAN needs to be monitored, it is recommended to use the local edition large screen.

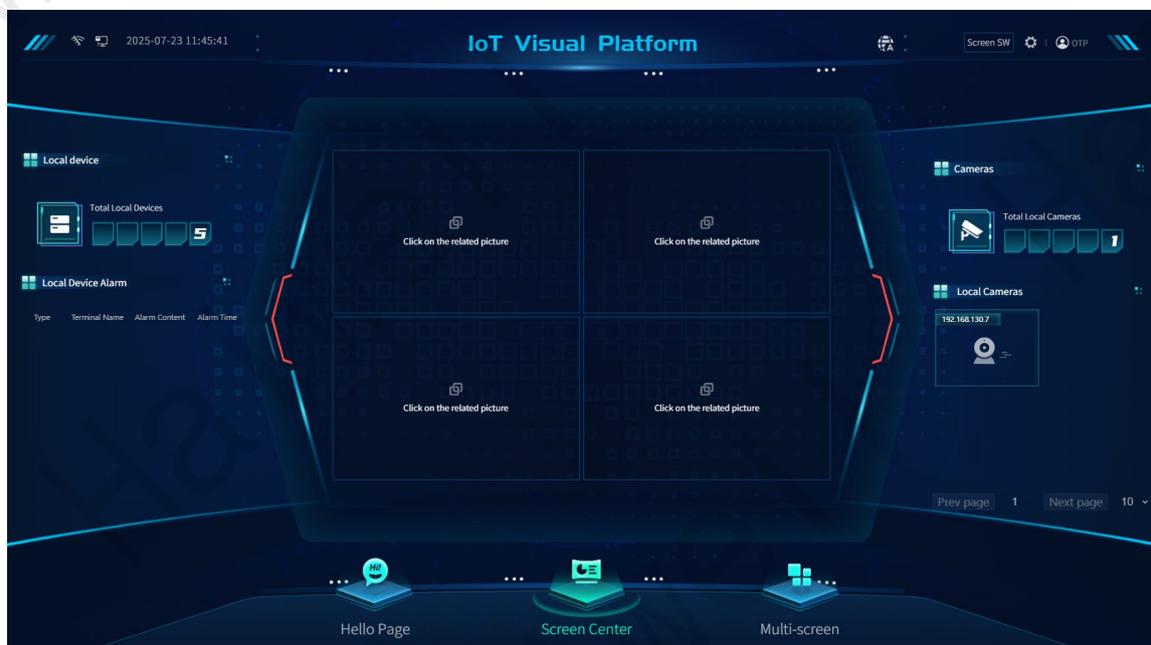


Figure21 Local Version of the Large Screen

6. Complete Configuration

After completing the above related configurations, simply click on **【Try now】** to enter the TVBOX visual large screen interface.

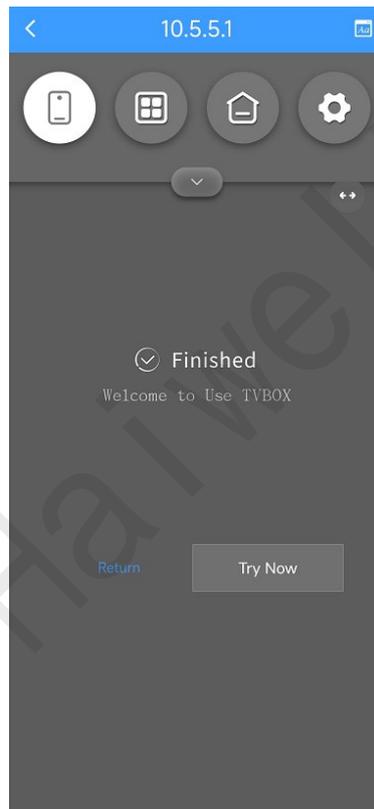


Figure22 Complete Configuration on the Mobile Phone

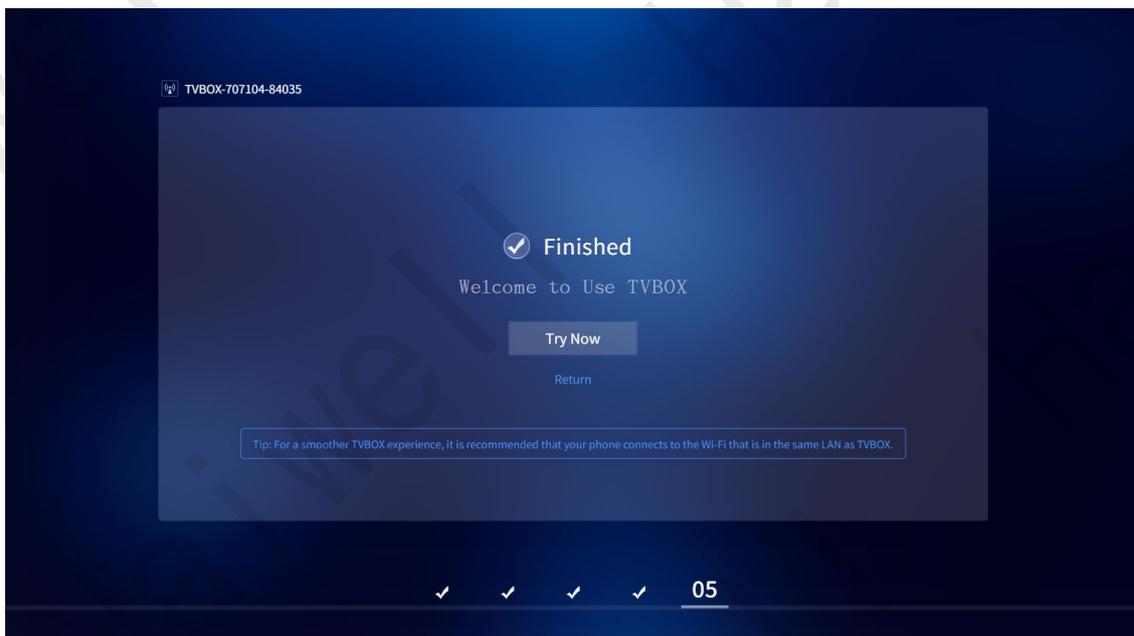


Figure23 Complete Configuration on the TVBOX Display End

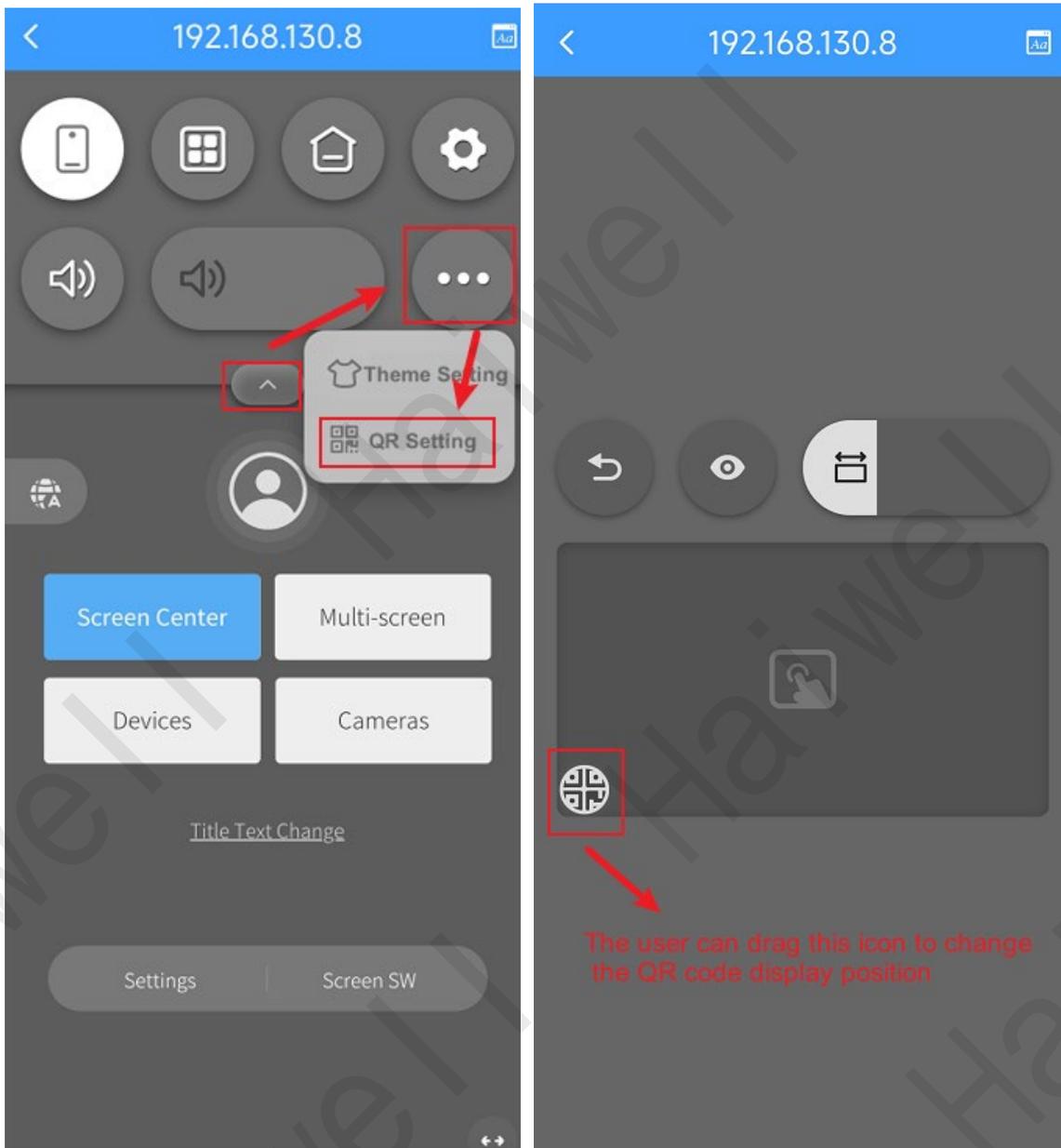
V. Other Basic Operations

After the initial configuration is completed, if you need to set TVBOX parameters or log in to other Haiwell accounts and other operations, you can follow the instructions below.

1. Control QR Code Configuration

To facilitate the setting of QR code size, position, and visibility, you can do so on the touchpad interface of your mobile device. Click the More button **⋮** on the touchpad, then select the Control QR Code

Settings button to proceed with the configuration.



(a)

(b)

Figure24 Control QR Code Configuration

Table 2 Quick Operation Buttons for Controlling QR Code Screen

Icon	Explanation
	Back button, click to return to the touchpad interface. Note: Do not click the back button at the top left corner of the interface.
	Visibility button, click to set whether to hide the QR code.
	Size setting button, slide to set the size of the QR code.

2. User Login

After selecting the large screen, you need to log in with your personal account to obtain the personal devices, enterprise devices, maintenance devices, enterprise projects, and maintenance project contents under your account. If you have not logged in during the startup configuration or need to select enterprise information, please click the **【👤】** button to perform the account login/enterprise selection operation.

3. Background Setting

If the user needs to perform operations such as terminal name, owner binding, network configuration, etc. on the TVBOX, please click the **【⚙️】** button or select [Background Settings] on the screen selection interface. Meanwhile, the TVBOX also supports accessing the background settings interface through IP+/setting, for example, **192.168.1.112/setting**.

3.1 Settings

(1) Settings

① Set Terminal Name

Enter the TVBOX background settings interface, click on **【Settings】**, in the **【Settings】** interface, user can see **【Terminal Name】**, click it, enter the new terminal name, and press the Enter key on the keyboard. Terminal Name: Device Name.

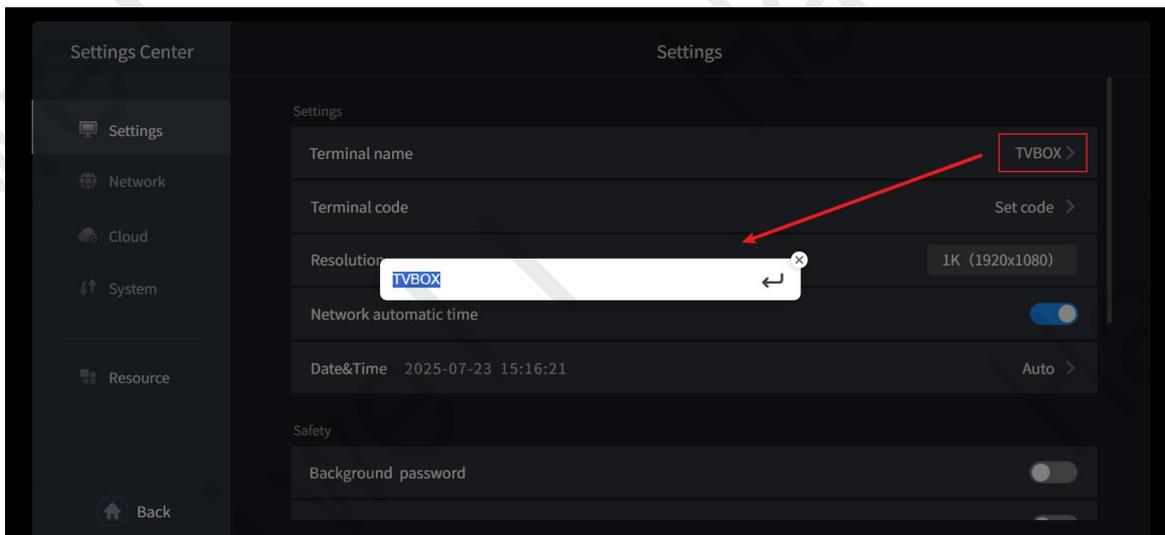


Figure25 Set Terminal Name

② Set Terminal Number

Enter the TVBOX background settings interface, click on **【Settings】**, in the **【Settings】** interface, user can see **【Terminal Number】**. click it, enter the new terminal number, and press the Enter key on the keyboard. Terminal Number: The number of the device.

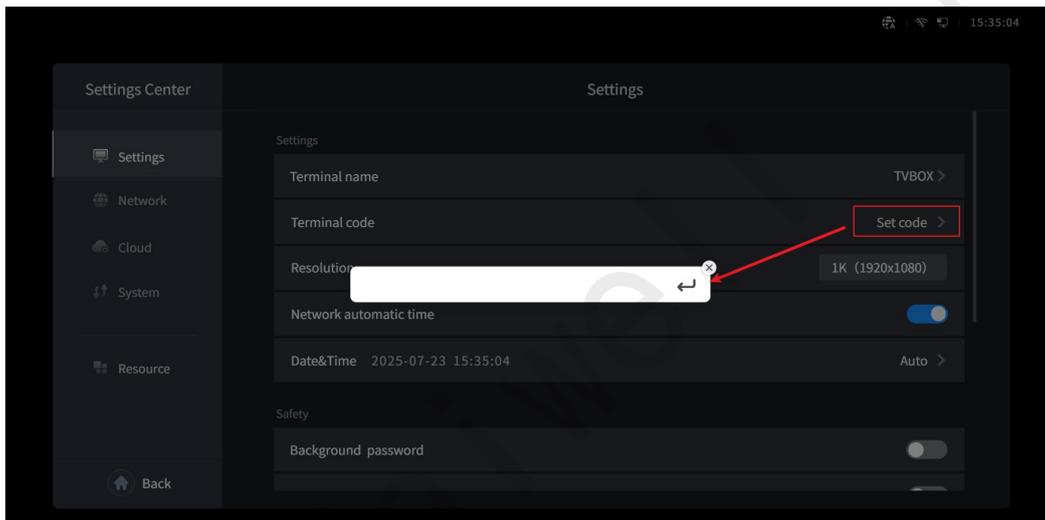


Figure26 Set Terminal Number

Note: The length of the terminal name should be 1 to 10 characters.

③ Resolution

If the TBOX Pro version is used, the user can set the desired display resolution. The minimum is 1K and the maximum is not more than 4K.

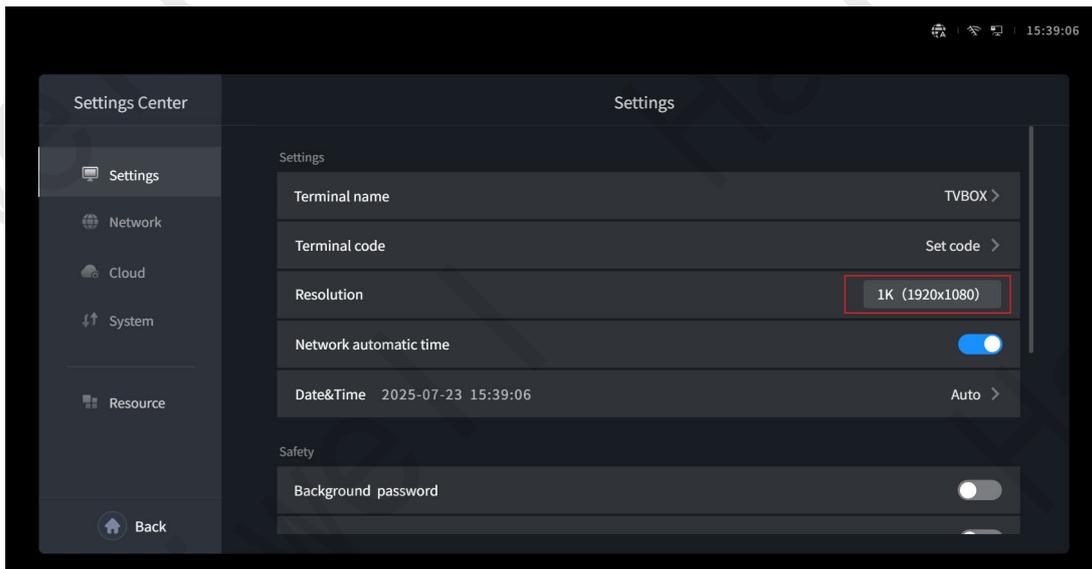


Figure27 Set Terminal Resolution

④ Set Network Time Synchronization

Enter the TVBOX background settings interface, click on **【Settings】**, and in the **【Settings】** interface, turn on network automatic time synchronization. Then click the automatic time synchronization setting, and the current time will automatically correspond to the network time of the selected region.

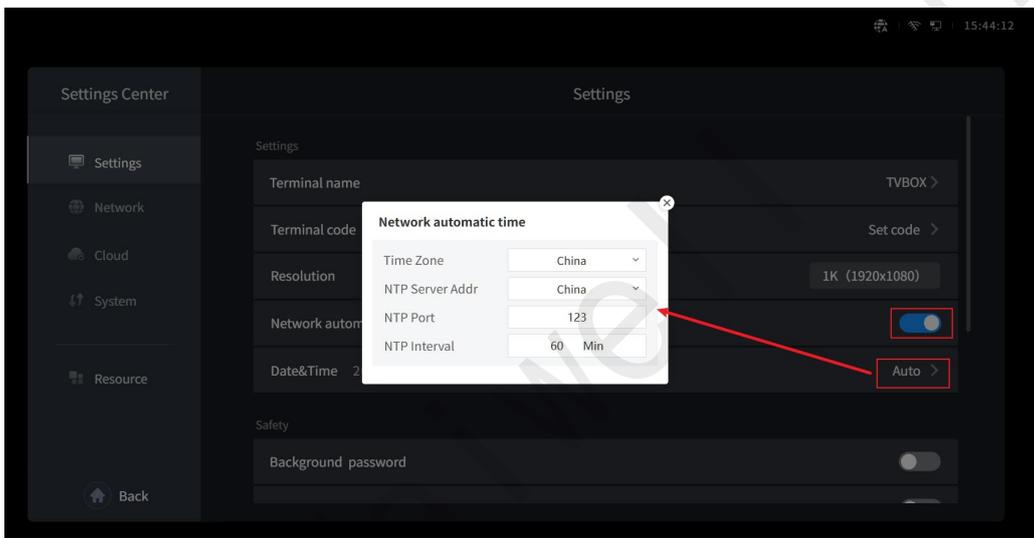


Figure28 Setting Network Time Synchronization 1

Enter the TVBOX background settings interface, click on **【Settings】**, and in the **【Settings】** interface, turn off the network time synchronization, then click on change time. You can manually input and set the time.

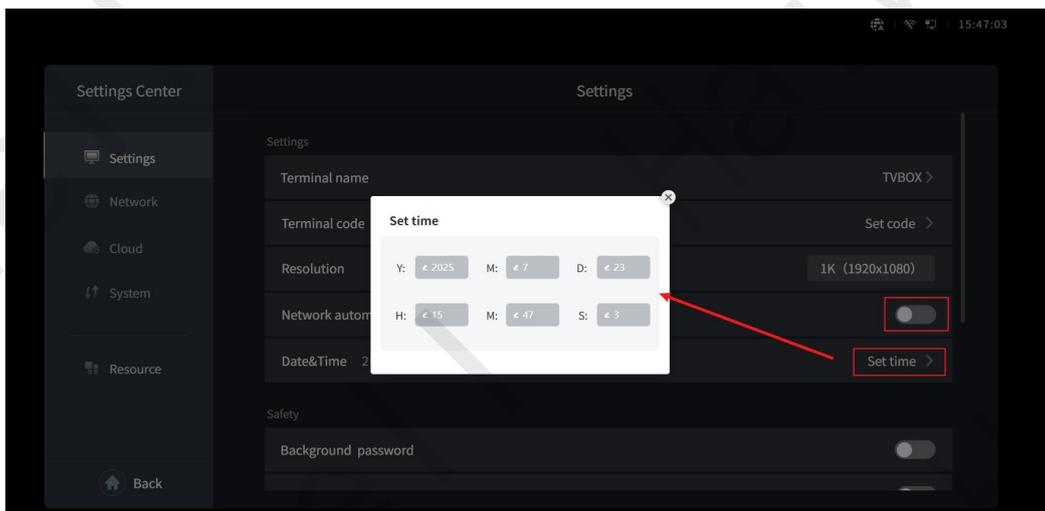


Figure29 Setting Network Time Synchronization 2

(2) Safety

① Background Password

Adding a password verification for entering the background can prevent security risks and economic losses caused by unauthorized personnel's accidental operations. The specific steps are as follows:

Step 1: Enter the TVBOX background settings interface and click on **【Settings】** ;

Step 2: In the **【Safety Settings】** interface, enable the **【Background Password】** function;

Step 3: Set the background password. After the setting is successful, users need to verify the password when entering the background settings.

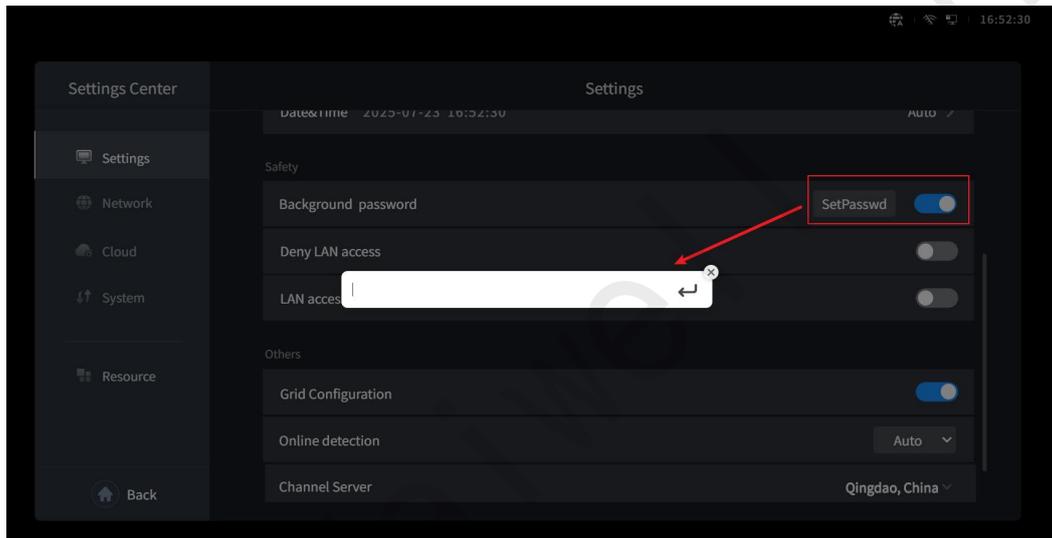


Figure30 Enter the Background Password

② LAN Access Switch

When this switch is turned on, the TVBOX will not be accessible through the LAN.

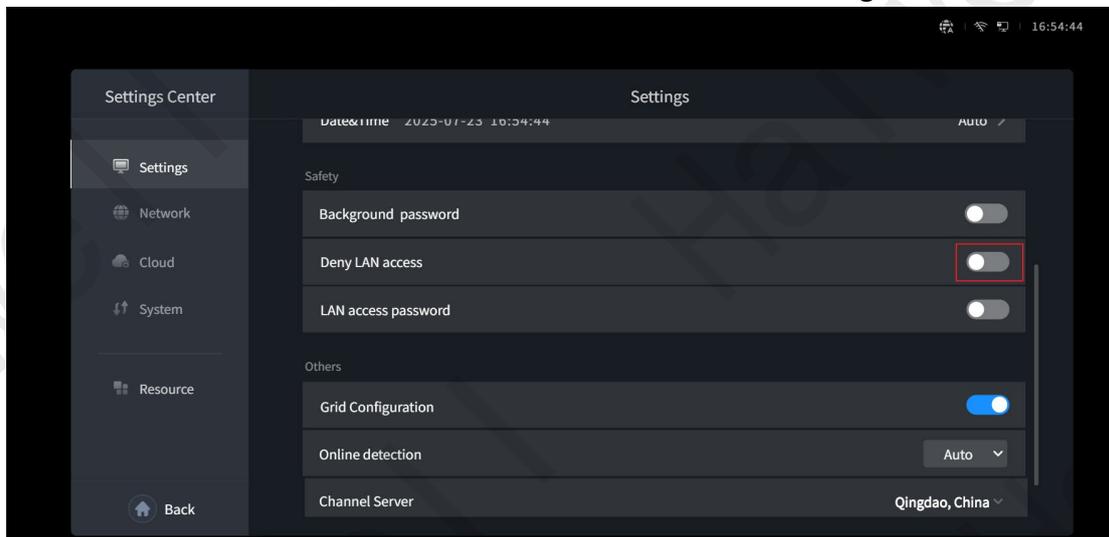


Figure31 LAN Access Switch

③ Local Area Network Access Password

Enter the TVBOX background settings interface, click **【Settings】**, and in the **【Safety Settings】** interface. By default, the local area network access is enabled. Users can set it as needed. Click on **【Set Password】**, input the password to be set, press Enter, input the password just entered again, press Enter, and the local area network access password just set will be saved. If users want to access this device through local area network browser, local mobile device access, TVBOX local access, they must input the correct local area network access password.

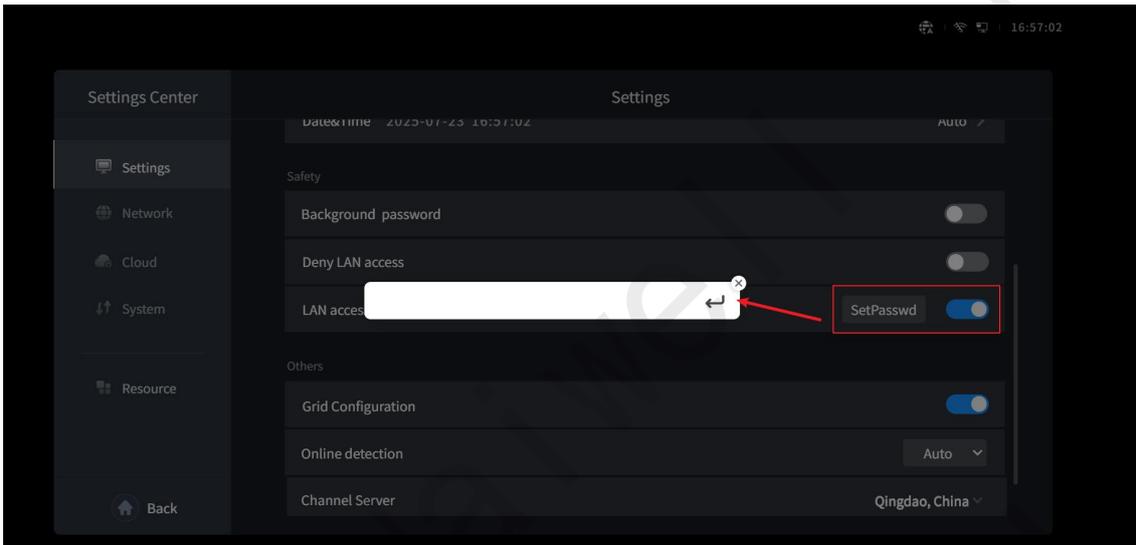


Figure32 Set LAN Access Password

(3) Other Settings

① Grid Configuration

When turned off, the user cannot perform screen editing in the TVBOX split display.

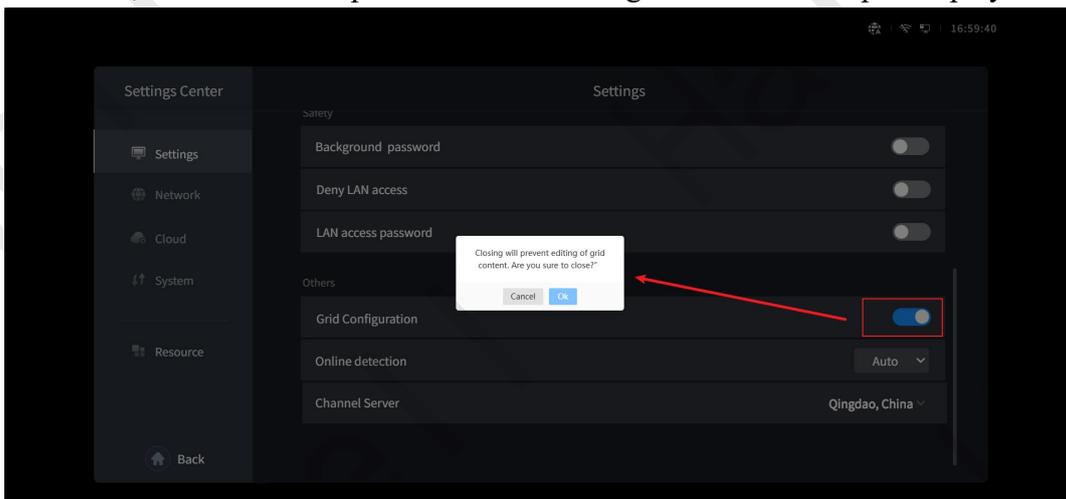


Figure33 Grid Configuration

② Set the Frequency of Cloud Online Detection

Enter the TVBOX background setting interface, click on **【Settings】**, switch to the **【Other Settings】** interface, click on **【Online Detection】**, and select the cloud online detection frequency we need.

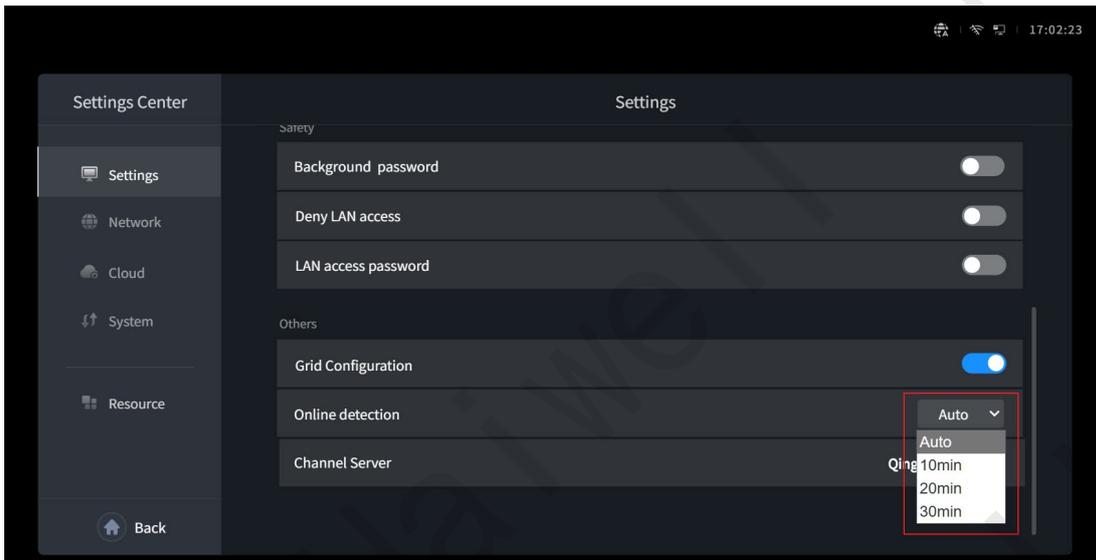


Figure34 Online Detection Frequency of Device Cloud

③ Set up Server Channels

Enter the TVBOX background setting interface, click on **【Settings】**, switch to the **【Other Settings】** interface, click on **【Channel Server】**, users can choose the required cloud server address in the drop down window. When the selection is completed, the current server channel will be displayed as the selected server.

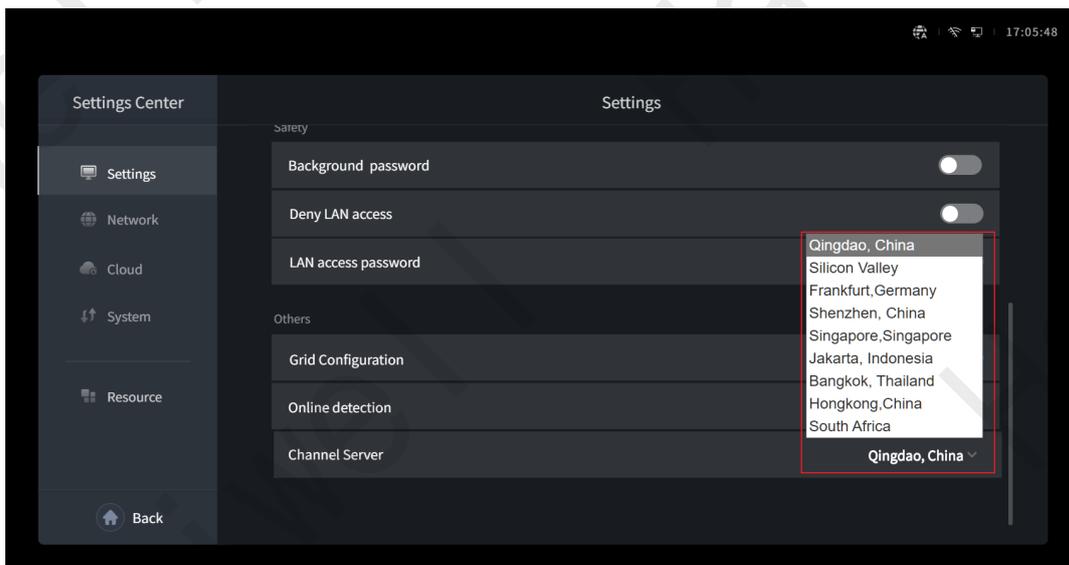


Figure35 Channel Server Selection

3.2 Network Settings

The network settings support configuration of the TVBOX's Ethernet(ETH), WIFI and hotspot.

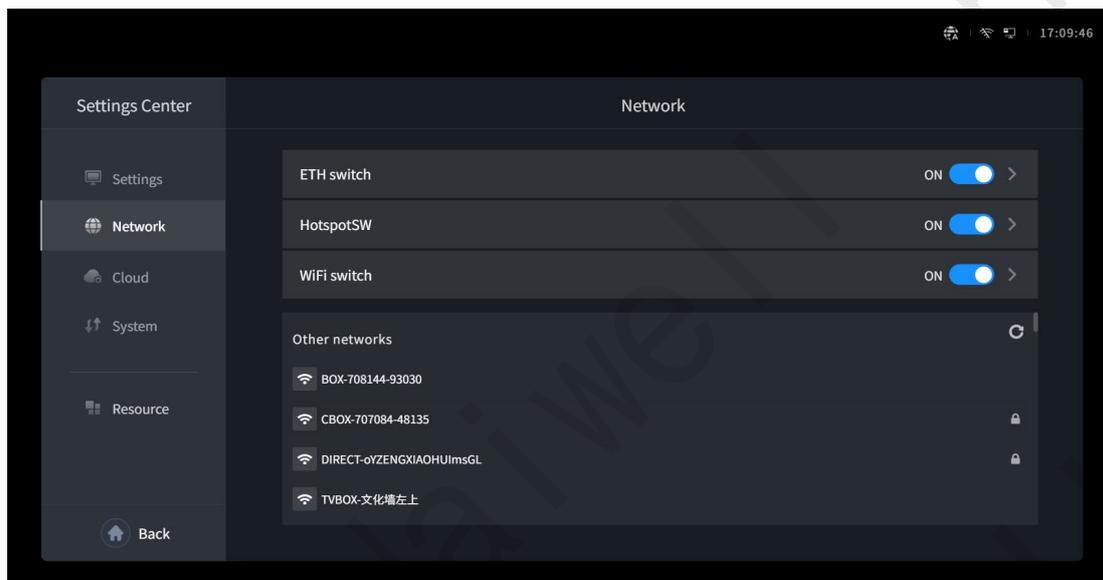


Figure36 Network Settings

(1) Ethernet

The configuration types of Ethernet support manual setting (Static IP) and automatic acquisition (DHCP). After plugging the device into the network cable, select the network type as needed, and click **【Save】** to set the network.

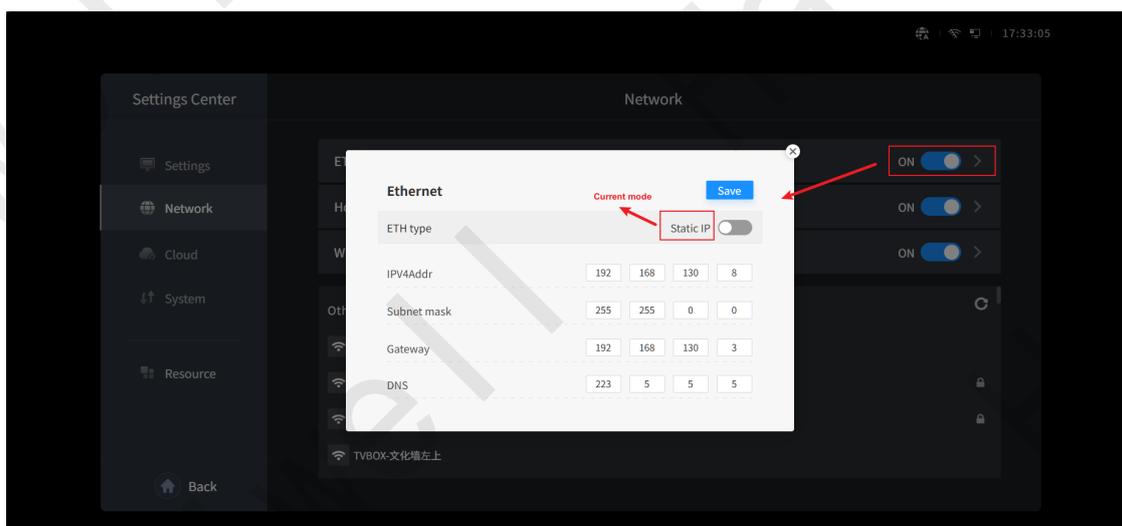


Figure37 Ethernet Settings

(2) Hotspot

TVBOX supports connection via hotspot. The hotspot function is enabled by default. Once it is turned off, other devices will not be able to search for this device. Other devices can connect through the default IP: 10.5.5.1. The default hotspot name is TVBOX - the first 6 digits of the PN code - the last 5 digits of the PN code, for example: TVBOX-711293-14152. There is no default password.

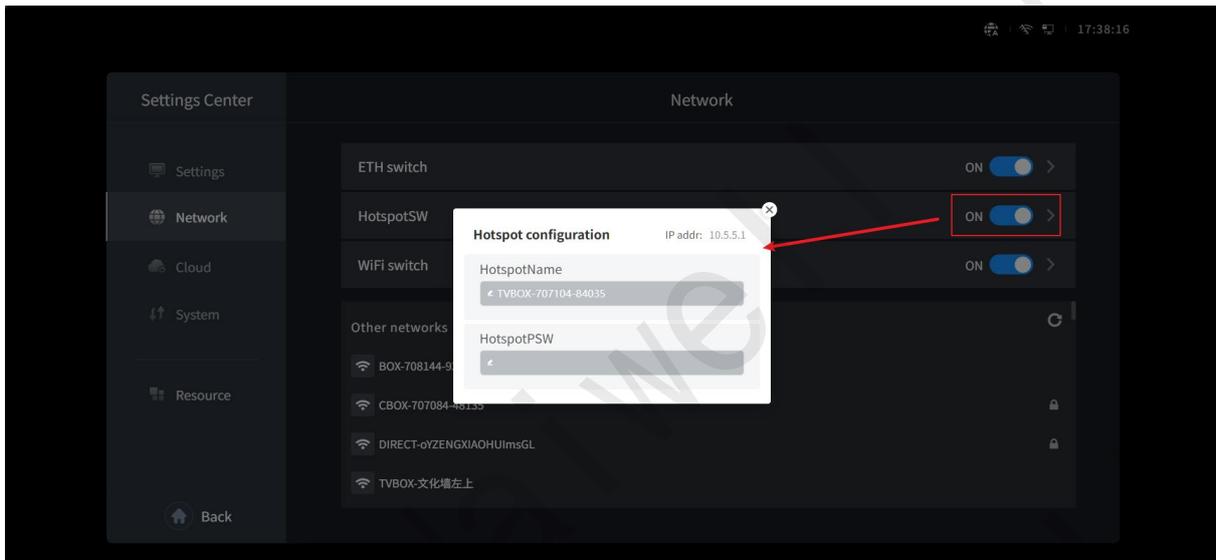


Figure38 Hotspot Settings

(3) WIFI

Turn on the WIFI switch, and the device will automatically search for available WIFI networks within range and display them in a list, sorted by signal strength from high to low. Select the target WIFI account, enter the correct WIFI password, and after verification is successful, you can connect to the WIFI network.

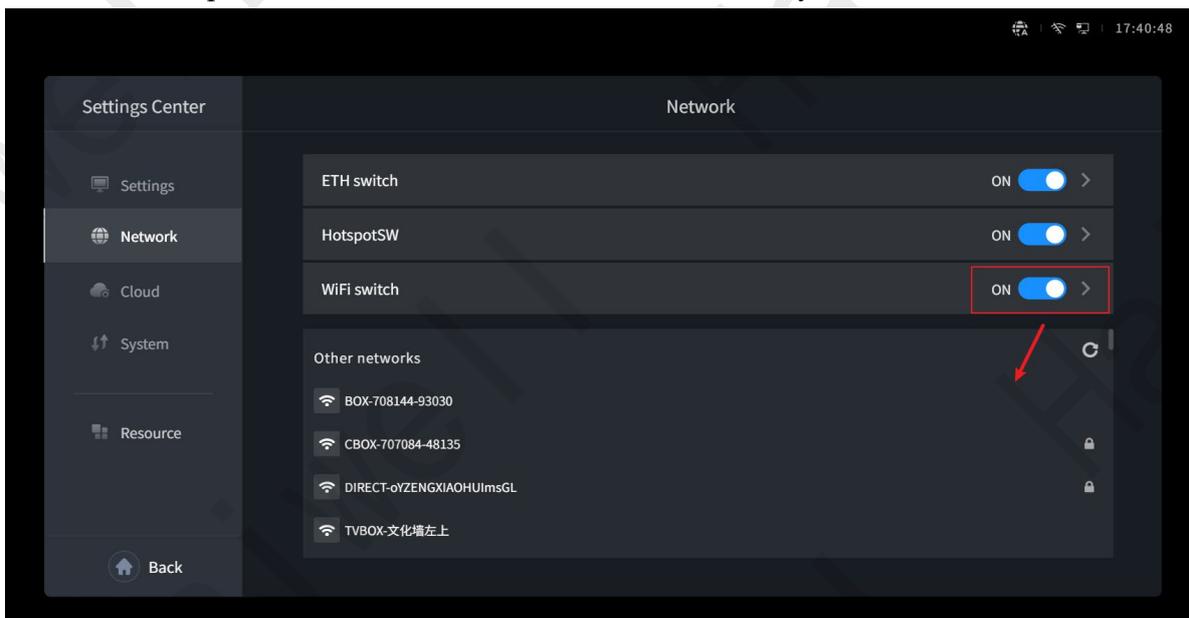


Figure39 WIFI Settings

(4) Network Status Description

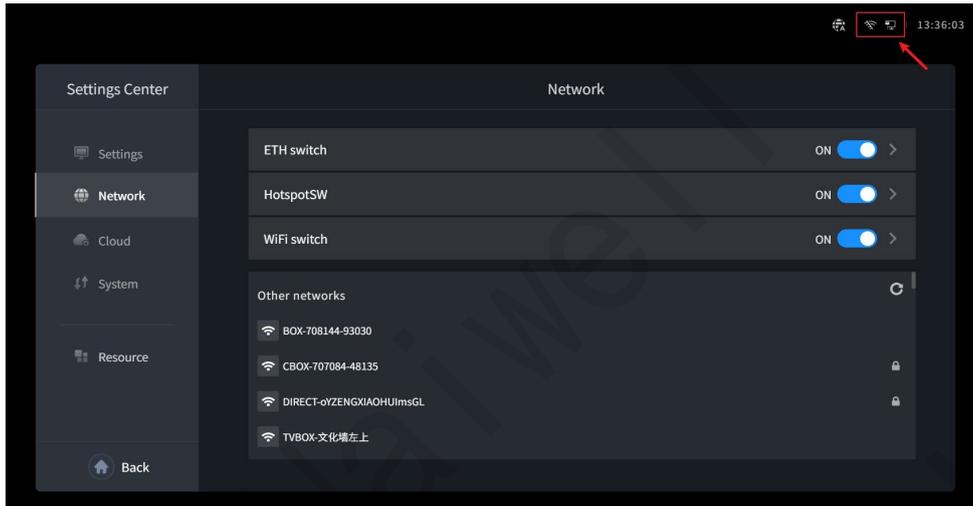


Figure40 Network Status Description

Table 2 Network Identifier Comparison Table

Ethernet	Explanation	WIFI	Explanation
	Not connected to Ethernet		Not connected to WIFI
	Ethernet IP conflict		WIFI IP conflict
	Ethernet connection successful		WIFI connection successful

3.3 Cloud Settings

In this interface, users can control whether the device enables cloud functionality and view the current cloud status of the device, the specific bound personnel, PN number, etc.

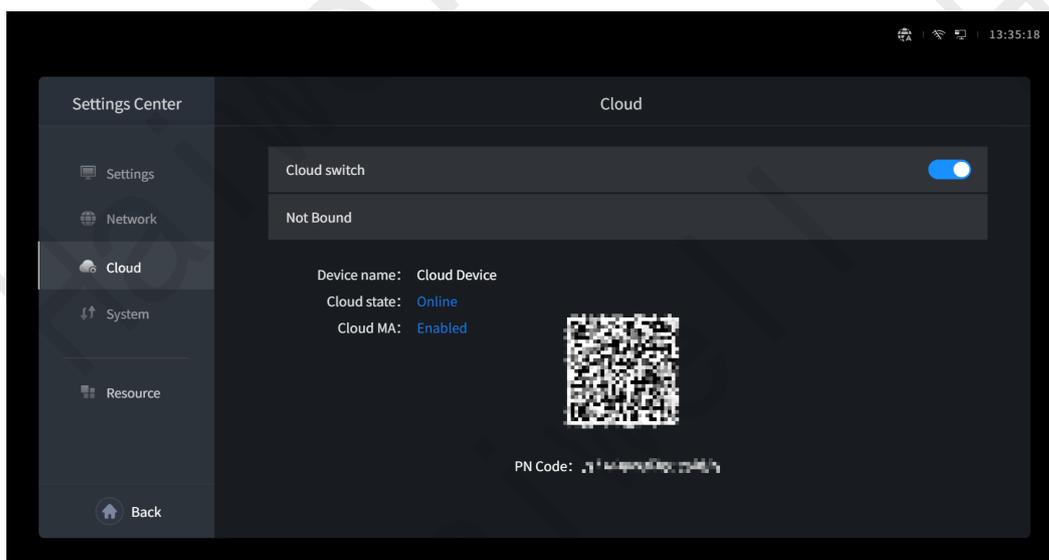


Figure41 Cloud Settings

Cloud settings are mainly used to bind devices as personal or enterprise devices, facilitating users'

remote monitoring or centralized management. The prerequisite for using this function is to ensure that the device can access the Internet normally. If the device is not connected to the network, please refer to the [3.2 Network Settings](#) first and configure the device's network.

(1) Mobile Phone Cloud APP/ WeChat Applet Download

① APP

Scan the QR code to obtain it directly.



Figure42 Download the QR Code of Haiwell Cloud APP

② WeChat Mini Program

Search Xiamen Haiwell on WeChat official account, click Send Message, select Hotspot - applet in the chat box, and you can directly enter Haiwell APP.

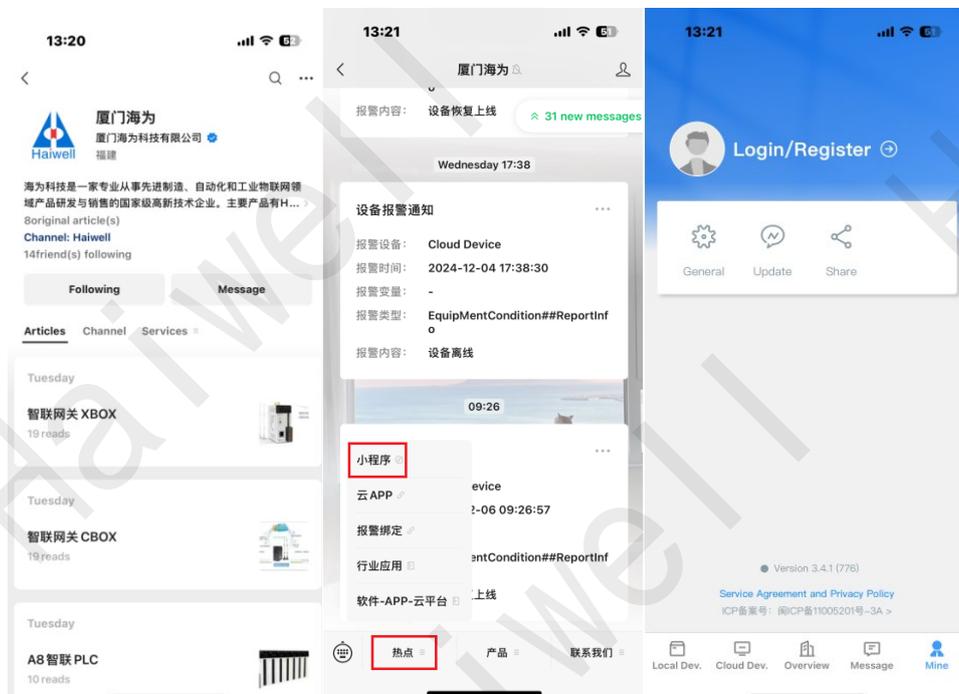


Figure43 Download the QR Code of Haiwell Cloud APP

Note: The WeChat mini program does not have a local device and requires downloading the Haiwell APP.

(2) Haiwell Cloud APP/WeChat Mini Program Scan Code to Bind QR Code

Enter the TVBOX background settings interface, click on **【Cloud Settings】**, turn on the cloud switch, and a QR code and machine code will pop up. If the cloud status shows offline, please check if the TVBOX has successfully connected to the external network.

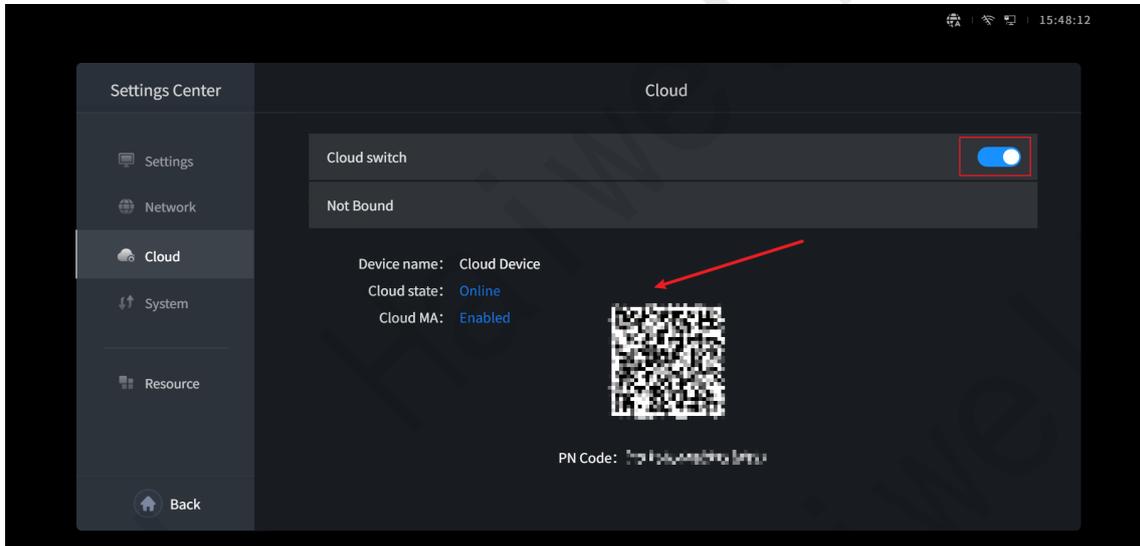


Figure44 Binding Cloud Settings QR Code

Log in to the Haiwell Cloud APP on your mobile phone, enter the local device interface, click the button **+** in the upper left corner of the main interface, and then click on the dropdown menu to scan. Scan the QR code to add the device. A confirmation binding prompt box pops up on the device, click **【Confirm】**, the device is successfully added, and the user can remotely access the device.

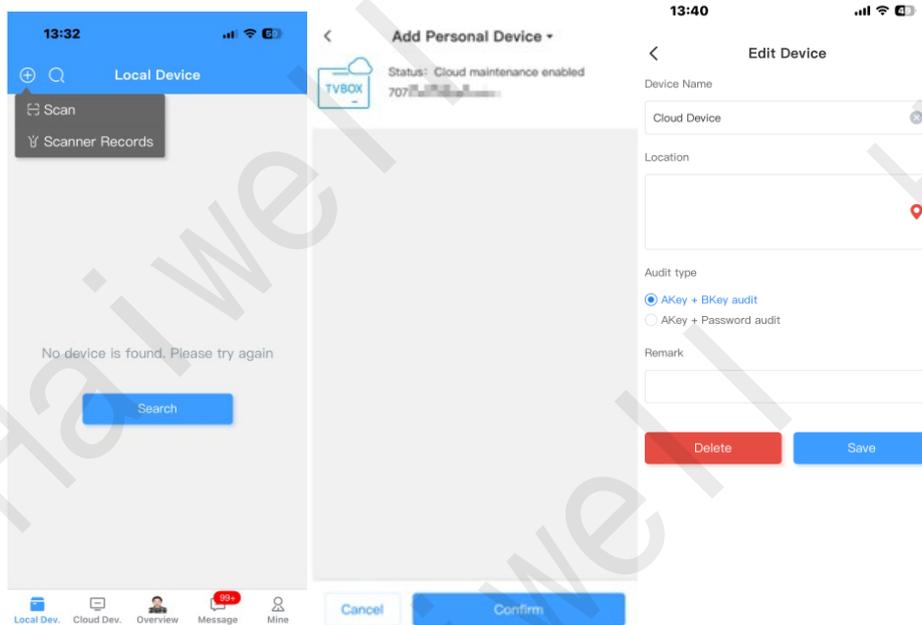


Figure45 Binding Device to Mobile APP

When the binding application is sent, a message pop-up will appear in the upper right corner of the TVBOX. If the user does not check the message in time, it will be stored in the information box, click it to expand the messages, shown in the following figure.

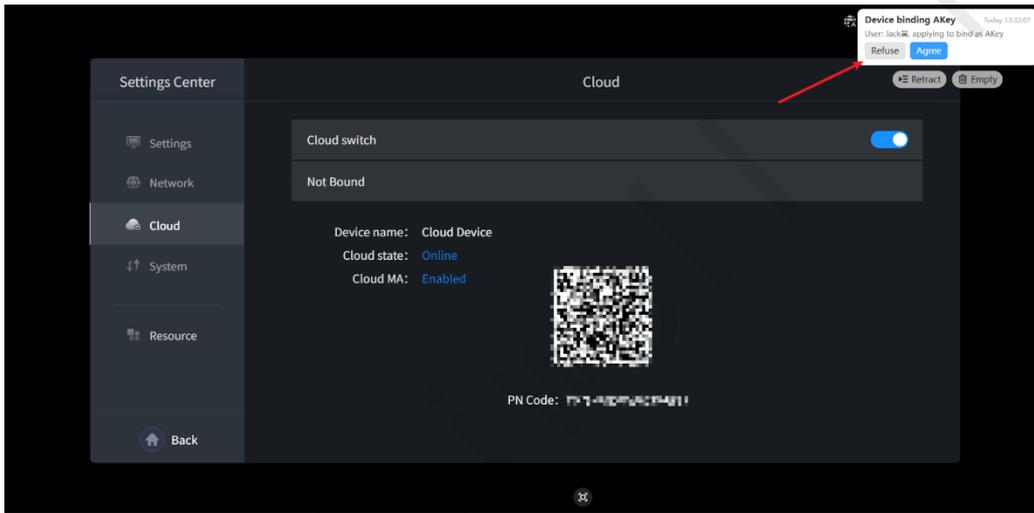


Figure46 Binding Application

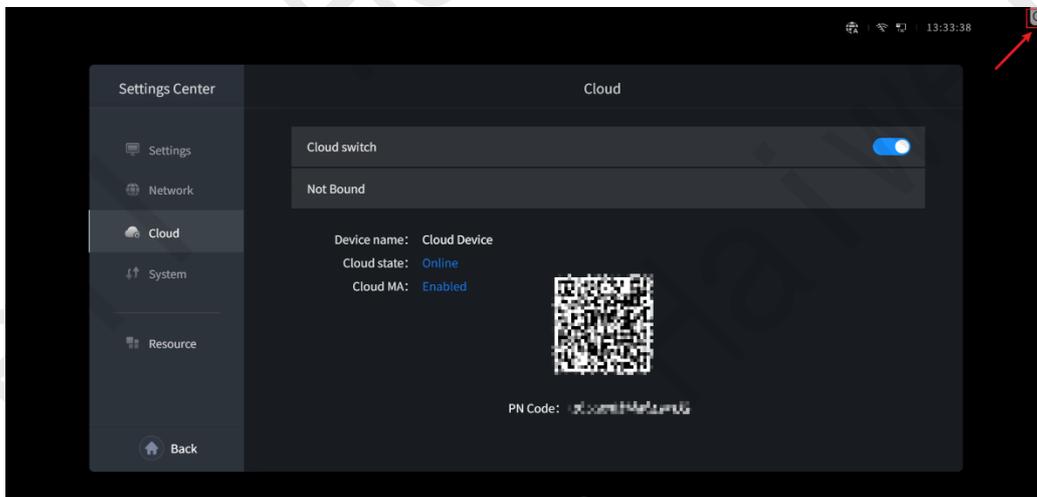


Figure47 Message Box

When the binding is completed, the user can click the  to view the detailed information of the binding personnel.

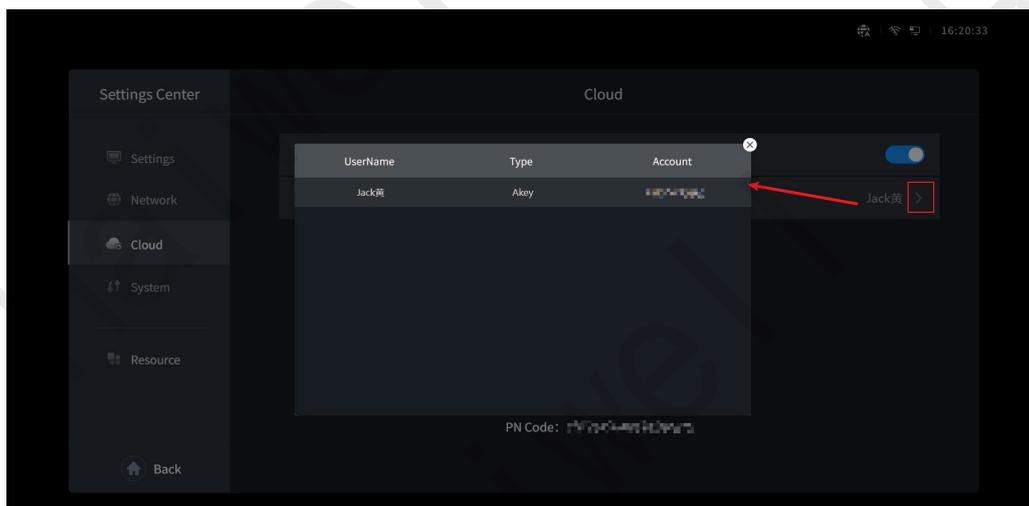


Figure48 View Binder Information

(3) Remote Monitoring and Control

Open the Haiwell Cloud APP on your phone and enter the cloud device; Find the corresponding device

and click on **【Access】** in the bottom right corner to remotely access the device. If the current project allows remote operation, users can control the device remotely through their mobile phone.



Figure50 Remote Access to TVBOX Screen Via APP

3.4 System Setting

In this interface, users can view all the detailed parameter information of TVBOX, such as network information, hardware information, etc.

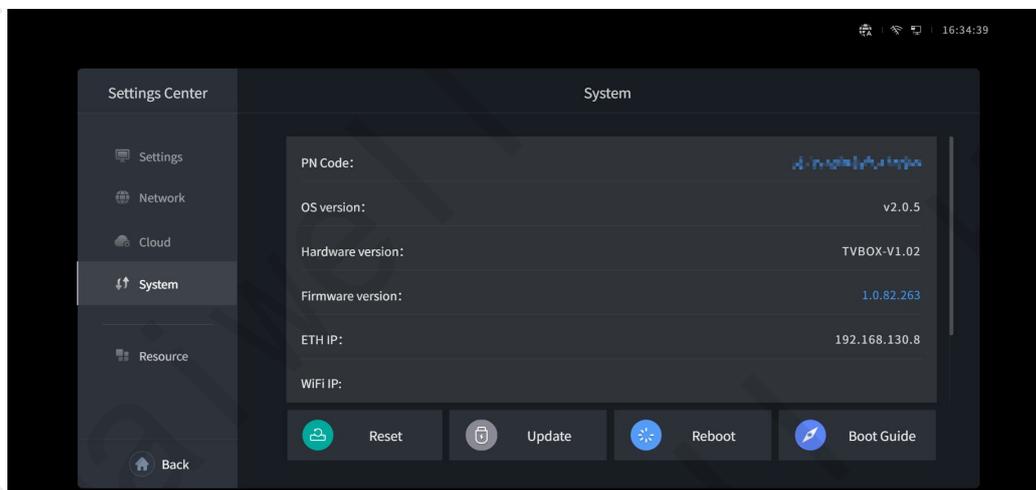


Figure51 Parameter Information of TVBOX

(1) Reset

Users can click the icon to restore the factory Settings of TVBOX.

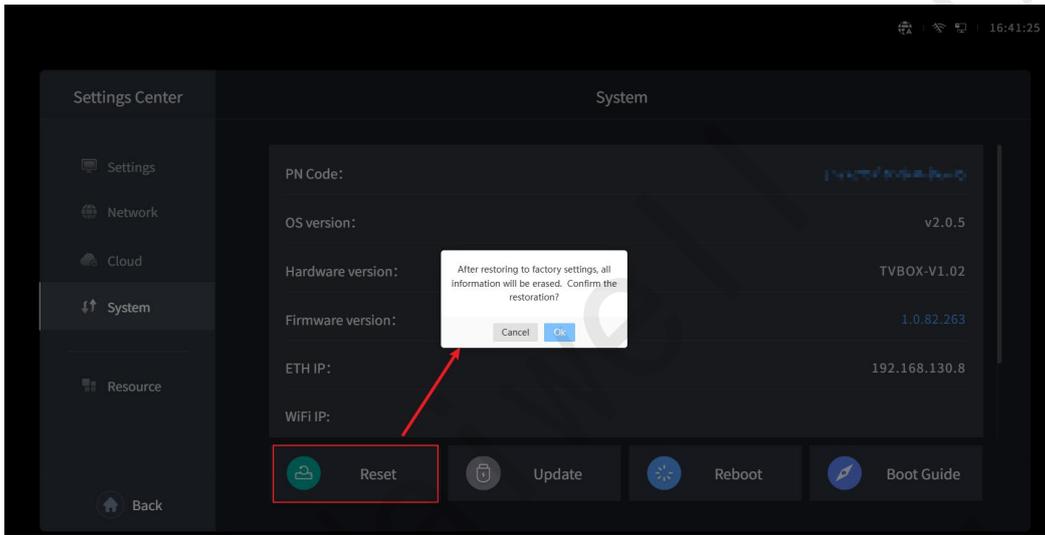
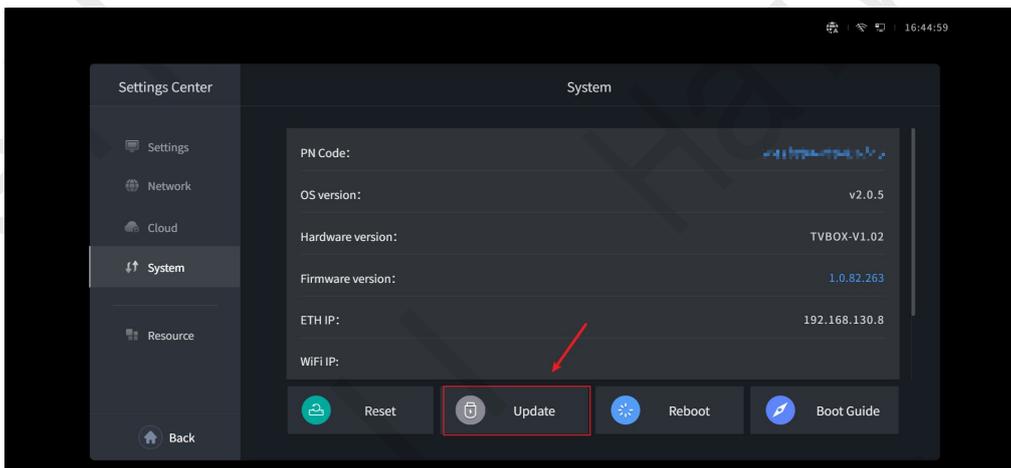


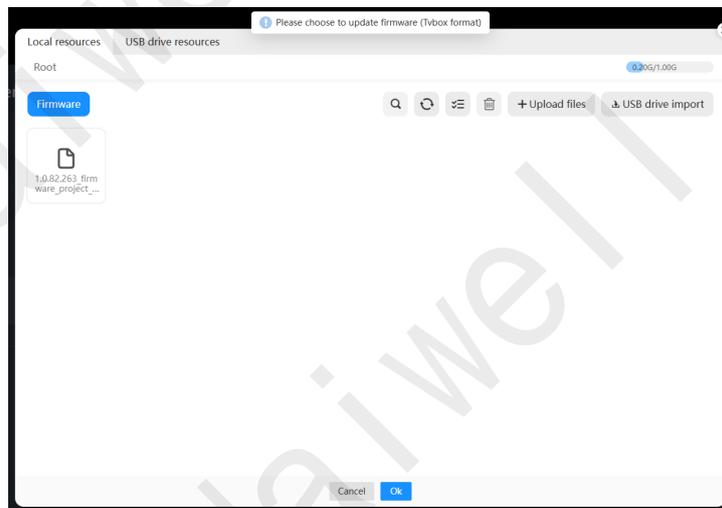
Figure52 Factory Data Reset

(2) Update

Users can click on this icon to update the firmware of TVBOX. TVBOX firmware packages can be saved locally or on an external USB flash drive.



(a)



(b)

Figure53 Firmware Upgrade

(3) Reboot

Users can click the icon to restart TVBOX.

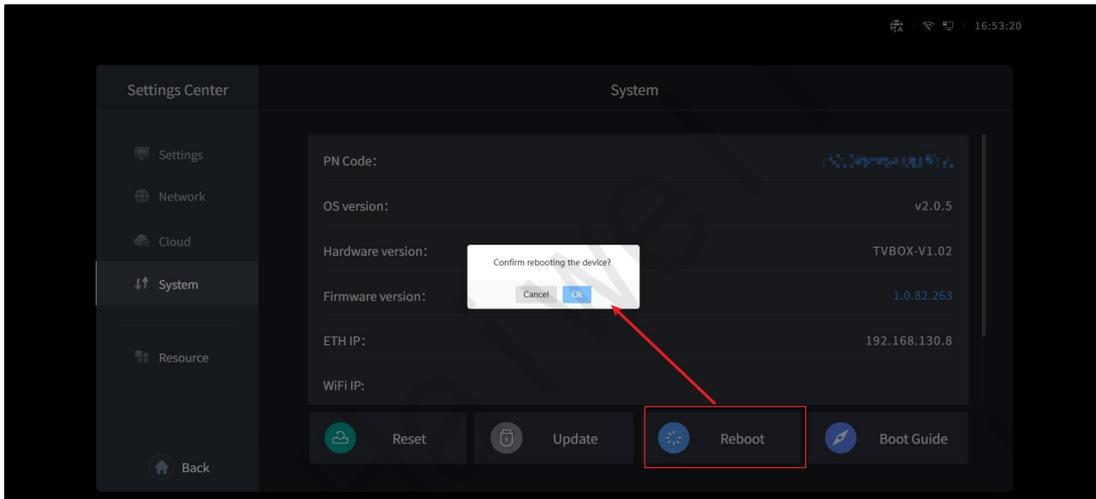


Figure54 Restart TVBOX

(4) Boot Guide

Users can click on the icon to re-enter the TVBOX initialization configuration teaching interface.

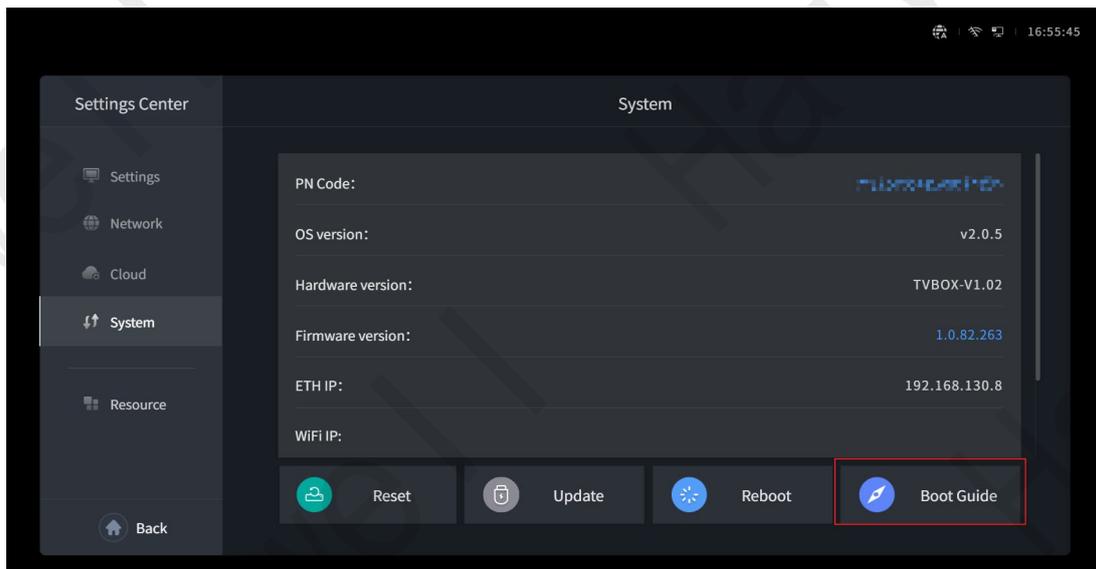


Figure55 TVBOX Initialization Configuration

3.5 Resource

Users can manage all files in TVBOX through the resource manager, and upload files to TVBOX via a computer or import files to TVBOX through a USB flash drive.

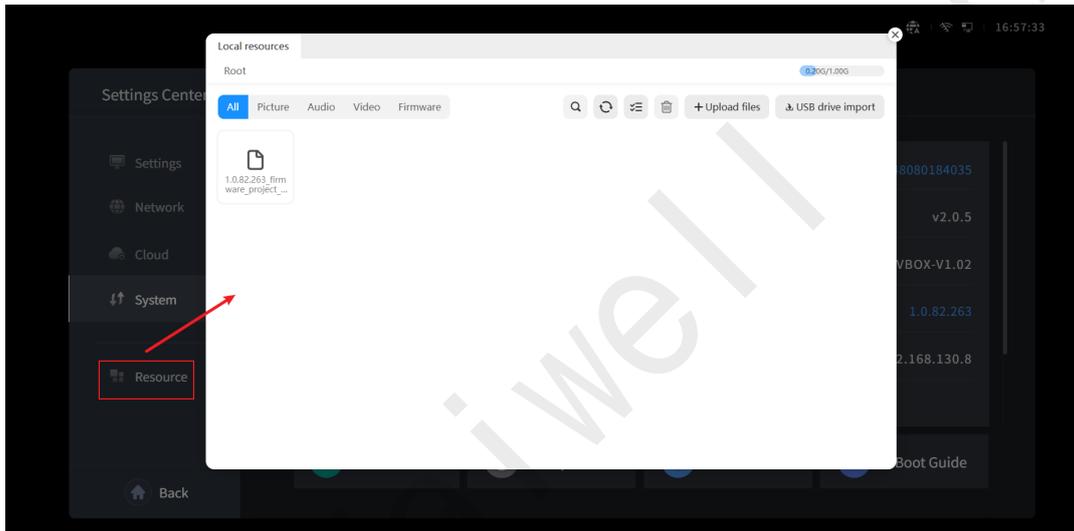


Figure56 TVBOX Resource Manager

VI. Device Management Tool

Users can achieve local or remote control of the TVBOX through the device management tool in Haiwell SCADA.

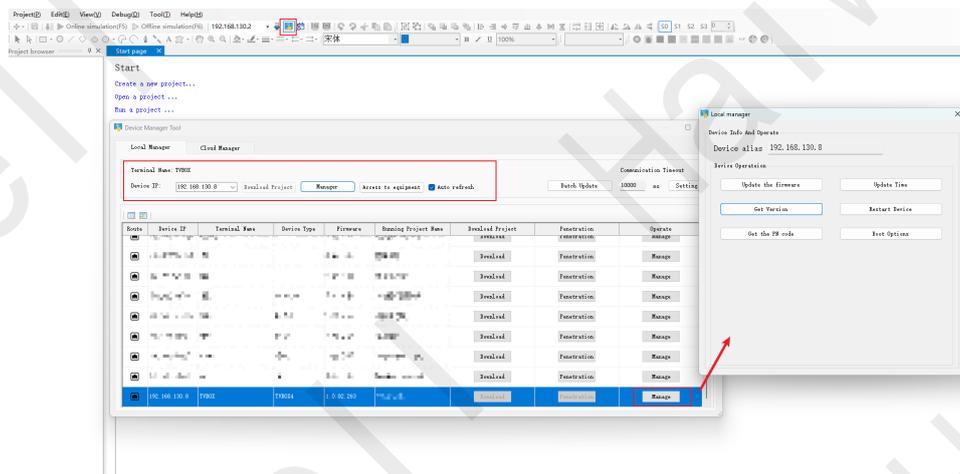


Figure57 Device Management Tool

1. Update the Firmware

Users can update the firmware of their SmartLink devices through this channel under the guidance of professionals.

- (1) Select the required SmartLink devices.
- (2) Click **【Update Firmware】**.
- (3) Choose need to update the firmware update, pop-up prompts the current device firmware and will update the firmware version, as shown in Figure 58.
- (4) Click on **【OK】**, waiting for the updated environment to complete, updated, as shown in Figure 59.
- (5) Wait for the update to complete, and the prompt "Update successful!" will pop up, click **【OK】**, as shown in Figure 60.

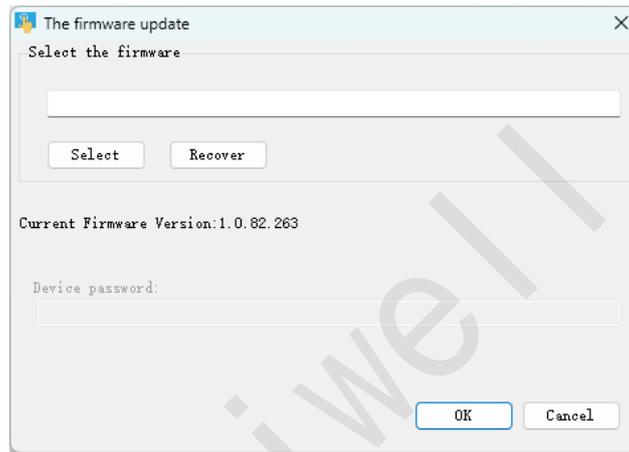


Figure58 Select Update Firmware

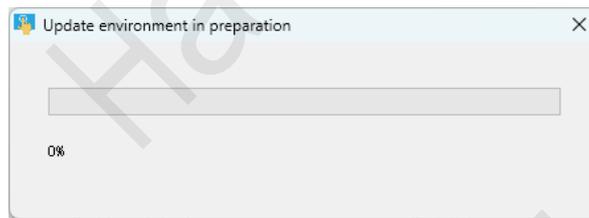


Figure59 Wait for the Update to Complete

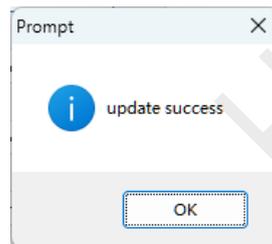


Figure60 Update Complete

2. Update Time

Update time mainly updates the time on the device.

- (1) Select the required SmartLink devices.
- (2) Click **【Update Time】** to update the system time of the device, and check the device time after the update is successful. The time is consistent with the system time of the PC side.

3. Detect the Version

The detection version will check the software version, hardware version and OS version information of the SmartLink device in the current software environment, as shown in Figure 61.

- (1) Select the required SmartLink devices.
- (2) Click **【Get Version】** to view the software and hardware version information of the current device.

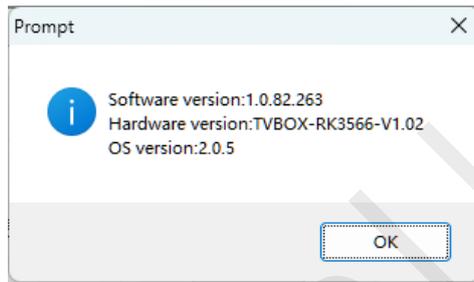


Figure61 Detection Version

4. Restart the Device

- (1) Select the required SmartLink devices.
- (2) Click **【Restart Device】**, and a confirmation restart prompt box will pop up and click **【OK】**, as shown in Figure 62;
- (3) Wait for the device to restart. After the restart is successful, a "Successful Restart" prompt box will pop up, and click **【OK】**, as shown in Figure 63.

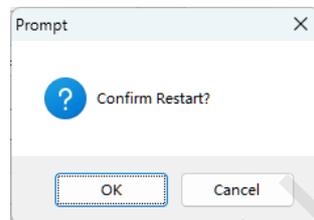


Figure62 Restart Prompt

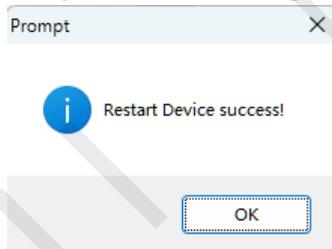


Figure63 The Device Restarts Successfully

5. Get the PN Code

Getting a PN code is mainly about getting the PN code on your device.

- (1) Select the required SmartLink devices.
- (2) Click **【Get the PN code】**, to view the current Device of PN code, as shown in Figure 64.



Figure64 Get the PN code

6. Boot Options

Users can click on the **【Boot Options】** in the management interface to customize the startup screen, as shown in Figure 65.

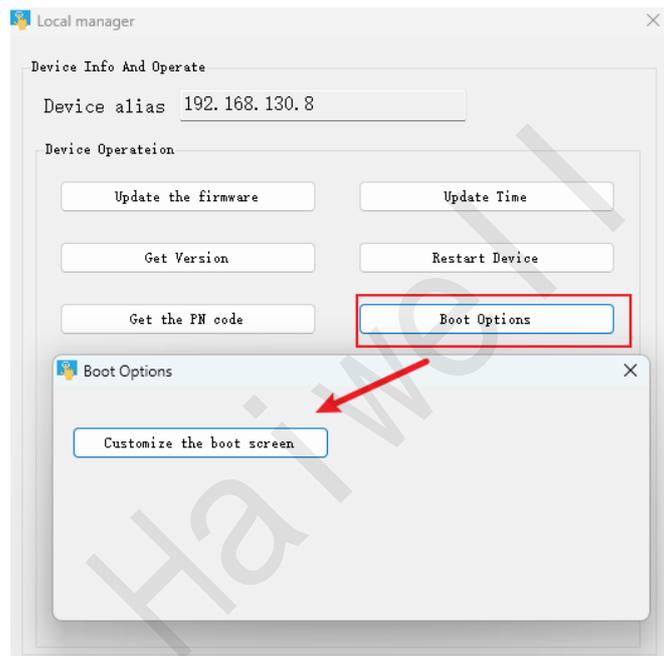
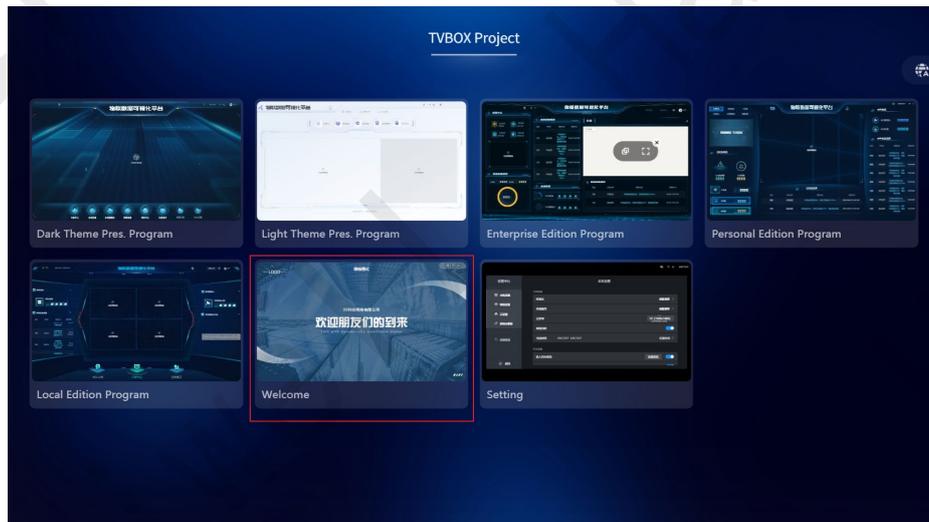


Figure65 Customize the Startup Screen

VII. Welcome Page

TVBOX built-in a variety of welcome screen, support users to modify the welcome content, suitable for festivals, customer visits, conferences and other scenes.



(a)



(b)

Figure66 Welcome Page

(1) Select the Template

The user can click on this icon to select the desired welcome template.



Figure67 Select the Template

(2) Screen Selection

Users can click the icon to select the screen that TVBOX needs to display.



Figure68 Screen Selection

(3) Edit the Welcome Page

Users can click the icon to enter the editing interface of the welcome page.

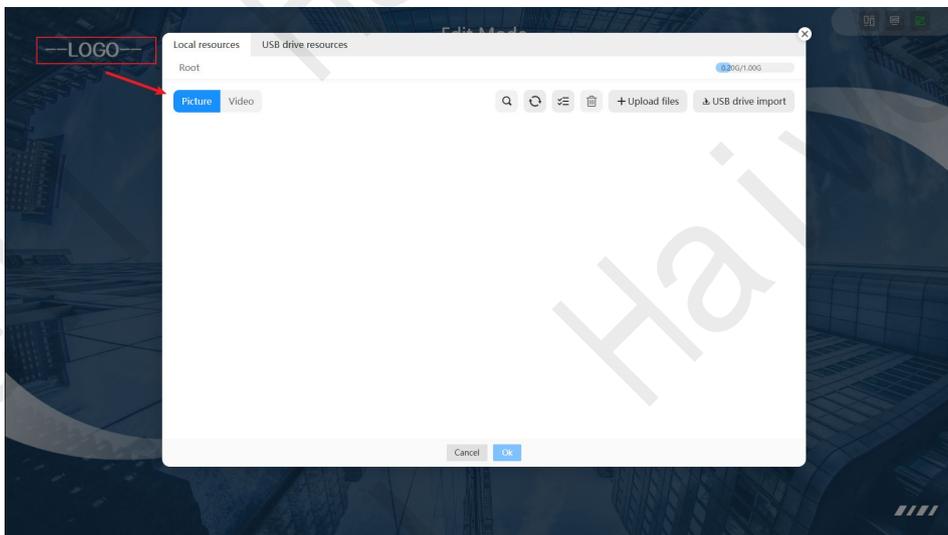


Figure69 Edit the Welcome Page

When the icon turns green, it is in the edit state, and the user can edit and customize the elements in the screen. **Note: Different templates have different editable elements and positions, so users can choose what they want.**



(a)



(b)

Figure70 Edit Status

When the user finishes editing, click the icon again, and the icon is restored from green to white, and the pop-up prompts to save successfully, the editing is completed and saved.



Figure71 Finished Editing

VIII. Screen Binding Instructions

Users can click on different TVBOX screens to associate different displays. The specific options that can be associated with the standard version and the normal version are different, as shown in the following figure. **(Only the Pro version has the picture carousel function)**

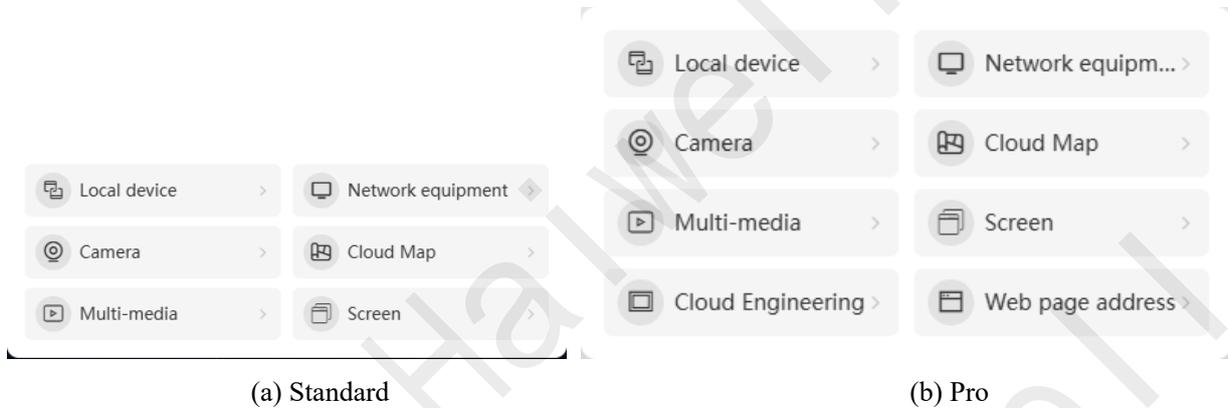


Figure 72 Binding Options

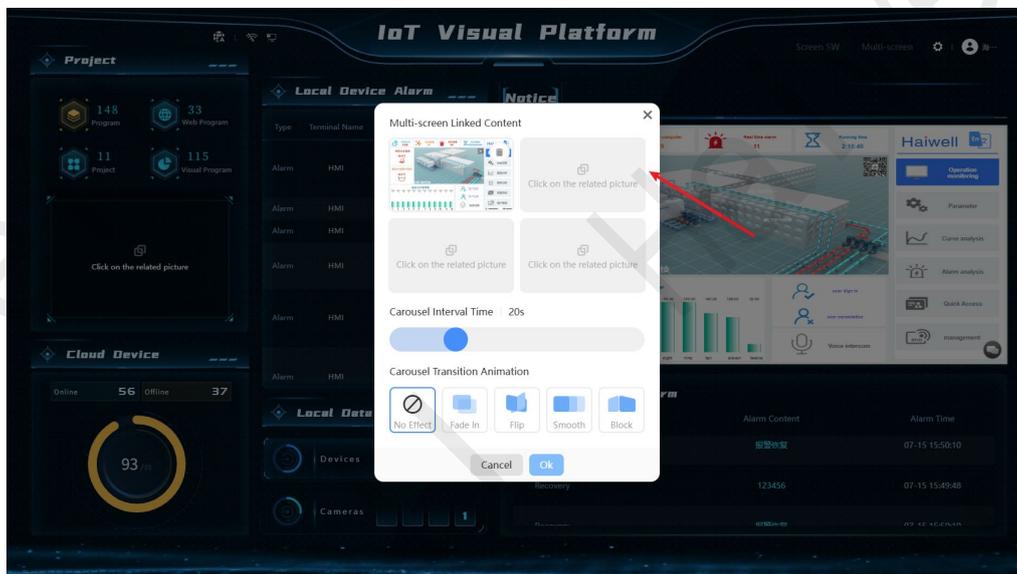


Figure 73 Screen Carousel Function

Note: Users can choose the content of the carousel, the carousel mode and the switching time.

1. Local Device

TVBOX will automatically search for Intelligent devices in the local area network. Users can select the local devices they need to associate. Once the association is successful, users can view and control the corresponding local devices.

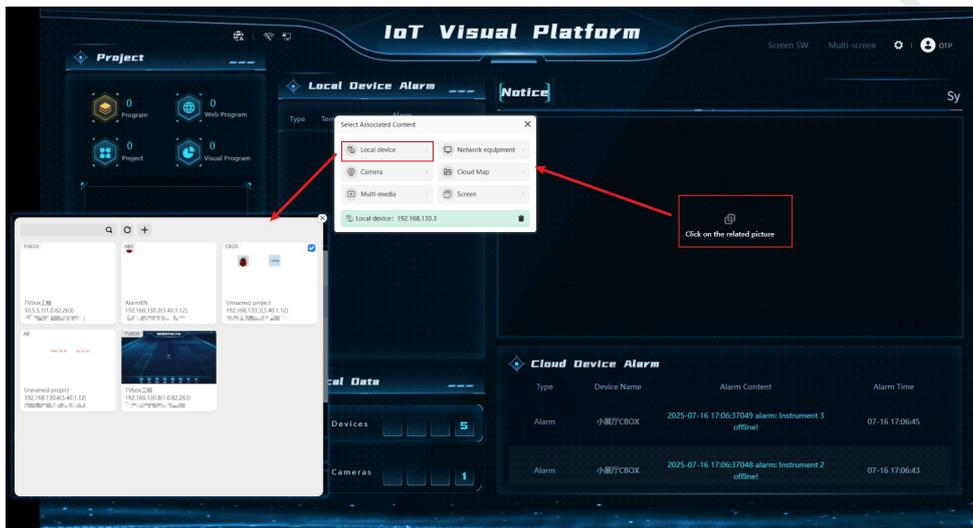


Figure74 Local Device

2. Cloud Device

After the user logs in to the Haiwell account, the user can choose the cloud devices that need to be associated under the account. After the association is successful, the user can view and control the corresponding devices. For user login, please refer to [3.3 Cloud Settings](#).

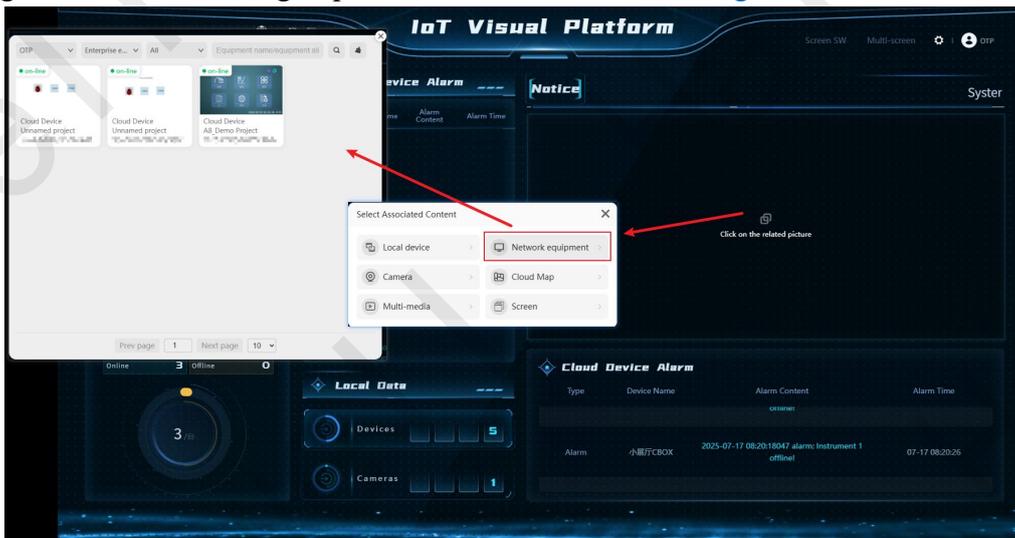


Figure75 Cloud Device

3. Camera

TVBOX supports binding RTSP cameras in the local area network.

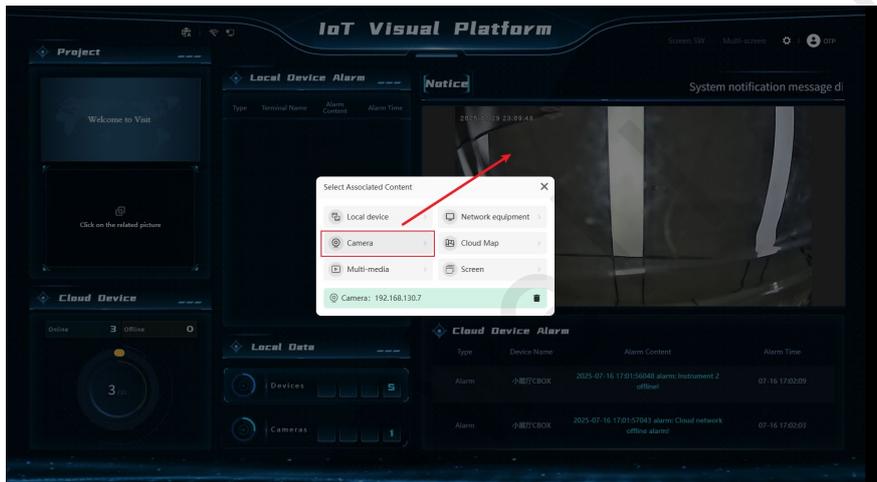


Figure76 Camera

When a user binds a camera for the first time, they need to log in with the camera account.

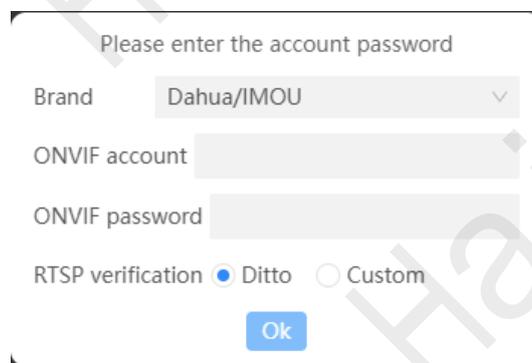


Figure77 Log in Camera Account

If the user's camera brand is not on the list, they can choose RTSP verification - **【Custom】** and enter the correct RTSP account of the camera to connect to the live feed of the camera.

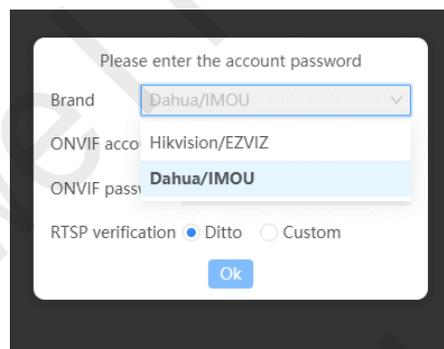


Figure78 Camera List

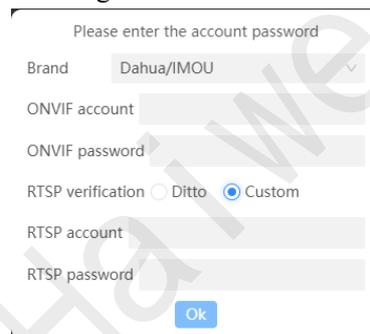


Figure79 RTSP Account

4. Cloud Map

Users can bind the cloud map to the TVBOX to view the map information.

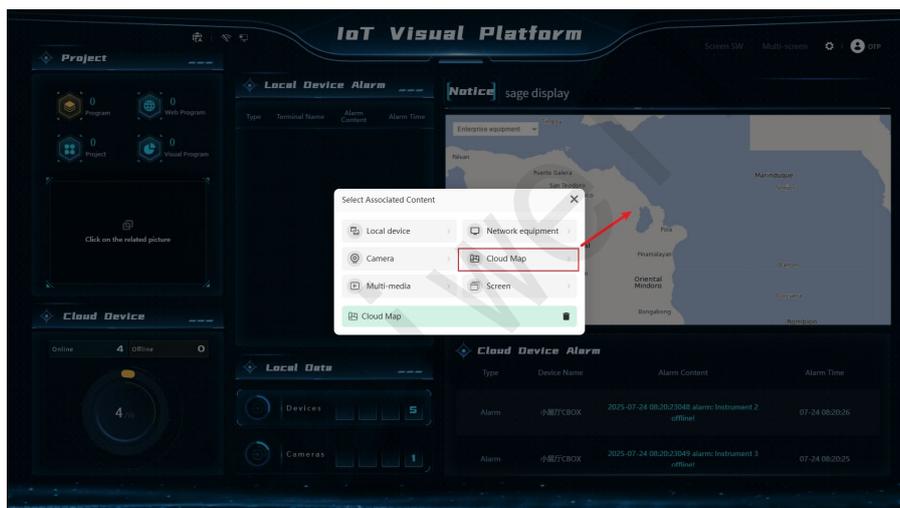


Figure80 Cloud Map

5. Multi-media

Users can associate video files in the TVBOX screen, and can play videos in the screen. Media files can be stored inside the device or on an external USB flash drive. Users can refer to [3.5 Resource](#).

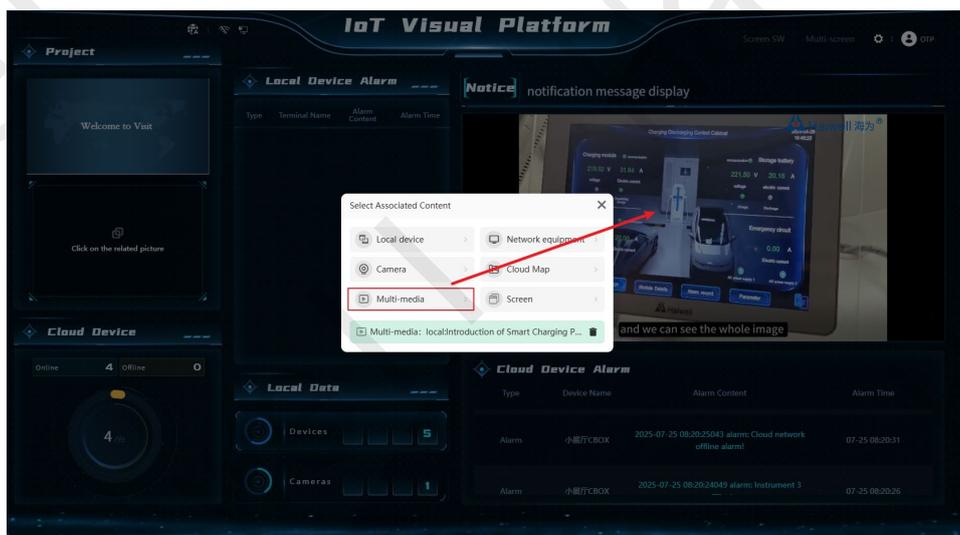


Figure81 Media Files

6. Screen

Users can associate other display screens in the TVBOX screen to achieve multi-screen display at the same time. **Note: Up to two views can be bound simultaneously, and the currently displayed view itself cannot be bound.**

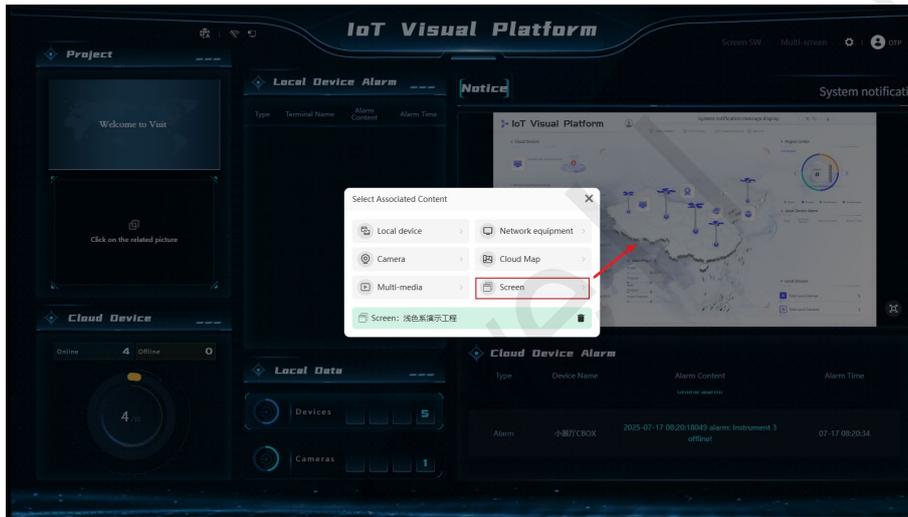


Figure82 Multi-screen Display

7. Cloud Engineering

In the Pro version of TVBOX, users can bind and display Web SCADA projects created in enterprise accounts on the cloud platform to views.

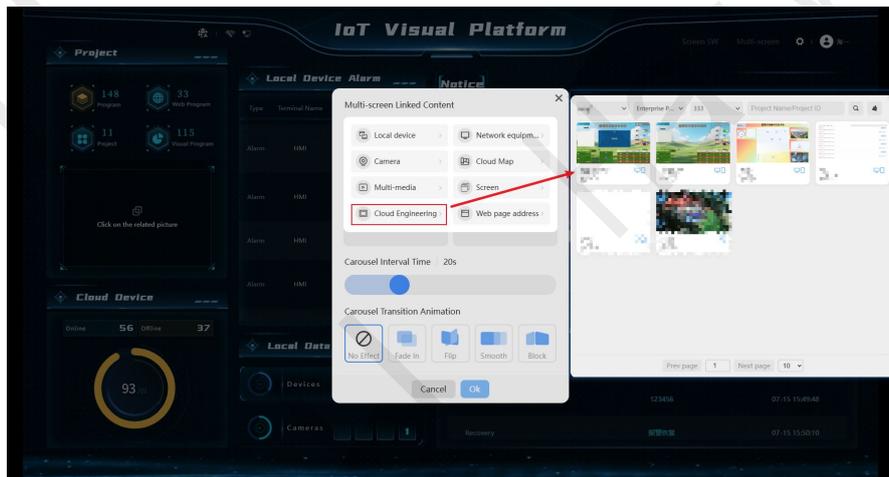


Figure83 Cloud Engineering

8. Web Page Address

In the Pro version of TVBOX, users can embed third-party web pages into the screen display.

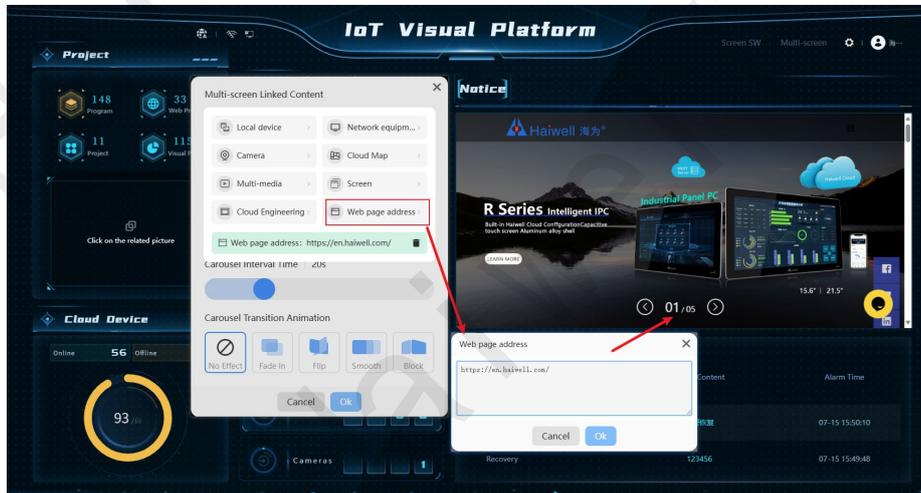


Figure84 Web Page Address

IX. Notes

1. TVBOX4 only supports viewing cloud projects and does not support split-screen association with cloud projects.
2. TVBOX4 Pro supports association with cloud projects, third-party web pages, and carousel functions.
3. After the WIFI function is enabled, the TVBOX4 hotspot will restart. Please ensure that your mobile phone is connected to the correct TVBOX hotspot to ensure normal control of the TVBOX.
4. When TVBOX is connected to both WIFI and Ethernet at the same time, it is recommended that WIFI and Ethernet not be in the same network segment to avoid conflicts and network abnormalities. You can change the network segment of one of them or unplug the Ethernet cable.