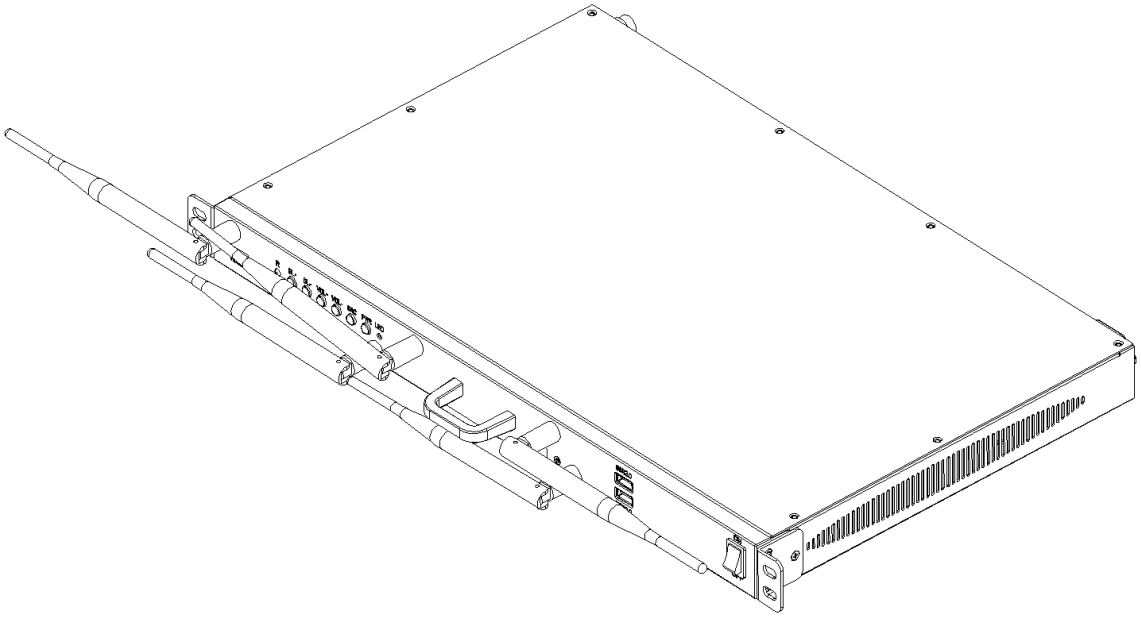
AI BOX 410 User manual of the control box



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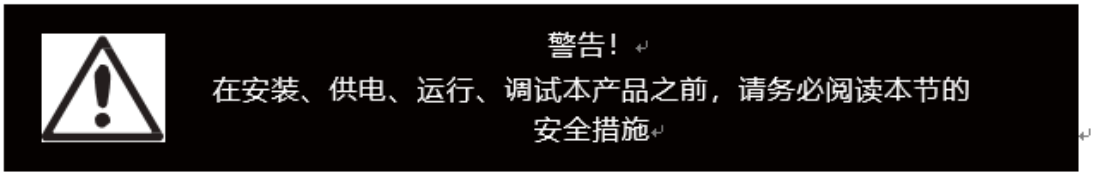
security information



The following markers are used in this product and manual to mark important safety signals.

warn! security risk! It may lead to equipment damage or safety risk	warn! Read the user manual before the operation	warn!dangerous voltage! May cause equipment damage or electric shock

Warning: Be sure to understand and follow all safety guidelines, safety instructions, warnings and precautions in this manual.

This product is only used for professionals' operation!

This product may lead to combustion, electric shock and fall.

Read this manual carefully before installing, supplying power, running and commissioning this product.

Follow the safety instructions on the manual and on the product. If you have any questions, please ask Absen for help.

Beware of electric shock!

To prevent electric shocks, the equipment must be properly grounded during installation. Don't ignore the ground plug

The function of the head, otherwise the danger of electric shock will occur.

In case of lightning, please disconnect the power supply of the equipment, or provide other applicable lightning protection protection

protect. If the device is not used for a long time, please unplug the power plug.

Close the main switch during any installation and repair work (e. g. removing the fuse).

When not using the product, or before disassembling or installing the product, please disconnect the AC power supply.

AC power used must comply with local building and electrical codes and must be equipped with overload

And ground fault protection.

The main power switch shall be installed close to the product and at obvious and easily accessible

square. This can timely disconnect the power supply in case of failure.

Before using this product, check all distribution equipment, cables and all connections devices

current requirements.

Use the appropriate power cord. Please use appropriate power supply after budget power and current

Line, and ensure that the power cord is not damaged, aging, damp, found any overheating phenomenon, please immediately renewal.

For other questions, please consult with professionals.

Beware of fire!

To avoid fire due to overload of power cable, protect with circuit breaker or fuse.

Maintain good ventilation around the screen, controller, power supply and other products, at least 0.1 m apart from other items space.

Do not hang any items on the screen.

Do not modify the product, do not add or subtract parts.

Do not use it at ambient temperatures above 55 ° C.

Beware of injury!

Warning: Manufacturers are not responsible for incorrect, inappropriate, irresponsible, or unsafe system assembly behavior.

Handle the product

For detailed information on collection, reuse and recycling, please contact the local or regional waste management unit.

For more details of the environmental performance of our products, please contact us.

1. Product introduction

1.1 Attached accessories

Power supply line x1	Mini USB Line, x1	Network cable x1	The HDMI line, x1
Remote control, x1	Antenna x 5	Wireless screen projector * x 2	

* Wireless screen projector is optional and needs to be purchased separately. For details, please refer to the all-in-one configuration list.

1.2 Product Overview

AI BOX 410 Control box is a 4K ultra HD control box, which is a meeting screen control box developed based on Android system. It integrates the functions of sending card and Android system card, and is compatible with OPS Windows function. It supports Windows, Mac OS, IOS and Android multi-platform terminal wireless screen casting, with up to four screen screen casting. At the same time, for different conference application scenarios, the four scenarios are provided, so that the document demonstration, video playback, remote meeting, can match the best display effect.

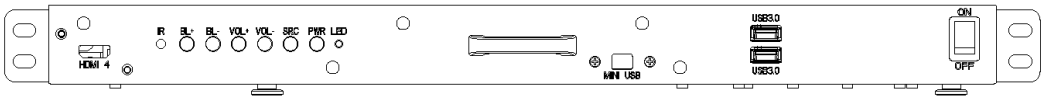
.3 1 Product features

- Max support for display with 38402160@60Hz resolution (point-to-point display)
- 5 channels for HDMI 2.0 input (1 for connecting OPS and 1 for pure send mode).
- 1-way HDMI 2.0 output.

- 6-way USB interface, used for multimedia material playback and function expansion.
  -5 USB2.0 (2 items reserved)
  - 1×USB3.0。
- The 16-road gigabit network port output.
- 13.5mm audio output for external audio.
- Support the display screen output screen playback.
  -The input source of 19201080@60Hz can zoom out to 104104 and zoom in to 28801620.
  -The input source of 28402160@60Hz, zoom down to 104104 and zoom up to 40962160.
- The customized desktop UI system based on Android can add third-party APP applications.
- Support for multi-screen body terminal wireless screen projection.
  Including the Windows, Mac OS, IOS, and Android systems. Up to 4 wireless screen display at the same time.
- The terminal APP can realize the wireless screen projection control.
  -Mirror reverse control: the speaker reverse controls the LED meeting screen through the terminal.
  -Wireless snapshot: Wireless screenshots at any time through the terminal, recording the details of the meeting.
  -Wireless speech: Participants speak directly through the terminal microphone, and the voice can be wirelessly transmitted to the sound system of the conference screen.
- Support for local, online HD video playback.
  Support for the HEVC / H.265/H.264 and other mainstream coding formats of 4K ultra HD video decoding.
- Dual WiFi mode.
  Wifi morning and wireless hotspots can be opened simultaneously.
- Support the picture quality and effect adjustment.
  Provide standard, soft, cinema, video 4 scene mode, and can customize the brightness, saturation, contrast and other parameters.
- Support one key to open the eye protection mode.
- Support for whiteboard writing and annotation.
- Supports Bluetooth 4.0.
  Can connect the Bluetooth remote control, Bluetooth mouse, Bluetooth keyboard, Bluetooth audio and other common peripherals.
- Reserve OPS host control interface to realize OPS host switch control.
- Compatible with mainstream conference peripherals, including cameras, audio, laser pointer, etc.
- HDR function
  Support for HDR10-Optima and HLG. Restore the video to express the brightness range and color space, is the picture is more realistic.
- Picture quality engine.
  Improve the display effect from the following 3 dimensions (the specific effect is related to the drive IC):
  -Color management: manage the display color gamut to make the display color more accurate.
  -Fine gray scale (65536 step by step ash scale calibration): calibrate the 65536 ash scale (16bit) of the driving IC, optimize the low ash jump, back jump, color deviation, hemp point and other problems of the display screen, to make the display screen more uniform and delicate.
  -22bit +: Increase the gray scale of LED display by 64 times to solve the problem of gray loss in low light, make the image bright dark details richer and the display effect more delicate.

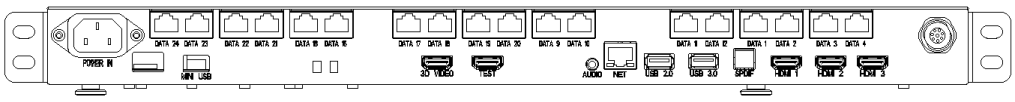
1.4 Product appearance

1.4.1 Aibox410 (front panel)



order number	Key name	explain
1	Open the key	Control box switch
2	IR	Infrared receiver, can be used for remote control
3	BL +	The LED screen brightness increases
4	BL-	The LED screen brightness is reduced
5	VOL +	The sound of the sound increased
6	VOL-	Sound sound reduction
7	SRC	Signal source switching
8	PWR	Boot / standby
9	LED	Operating status indicator, red indicates control box and blue indicates normal operation
10	Antenna interface	Up to 5 antennas, including Bluetooth, WiFi, 2.4/5G wireless hotspot antenna
11	USB 3.0	Used to insert the U disk for multimedia playback and function expansion

1.4.2 Aibox410 (Rear panel)

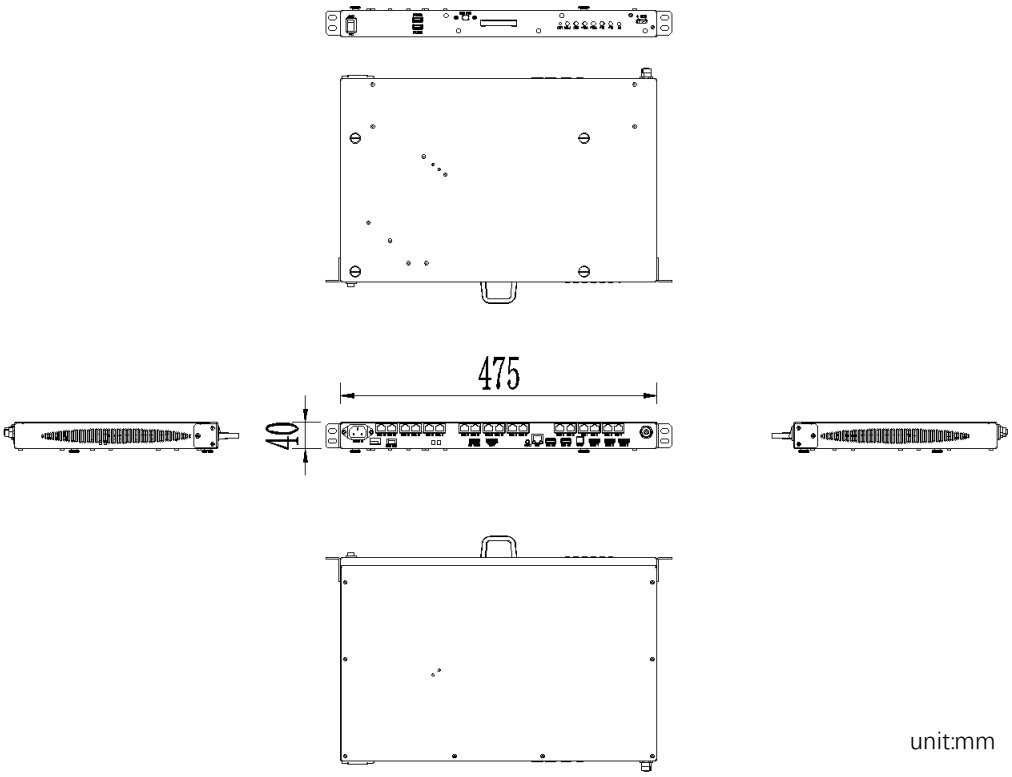


Enter the interface			
order number	The interface name	quantity	explain
1	AUDIO	1	3.5mm audio output interface, external audio equipment
2	N ET	1	The 100 million abit network port, connect to the PC communication debugging display screen or access to the wired network to achieve networking
3	USB 2.0	1	Used to insert the U disk for multimedia playback and

			function expansion
4	USB3.0	1	Used to insert the U disk for multimedia playback and function expansion
5	SPDIF	1	Fiber-optic audio output interface
6	HDMI	3	3-way HDMI 2.0 interface, which can input the HDMI signal source
7	MINI USB	1	Connect to the PC for the display configuration
8	P OWER IN	1	220V AC power input, equipment power supply
output interface			
9	DATA	16	Gigabit network port output, connect to the LED display screen,
10	IR	1	Epitaxial infrared receiver terminal interface

1.5 Product dimension drawing

The following figure is the AI BOX400 product size diagram for user reference



unit:mm

2. Product installation and debugging

2.1 Preparation before installation

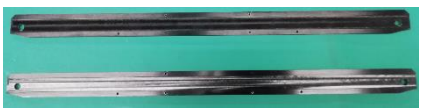
order number	name	quantity	explain

1	AI BOX410 Control box	1 pcs	a. Back-mounted control box, mount the guide structure on the back of the screen; connect the infrared extension cord to the front bread edge button panel of the display
			b. The cabinet version control box can be directly installed in the control cabinet and needs to connect the infrared extension line to the position of the display screen
2	PC / notebook (Windows System)	1 pcs	After the installation, after the meeting screen, use the computer to debug the LED screen
3	Nova LCT Control software installation package	1 pcs	NovaLCT V5.3.1 and above
4	LED, the meeting screen	1 pcs	Absenicon Widescreen series
5	AI Box 410 Attached installation guide rail, infrared extension line button panel, installation screw tools, etc	a surname	For installation of backmounted panel, infrared extension and front key panel
6	AI Box 410 Attach wire, remote control, etc	a surname	For the hardware wire connection

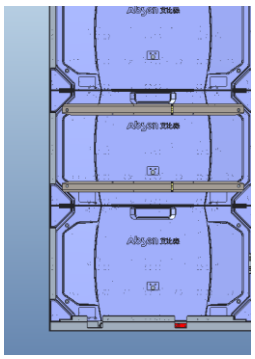
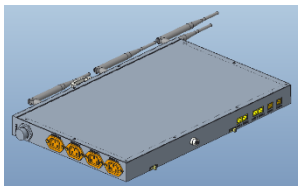
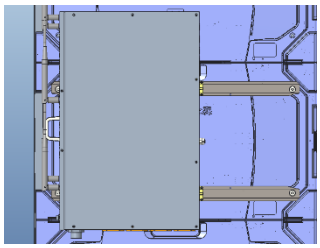
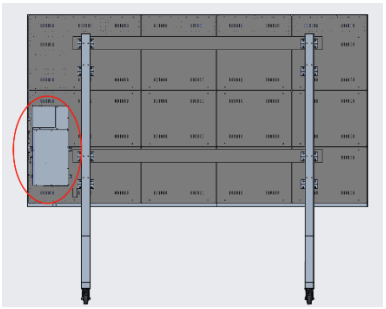
2.2 AI BOX410 (back-mounted version) installation

2.2.1 AI BOX410 (back-mounted version) structure installation

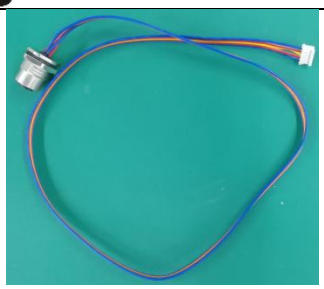
Install a list of accessories

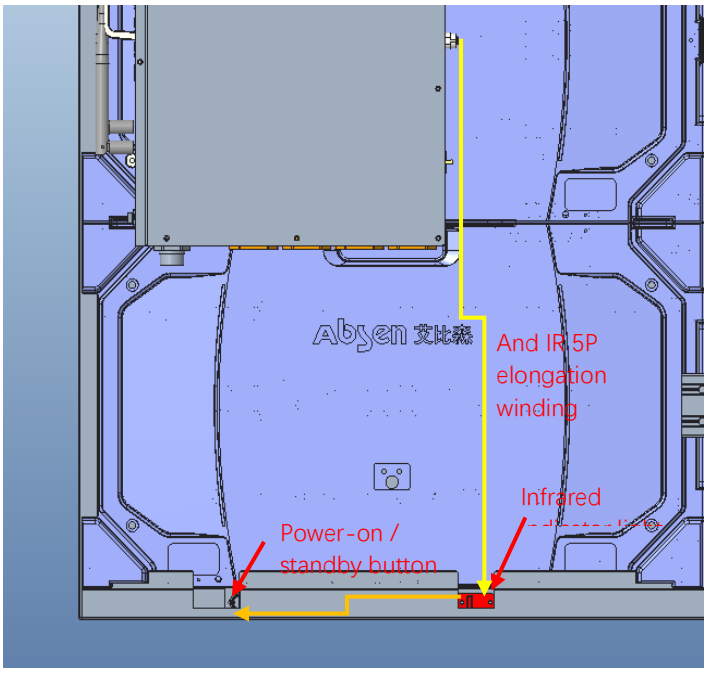
order number	Accessories name	quantity	picture	Installation location and use
1	Touch the bead card buckle	Two sets		The buckle holder is installed on the back-mounted box, and the buckle is installed on the guide rail
2	M 2.5 flat-head screw	Eight		Fixed touch bead buckle and buckle holder
3	lead rail	Two		Install on the back of the box
4	Guide track fixed screw	Four		Fixed guide rail
5	4mm hexagonal screwdriver	One		Fixed guide screw

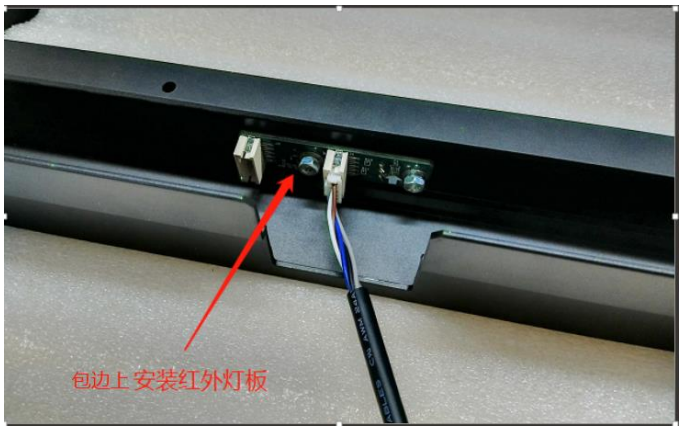
AI BOX400 (Back version) installation steps

<table>
<tr><td>step</td><td>Absenicon2.0 Conference screen + AI Box 400</td><td>Conference screen + AI Box 400</td></tr>
<tr><td>Step 1: Install the bead holder on the two guide rails</td><td> </td><td> </td></tr>
<tr><td colspan="3">Note: Place the two rails symmetrically and install the buckle holder on the front of the rail (groove surface).</td></tr>
<tr><td>Step 2: Install the guide rail on the left row of the display (on the back) and the box in the penultimate row.</td><td>  </td><td> </td></tr>
<tr><td>Step 3: Install the touch bead card on the back of the AI BOX400 (back hang) box</td><td>  </td><td> </td></tr>
<tr><td>Step 4:
Install the AI BOX400 (back-mounted) box on the guide rail and connect it to the buckle holder.</td><td>  </td><td>  </td></tr>
<tr><td colspan="3">(Note that after the control box locks in the buckle, lock the guide rail and fix the M8 screw. To test the smoothness of the guide rail, you can release the guide rail screw to fine-tune the touch bead buckle into the position.)</td></tr>
</table>

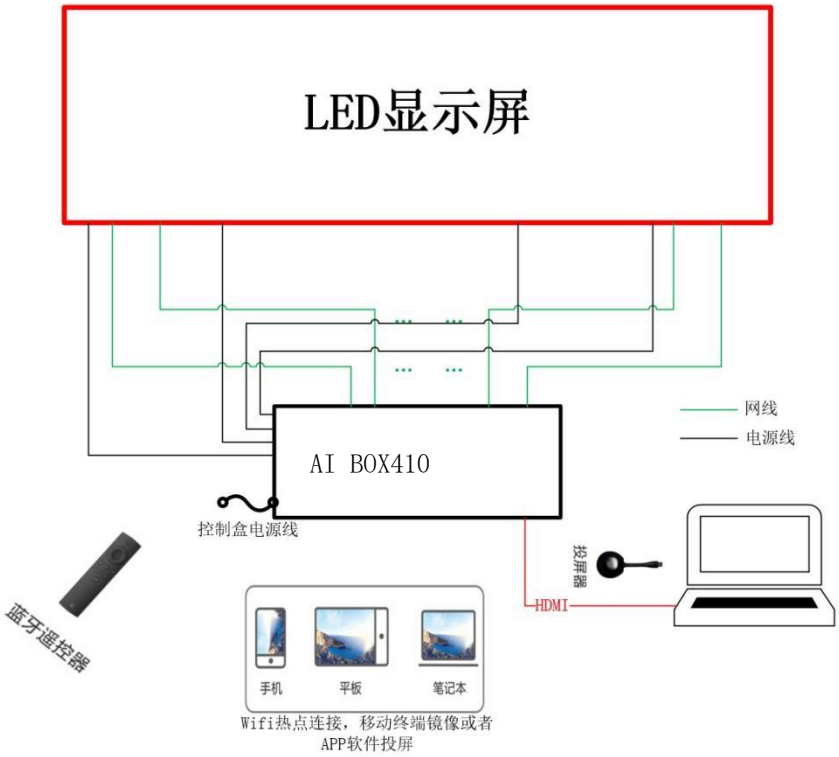
2.2.2 Installation of infrared 5P extension line and indicator light board

	
IR 5P extended line x 1pcs	Ired indicator board x 1 pcs
One-key black screen button x 1 pcs	





2.3 Connection diagram of the AI BOX410 control box



Schematic diagram of the control box connection

2.4 Use the Ai box 410 control box to debug the LED display screen

Step 1 can be connected to the computer through the USB Mini interface or through the network port.

Mode 1: USB connection, connect to the upper computer through the Mini USB port on the AI Box 400.

Method 2: network port connection, through the AI BOX 400 network port.

(The default IP of the control box is 192.168.0.10 when configuring the computer IP. AI BOX400 Control box supports network port backup, does not support device backup)

1. Connect the upper computer computer through the network port;

2. Right-click the lower right corner of the desktop to open the Network and Sharing Center.

3. Select Local Connection> Properties> Internet Protocol Version (4 TCP / IPv4), to enter the configuration IP interface.

4. Click "Use the IP address below" to configure the computer IP to the 192.168.0.2~192.168.0.254 network segment, and click OK.

Step 2 Run NovaLCT V5.3.1, click "View Device Details" to confirm that the control box is connected, log in> Synchronize Advanced Login> Display Configuration

Step 3 Set the output resolution of the control box sending card. The output resolution is set to the resolution of the display screen. After clicking the set, solidify and save

Step 4 Select the display screen connection, complete the M apping of the screen body according to the arrangement of the LED box and the signal routing, click to send it to the hardware and cure it for storage.

Note: The output port serial number is the output network port number on the control box, and the size of the receiving card is the display resolution of a single LED box.

3. Operation and use of the conference screen system

3.1 Boot-up operation

Power on the LED meeting screen and the AI Box 400 control box, press the power switch on the AI Box 400 control box to the "ON" position, the boot button in the lower right corner of the conference screen is red, then press the PWR button on the AI Box 400 control box or the lower right button of the conference screen panel, or press the boot / standby button on the remote control, the switch button in the lower right corner of the conference screen turns blue, the LED meeting screen start and enter the boot screen.

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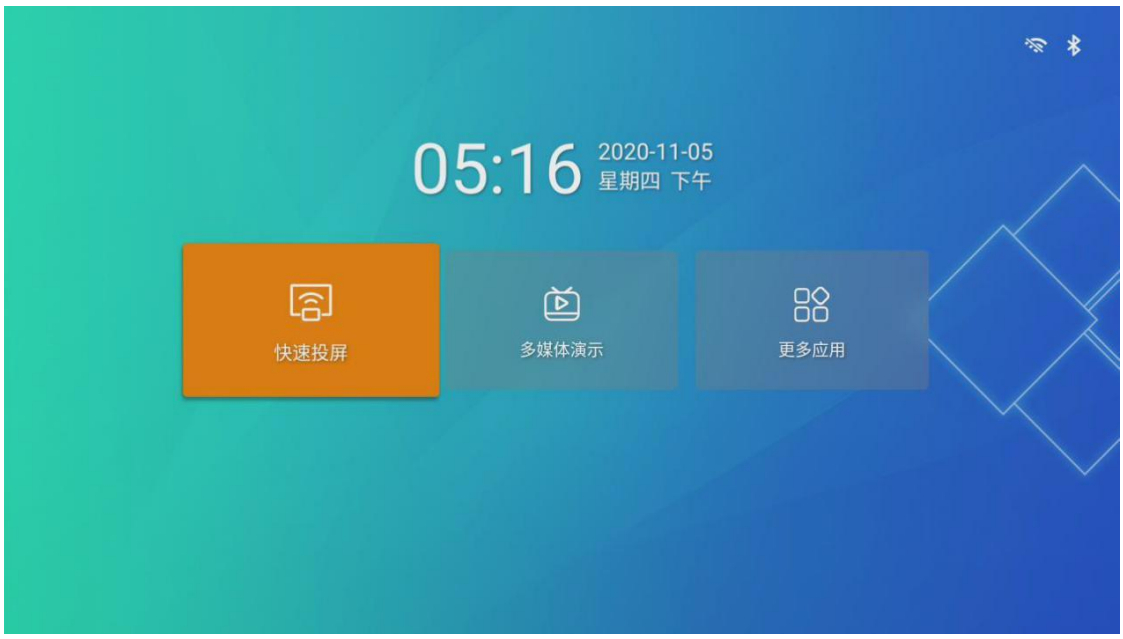
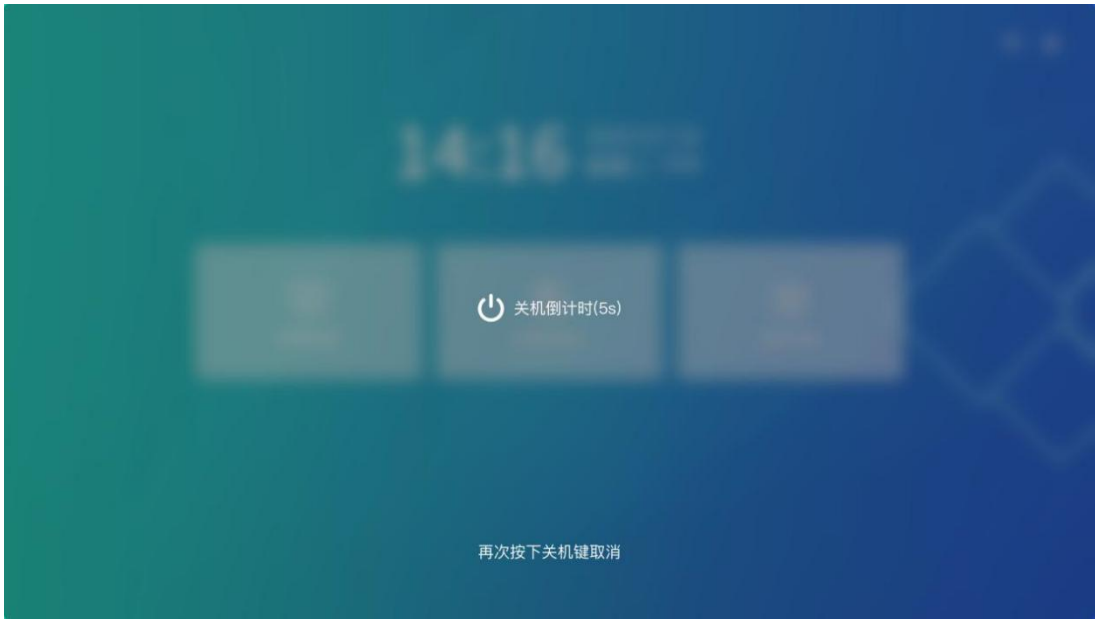


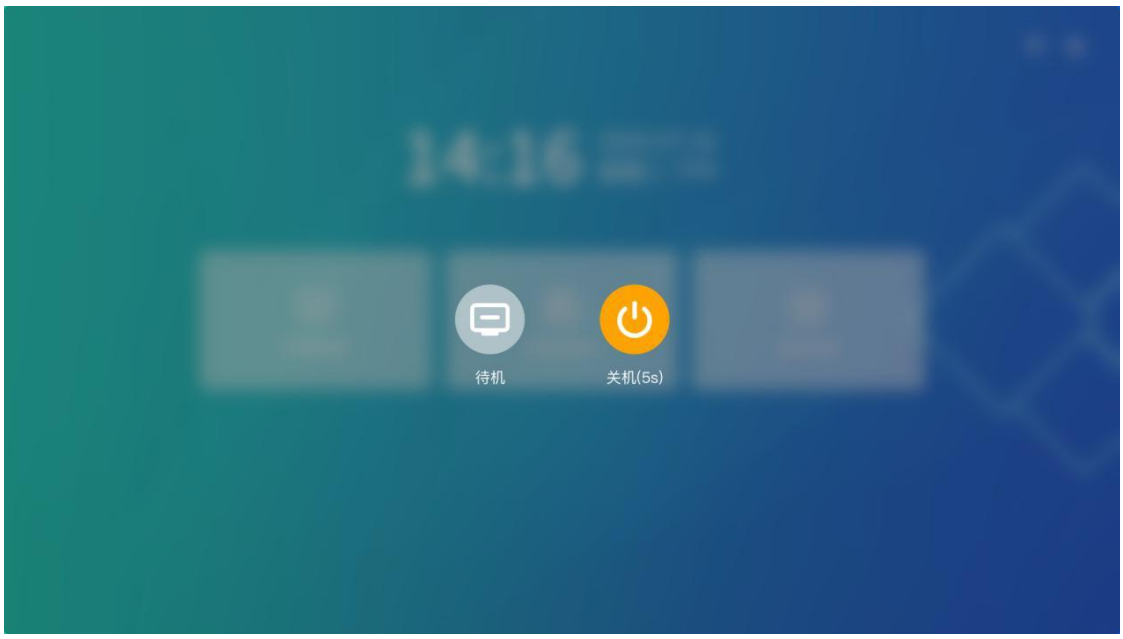
3.2 Shutdown operation

When the LED meeting screen is working normally, there are the following two shutdown operation modes.

Mode 1: Press the switch button in the lower right corner of the LED meeting screen panel, and the screen body shows "Shutdown countdown (5S)" and "Press the shutdown button to cancel" again (the switch button status indicator is red);



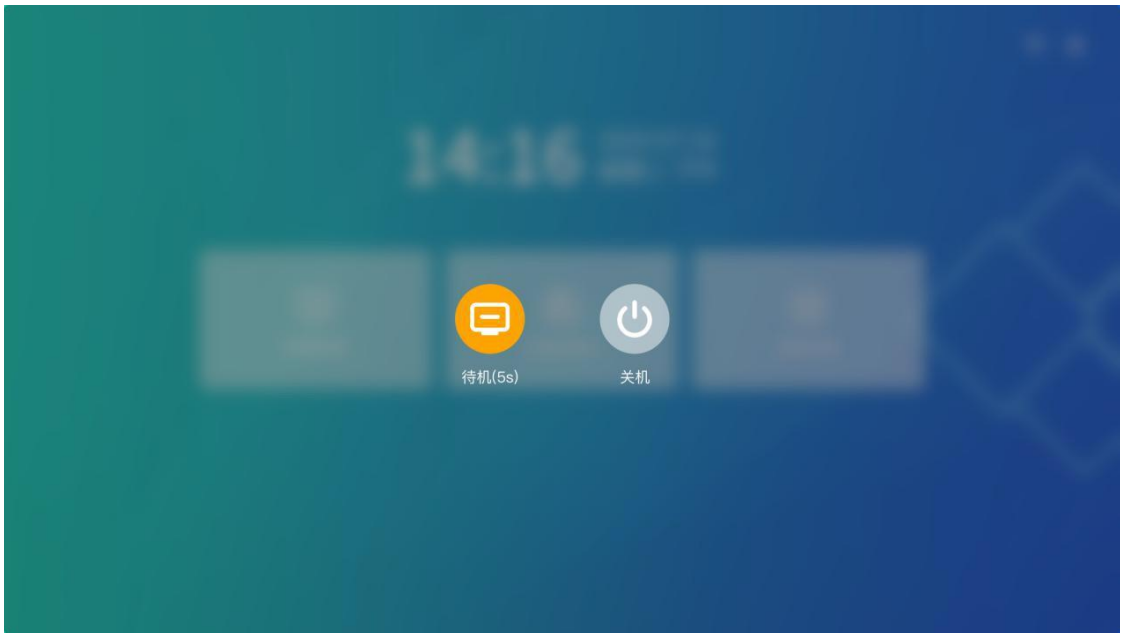
Method 2: press the power button on the remote control, the screen body display "standby (5S)" and "shutdown", select "shutdown" after the countdown 5S shutdown (switch button status indicator light red);



Complete power: Press the power switch on the AI Box 400 control box to OFF.

3.3 Standby operation

In the normal operation of the LED conference screen: press the power button on the remote control, the screen display "standby (5S)" and "shutdown", select "standby" after countdown 5S standby (switch button status indicator light blue light);



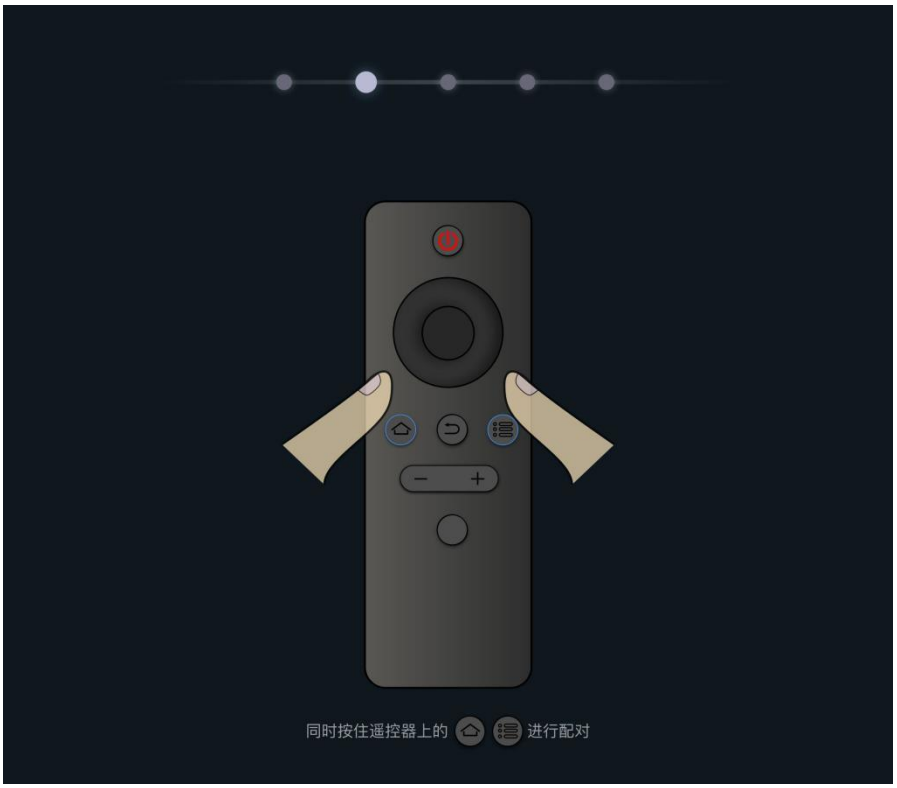
3.4 Description of the remote control

3.4.1 Description of the remote control keys

3.4.2 Remote control pairing guidance

Way a

Also hold down the sum on the remote control Press the key to pair up;



Method 2

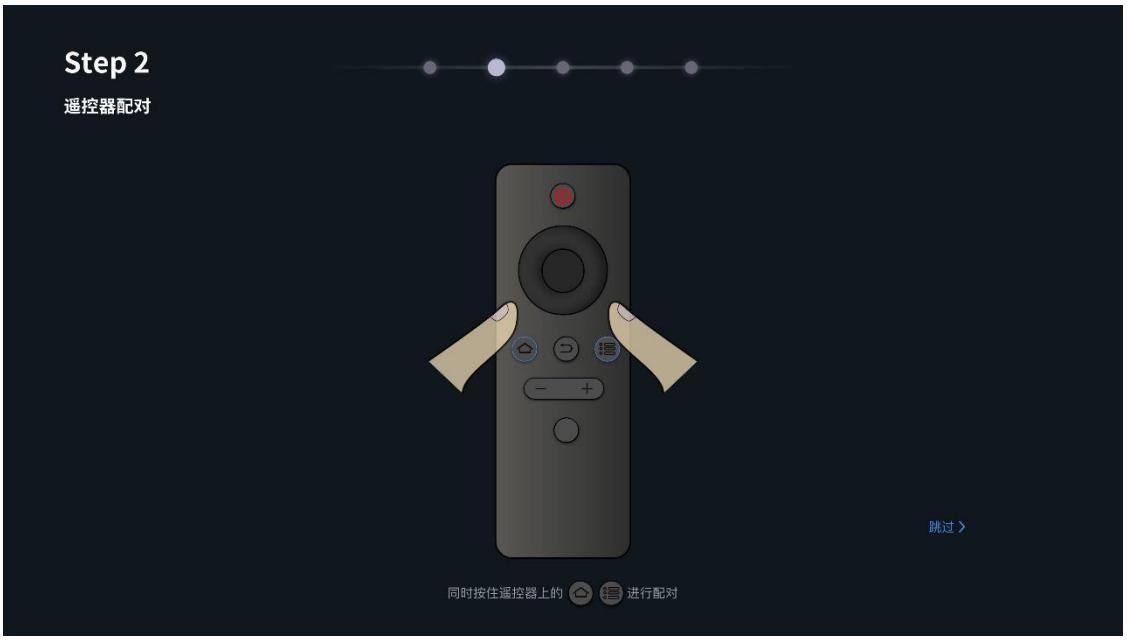
1. In the main screen interface of the conference screen system, select "more applications" and enter the APP application interface;
2. Click "Settings", open the menu interface, select "network —— Bluetooth", and enter the Bluetooth Settings interface;
3. When the blue indicator on the top of the remote control flashes, select the scanning device in the Bluetooth Settings
4. Select the device name of "Storm Bluetooth Remote Control" in the device list and match it up.

3.5 Initialization settings

When using the Absen LED meeting screen for the first time, please follow the novice instructions to complete the initialization setting.

Step 1: Select the language of the meeting screen system, including Chinese, English and Japanese;

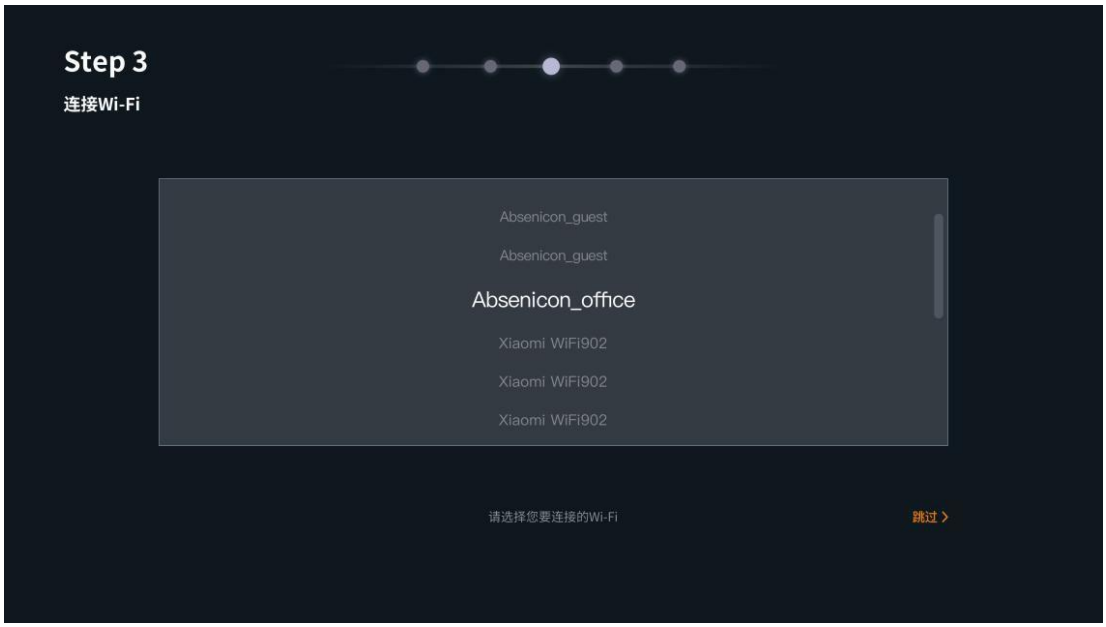
Step 2: pair the remote control with Bluetooth, and hold down the "menu button" and "Home page button" on the remote control;

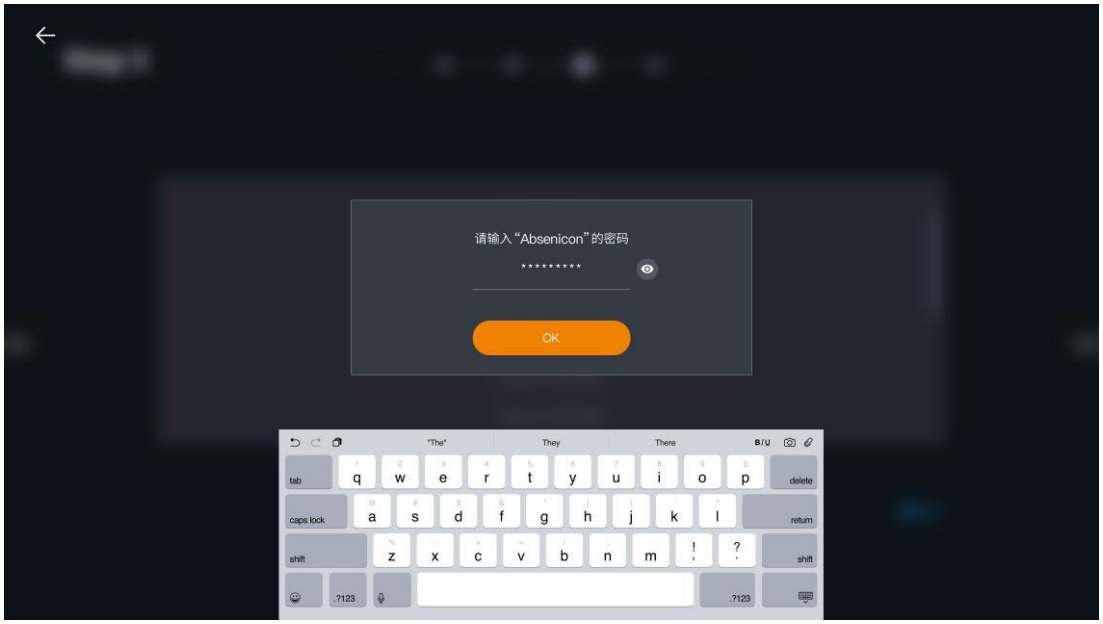


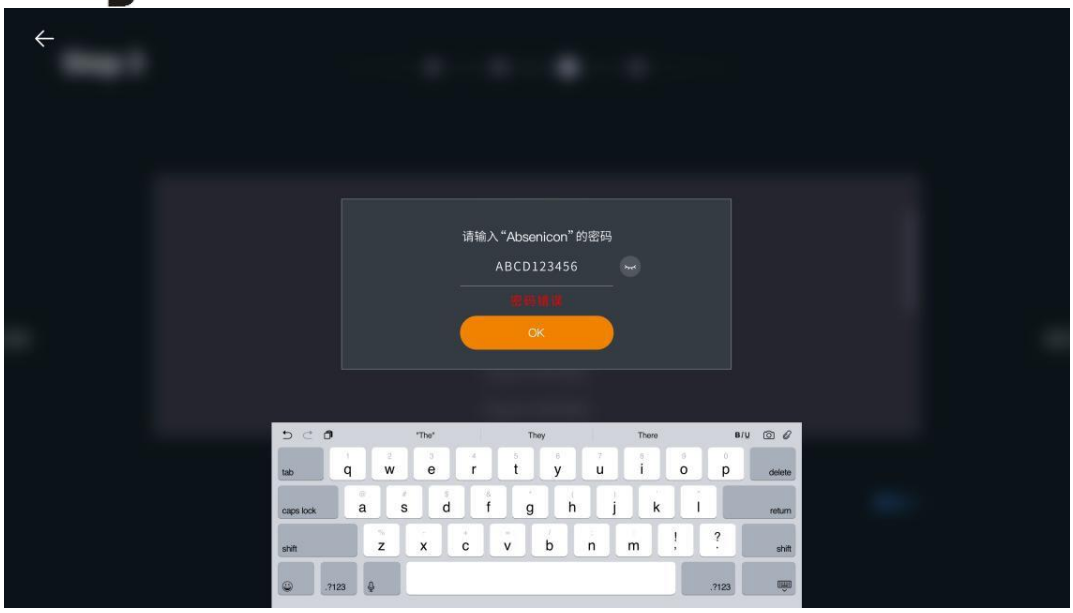
Step 2
遥控器配对
遥控器正在配对，请稍候
跳过 ›
同时按住遥控器上的 进行配对

Step 2
遥控器配对
配对成功
跳过 ›
同时按住遥控器上的 进行配对

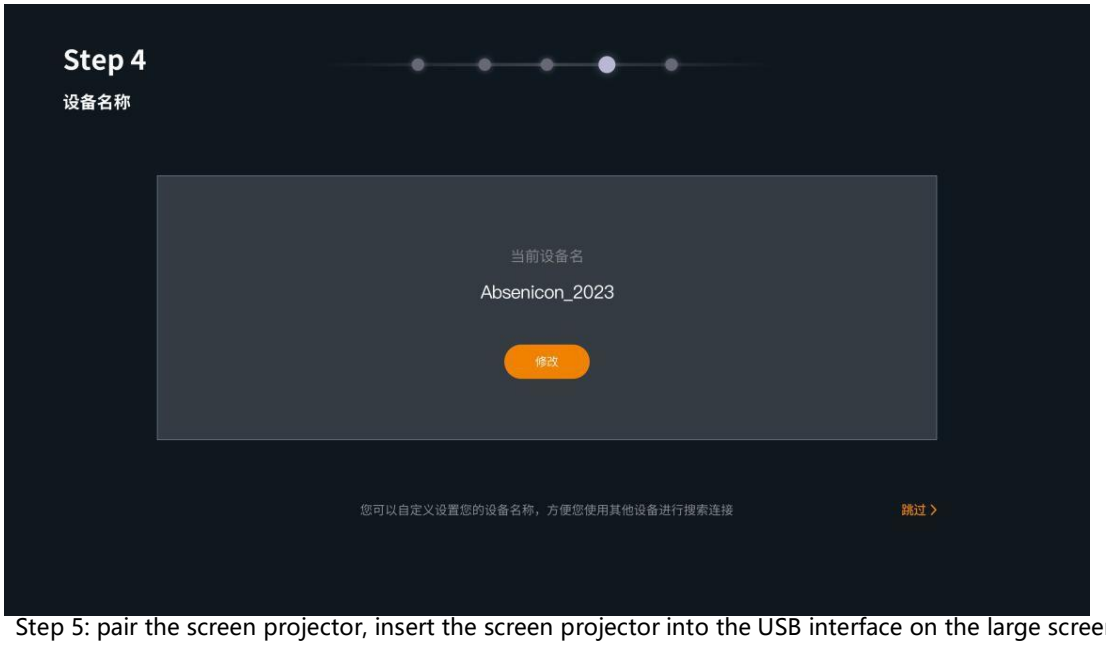
Step 3: Select the Wi-Fi required to be connected, and enter the corresponding password;



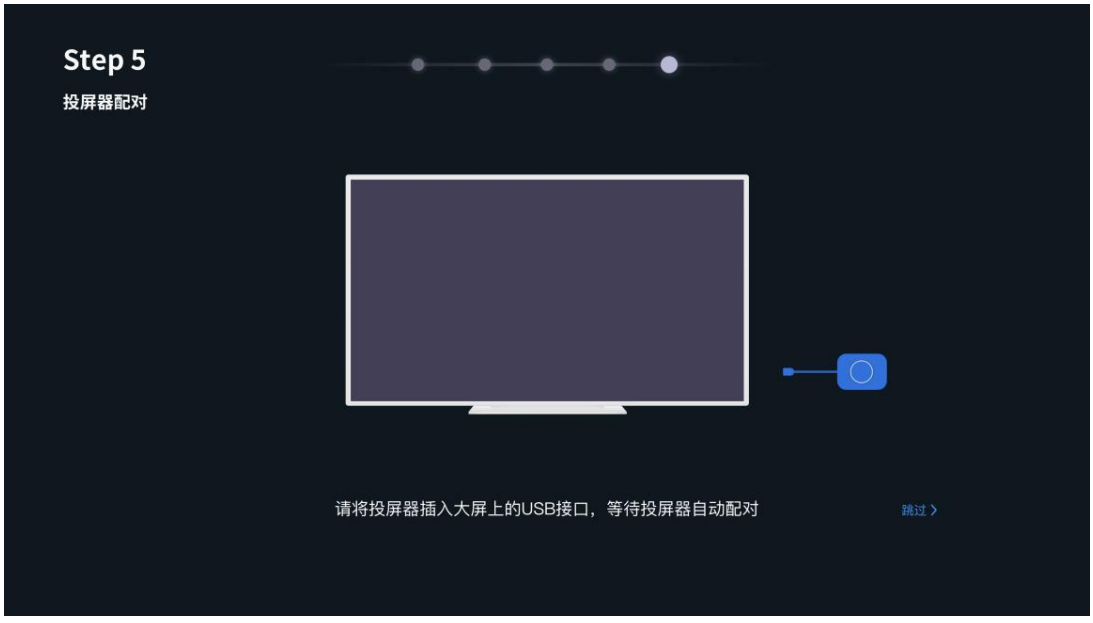


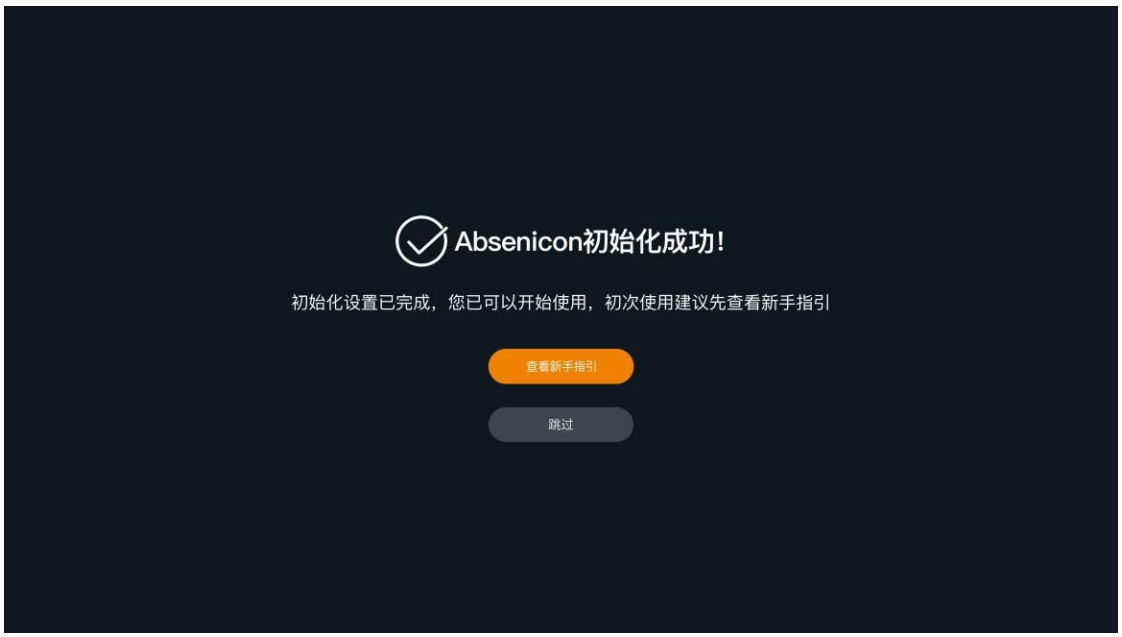


Step 4: Customize the device name to facilitate the search with other devices;



Step 5: pair the screen projector, insert the screen projector into the USB interface on the large screen;



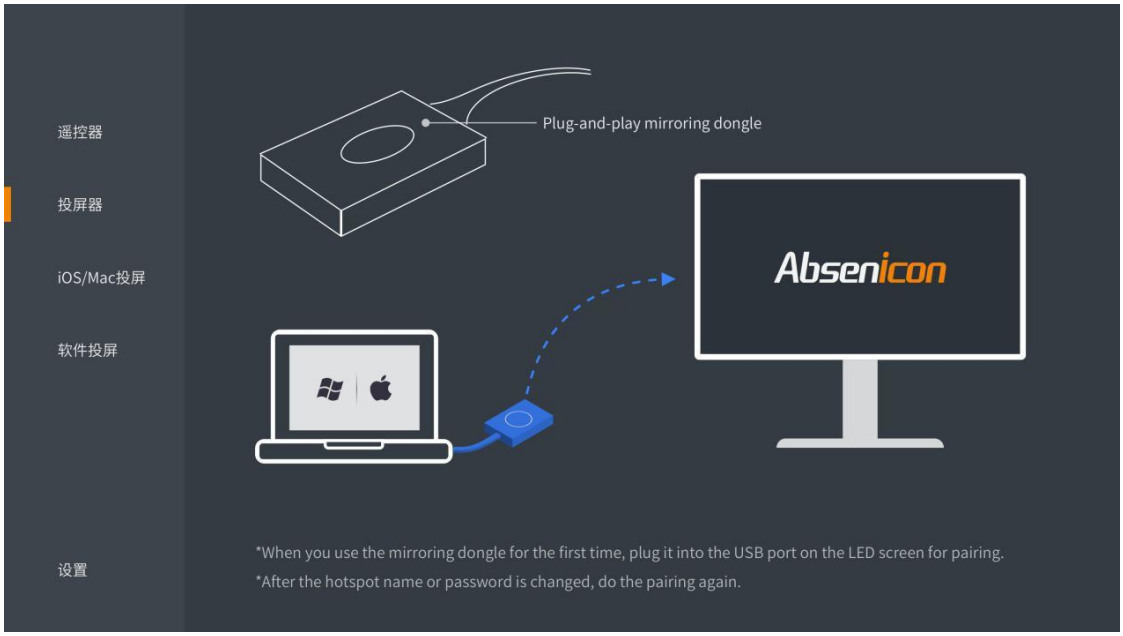


After initialization, you can view novice instructions or directly start using the Absenicon conference screen system.

3.6 Guidelines for beginners

3.6.1 Guide of the remote control

3.6.2 Screen projector guide



3.6.3 IO S/MAC screen projection guidance

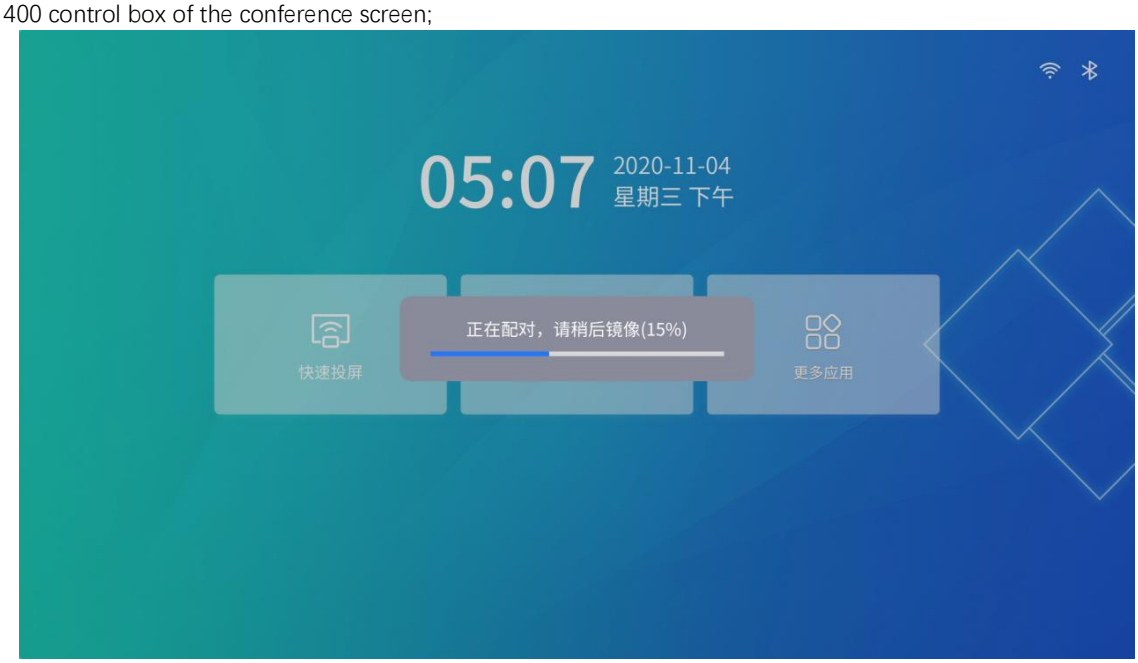
3.6.4 Software Screen Guidelines

3.7 Screen projection guidance

3.7.1 Wireless screen projection

Method 1: screen projection device

1. For the first use, or update the device name, hot name and hot password, match the USB interface of the AI Box 400 control box of the conference screen;

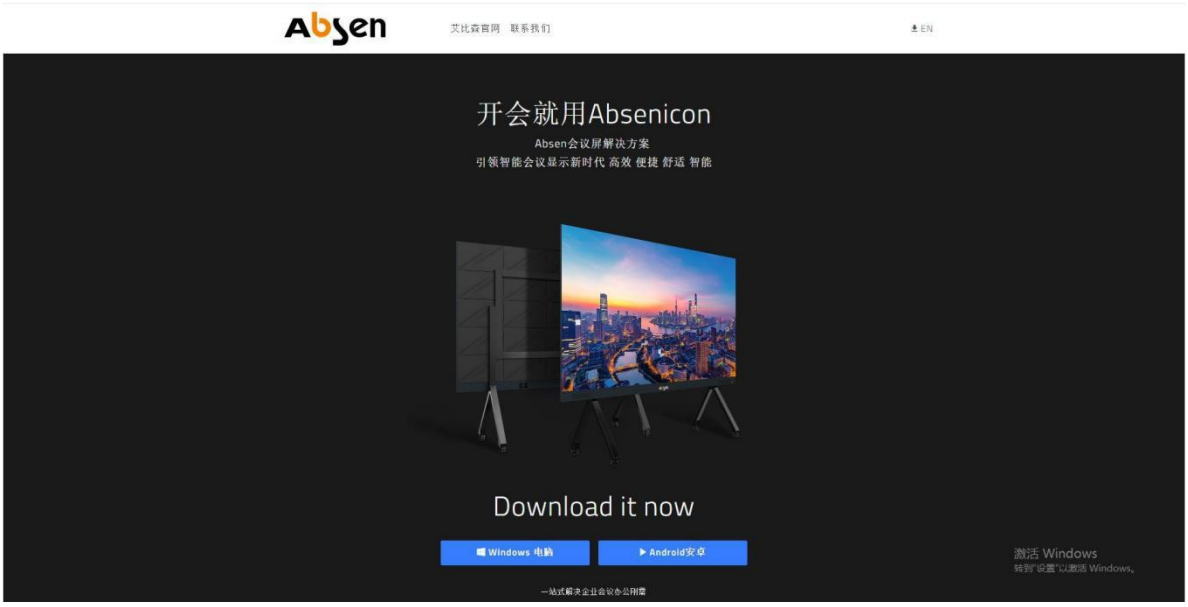


2. Connect the successful matching screen projector to the USB port of the PC terminal;
3. The pop-up window prompts "successful connection";

4. If there is no pop-up window
(1) Select "My Computer> Client (F:)" to run Client. The exe program; or on the MAC OS computer running " My Computer> Client (F:)> Client. App> Content> Mac OS " Run the Client program;
(2) The pop-up window prompts "successful connection";
(3) Press the round button of the screen projector to cast the screen successfully.

Method two: PC screen projection

On the PC side, open the browser and enter " https: / / www.absen. Cn / absenicon / ", download the corresponding client.



WINDOWS System computer projection screen

PC connection Absenicon conference screen hotspot (name default: Absenicon_XXXX, password default: 12345678); run the downloaded client to detect the connected device name, click "Start screen";

MAC OS System computer projection screen

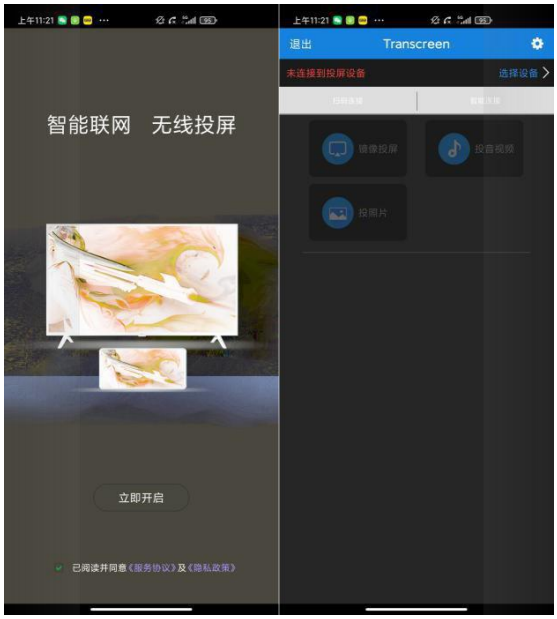
Use the screen mirror to direct the screen.
PC connected to Absenicon conference screen hot spot (default name Absenicon_XXXX, password default 12345678); click the "Screen Mirror" icon in the upper right corner and select the corresponding device name to complete the screen casting;

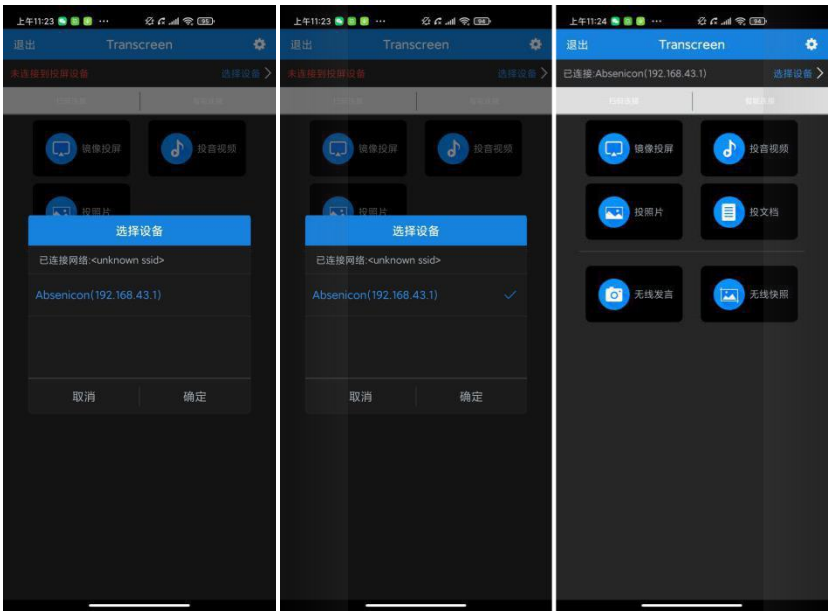
Method three: mobile phone projection screen projection

Android System mobile phone projection screen

(1) First, scan the mobile phone with the QR code in the "Quick screen" to download the "Transcreen" APP, and successfully install it on the mobile phone;
(2) Mobile phone connected to Absenicon conference screen hot spot (name default: Absenicon_XXXX, password default: 12345678);
(3) Run "Transcreen" and select the corresponding equipment name;
(4) Select "Screen Mirror" to complete the mobile phone screen projection.

After downloading and installing the Transcreen software, open the software interface as follows, which is not connected to the authorized device. At this time, you need to connect the WIFI hotspot to the conference screen (name default: Absenicon_XXXX, password default: 12345678), and then open Transcreen APP, select the corresponding device name, and connect the conference screen device.

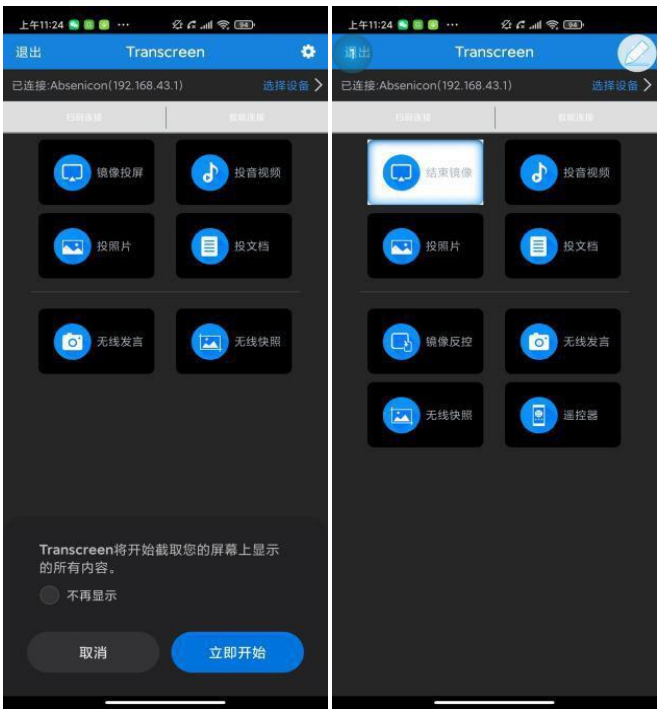




3.7.2Android Version of the Transcreen function introduction

Mirror cast screen

Click "Mirror Screen", the following prompt appears, click "Start Now", you can upload the signal displayed by the mobile phone to the meeting screen;



Throw photos / audio and video / file

Click "Send photos" to upload the photos stored on the phone to the meeting screen;

Click "Projection Video" to upload the video and audio stored by the phone to the meeting screen; click "Document projection" to upload the files stored in the phone to the meeting screen;

Mirror anti-control

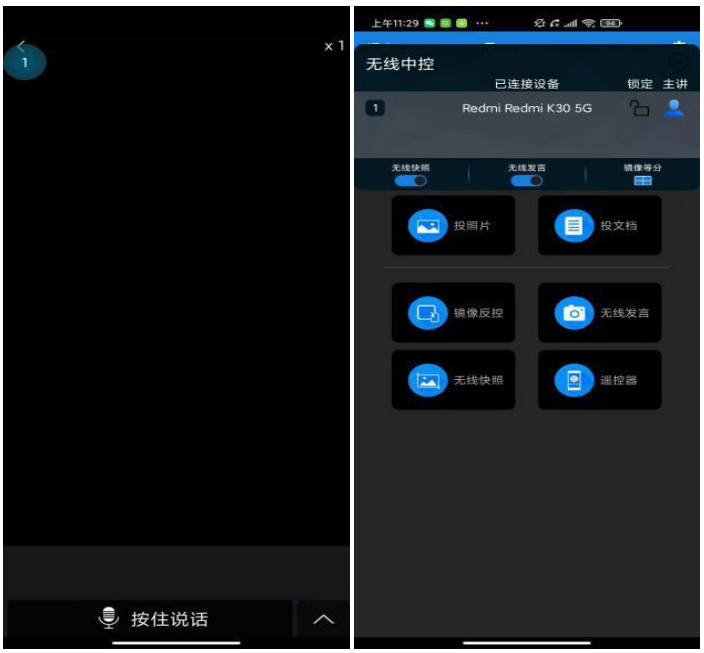
The speaker can walk freely in the lecture hall, through the Android phone or tablet to reverse control the PPT computer; click "mirror reverse control" to realize the mirror reverse control function;

Wireless speech

With wireless speaking support, listeners can use their mobile phone as a microphone to speak directly, and the voice is then wirelessly transmitted to the built-in speaker on the conference screen.

(1) Click "Display the master control ball" on the conference system interface to enter the wireless central control interface, and open the permission of "wireless speech";

(2) Long press the "wireless speech" button to speak directly;

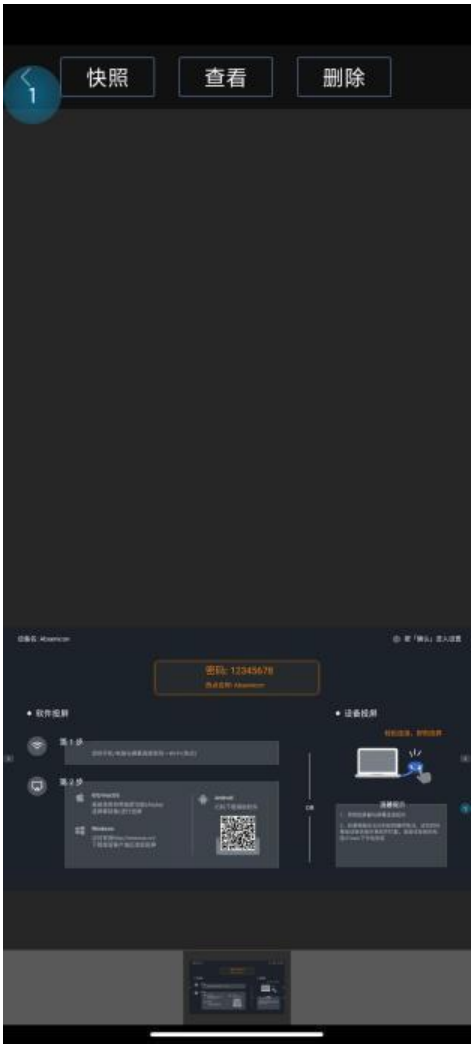


Wireless snapshot

Support wireless snapshot function, the audience can put the speaker on the display device of the complete screen down, and transmit back to their mobile phone, stored in the designated location.

(1) Click "Display master ball" on the conference system interface to enter the wireless central control interface and open the "Wireless Snapshot" permission;

(2) Long press the "Wireless Snapshot" button to capture the meeting screen screen;



telecontroller

Support remote control function, can control the meeting screen menu selection and turn the page

Iphone Mobile phone screen projection (mobile phone image)

(1) Use the mobile phone to connect to the Absenicon meeting screen hotspot (default name: Absenicon_XXXX, password default: 12345678);

(2) Swipe up from the bottom of the screen to open the control center;

(3) Click "Screen Mirror", select Absenicon_XXXX, to complete the mobile phone screen projection;

Iphone Mobile phone screen projection (Transcreen software screen projection)

(1) Search for the "Transcreen" APP in the App stor, and successfully download and install it on the mobile phone;

(2) Mobile phone connected to Absenicon conference screen hot spot (name default: Absenicon_XXXX, password default: 12345678);

(3) Run the "Transcreen" app and select the corresponding device name;

(4) Select "Screen Mirror" to complete the mobile phone screen projection.

iPhone Version of the Transcreen function introduction

Open the Transcreen software, the home page is as follows, and the screen is not connected to the authorized device; then connect the conference screen wifi, enter Transcreen, click "Connect device" to select the meeting screen to be connected;

Mirror cast screen

Click "Mirror Screen", the following prompts appear, complete the wireless projection according to the guidelines;

Throw photos / audio and video / file

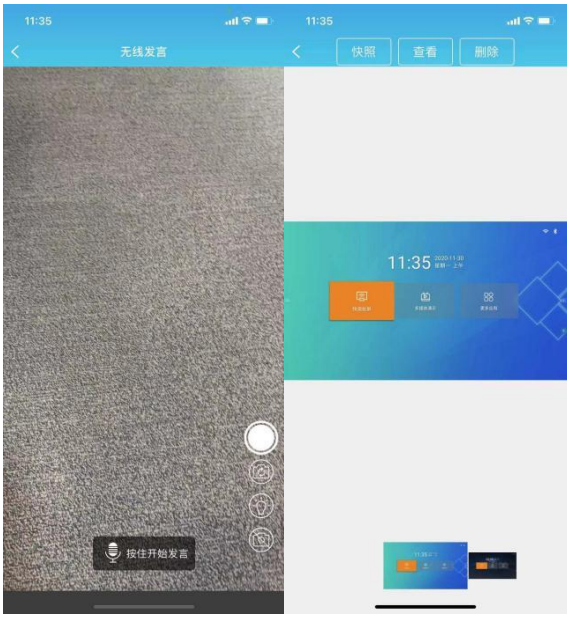
Click "Send Photo" to upload the photos to the conference screen; click "Projection Video" to upload the video and audio to the conference screen; click "Send Document" to upload the files stored by the phone to the meeting screen;

Wireless speech

With wireless speaking support, listeners can use their mobile phone as a microphone to speak directly, and the voice is then wirelessly transmitted to the built-in speaker on the conference screen. Long press the "wireless speech" button, can speak directly

Wireless snapshot

Support wireless snapshot function, the audience can put the speaker on the display device of the complete screen down, and transmit back to their mobile phone, stored in the designated location. Long press the "Wireless snapshot" button to capture the meeting screen screen;



3.7.3 Multi-split screen and screen projection

Ab s e n icon The conference system supports multi-split screen display function, which can freely set multi-screen, and at most four-split screen. Users can set multi-split screen casting according to the following steps (1 (1) In the main interface of the conference screen system, select "Quick screen casting" to enter the wireless screen casting interface, as shown in the figure below;

(2) Press the remote control confirmation key or select the icon in the upper right corner of the interface, and swipe in the pop-up menu bar;

(3) Select the screen casting mode in the "Split Screen Display Mode" window, with optional "single split screen", "double split screen" and "four split screen";

(4) Click the "Display master ball" on the interface to enter the wireless central control interface, and click successively to select the connected device to complete the multi-split screen casting;

explain:

- The remote control can not select the display master ball, need to connect the mouse peripheral or use the touch screen for control.
- The iOS device can only click Screen Mirror on the client.
- In multi-split screen mode, only one split screen can play the sound, but each split screen can switch the sound independently.
- The split screens can exchange positions with each other, and you can double-click on the full-screen display.

3.7.4 The type of screen projection code generation

In the wireless screen casting interface, press the remote control confirmation button or select the icon in the upper right corner of the interface, swipe and select the "screen casting code generation type" in the pop-up menu bar.

Optional 6 digital screen code, 6 universal screen code, 8 universal screen code.

3.7.5 Screen projection code setting

In the wireless screen projection interface, press the remote control confirmation button or select the icon in the upper right corner of the interface, swipe and select "Screen projection Code Settings" in the pop-up menu bar.

3.8 Access to the signal source

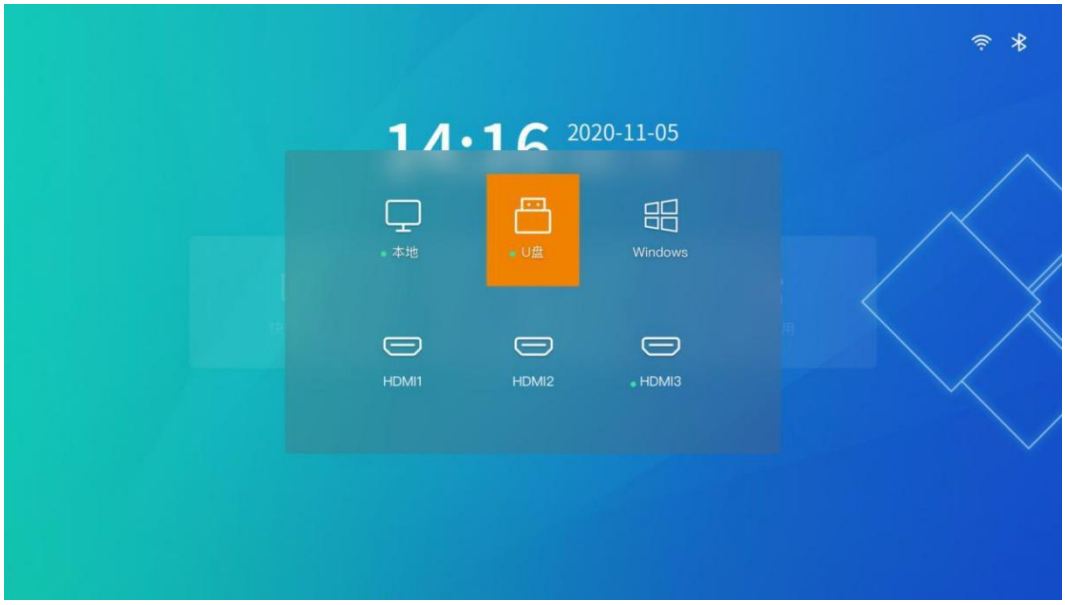
Use the HDMI line to connect the Absenicon conference screen HDMI port to one end and the PC to one end.

3.8.1 Signal source switching

The user can switch over the multiple signal sources in the following three ways.

3.8.2, multimedia presentation

On the main interface of the conference screen system, click "Multimedia Demonstration" to enter the multimedia presentation interface.



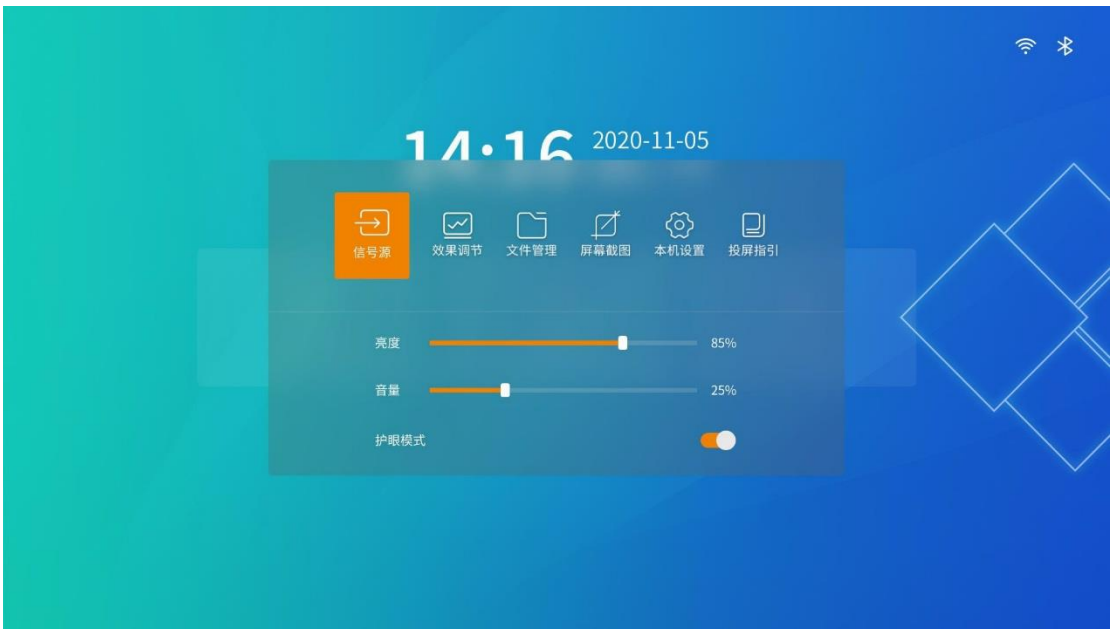
Select the source for screen demonstration, press the remote control confirmation key to switch successfully.

3.8.3, Remote control menu

Short press the menu button on the remote control and enter the menu bar.

(1) Click "Signal Source", and the source switching interface is popup at the bottom of the screen;

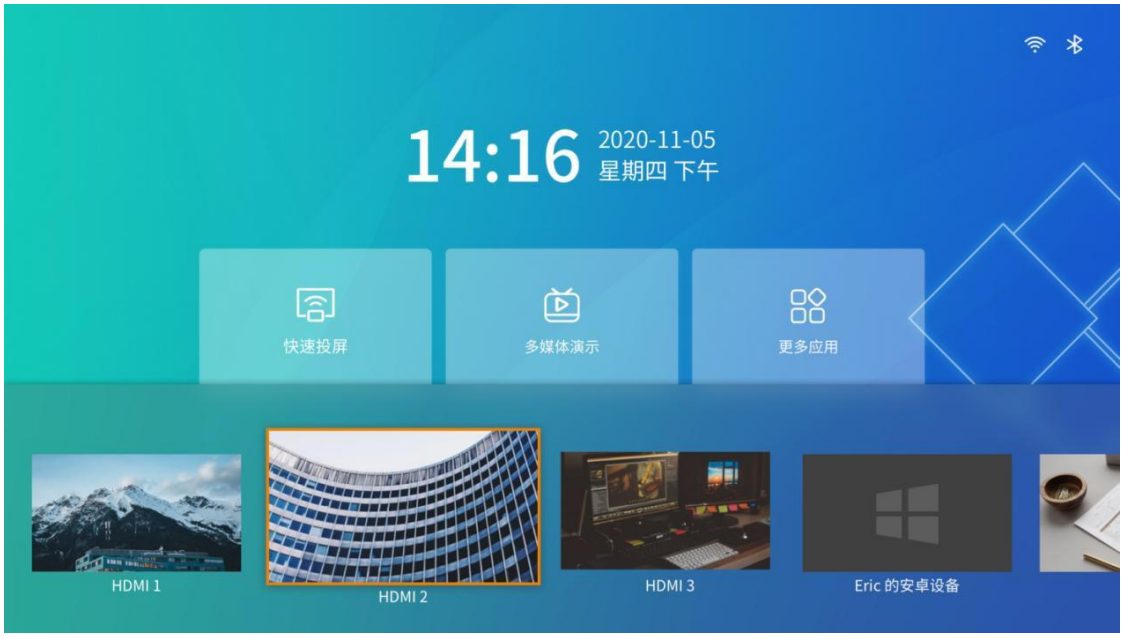
(2) Select the source for screen demonstration, press the remote control confirmation key to switch successfully.



3.8.4 Signal source switching of the remote control

(1) Short press the "signal source switch" button of the remote control, and the source switch interface is pop up at the bottom of the screen; (see 5.1 button description for the distribution of remote control keys)

(2) Select the input source for screen projection demonstration, and press the remote control to confirm the key to successfully switch the input source.



3.9 Display the effect settings

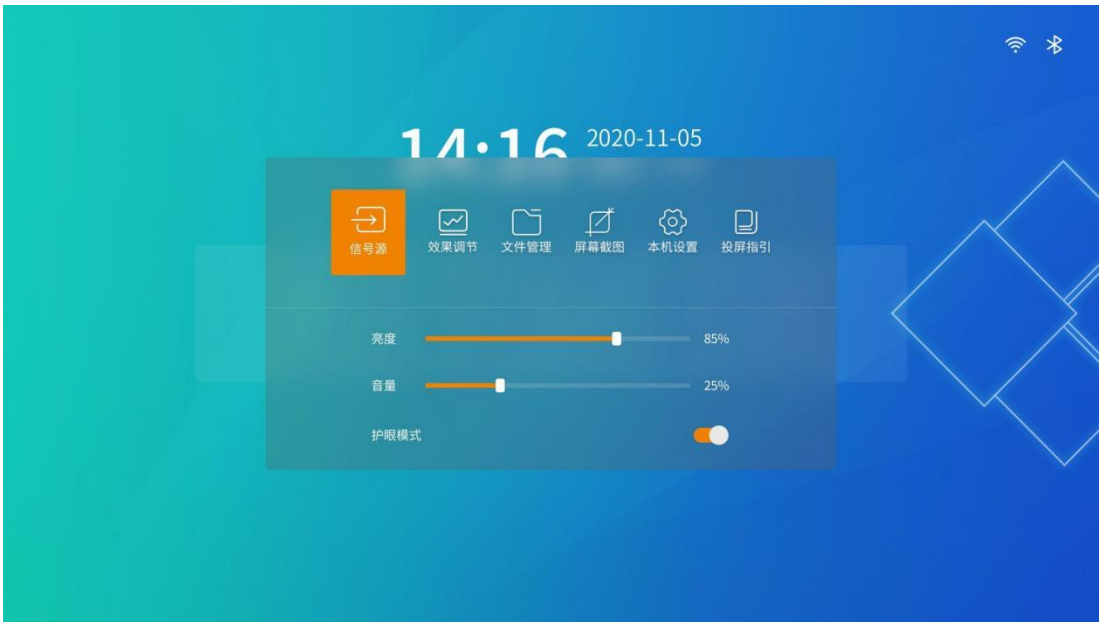
To adjust the display effect to obtain a more comfortable viewing effect, it can be done in the following ways.

3.9.1 Scene mode

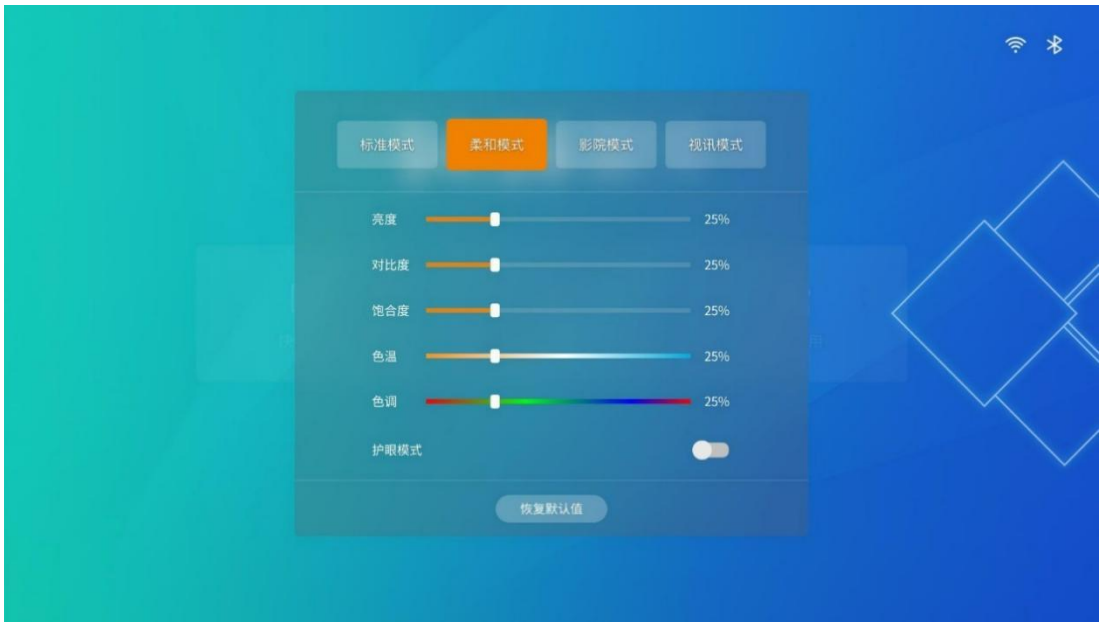
Absenicon Conference screen is specifically for different conference application scenarios, providing four scene modes, whether document demonstration, video playback, teleconference, can match the best display effect.

- Standard mode: the default mode, which can cover most usage scenarios.
- Soft mode: suitable for document demonstration, PPT play and other scenes with more text.
- Cinema mode: suitable for video, movie playback and other scenes.
- Meeting mode: suitable for more portrait scenes such as teleconference.

(1) Short press the menu button on the remote control to enter the menu bar;



(2) Click "Effect Adjustment" to enter the effect adjustment interface, and select the corresponding mode according to your actual needs.



3.9.2 Custom display effect

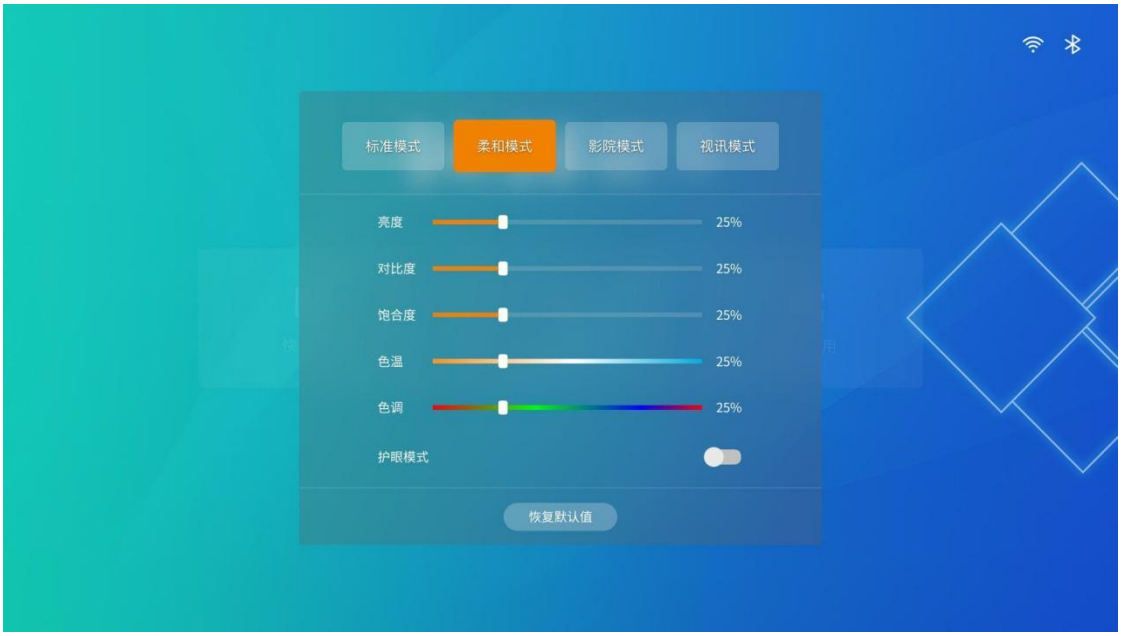
Users can fine-tune after choosing the scene mode to meet the personalized requirements.

(1) Short press the menu button on the remote control, enter the menu bar;

(2) Click "Effect adjustment" to enter the effect adjustment interface;

(3) Customstom display effect by adjusting "brightness", "saturation", "contrast", "contrast", "Color Temperature" and "tone";

(4) If it is not satisfied with the current effect after the adjustment, click the Restore Default button to restore the default parameters of the current mode.

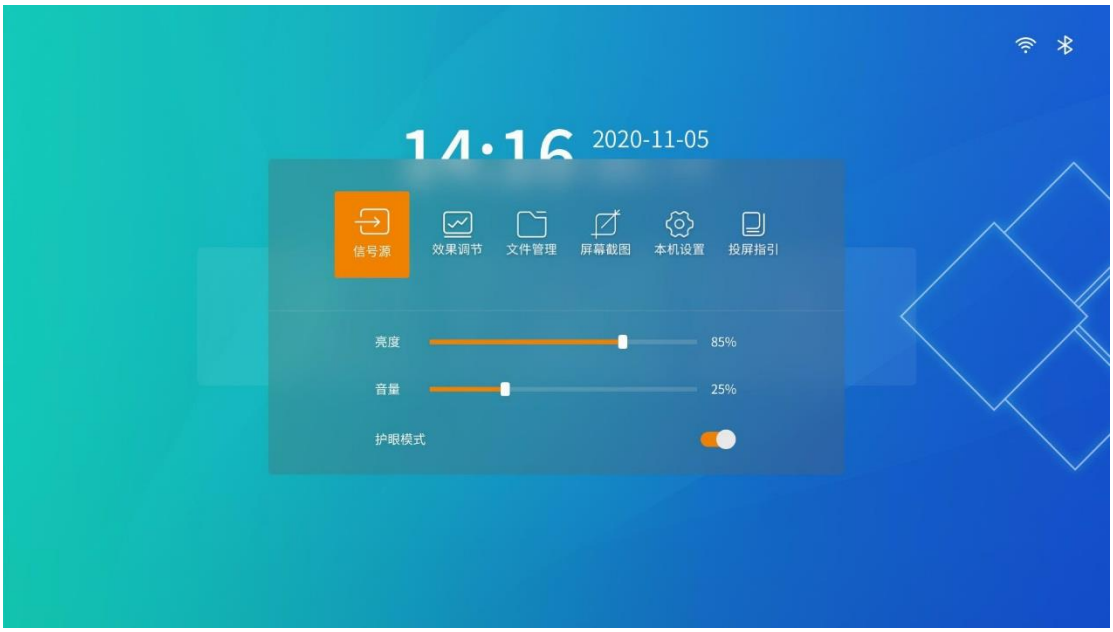


3.9.3 Eye protection mode

Absenicon The conference system supports one-click open eye protection mode.

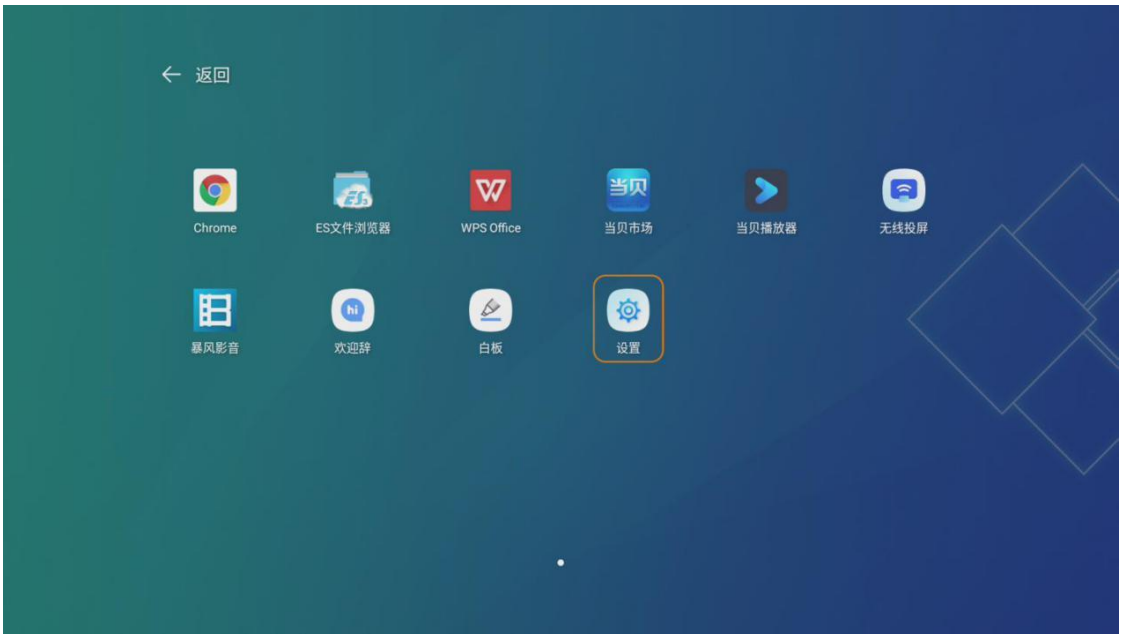
(1) Press the menu button on the remote control and enter the menu bar.

(2) Click the "Eye Protection Mode" button to turn on / off the effect of the eye protection mode. Explain that: after the eye protection mode is opened, the screen display will be slightly yellow.



3.10 Settings

In the main interface of the conference screen system, select "More applications" and enter the "Settings" application interface.



3.10.1 Network Settings

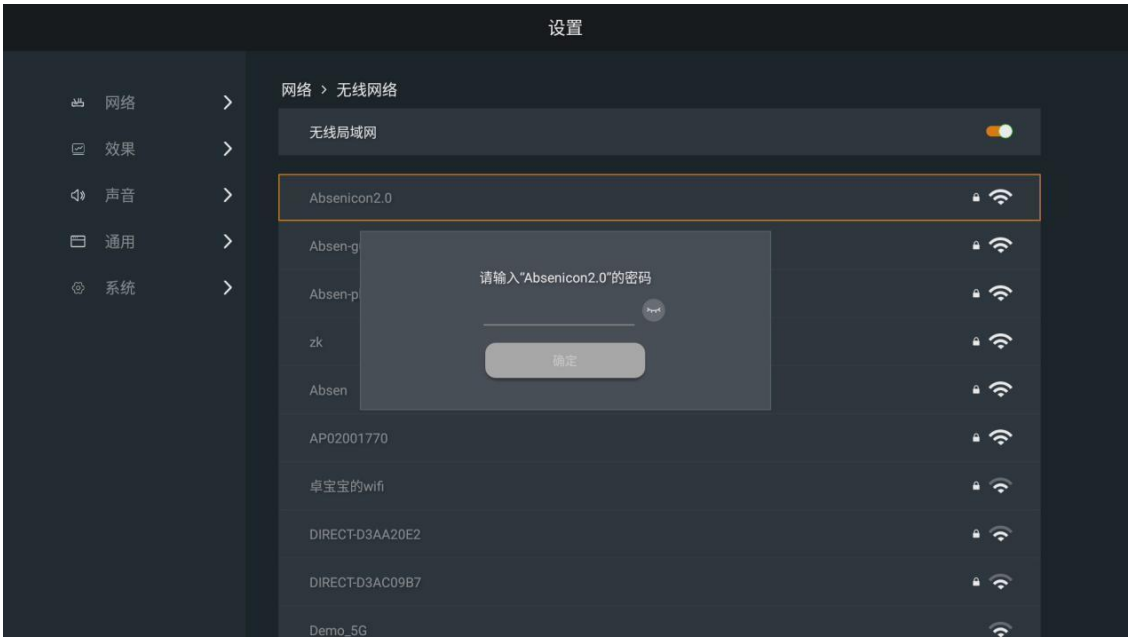
In the main setting interface, select "Network" to enter the "Network Settings" interface.

Cable network

Select "Wired Network" to enter the wired network setting interface. "Wired Settings" and "select" Automatic " to automatically obtain the IP address. When the icon is displayed in the upper right corner of the main interface, the network connection is successful.

wireless network

Select "Wireless Network" to enter the wireless network setting interface, "Wireless LAN" select "Open", automatically search the surrounding wireless network, select the available Wi-Fi network, and the input password window will pop up.



Enter the password and click OK to connect to Wi-Fi.

This machine hot spot

Select the "native hotspot" and enter the native hotspot setting interface.

(1) Hot spot switch is on;
(2) Set the password of the wireless hotspot, click "OK" to open the hotspot;

Note: After modifying the local hotspot name or password, you need to connect the screen projector to the USB port of the meeting card and pair it again.

(3) Channel switching.

PDA

Select "Bluetooth" to enter the local hotspot setting interface.

Turn on the Bluetooth switch and automatically scan the device;

Select the device to be paired; enter the corresponding number and click Pair.

3.10.2 Effect setting

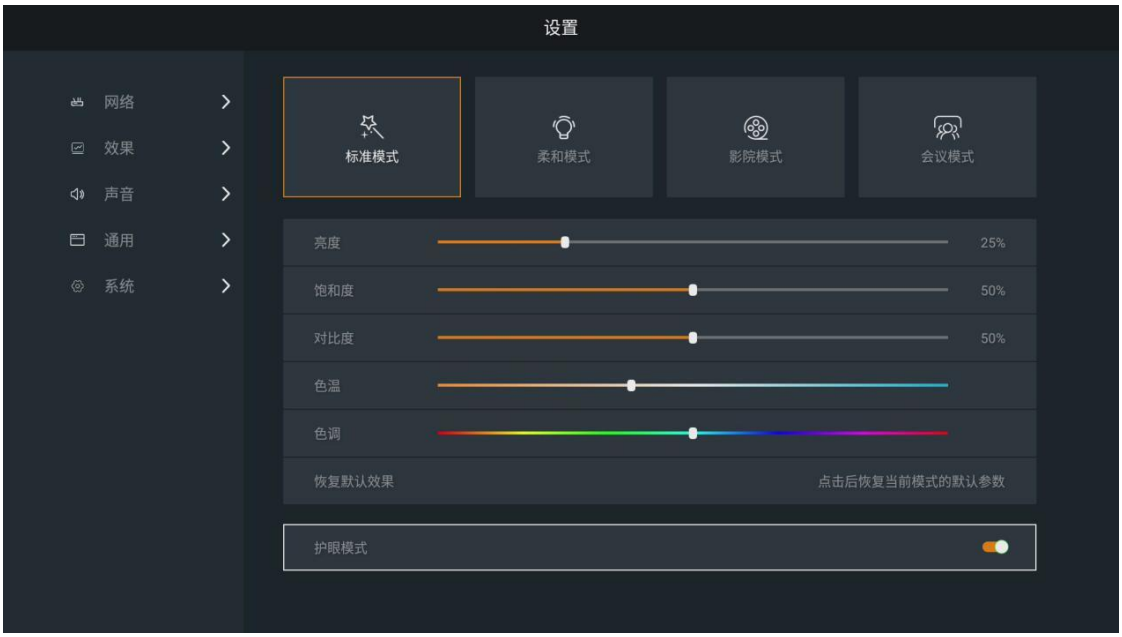
In the main Settings interface, select Effects to enter the Effects Settings interface.

mode selection

Select "Standard mode", "Soft mode", "Cinema mode" and "conference mode" respectively; it can be personalized from brightness, saturation, contrast, color temperature and tone respectively.

Eye protection mode

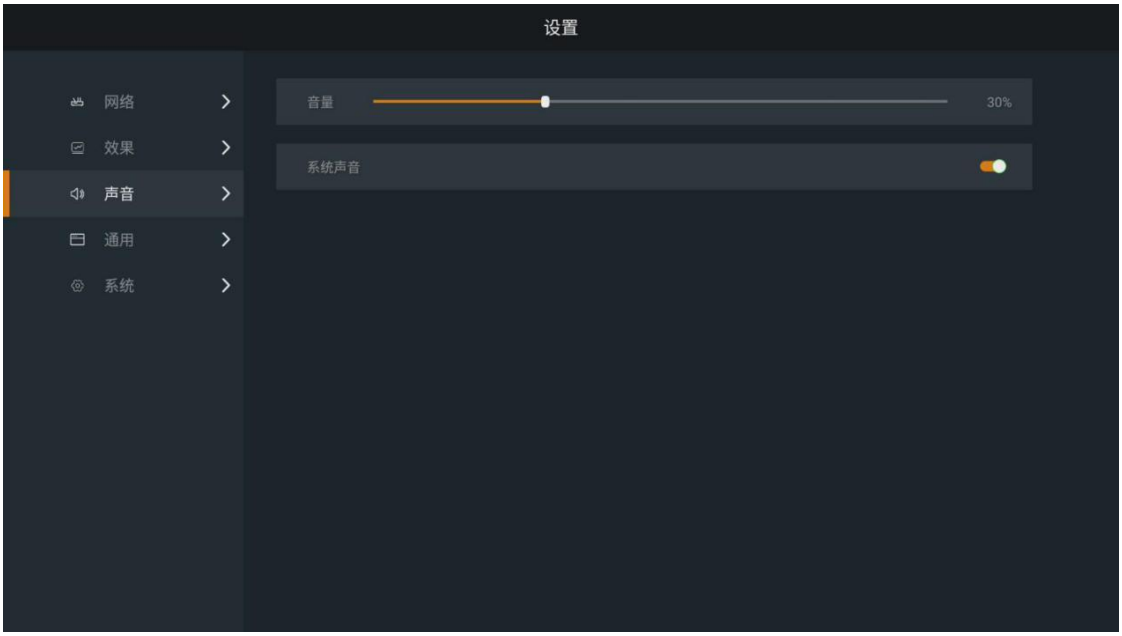
The bottom button opens the eye protection mode.



3.10.3 Sound Settings

In the "Settings" main interface, select "Sound" to enter the "Sound Settings" interface.

Set the Absenicon meeting screen sound, including volume adjustment and system sound on / off.



3.10.4 General Settings

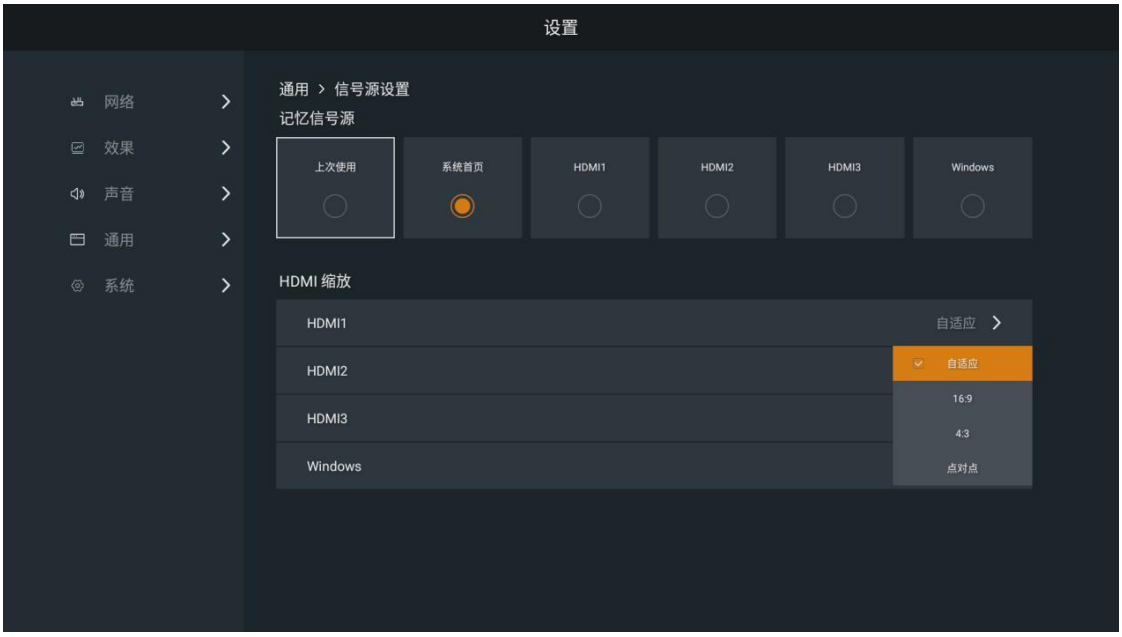
In the main Settings interface, select General to enter the Universal Settings interface. There are signal source setting, application management, time and date, language and keyboard, wallpaper, and touch assistance.

Signal source settings

In the general Settings main interface, select "signal Source Settings" and enter the signal source Settings interface. Management of the following settings for the connected signal source.

(1) Memory signal source: set the boot signal source, select "Last Use", "System Home page" (default), "HDMI 1", "HDMI 2", "HDMI 3" and "Windows".

(2) HDMI Zoom: Scale the selected HDMI source with Adaptive (default), 4:3,16:9 and Point-to-Point.



application management

In the general setting main interface, select "Application Management" and enter the application management interface.

Management of the installed APP.

(1) Forced stop: force the APP to the stop state.
(2) Open the app: Run the selected APP.
(3) Uninstall: Uninstall the selected APP.
(4) Clear data: Clear the data cache of the selected APP.

time and date

In the general setting main interface, select "Time and Date" to enter the time and date setting interface. Set the following for the time and date of the Absenicon meeting screen.

(1) Automatic get network time: Open "Automatic Get Network Time", the time and date are synchronized with the network time. You can also turn off the time to set the Absenicon meeting screen.
(2) 24-hour system: Open the "24-hour system" switch in the 24-hour time format; if not on, the time is displayed in the 12-hour time format by default

(2) Date format: choose "Year-month-day" (default), "month-day-year" and "Day-month-year".

Language and keyboard

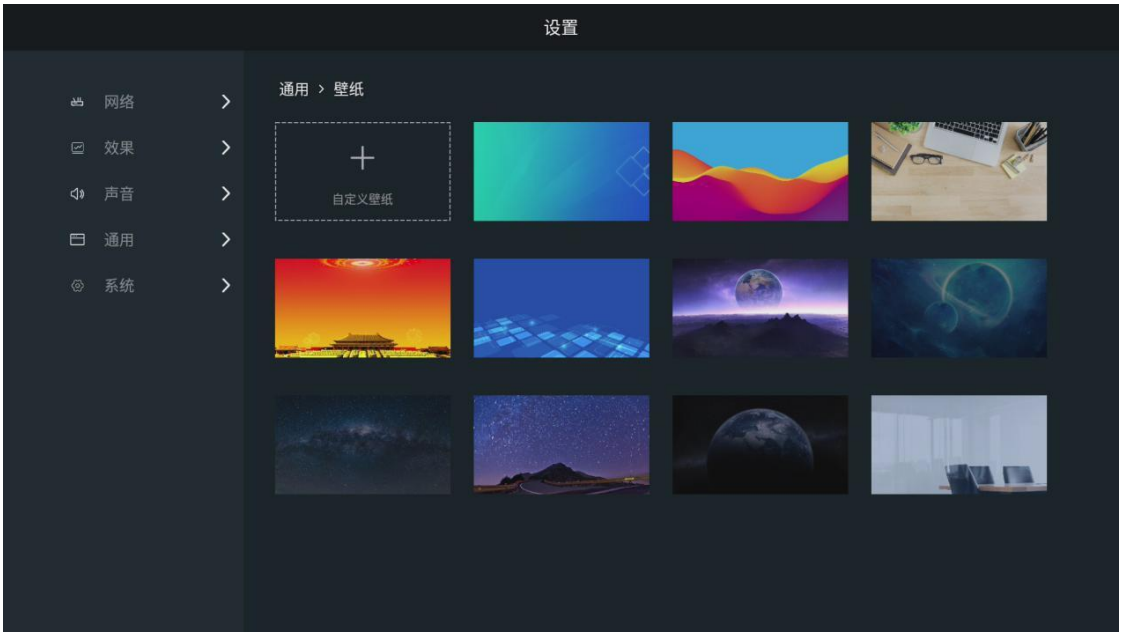
In the general setting main interface, select "Language and Keyboard", and enter the language and keyboard setting interface. Set up in the language of the Absenicon conference screen and the input method of the keyboard.

Language: Choose Chinese (Simplified) (default), English, Chinese (Traditional), and Japanese.

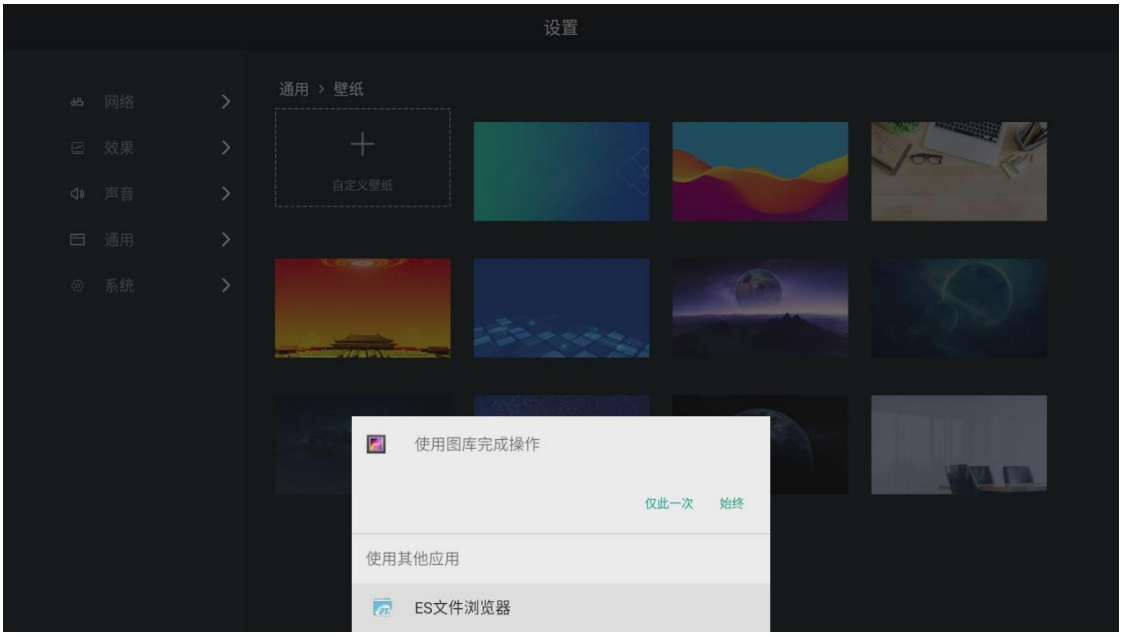
Keyboard: optional Android Keyboard (AOSP), Remote Control Input Method (default).

wallpaper

In the general Settings main interface, select "Wallpaper" and enter the wallpaper Settings interface. Set up the desktop wallpaper of the Absenicon conference screen.

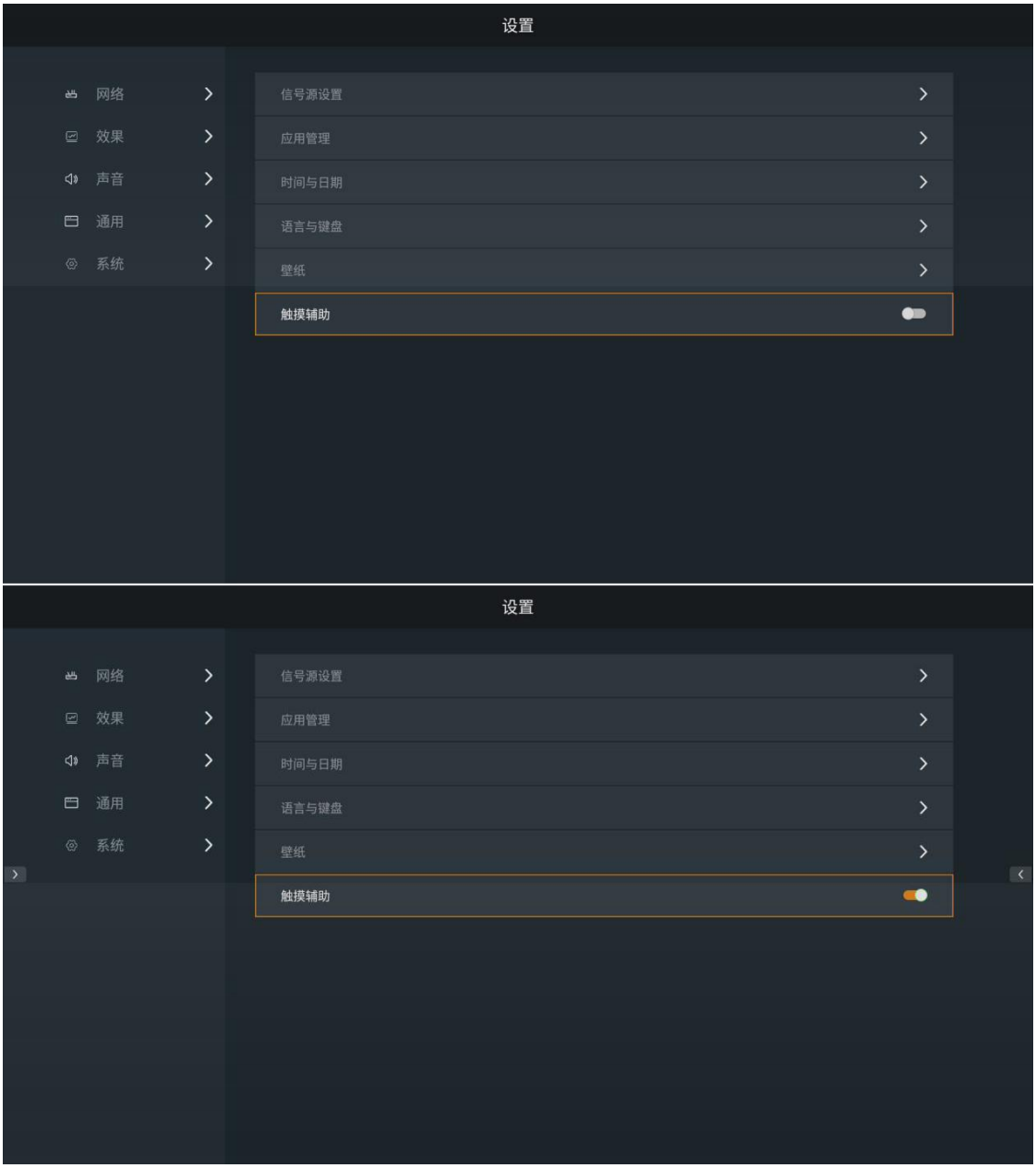


(1) The system has a wallpaper: select the target wallpaper, click "Set as wallpaper".
(2) Custom wallpaper: Click Custom Wallpaper, select the local picture you need to set as wallpaper in the ES file browser, and click.



Touch assist

In the general Settings main interface, select "Touch Assist" and enter the Touch Assist Settings interface. Open Touch Assist, and click the small triangle icon on both sides of the interface to open the sidebar.



: Return key and click to return to the previous step.

: Home page key, click back to the main interface.

: Brush key, click Open the brush tool.

: White board key, click Open the whiteboard tool.

: Food order key, click Open the menu bar.

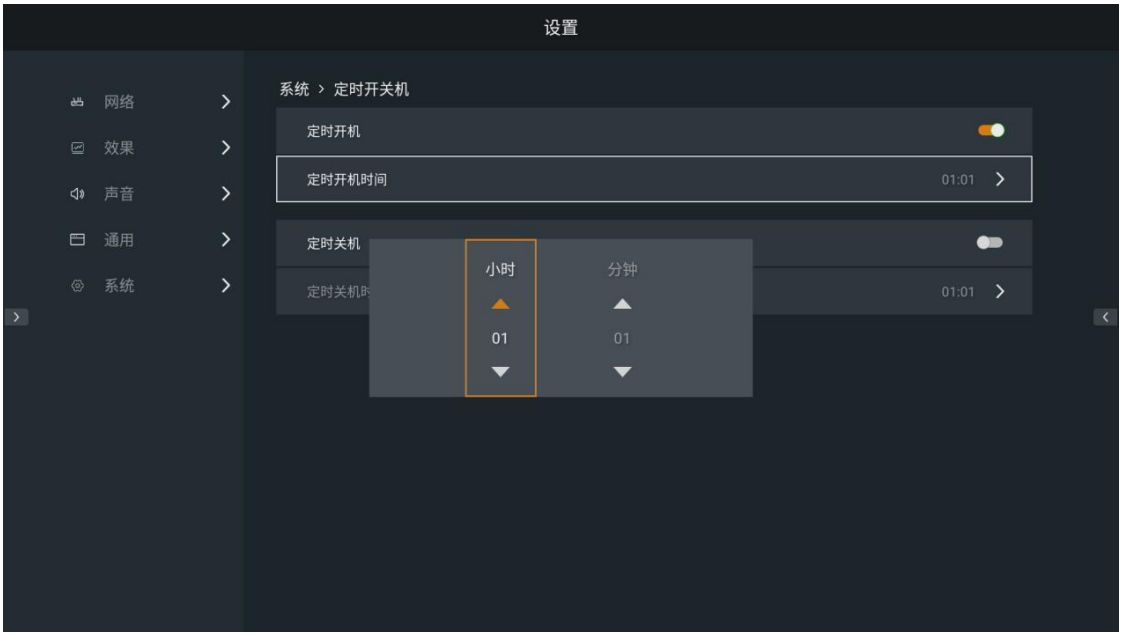
Note: The remote control can not operate the touch assist menu, connect the mouse peripheral or use the touch screen for control.

3.10.5 System Settings

In the Settings main interface, select "System" to enter the "System Settings" interface. There are timing switch, restore factory design, system upgrade, about, novice guide, network port switch.

Timed switch machine

In the main interface of system setting, select "timing switch" and enter the timing switch setting interface. Set the timing switching time of the Absenicon meeting screen. Set the boot time and shutdown time of the meeting screen respectively.



factory data reset

In the main interface of system Settings, select "Restore Factory Settings", and enter the restore factory Settings interface. Click Restore Factory Settings to restore the Absenicon conference screen to its factory status.

explain:

- Local documents, photos, videos, applications and other data will be cleared and cannot be restored.
- After restoring factory settings, the screen projector needs to be commercially activated, see activating the screen projector.

Android upgrade

In the main interface of system Settings, select "System Upgrade" and enter the Android system upgrade interface.

(1) Insert the U disk with the upgrade package into the USB port of the Android card.(The upgrade package file name is: update. The zip, and the upgrade package must be placed on the mobile device root eye
record).

(2) When the U disk root has an upgrade file, can be upgraded, click Local Upgrade.

(3) During the upgrade process, the Absenicon meeting screen will be constantly powered and the U disk is not plugged. The whole upgrade time takes about 3~5 minutes (power failure and unplugging U disk are dangerous actions, which may damage the meeting screen system card)

about

In the system Settings main interface, select "About" and enter the About interface. Users can view and modify the Absenicon meeting screen name and view the following information.

- Android card version
- Native name, which can be modified
- Send card version
- Receive card version
- Memory information
- canned data

The novice guide

In the main interface of system Settings, select the "novice Guide" and enter the novice guide interface.

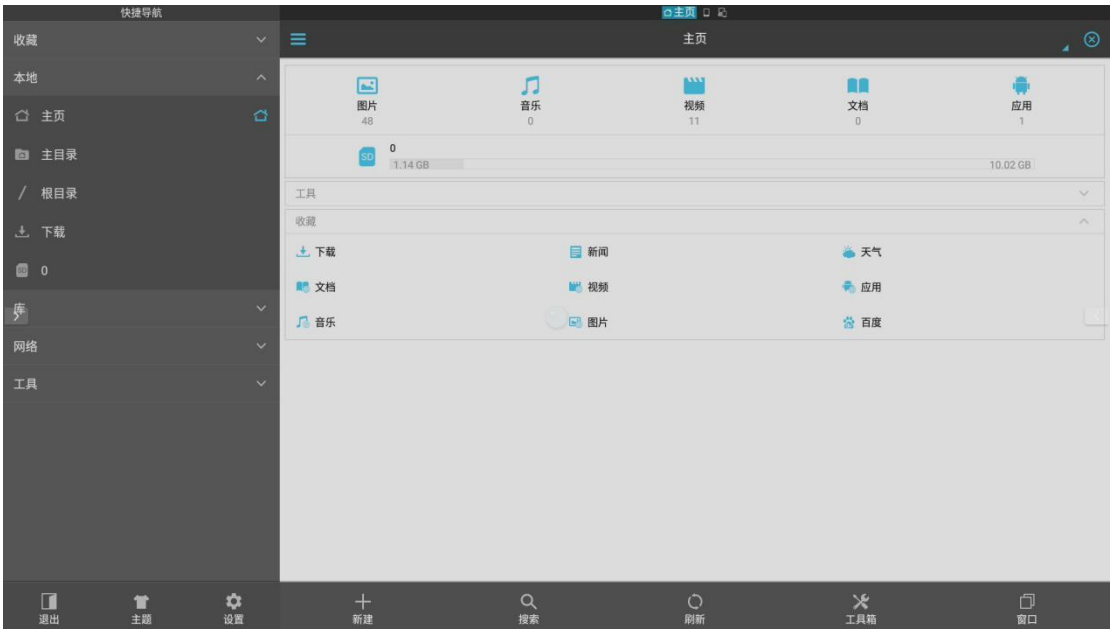
Network port switch

In the system setting main interface, select "Network port switch".

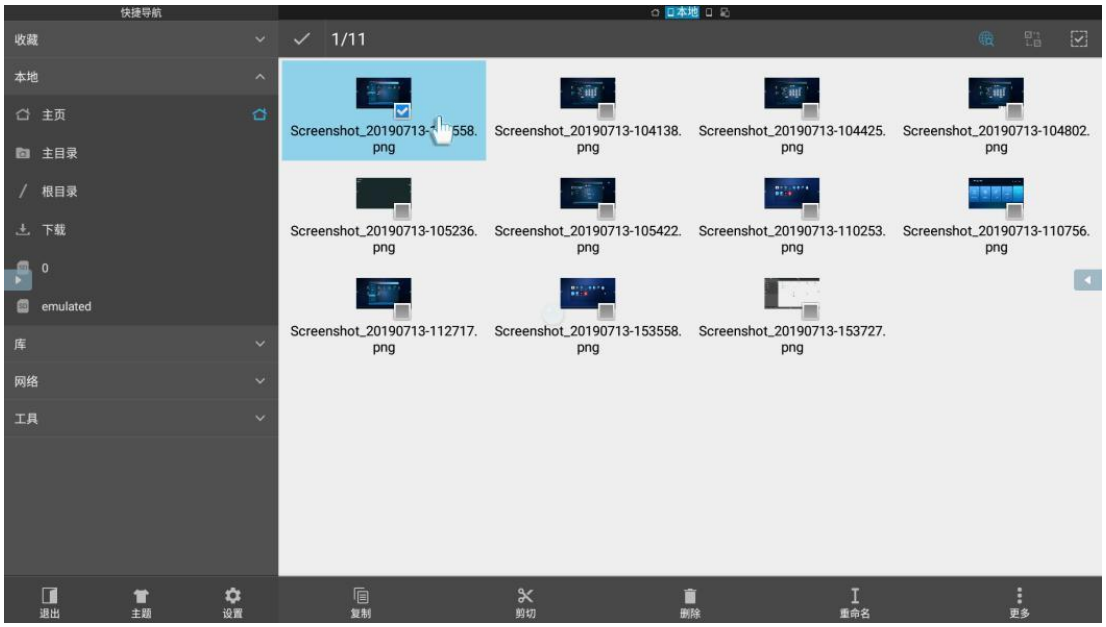
- Switch the status of the network port, select LCT (default), Cable Network.
- If you need to connect to the upper computer through the network port, please switch to the "LCT" state.
- When connecting the wired network through the network port, switch to the cable network state.

3.11 Document management

The user can follow the following steps for simple operation. In the main interface of the conference screen system, select "More applications" to enter the "ES File Browser" interface.



Select the folder where the target file is located, select the target file to confirm open. Long press the remote control confirmation key or the left mouse button to "copy / cut / delete / rename" the target file.



3.12, Software information

3.12.1 Software version

AI BOX410 Control box operation software	
class	version number
Nova LCT Control software	Nova LCT 5.3.1.MeetUs. T1.Beta2 And above
Send the backpack version	DATA_Mee200_V1.0.3.0.STD
Wireless screen projection A pp Transcreen, support	for iphone /ipad
Wireless screen projection APP Transcreen, support	for Andriod
website download	for windows
Android board card	MX420_V1.0.3.6

3.12.2 Hardware version

AI BOX410 Control box hardware version	
class	version number
Meeting card	Mee400 (Connotation Nova Conference Embedded Software V1.0)
Relay sub-board	HUB JDQ BOARD-F5 V1.0
Keyboard	HUB KEY BOARD-F5 V1.O
Infrared receiver subboard	HUB IR BOARD-F5 V1.0
Screen casting device	MX-P2L
Bluetooth remote control	MX-BVR

3.12.3 Firmware upgrade

The firmware upgrades of the sending or receiving card on NovaLCT (V5.3.1 and above) are as follows:

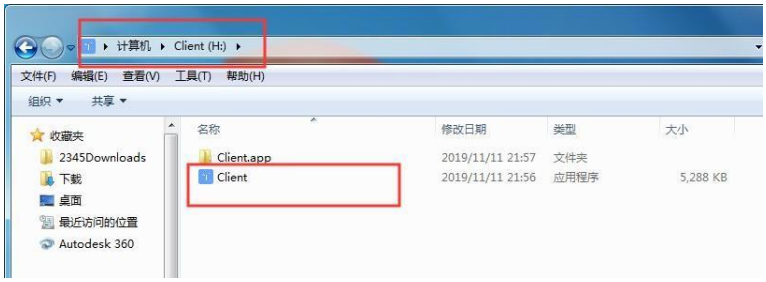
Step 1 Run NovaLCT, select "Login> Synchronize Advanced Login", and log in to the advanced user interface.

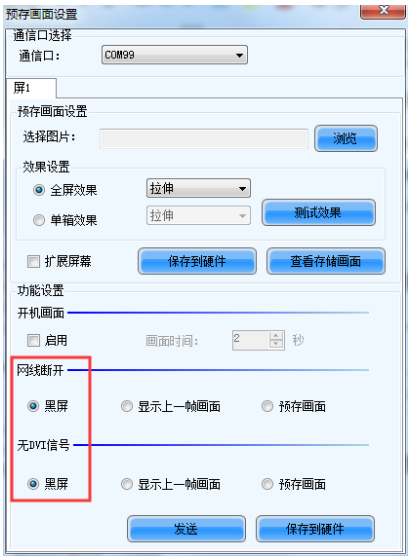
Step 2 Enter the dark code "admin" and enter the program loading page.

Step 3 Click Browse, select the program path, and click Update.

4. Dealing with common problems

order number	frequently asked questions	terms of settlement
1	Mobile phones do not search for hot spots on the conference screen	1. Check whether the conference screen system is turned on for wireless hotspots, and turn it on in the system setting network; 2. The WIFI module of some mobile phones does not support 5G wifi function, so it is necessary to change the system Settings> Network> hotspot> channel from 5G band to 2G band
2	There is noise in the sound	Check whether the external audio equipment is well grounded, and it is recommended to add an audio isolator
3	Throw in sound and video without sound	Check the audio device and check whether the system volume is off
4	Wireless screen projection lag, large delay	Compared with HDMI cable transmission, the wireless screen projection scheme itself has the disadvantage of picture quality compression. The scheme itself is a compromise of picture quality and real-time, and there is a normal phenomenon in the loss of picture quality. The delay time of screen projection is measured by the timer, the transmission distance is within 10m, the delay of static projection is less than 120ms, and the delay of dynamic projection (playing video, etc.) is less than 170ms, which is considered normal. If the picture is serious, please check the network connection and antenna connection to confirm that the wireless transmission link works ideal, and the Wi-Fi band works in the 5G band.
5	Wireless screen activation failure or the input activation code dialog box	Confirm that the Internet access is effective, and the judgment way is to open the browser and open the web page is normal. If displayed, please enter the activation code and contact the market support personnel for the activation code input.
6	After the Bluetooth sound is connected, the system volume, player and Bluetooth volume are normal, and there is still no sound when	AI BOX400 The built-in Mee200 conference card Bluetooth in the control box is version 4.0, which does not support Bluetooth 5.0 version on the market, such as PX Chase High Fidelity Bluetooth 5.0 receiver. It is recommended to use audio cable connection or use Bluetooth speakers with version 4.0 and below

	playing.	
7	The Bin file upgrade failed	The Bin file upgrade needs to meet the following four conditions, please check one by one. ① Confirm that the U-disk format is FAT 32. ② Check whether there are upgrade files in the U disk root directory, if not, please save the upgrade file in the root directory. ③ Confirm that the U disk can be correctly detected and identified by the system, insert the U disk system can pop up the U disk detection prompt, push ④ Select USB3.0 interface as the upgrade interface. If the above conditions are met and the upgrade has not been successful, please replace the U disk of other brand specifications and try again.
8	The projector inserted into the computer will not start the projector	① Confirm that the screen projector has been successfully paired with the Android card, and the conference card hotspot has been opened ② Close the anti-virus software, security guards, etc., replug and plug the screen transmitter. ③ Manually run the upper screen casting software according to the path below. 
9	Remote control device infrared control distance is short, slow response	① Confirm the correct installation and layout of the infrared receiver to ensure the effective receiving Angle, without metal shielding. ② Make firm the remote control battery is sufficient.
10	The infrared touch frame does not take effect after insertion	Please submit the ID of the infrared touch frame that is not work after insertion to A bsen Technical Support
11	The system cannot start normally, the indicator is out or on	Check the supply voltage of the system to ensure that the voltage at the conference card power outlet is 5.1V.
12	Fast upload correction coefficient failed	HDMI to Point-to-point, see see Source Settings.

13	Android boot flash screen, U disk play video flash screen	Setting it to a passive black screen on the NovaLCT can solve the problem Step 1 Run NovaLCT, select "Login> Synchronize Advanced Login", and log in to the advanced user interface. Step 2 Select "Settings> Presave screen" and enter the "Presave Picture Settings" interface. Step 3 set to passive black screen and click Send> Save to Hardware. 
14	Remote control is lost, how to switch the signal source or control the conference screen	An external USB mouse or Bluetooth mouse to operate the meeting screen.
15	Press the wireless screen projection for no response	If the projector activation fails, follow the following steps to activate the projector. Step 1 Make ify the network connection is normal before activation. Step 2 In the main interface of the conference screen system, click "Wireless screen casting" to enter the wireless screen projection interface, as shown in the figure below Step 3 Select "OK" in the upper right corner of the interface, and select "Activation Information" column in the pop-up menu bar.

		 Step 4 Click "Commercial Activation", enter the provided activation code in the dialog box, and you can successfully activate the wireless screen casting software. remarks: 1. It is known that the wireless screen projection needs to keep the screen projection device and the control box system in the same network segment, requiring the mobile phone or computer to connect to the hot spot of the control box. 2. When the product is commercially activated by default.
16	AI Box 410 Connect the stereo through the 3.5mm audio port, and the stereo has no sound when playing the video	1. Check whether the volume value of the meeting screen installation table system is set to 0; 2. Check whether the player volume is set to 0 when the video is played; 3. Check whether the sound equipment used is turned on and whether the volume is turned on to the minimum; 4. Audio system does not support hardware decoding. For example, Blu-ray HD player, the source code output is some codes related to Dolby and DTS, the audio coding in the HD source is output without software decoding, directly to the speaker or power amplifier, which is decoding by the special decoding chip of these devices, and the audio required to support DTS and Dolby hardware decoding.

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FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

RF warning:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

艾比森

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