BiJie meeting box

Type

BJ60S

user's manual

Content

Content

Important information

Safety precautions

Note

Before using BJ60S meeting box, please read this manual carefully and keep it properly for future reference.

> To turn off the main power supply, the plug must be pulled out of the power socket.The power socket should be installed close to the wireless equipment, which is easy to operate.

> To prevent electric shock, do not open the case.
> Please entrust the maintenance matters to qualified equipment maintenance service personnel.

This symbol is used to warn the user that the uninsulated power supply in the meeting box may be sufficient to cause electric shock.
Therefore, do not touch any parts inside the meeting box to prevent danger.

This symbol is used to remind the user that it contains important information about the operation and maintenance of wireless display equipement.
Read this information carefully to avoid problems.

Warning: in order to prevent fire or electric shock, the meeting box is supposed to avoid being exposed to rain or humidity. Unless the power pin is fully inserted, the plug of the meeting box cannot be used in the extension cord power socket or other sockets.

Important safety measures

These safety instructions can maintain a long service life of BiJie meeting box and prevent fire and electric shock. Please read carefully and pay attention to all warnings.

⚠️ **install**

- Please do not place the BiJie meeting box in the following environment:
  - ▸ A rickety car, shelf, or table;
  - ▸ Close to a water, bath or damp room;
  - ▸ A place with direct sunlight and close to a heating unit or thermal radiation unit;
  - ▸ A dusty, smoky or steamy environment;
  - ▸ On paper or cloth, cushion or carpet.
- If you want to install the meeting box on the ceiling：
  - ▸ Do not install by yourself;
  - ▸ Installation work must be entrusted to qualified technicians to ensure standard operation and prevent personal injury;
  - ▸ The ceiling must be strong enough to withstand the weight of the BiJie meeting box (including supports) and must be installed in accordance with local building codes;
  - ▸ Please consult your local dealer for details.

⚠️ **Notes on fire and electric shock** ⚡

- In order to avoid hot air accumulation inside the meeting box, make sure that the ventilation is in good condition and the vent is not blocked. A minimum of 10 cm should be left between the meeting box and the wall.
- Do not let paper and paper scraps fall into the inside of the meeting box. Do not insert metal objects such as wires or screws into the equipment. If any object is found falling into the equipment, the power supply must be cut off immediately, and then the qualified maintenance service personnel shall be entrusted to take out the object.
- Do not place any objects on top of the meeting box.
- Do not touch the power plug in thunderstorm days. This may cause electric shock or fire.
- The operating power supply of the power adapter of the conference box is 100 ~ 240 V 50 / 60 Hz AC. Before using the equipment, it is necessary to confirm whether the power supply used meets the requirements of the equipment.
- Use the power cord carefully. Damaged or worn power cord may cause electric shock or fire.
  - ▸ Do not use the power cord not attached to the equipment;
  - ▸ Do not bend or pull the power cord excessively;
  - ▸ Do not put the power cord under the equipment or other heavy objects;
  - ▸ Do not cover the power cord with blanket or other soft materials;
  - ▸ Do not heat the power cord;
  - ▸ Do not touch the power plug with wet hands.

- Under the following circumstances, it is necessary to turn off the meeting box, unplug the power cord and ask qualified maintenance personnel to repair the equipment:

  ▶ The power cord or plug is damaged or worn;

  ▶ There is liquid flowing into the equipment or the equipment is exposed to rainwater;

  ▶ You follow the instructions in the user's manual, but the device is not working properly;

  ▶ The equipment falls to the ground or the chassis is damaged;

  ▶ Obvious abnormal changes in equipment performance indicate that maintenance is needed.

- Disconnect the power cord and other wires when moving the equipment.

- Turn off the equipment and unplug the power cord before cleaning the chassis.

- If the device is not used for a long time, turn off the device and unplug the power cord.

1 Product Information

BJ60S meeting box is an enterprise level wireless display device. It is compatible with Airplay, Miracast, WiDi and BJCast wireless display protocols. It supports smart phones and PC computers to conduct screen image and display on the same screen through wireless way. It is the best choice for enterprises to efficiently work, wireless display for education and release products for exhibition.

1-1

Main advantages：

▸ **Wireless display:** It supports the video, music, PPT and other multimedia content from mobile phone, pad and PC to TV, projector and other terminal devices for wireless sharing and viewing.

▸ **hotspot coverage**: BJ60S supports AP hotspot function and can provide local hotspot coverage.

▸ **Independent audio：** Independent 3.5mm audio output interface is provided to facilitate audio system integration.

▸ **Support zoom**: in the case of multi-channel projection, you can touch the icon to enlarge the target screen.

▸ **Terminal compatibility:** Fully compatible with Android, iOS, Windows system intelligent terminal equipment, support Miracast①, Airplay②, WiDi③, BJCast④ protocols.

▸ **USB transmitter display (Optional)：** Optional USB transmitter, PC (Windows / MAC) computer can use it to wirelessly display.
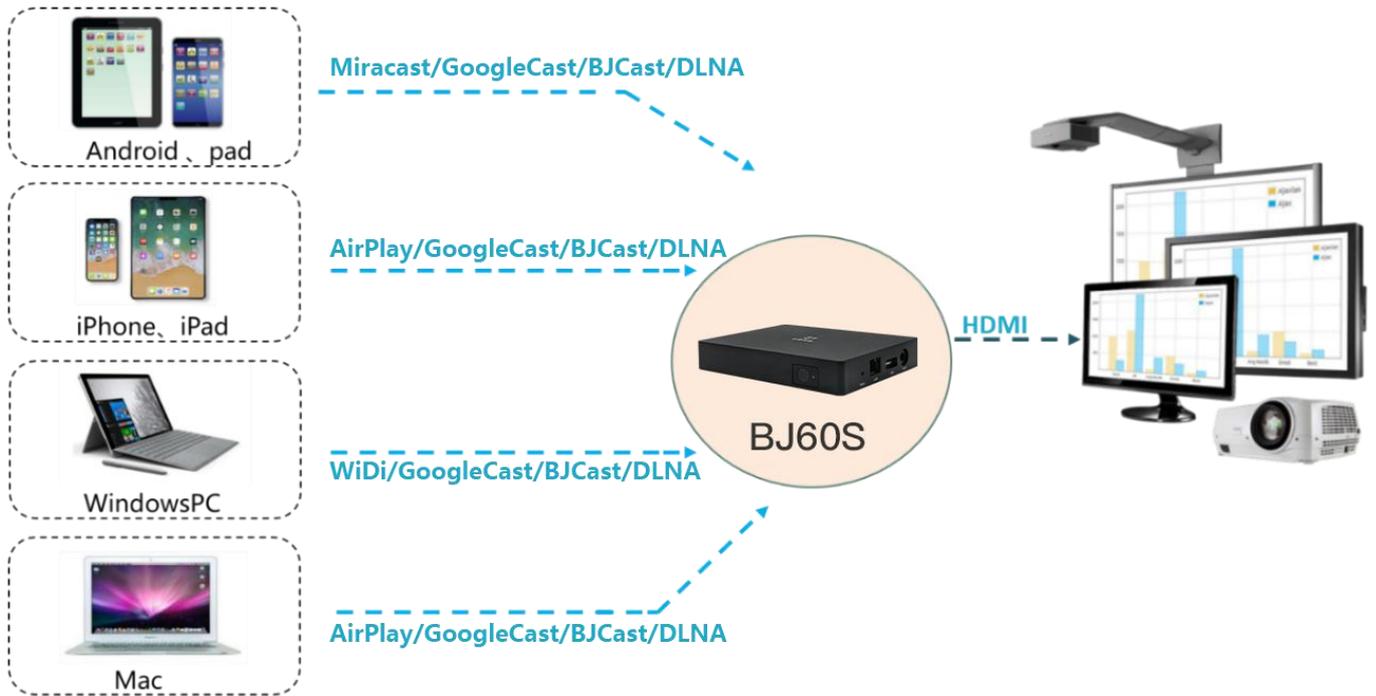
Miracast/GoogleCast/BJCast/DLNA

Android、pad

AirPlay/GoogleCast/BJCast/DLNA

iPhone、iPad

WindowsPC

WiDi/GoogleCast/BJCast/DLNA

Mac

AirPlay/GoogleCast/BJCast/DLNA

HDMI

BJ60S

1-2

▸ Device/SSID : BJ60S_7332

▸ IP: 192.168.12.48

Use the app to scan QR code to start screencast

BiJie_link

No need to install software
Compatible with native Wireless Display protocols

Mac / PC   Android   iOS   Windows 10

Introduction:

1. Miracast   2. Airplay   3. WiDi

Android's native wireless display   Apple's native wireless display   Windows10's native wireless display(Hotkey: Win+K)

1-3

Note：

1.Miracast①：Miracast users can browse photos taken by smartphones on large screen TVs, share notebook screens in real time through meeting room projectors, or watch live TV programs from home TV set-top boxes on tablets. Miracast via Wi-Fi certified Wi-Fi direct™ form a connection without having to access any Wi-Fi network.

2.AirPlay②：Airplay protocol is a kind of playing technology added by apple in iOS and OS X system. It can transfer the video image of iPhone, iPod touch, iPad and MAC to the device supporting Airplay.

3.WiDi③：Widi (Intel Wireless Display) is the full name of wireless high-definition technology. It realizes the wireless connection between computer and display device through WiFi signal.

4.BJCast④：BJCast protocol is a wireless display protocol independently developed by our company, which supports the transmission and sharing of mirror images between mobile devices.

1.1 Equipement packaging

No.	Product	Apperance	Number	Unit
1	BiJie Meeting Box* host		1	set
2	Power adapter*5V2A		1	set
3	DC power line		1	piece
4	HDMI cable		1	piece
5	certification		1	set

1.2 Equipement Interface

No.	Interface name	Interface number
1	front	LED indicator light * 1
2	Left	USB interface*1
		3.5mm audio output interface * 1
		LAN*1
		Reset key*1
3	back	Power button*1
		HDMI video output interface*1
		USB interface*1
		DC5V interface*1

1.3 Device connection

1.3.1 AP hotspot connection

Connect the meeting box and TV (or projector) through HDMI cable, and the display box will be powered on.

The first time the meeting box is powered on, the AP hotspot is turned on by default. The mobile phone and PC can directly connect to the SSID of the wireless display box to cast the screen.
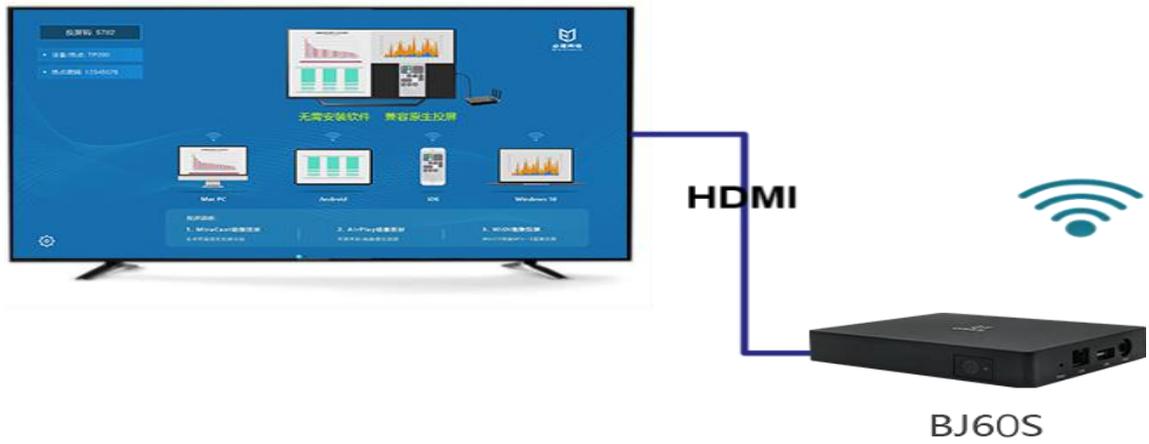
1-4

1.3.2 STA/wired connection

Connect the meeting box and TV (or projector) through HDMI cable, and the display box will be powered on.

The meeting box can be set to STA mode (connected to the internal LAN through WiFi), or directly plug in the network cable to connect the meeting box to the internal network of the enterprise.
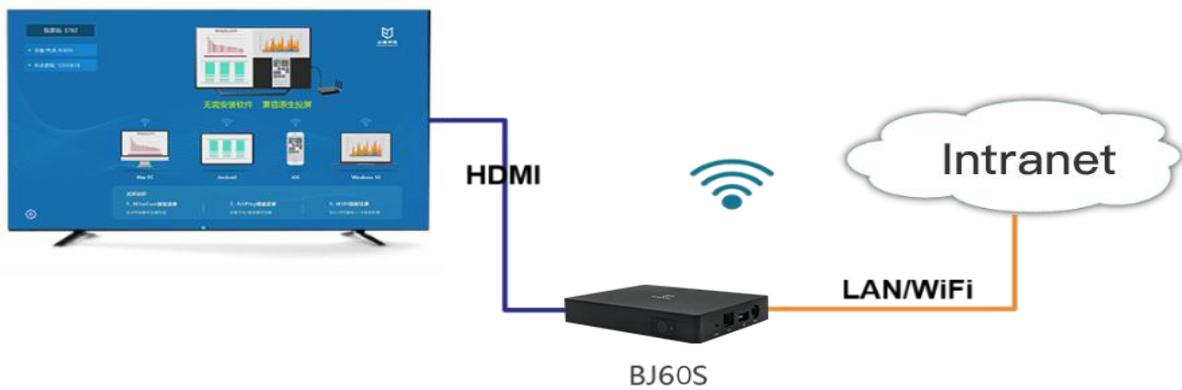
1-5

2   Display box setting

2-1

2.1 System information presentation

After the meeting box is turned on successfully, the presention device can present the system configuration information of the machine. BJ60 has "discovery mode" and "short code mode".

"Discovery mode" and "short code mode" can be switched through the design menu.

Function / mode		Discovery mode	Short code mode
Native Airplay display		√	✕
Miracast display		√	✕
WiDi display		√	✕
APP/PC client software display	Android	√	√
	iOS	√	√
	Windows	√	√
	Mac OS	√	√
USB Transmitter display		√	√
PIN display encryption		√	✕
APP Software QR code display		√	√
APP Client software QR code display		✕	√
PC Client software short code display		✕	√
Box unified management platform		√	√

2.1.1 Discover mode interface

2-2

2-3

No.	Functional area	illustration
1	**Infomation presentation**	**Device / hotspot:**The device name and AP hotspot SSID name of the machine, and the device name should be consistent with the AP hotspot name; **Hotspot password：** Log in the the wireless password of the local AP hotspot; **IP address：** IP address information of the device
2	**Operating instructions**	Simple operation instruction wallpaper

	wallpaper	
3	**Setting key**	Connect the USB port of the display box with the mouse, and click the setting button to set and adjust the parameters of the display box

2.1.2 Short code mode interface
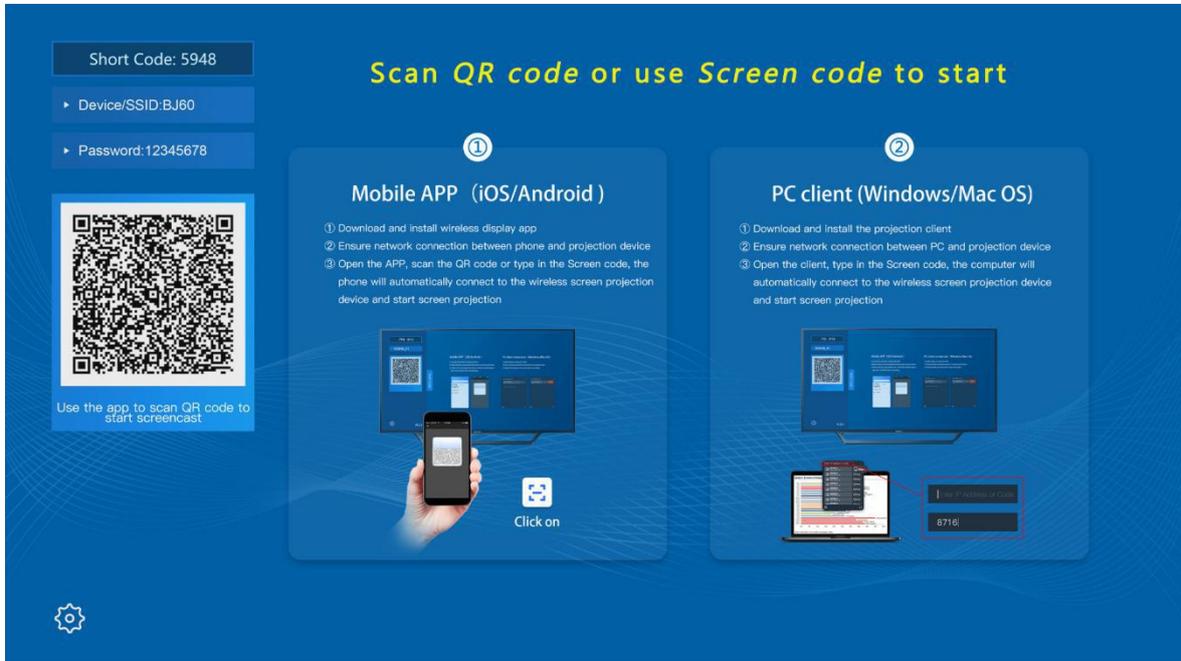
2-4
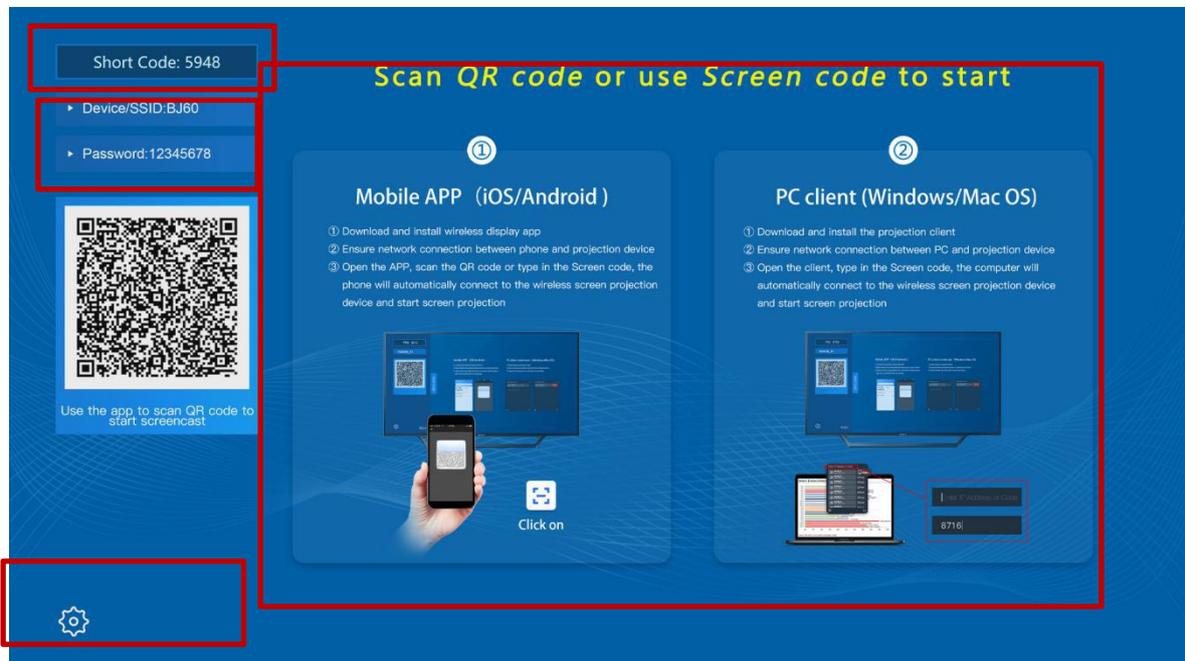
2-5

No.	Functional area	illustration
1	**Short code**	The short code is only applicable to the "short mode" using the client mode, and the client only needs to input the short code to complete the display. (the short code mode requires that the box can be connected with the cloud management platform in real time)
2	**Infomation presentation**	**Device / hotspot:** the device name of the machine;
3	**Operating instructions wallpaper**	Simple operation instruction wallpaper
4	**Setting key**	Connect the USB port of the display box with the mouse, and click the setting button to set and adjust the parameters of the display box

2.2 Display box configuration interface

2.2.1 Preparation before configuration

Prepare a mouse with USB interface and insert it into USB port of display box.

2-6

2.2.2 Configuration interface

Click the configuration button in the lower left corner of the system home page to enter the display box configuration interface. (the display box is in the configuration interface and cannot be displayed).
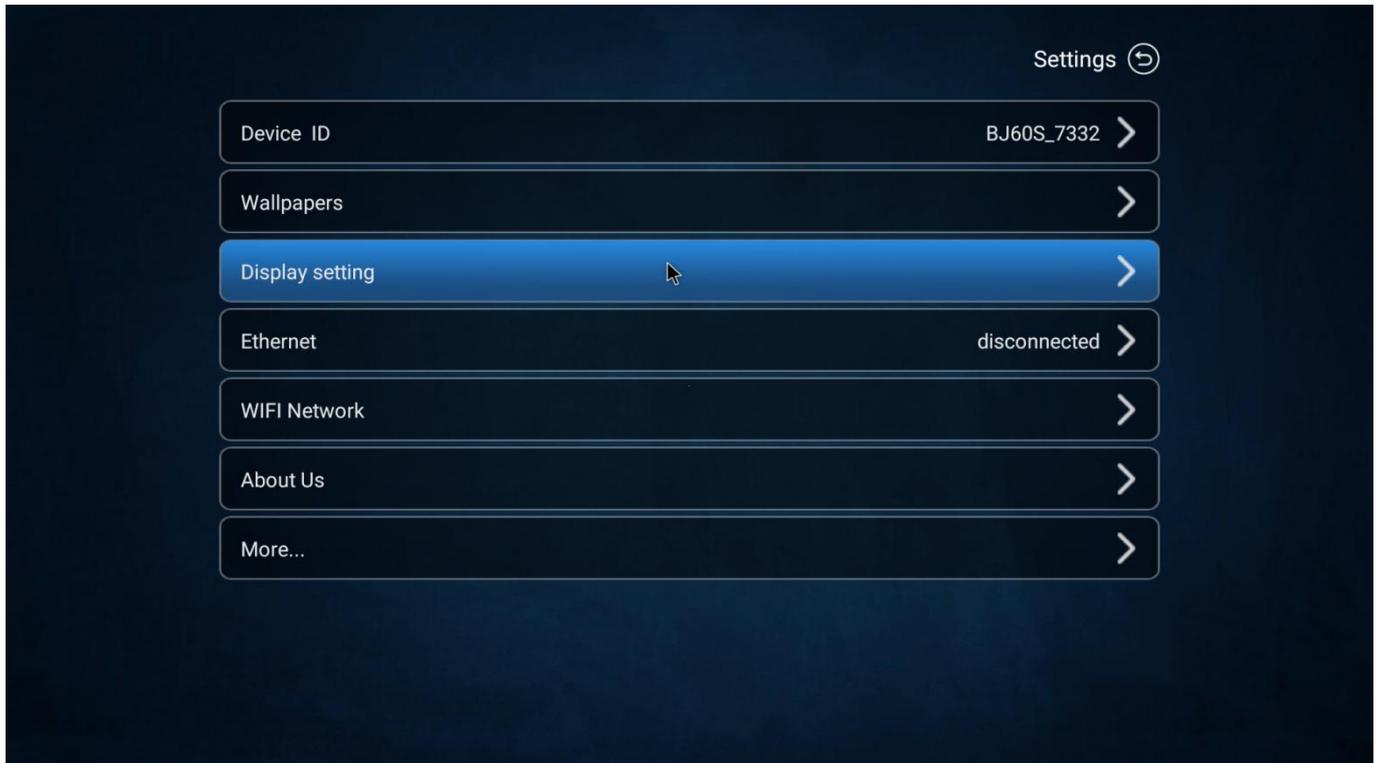
2-7

2.3 Device ID

Click "device ID" to customize the name of the display box.
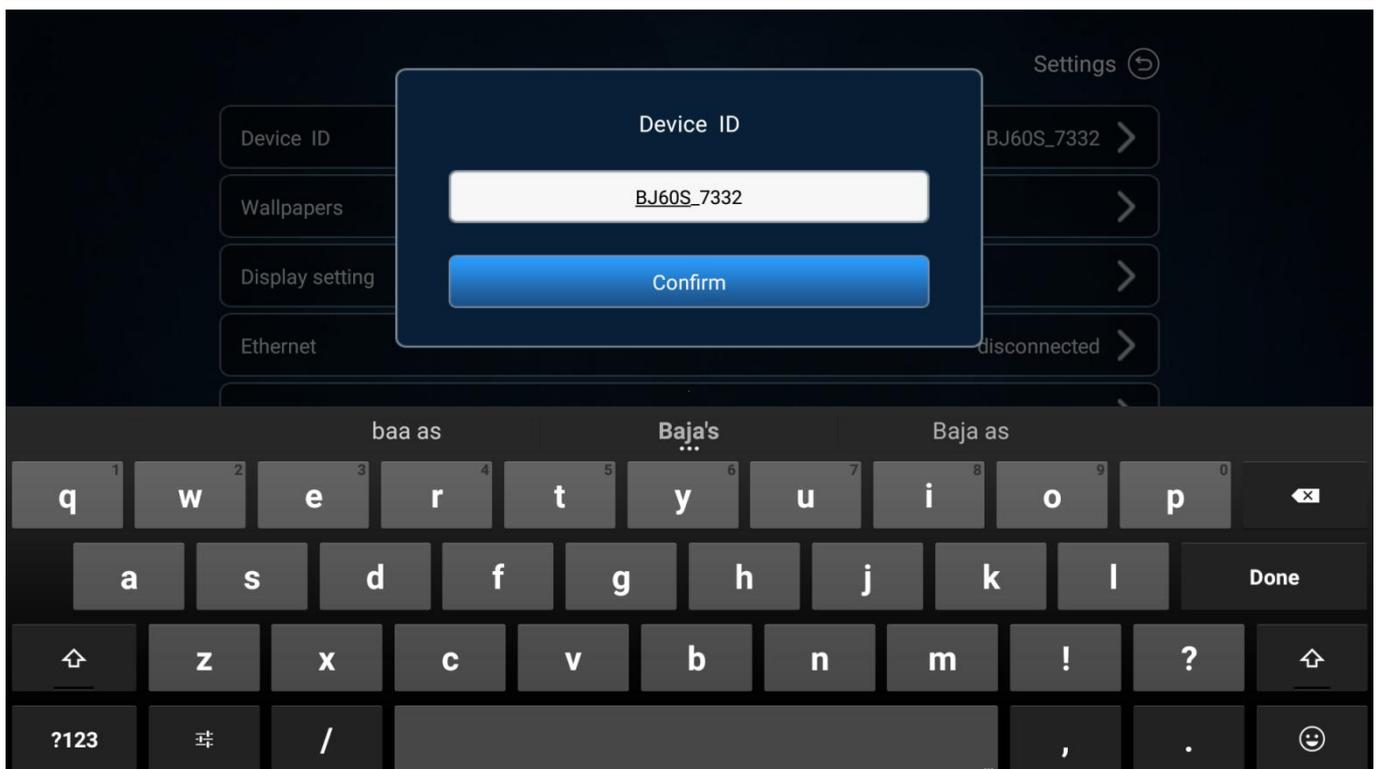
2-8

2.4 Wallpapers

Users can customize and change the desktop wallpaper of the display device. Prepare a USB flash disk, copy the wallpaper into the USB disk, and insert it into the USB interface of the display box. Click "desktop wallpaper" with the mouse, you can customize the wallpaper of the display box.

Wallpaper material resolution requirement 1920 * 1080
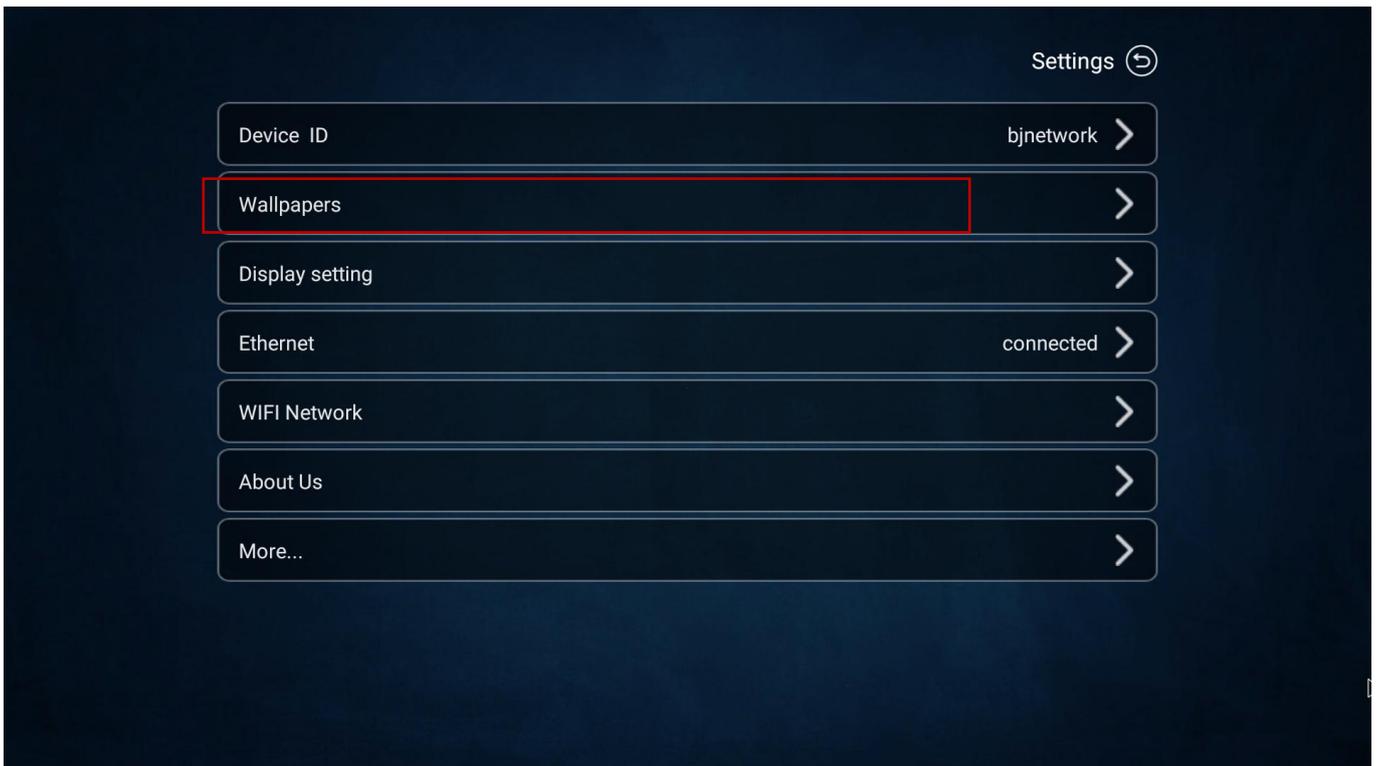
2-9
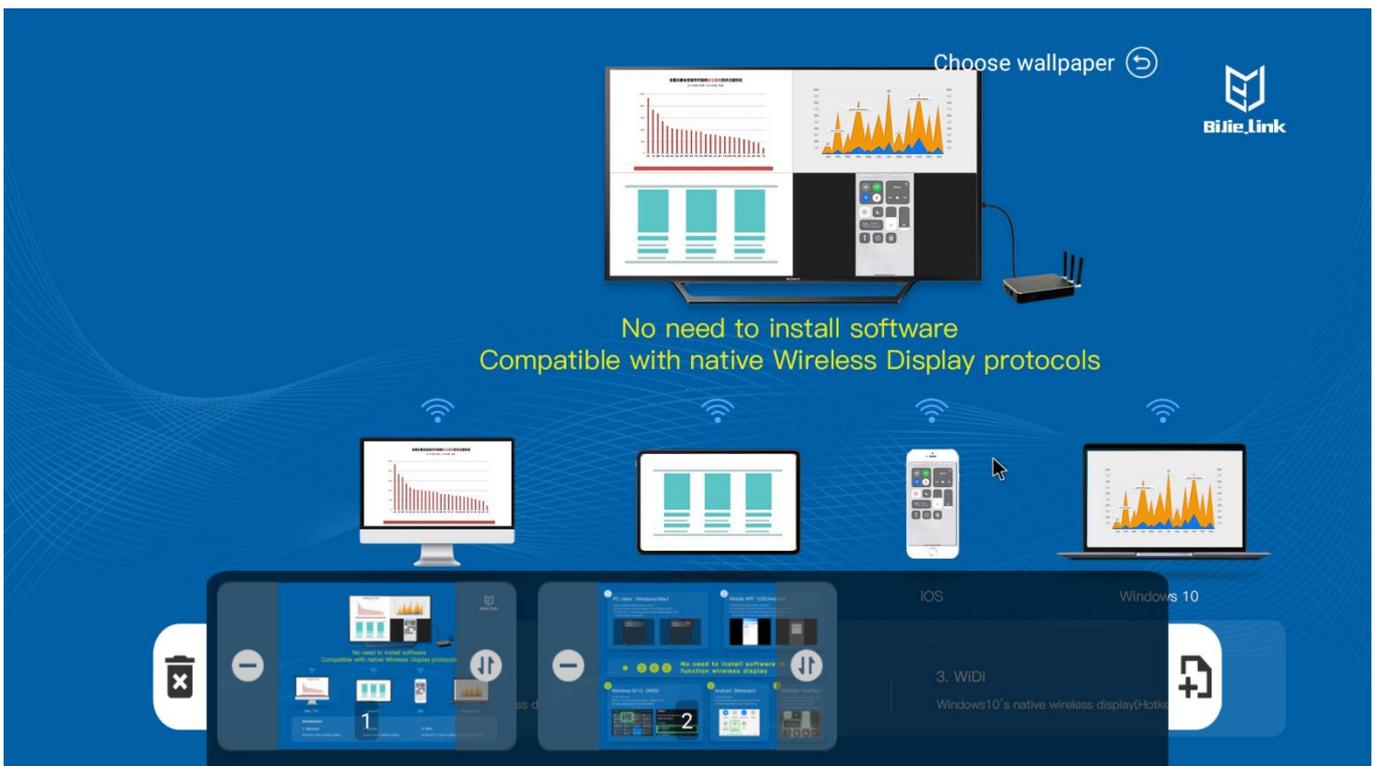
2-10

2.5 Interface setting

The user can customize the display information of the screen projection device: suspension window information, home page QR code, home page AP password, wallpaper scrolling function, home page IP, and screen projection

device information.
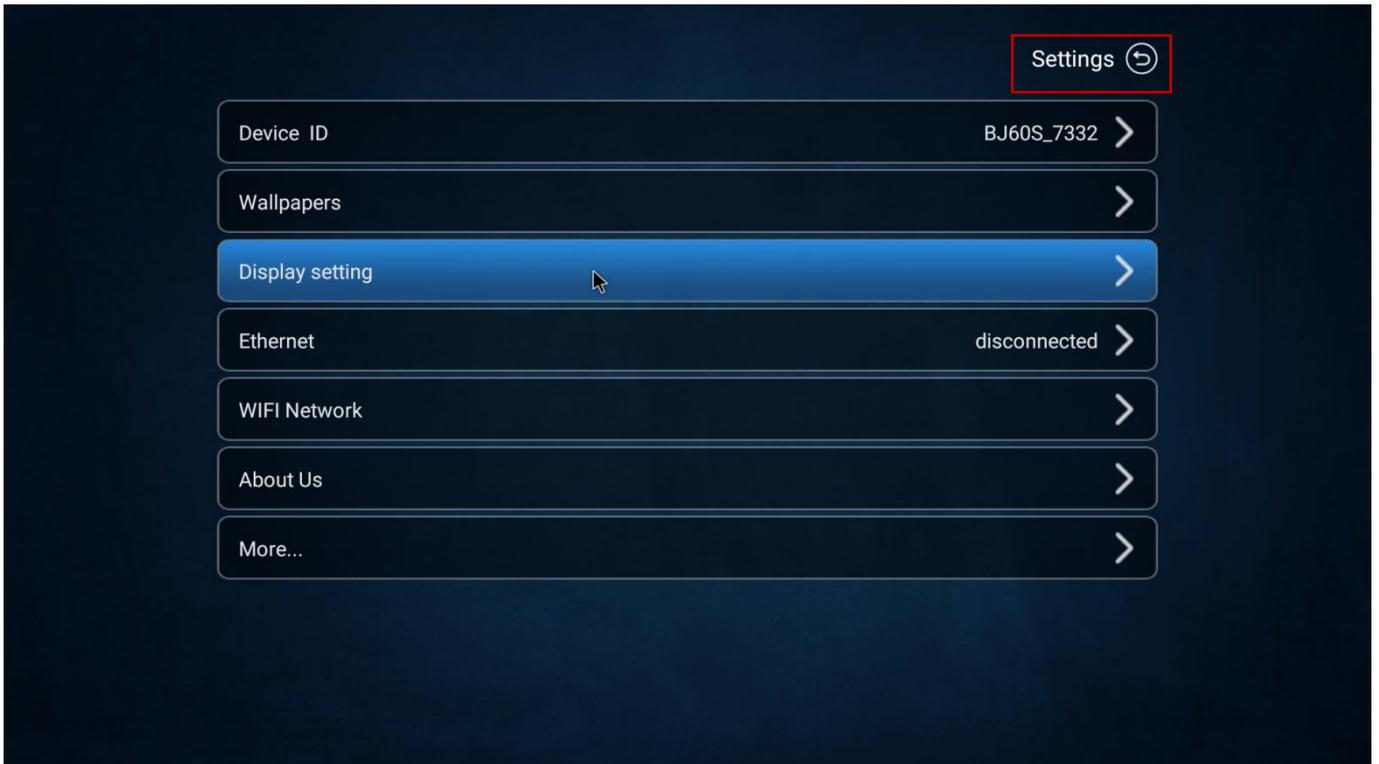
2-11
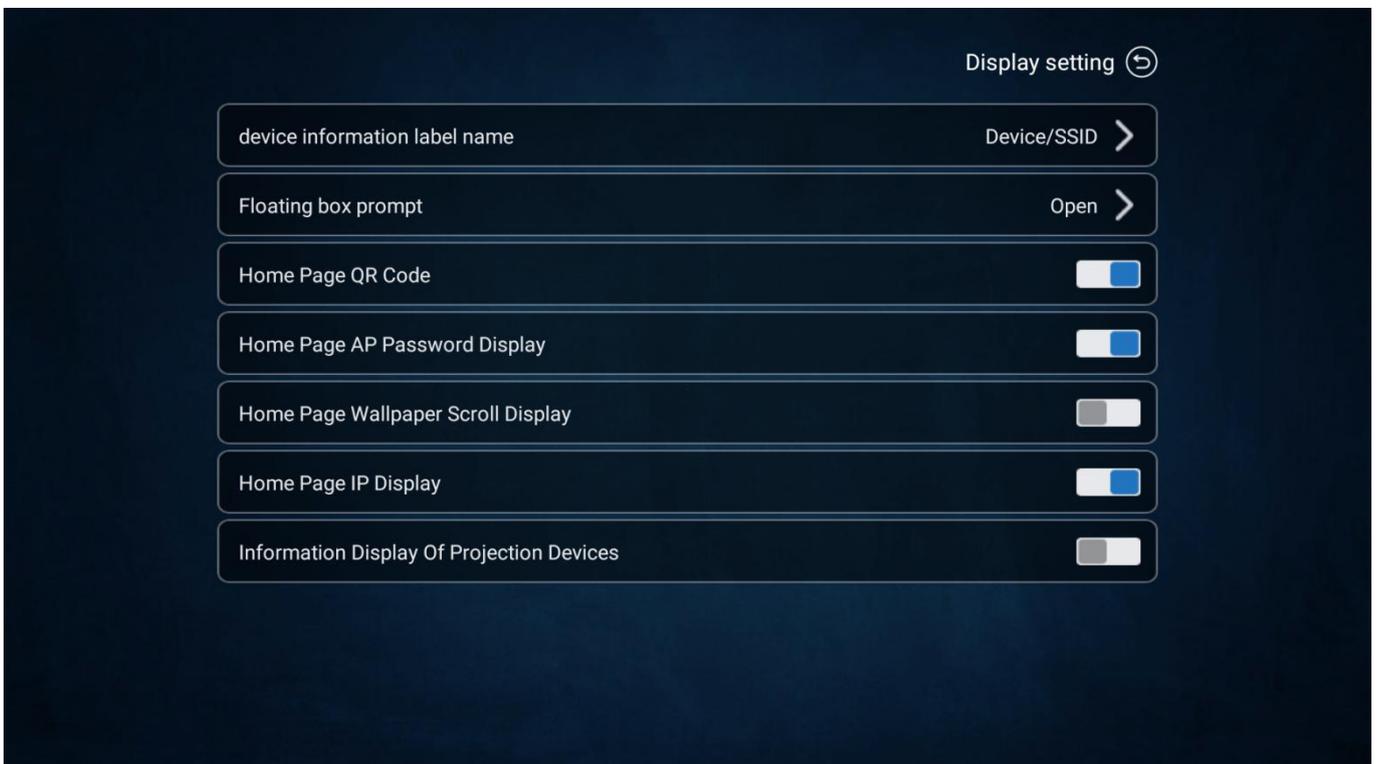
2-12

2.6 Wired network

When the display box is inserted into the wired network, the box will automatically present the network connection status.

2.7 WiFi network

The "WiFi network" setting can adjust the working mode of the local wireless module, which can be set to"AP mode" and "STA mode".

AP mode：provide local AP hotspot coverage function;

STA mode: turn on WiFi connection function of display box

Note: to delete the WiFi connection password, please use the mouse to long press the connection SSID.
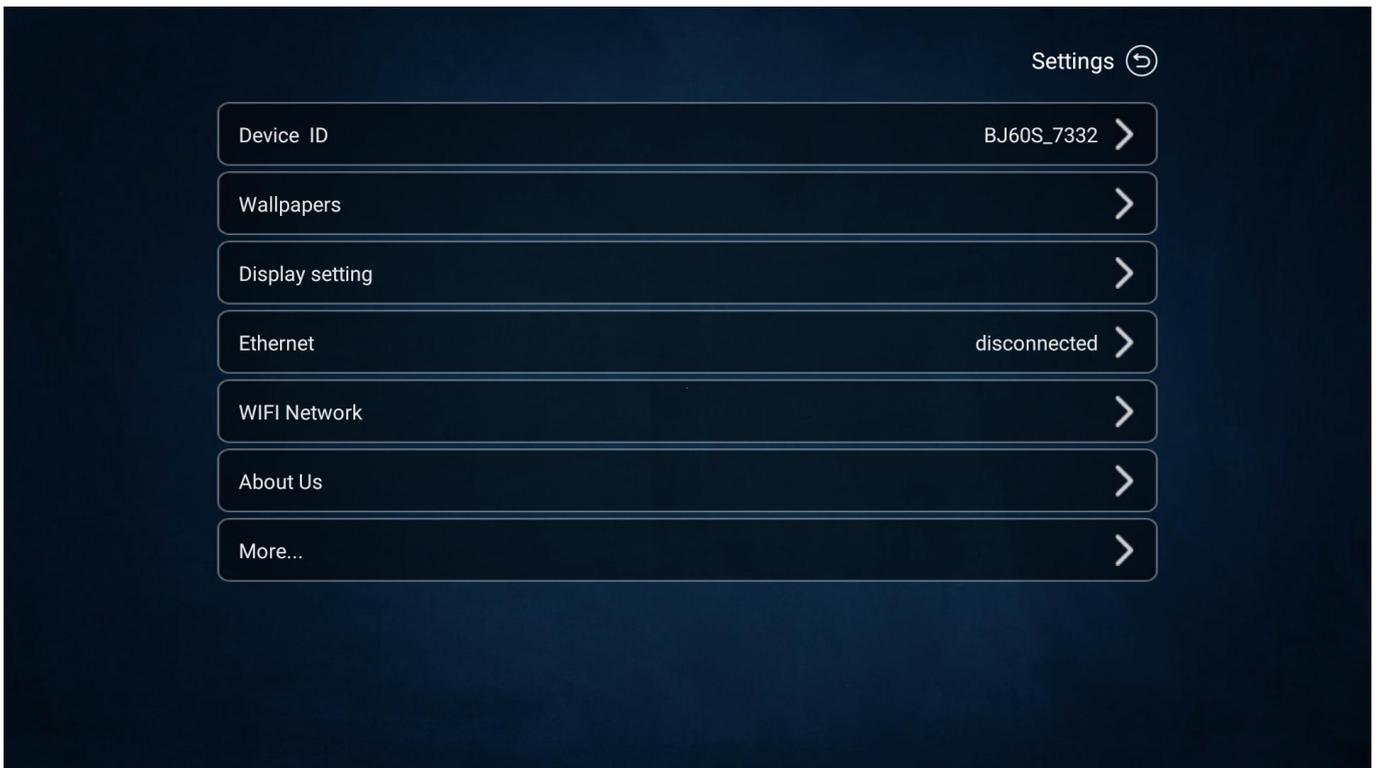
2-14

2.7.1 AP mode

In AP mode, the hotspot name is consistent with the local device name, and the AP hotspot connection password can

be customized.

At the same time, the channel of AP hotspots can be customized. 1 ~ 11 is 2.4G bchannel, 153 ~ 161 is 5G channel.

2-15

2.7.2 STA mode

In STA mode, the wireless display box will automatically search for the wireless network that can be connected, so customers can choose the connection according to their need.

To disconnect the WiFi connection, please select the currently connected WiFi network with the mouse, left click and long press to pop up the dialog box, and follow the prompts.
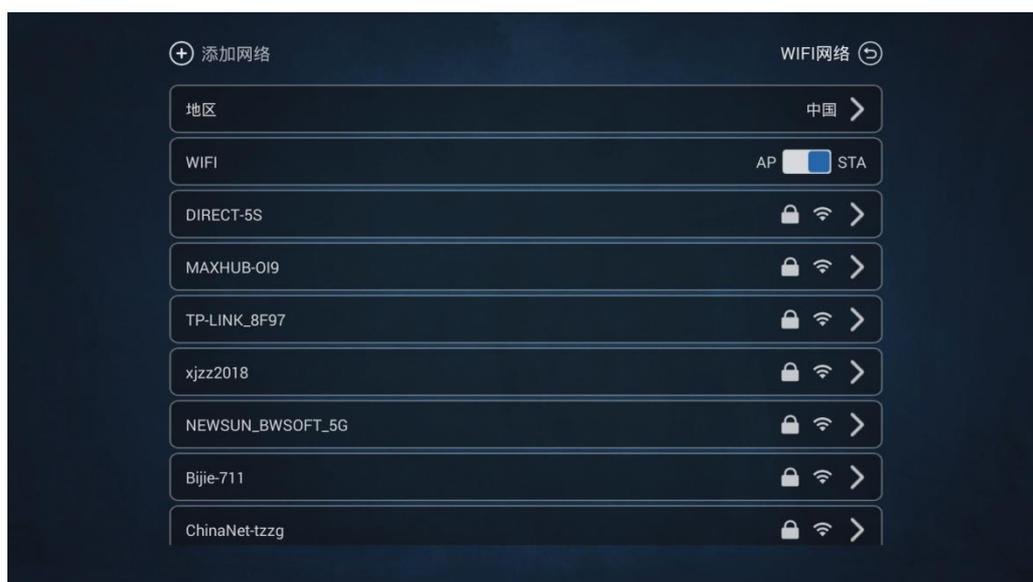
2-16

2.8 About us

2-17

2.9 More settings
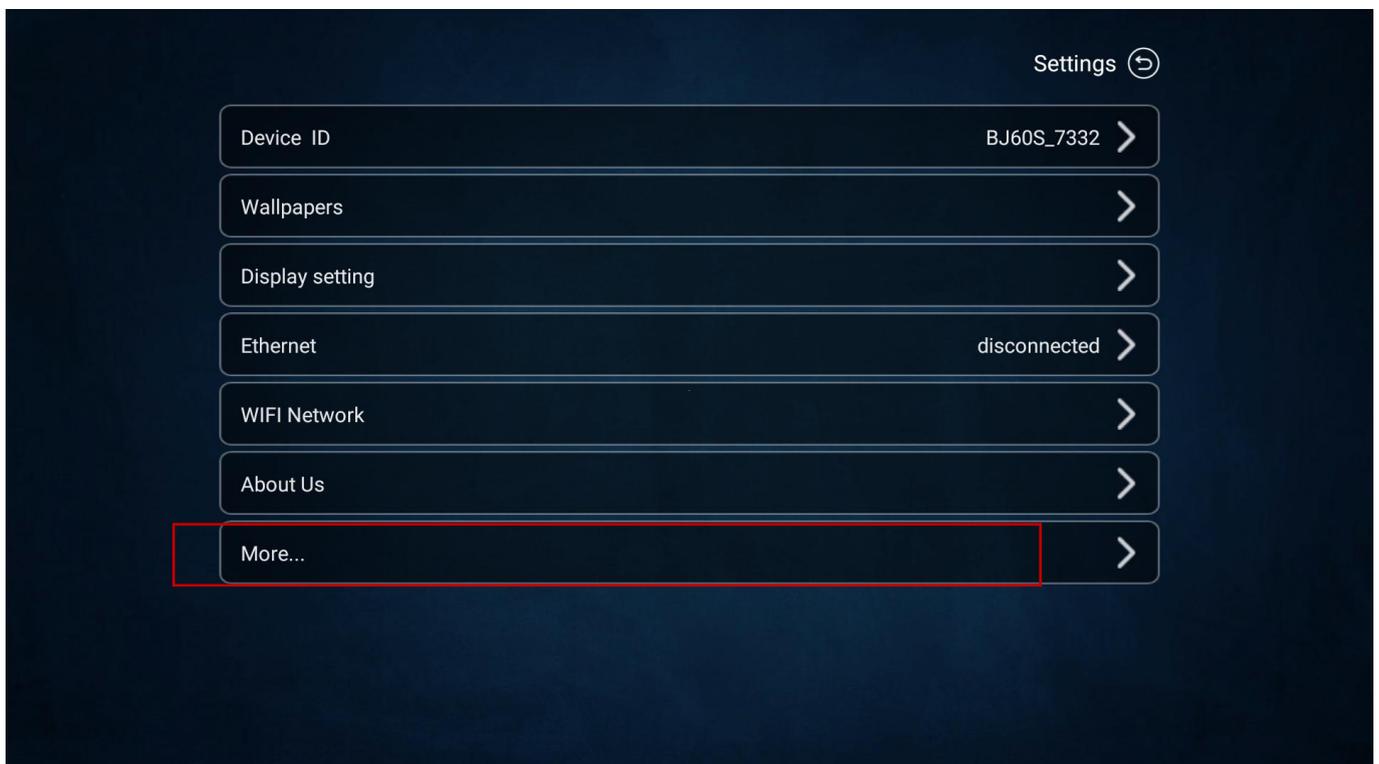
2-18
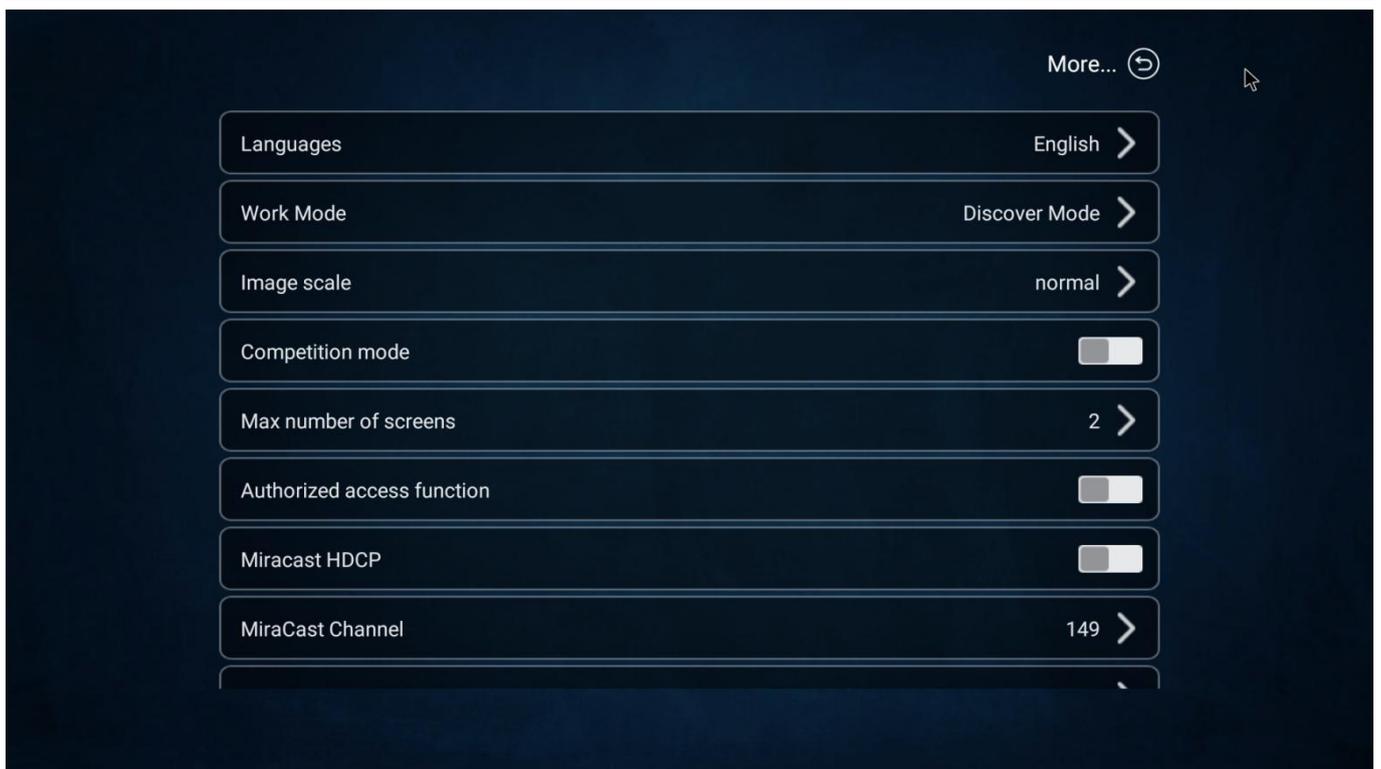
2-19

2.9.1 Select language

Users can set the system language of the display box to "simplified Chinese", "traditional Chinese" "English"and "French".
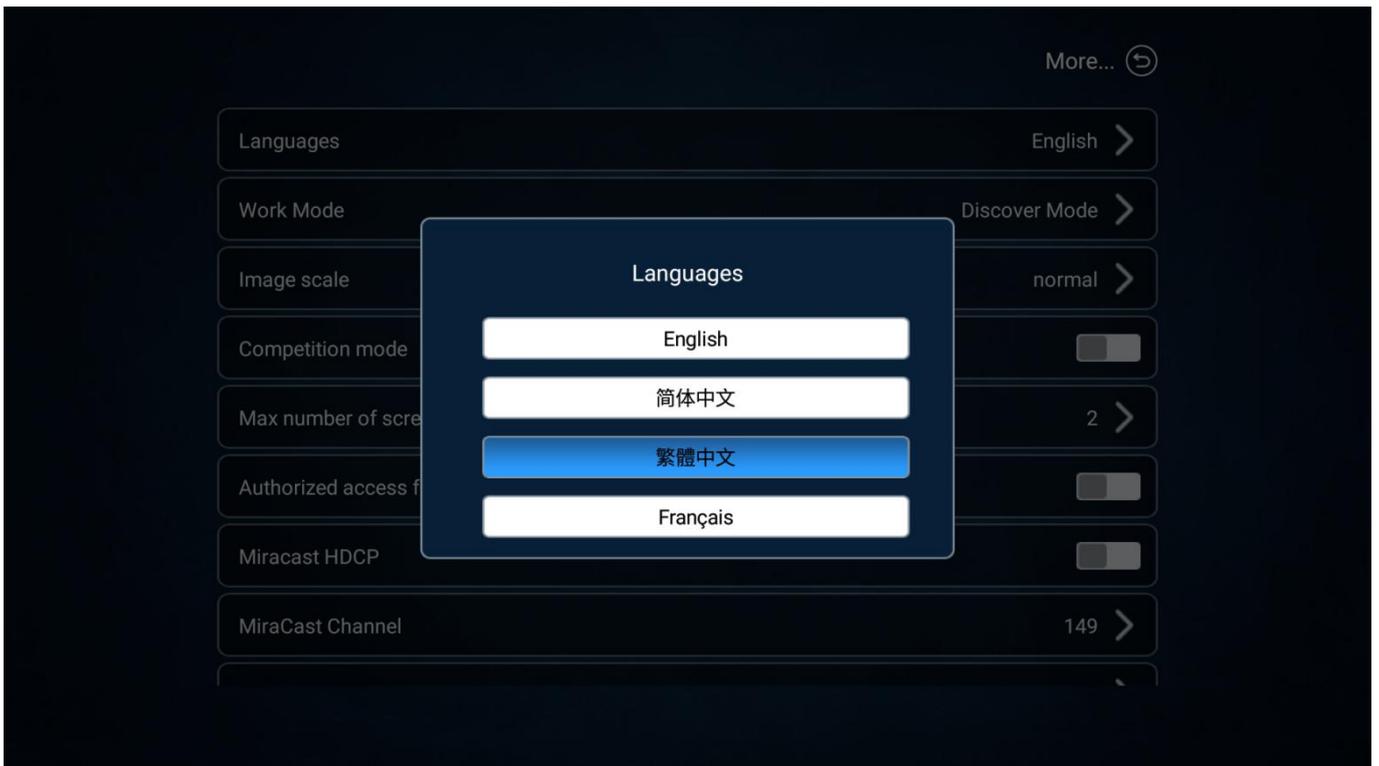
2-20

2.9.2 Wireless display mode

The settings of "discovery mode" and "screen projection mode" can be switched.

2-21
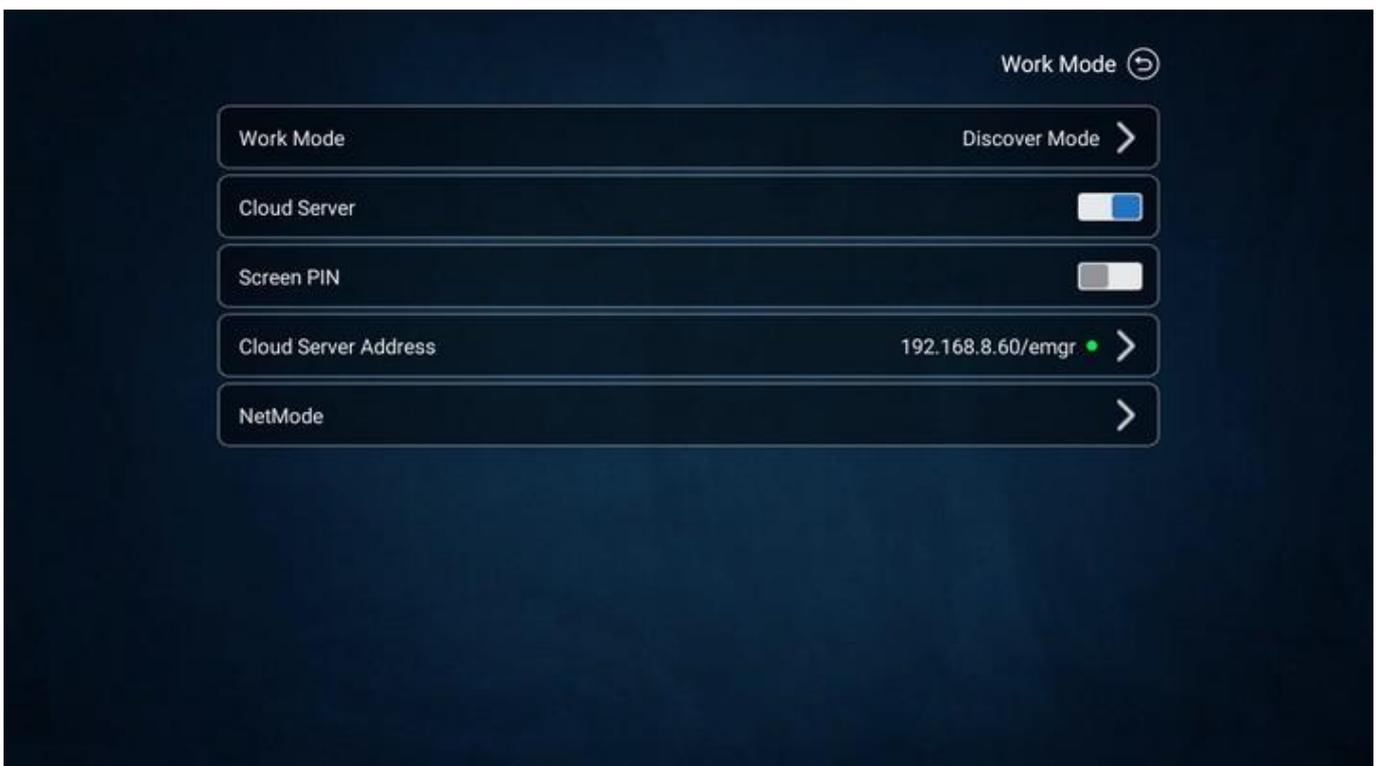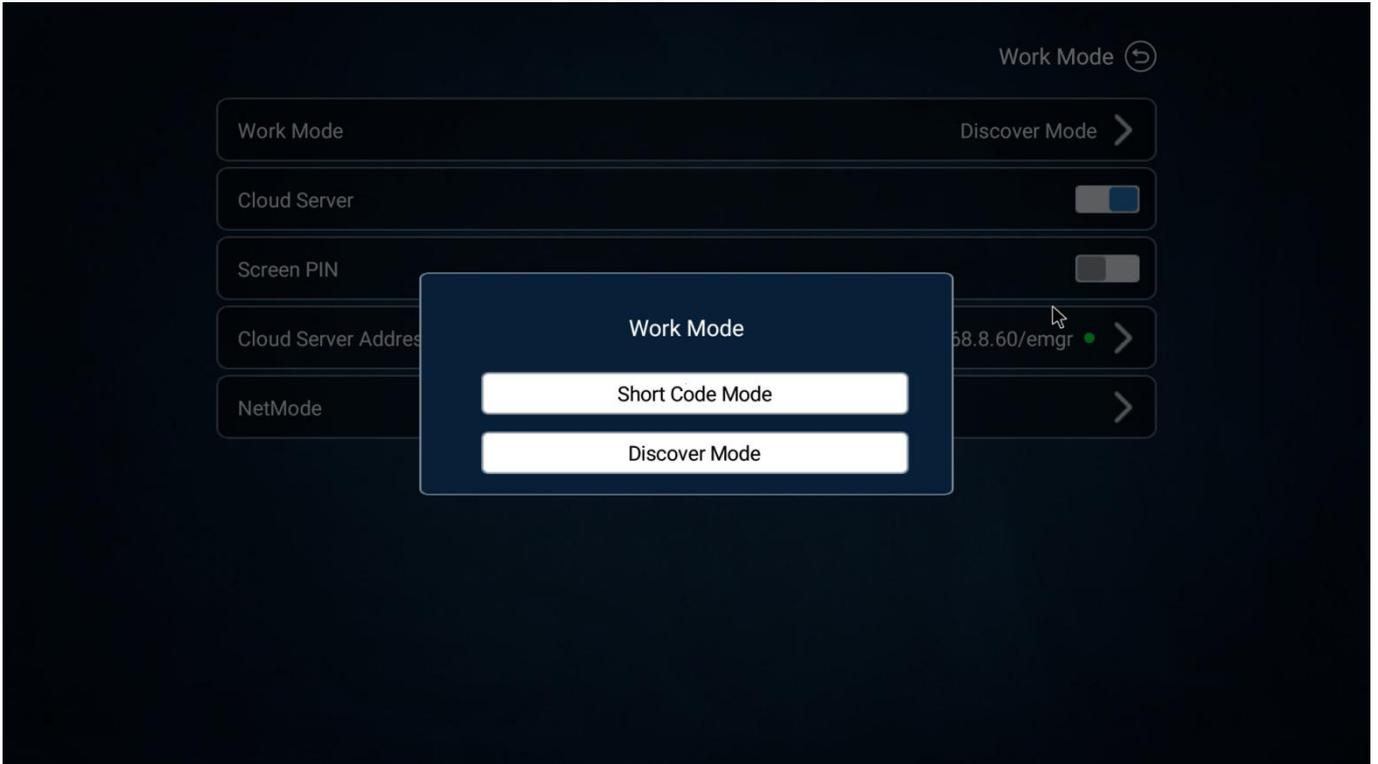
2-22

If the screen projection device needs to support the unified management platform, the IP address of the service platform should be filled in the server address of the cloud management platform.
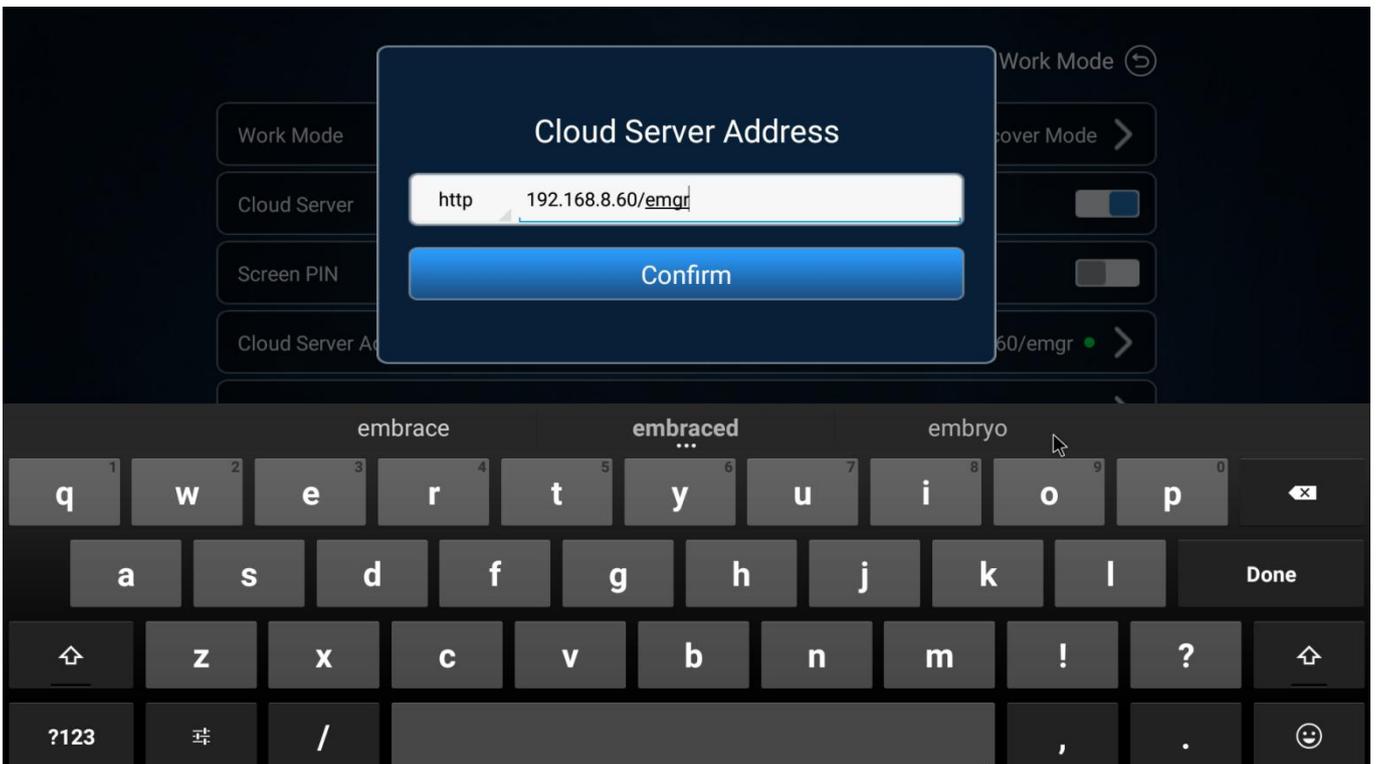
2-23

2.9.3 Picture scale

The display ratio of the screen projection can be adjusted. There are two modes of "normal" and "full".

2-24
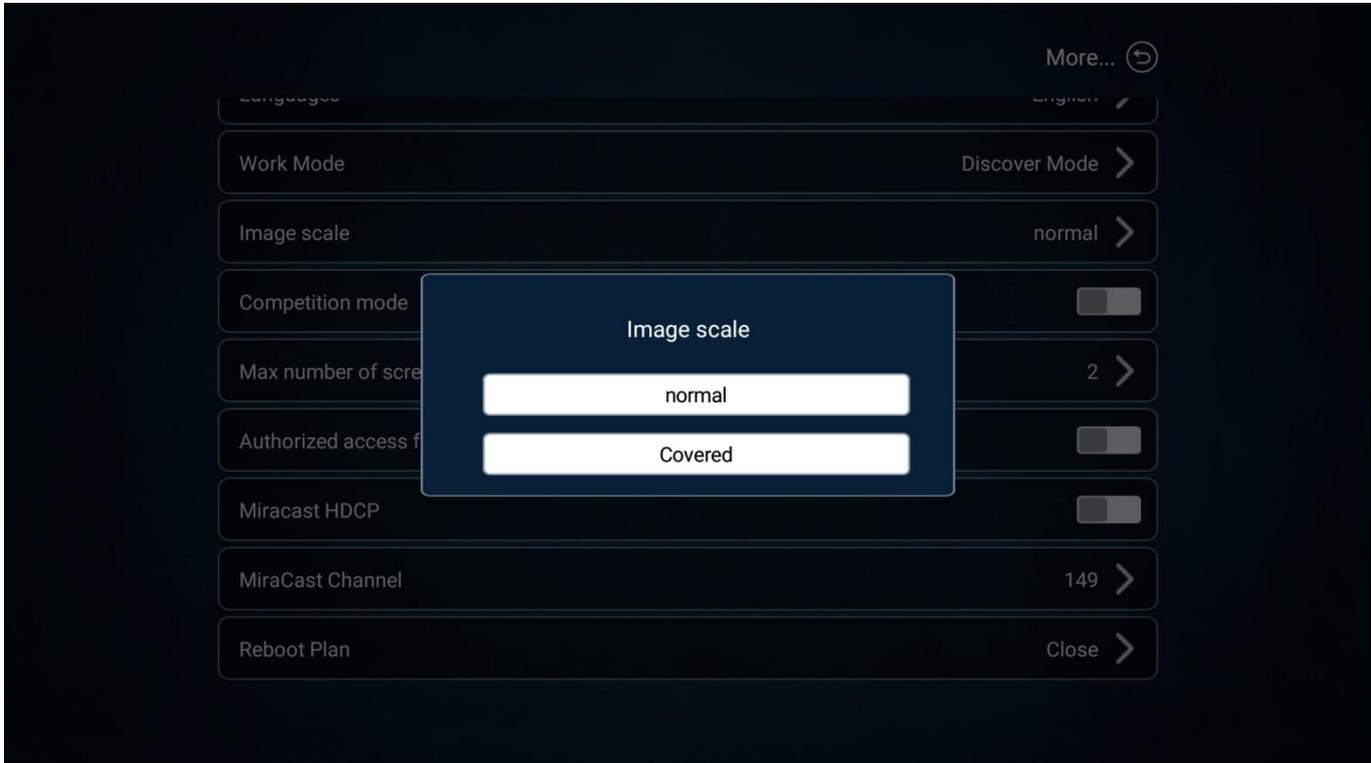
2.9.4 Competion mode

Turn on the competion mode. When the user starts to wireles display, the previous user will be kicked out of the screen display.

2-25

2.9.5 Maximum number of screens

The maximum number of screens can be set to the number of screen projection devices at the same time, and the maximum support is 2 split screen.
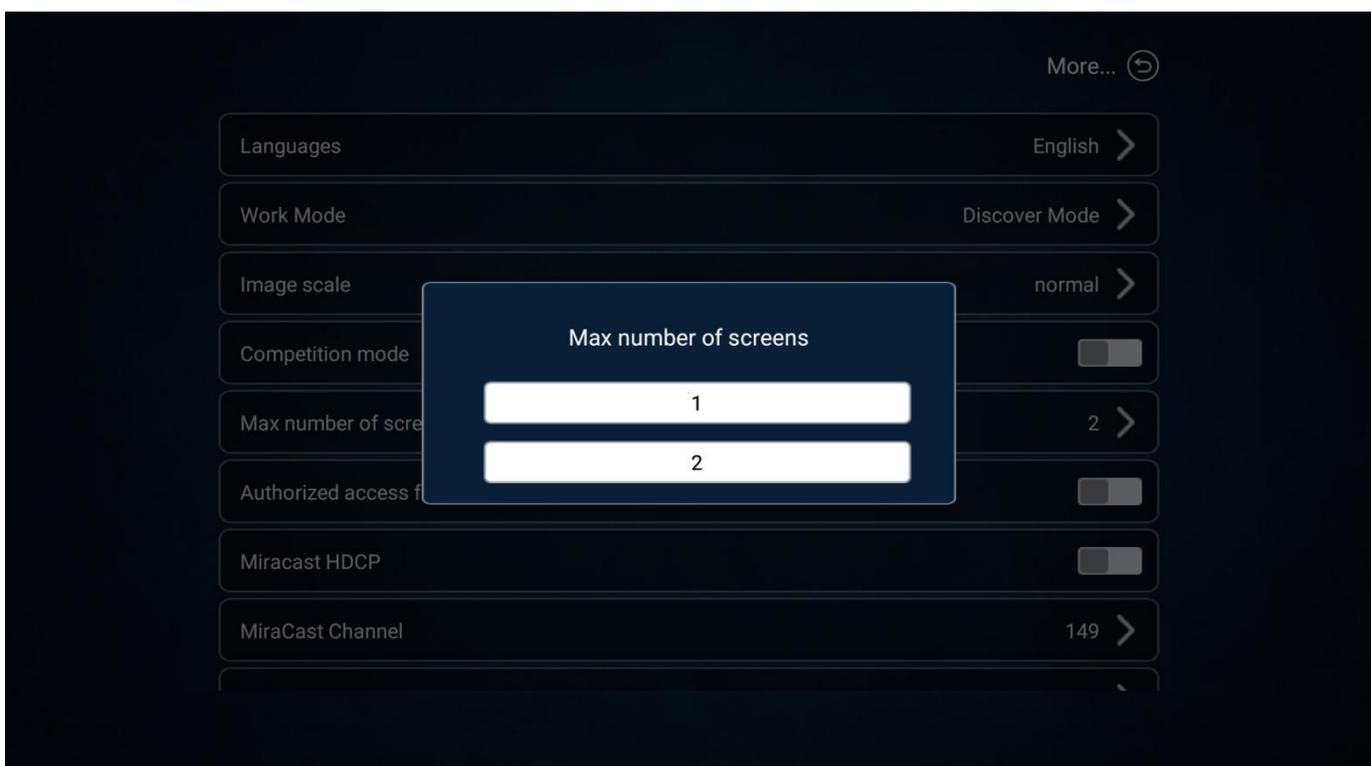
2.9.6 Authorized access function

The authorized access function supports whether the user authorizes to present the screen on the monitor.

2-27

2.9.7 Miracast HDCP

Miracast　HDCP turn on the button, click to open"Miracast　HDCP" function.

2-28

2.9.8 Miracast channel

The screen projection equipment supports the replacement of Miracast projection frequency band channel adjustment.

2.4G band：1~11 channel

5.8G band：149~161 channel

2-29

2.9.9 Reboot plan

Wireless display device support customize restart plan.
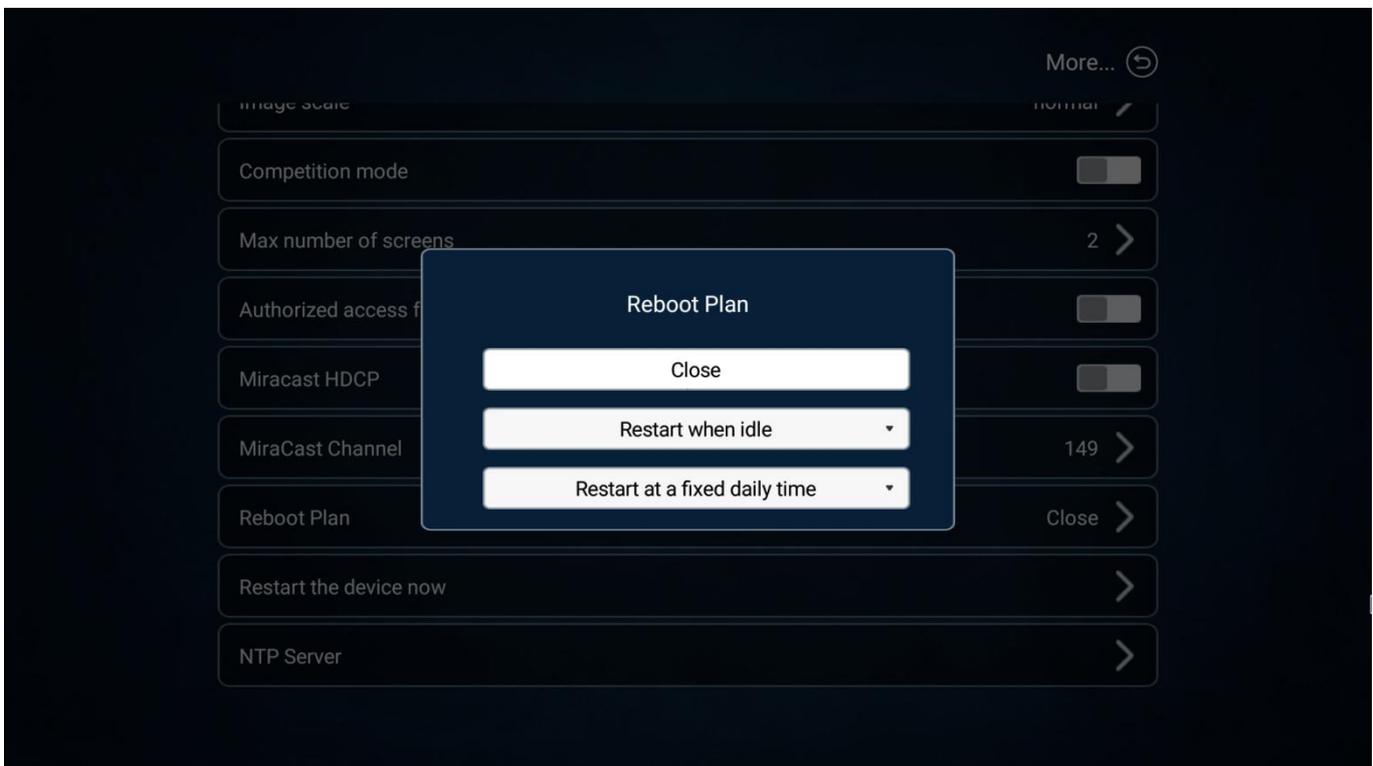
2-30

2.9.10　Restart now

Wireless display device support restart now.
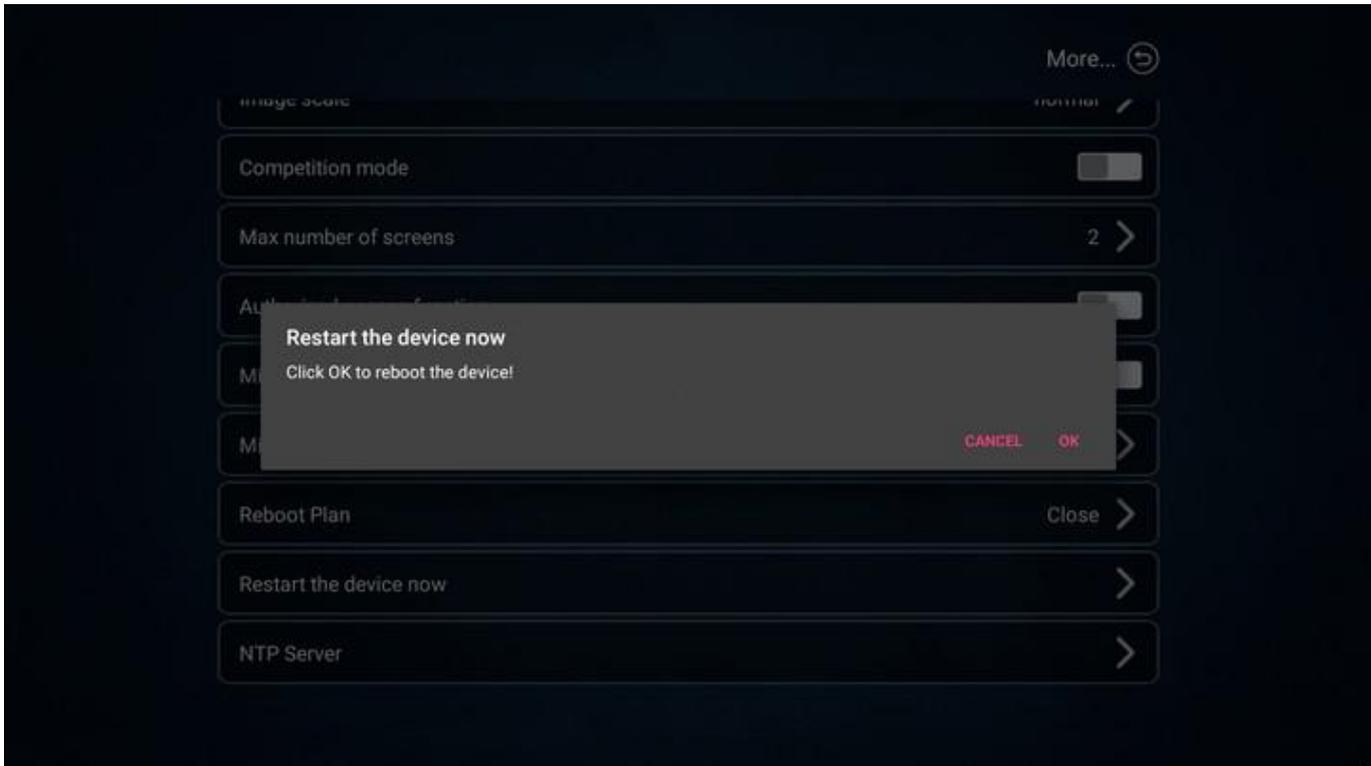
2-31

2.9.11　NTP server

Set the screen projection box time and network time synchronization.

2-32
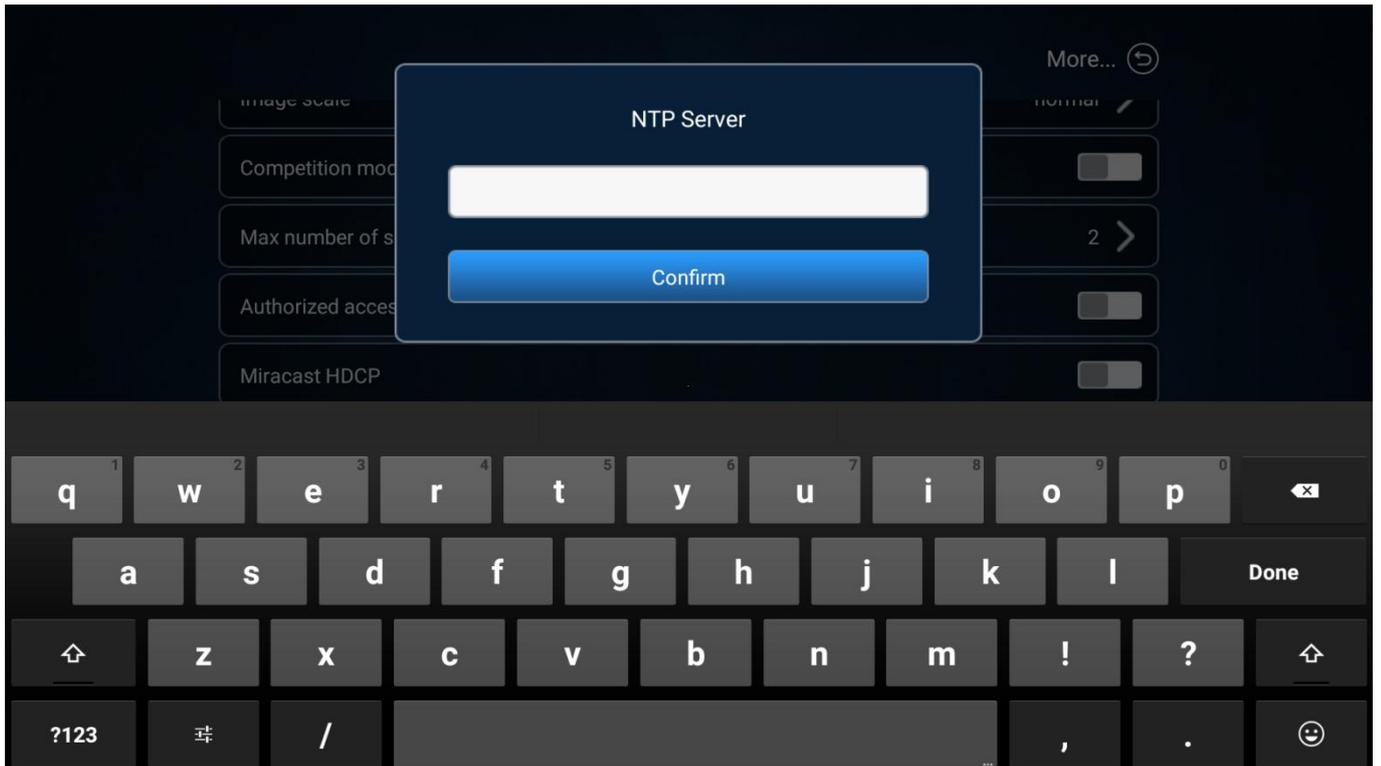
3 Terminal wireless display instructions

3.1 Miracast on Android device

BJ60S meeting box supports smartphones and tablets with Android version 4.4 or above. In general, click "multi screen interaction", "wireless display", "screen mirroring" and " WLAN direct connection" under the "Settings" interface of mobile phone or tablet computer (or use the shortcut of Android screen drop-down menu) can start the wireless presentation function of the mobile phone, then select the BJ60S device and connect, and the mobile phone screen will be displayed on the display device synchronously.
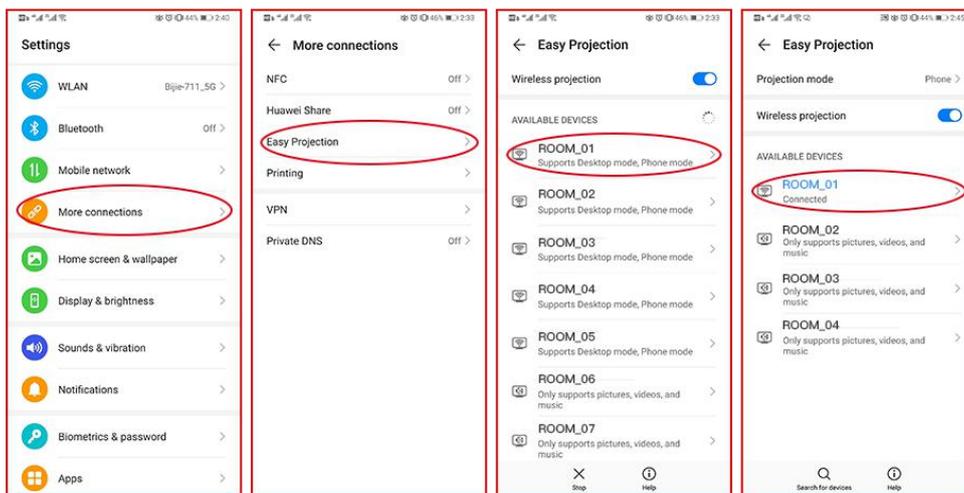
3-1

Different brands of Android terminals have different ways to cast the screen. For common screen casting methods, please refer to the following operation steps.

Huawei	Drop down menu - multi screen interaction / intelligent assistant / wireless display
MI	Settings - more connections - wireless presentation
Samsung	Settings - more settings - screen sharing or drop-down menu - Smart view
Meizu	settings—presentation—display screen
vivo	Settings - more connections - wireless display
oppo	Settings - more connections - multi screen interaction

Note：

① For a specific mobile phone model, you need to open the terminal WiFi to use the miracast display function;

② If the connection still fails or the box cannot be found, it may be that your phone does not support the Miracast function.

3.2 Android device APP display

1) Scan the QR code of the system page of the wireless display device and download the APP display software

2) Install "wireless display APP".

3) According to the APP prompt, select the display device and start the image display

3-2

①	QR code scanning button, scanning QR code to wireless display
②	The setting key can adjust the setting parameters of the client
③	Input box: In the discovery mode, input the IP address of the display device to directly connect the device to display; In the mode of short code mode: input the short code to directly connect the device for display.
④	Equipment for display
⑤	"Start casting" button
⑥	"Full screen" button
⑦	"Stop display" button

3.3 Airplay on iOS device

The wireless same screen function of iOS intelligent terminal adopts the Airplay mode to display.

BJ60S meeting box supports iPhone and iPad wireless same screen of IOS 7.0 and above systems. When displaying, it is necessary to ensure that the iOS device and the display box must be connected to the same router, or the IOS device is directly connected to the AP hot network of the display device.

① Open "Airplay" in iOS device control center

② Select the display device and start the image display.
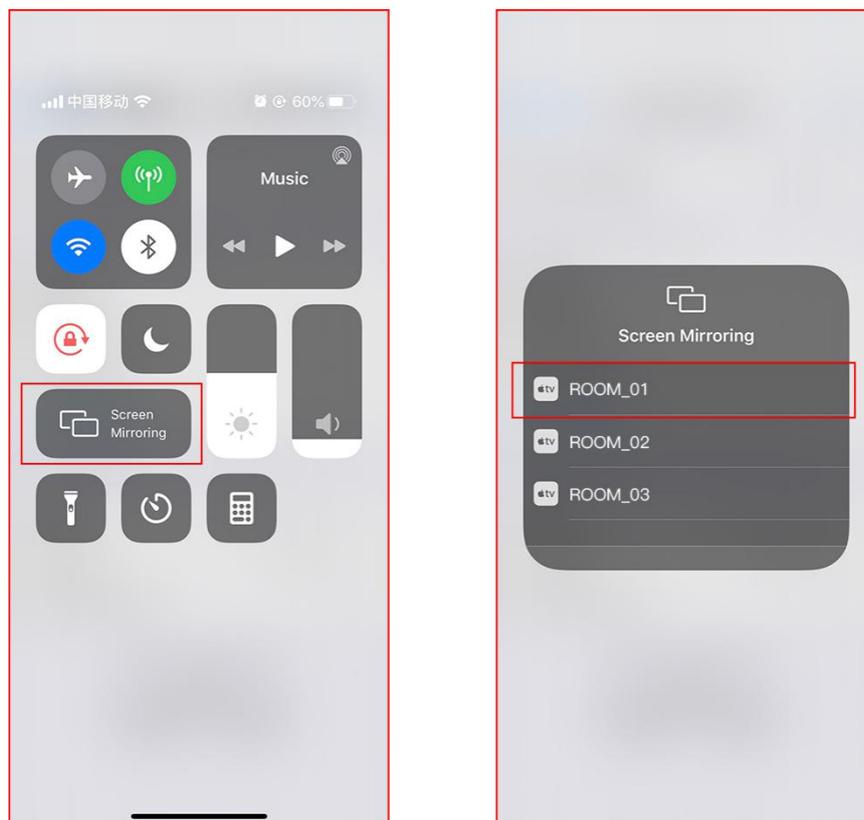
3-3

> **Note:**
>
>   Some iOS third-party software comes with music or video display function, which may cause system failure during use. Please try to connect to BJ60S with the display option provided by iOS system

3.4 iOS device APP display

1)   Scan the QR code of the system page of the wireless display device and download the APP display software

2)   Install "wireless display APP".

3) According to the APP prompt, select the display device and start the image display.

3-4

①	QR code scanning button, scanning QR code to wireless display
②	The setting key can adjust the setting parameters of the client
③	Input box: In the discovery mode, input the IP address of the display device to directly connect the device to display; In the mode of short code mode: input the short code to directly connect the device for display.
④	Equipment for display
⑤	"Start casting" button
⑥	"Full screen" button
⑦	"Stop display" button

3.5 Windows8/10 WiDi display

Widi display mode is the wireless display function of Windows 8 and windows 10 notebook computers. BJ60S BiJie meeting box is compatible with WiDi display protocol. Users can directly display without installing any software

and hardware.

1) Click the notification bar in the lower right corner of the computer screen, click the "connection" function, or press the shortcut key "win" + "K" to call up the display interface;

The system automatically scans the wireless presentation device, selects the presentation device that needs to be displayed, and then click the connection to start the display.
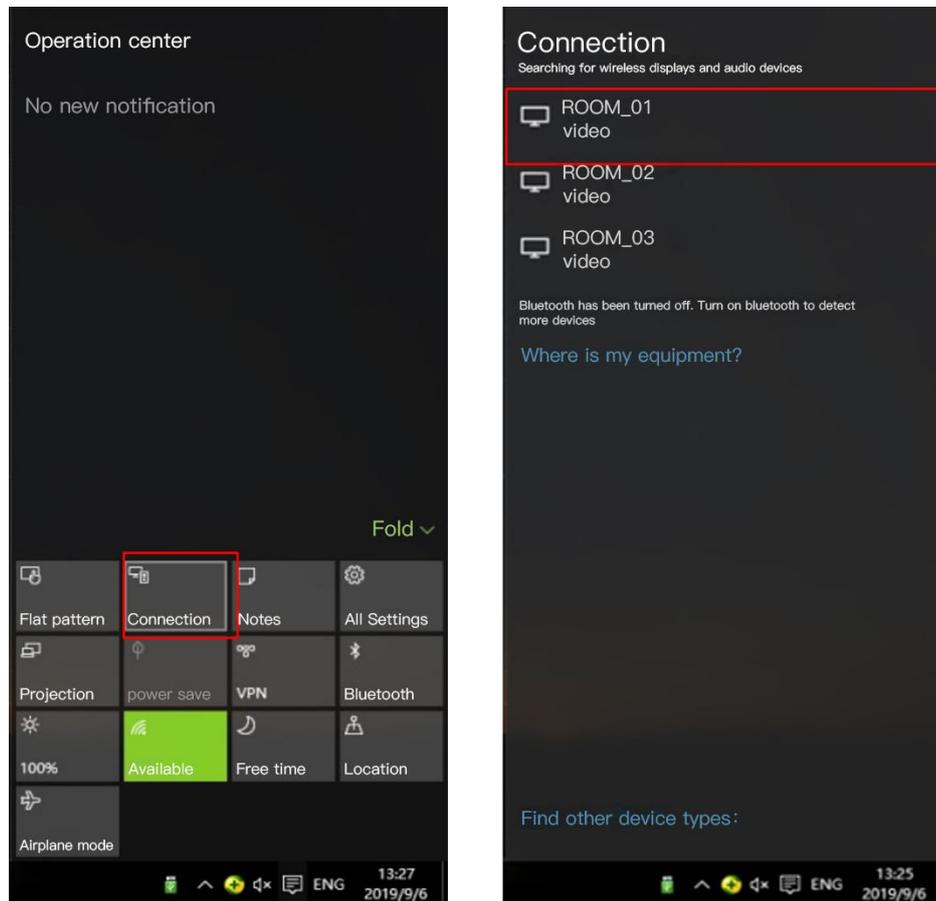
3-5

3.6 Windows PC client software display

1) Install "wireless display" PC client software, which can be downloaded from the official website of the product;

2) Ensure that the computer and wireless display equipment are in the same LAN;

3) According to the client's prompt, select the display device and start the image display;

4) The Windows version of wireless display client is compatible with Windows XP / 7 / 8 / 10 operating system.

3-6

①	Input box: In the discovery mode, input the IP address of the display device to directly connect the device to display; In the mode of short code mode: input the short code to directly connect the device for display.
②	Equipment for display
③	Start display button
④	Software interface minimization
⑤	"Full screen" button
⑥	"Stop display" button
⑦	The setting key can adjust the setting parameters of the client
⑧	"Exit" software button

3.7 Airplay on Mac OS

The wireless same screen function of Mac OS system adopts Airplay mode to display.

① Make sure that the MAC is connected to the same router as the display box, or the MAC is directly connected to the AP hotspot network of the display device.

② Open "play in space" in the upper right corner of your Mac.

③ Select the display device and start the image display.

3-7

3.8 Mac OS PC client software display

1) install "wireless display" PC client software, which can be downloaded from the official website of the product;

2) Ensure that the Mac computer and the display device are in the same LAN;

3) According to the client's prompt, select the display device and start the image display;

4) The Mac OS version of the wireless display client is compatible with Mac OS 10 or above.

3-8

⑨	Input box: In the discovery mode, input the IP address of the display device to directly connect the device to display; In the mode of short code mode: input the short code to directly connect the device for display.
⑩	Equipment for display
⑪	Start display button

⑫	Software interface minimization
⑬	"Full screen" button
⑭	"Stop display" button
⑮	The setting key can adjust the setting parameters of the client
⑯	"Exit" software button

3.9 USB transmitter display

BJ60S meeting box is compatible with USB transmitter. (USB transmitter to be purchased separately)

1) Insert the USB transmitter into the USB port of BJ60 display box for pairing, and pull out the USB transmitter when the system presents "pairing succeeded";

2) Plug the USB transmitter into the USB port of the computer. (for the first time, you need to install and run the driver software. The driver is in the built-in U disk of the transmitter. Mac users also need to input the user login password and authorize the use of microphone. Win7 computer may prompt to install the driver);

3) When the computer recognizes the USB transmitter, a prompt window will pop up automatically: "please click to start displaying";

4) Press the button on the front of USB transmitter to display the screen quickly;

5) USB transmitter is compatible with Windows 7 or above and Mac OS 10 or above.

3-9

4 Troubleshooting

1）How to display across network segments

The meeting box and transmitter must be in one network segment to automatically search display.

Cross network segment networking under layer 3 switch: when the receiver is in the discovery mode, the user needs to manually input the device IP to display; when the receiving end is in the short code mode, the user inputs the short code to display.

2）How to call up the space play function on MAC

System Preferences - Monitor - present the mirror option in the menu bar (when available), tick "at the bottom" - TV icon at the top right, and select play in space

3）WiDi display is not complete, there are black edges around

The solution is to modify the image size of indicator to 100% at the control panel of Intel graphics card.

4）What to do if the Android transmitter can't find the device when the PC client is displaying.

At this time, you can manually add IP to initiate the display, which may be because the router forbids broadcast packets or the device cannot be automatically discovered through the switch.

5）When making a phone call, or QQ voice call or video call, there is no microphone sound when Android phone Miracast

This is an Android system mechanism, and sound cannot be obtained from the microphone at this time.

6）USB transmitter cannot be connected

Plug in and out the USB transmitter again. If "calling the receiver, please wait" is still prompted, insert the projector into the USB port of the box to repair.

7）Instability of connection and display

Check the surrounding WiFi environment by installing wirelessmon on the laptop to see if there are WiFi interference (try not to exceed three signal sources in a channel) and whether the WiFi signal strength of the host is enough (at least stable greater than - 70dBm). If there is much interference, modify the AP channel of the box (5G band has 5 channels to choose, 2.4G band has 1, 6, 11 channels to choose, it is recommended to use 5G first) to a relatively idle channel. If the signal strength is weak, check whether the antenna is tightened, check the placement position of the host, and move the host until the signal strength is greater than - 70dBm.

8）WiDi display, win10 system version support is as follows:

1) 10240-1507 display is not supported

2) 14393-1607

3) 16299-1709

4) 17134-1803

5) 17763-1809 normal

6) Press the win + K key to search for the device to display the screen. If you are prompted that Miracast is not supported, you can use the driver wizard to check whether the network card and video card are updated, and if the windows update does not take effect, WiDi will not be able to display the screen. If the prompt indicates that the device cannot be connected, you can try again after repeatedly trying or restarting the notebook and the device. If it still fails, it is recommended to switch to USB projector or PC soft client display.

9）IOS App display must call the system image display, which cannot directly initiate the display (the same as the DingDing)

The prompt must pop up when the iPhone 6 ios12 is displaying. Manually open the screen image and select DingDing to display. The DingDing display and BiJie display use Airplay, and the enterprise wechat display and BiJie Internet use the IOS 11 + live interface.

Generally, there are two types of applications calling Airplay through APP

The first kind of video application, such as Youku video, Tencent video, calls airplay to put online video resources on the receiving end and play a video URL.

The second category is music players, such as Netease cloud music, which can project music to the receiving end for playing, and does not support mirror play. This can be used to judge whether the relevant interface of IOS has not opened mirror play, mirror play and live video recording are actually related to privacy and security Therefore, IOS only allows system applications to initiate. For example, the live application on IOS must be operated in the system tray area.

10）When Desktop PC client encounters no sound

You can check the recording options in the sound settings to see if stereo mixing is disabled. In this case, you need to enable stereo mixing, exit, and re-open the PC client. After that, the sound can be played normally.