

BiJie Interactive Box

BJ72



User Manual

2020/2/29 A1

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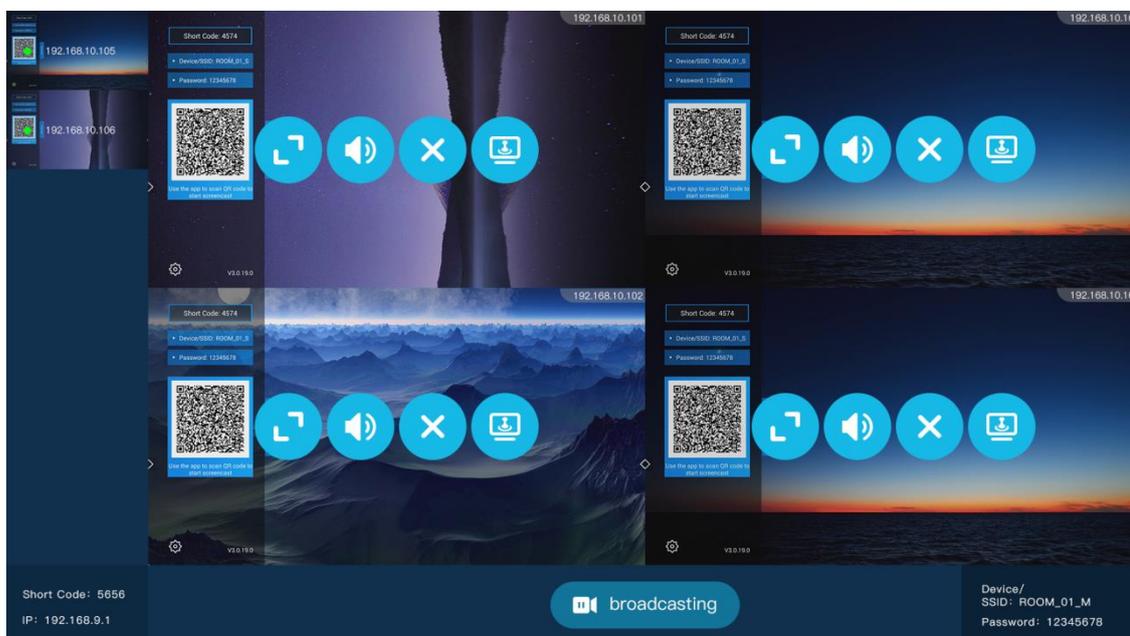
1 Product Intro

The multi-screen interactive box BJ72 for education or business in the field fully considers the demands of teachers and students in protocol support and functional design, and is compatible with Airplay, Miracast, WiDi, GoogleCast, DLNA and BJCast (self-developed) projection protocols. Teachers And students can quickly cast the screen of a mobile phone or PC to the large-screen display device wirelessly.



Main Advantages:

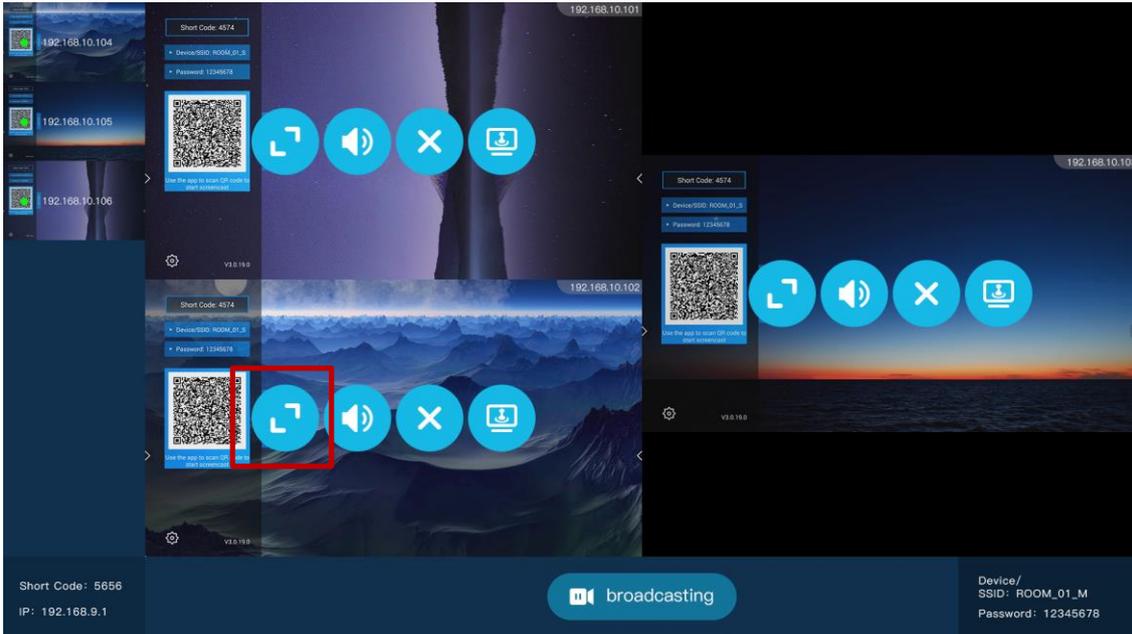
- ▶ **Wireless Projection** : Support mobile phone/pad/pc projector there audio/video/picture/screen to TV/projector by wireless network.
- ▶ **Multi-Screens Interactive: one2one, one2N, N2one.**



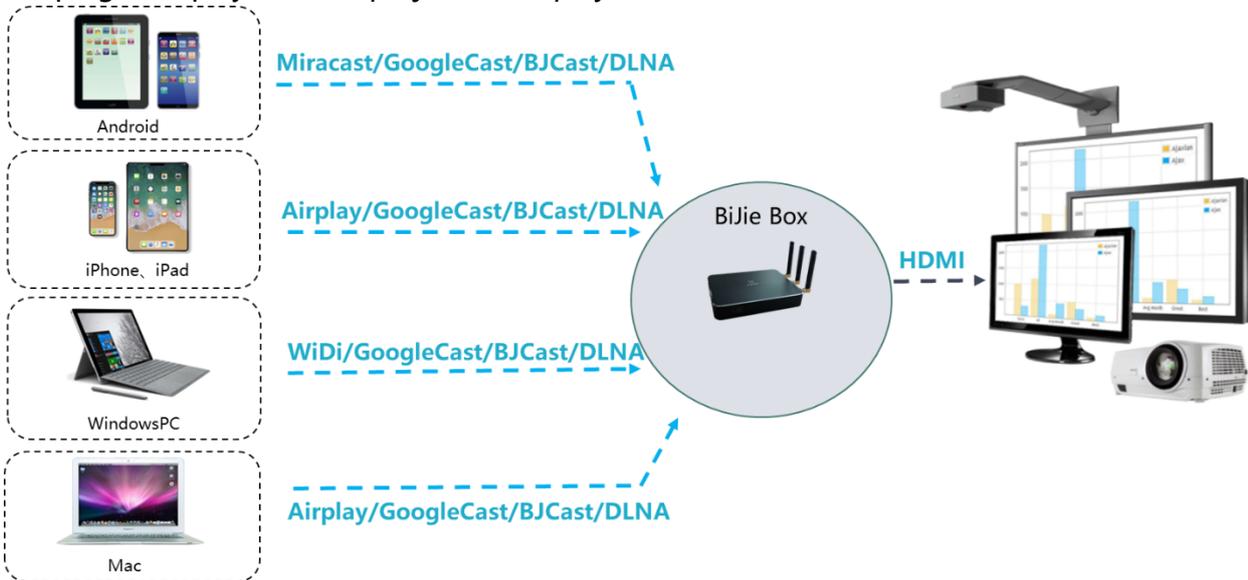
- ▶ **Reverse Control**: Support operate PC/Android Phone in touch TV screen.
- ▶ **Host AP**: BJ72 supplies AP function.
- ▶ **Independent Audio Output**: BJ72 supplies independent 3.5mm audio output interface to AV

system intergrate.

- ▶ **Support Zoom:** if there are exist multi display, it support zoom one of them.



- ▶ **Device Support :** BJ72 Supports Android/IOS/Windows/MacOS , Support **Miracast/AirPlay/WIDI/GoogleCast/BJCast** 协议。
- ▶ **USB Transmitter (Optional):** Optional USB button transmitter, PC (windows / Mac) plug-and-play wireless projection display.



1.1 Packing List

No	List	Picture	Number
1	BJ72*Host		1
2	Power Adapter*5V2A		1
3	DC Power Cable		1
4	HDMI Line		1
5	Certificate of Approval		1

1.2 Device Interface

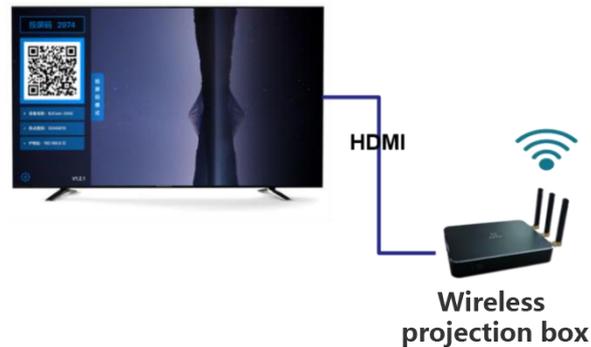
No.	Location	Interface Type
①	Positive	LED indicator*1
②	Left	USB*1
		3.5mm audio output*1
		LAN RJ45*1
		Reset *1
③	Right	WiFi antenna*3
④	Back	USB *1
		HDMI output*1
		DC5V power in *1
		Power switch *1

1.3 Device Connection

1.3.1 AP Connection

Connect the BJ72 with the TV (or projector) via an HDMI cable, and power on the BJ72.

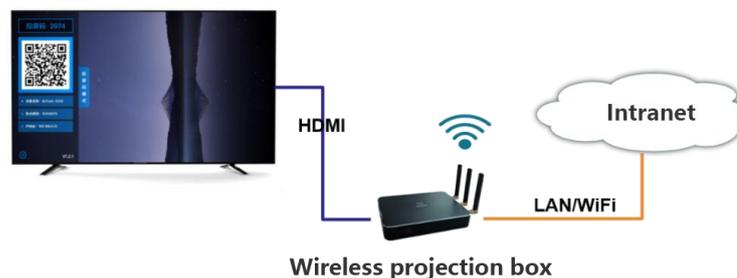
The first time that the BJ72 is turned on, the AP hotspot is turned on by default. Mobile phones and PCs can directly connect to the SSID of the BJ72 for projection.



1.3.2 Network Connection

Connect the box with the TV (or projector) via an HDMI cable, and power on the box.

The box can be set to STA mode (connected to the internal LAN of the enterprise via WiFi), or the box can be directly connected to the corporate internal network by inserting a network cable.



2 Configuration

2.1 Information Display

After the box is successfully powered on, the display device can display the local system configuration information. BJ72 has 'discovery mode' and 'short code mode' .

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

Features		Discovery	Short code
AirPlay		✓	✗
Miracast		✓	✗
WiDi		✓	✗
APP	Android	✓	✓
	iOS	✓	✓
	Windows	✓	✓
	Mac OS	✓	✓
USB Transmitter		✓	✓
PIN code		✓	✗
APP QR code		✓	✓
APP short code		✗	✓

2.1.1 Discovery Mode

Discovery Mode

1 PIN: 1336

2 Device/SSID: ROOM_01_M
IP: 192.168.10.33

3 Use the app to scan QR code to start screencast

4 Discover

iOS/Mac (AirPlay)

- 1 Ensure iOS/Mac device connected to the same router as screencast device
- 2 Open "AirPlay" in "control center"
- 3 Choose target device to start mirroring

Android (Miracast)

- 1 Open WiFi option
- 2 Find the option like "wireless display" in the settings
- 3 Chooses target device to start screencasting

Windows 8/10 (WiDi)

- 1 Open WiFi option
- 2 Press "Win" + "K" at the same time
- 3 Chooses target device to start screencasting

APP screencast (iOS/Android)

- 1 Scan the QR code left to download "BJCast" APP
- 2 Ensure network connectivity between phone and screencast device
- 3 Follow the tip, choose target device and start screencasting or scan the QR code left to screencast through the APP

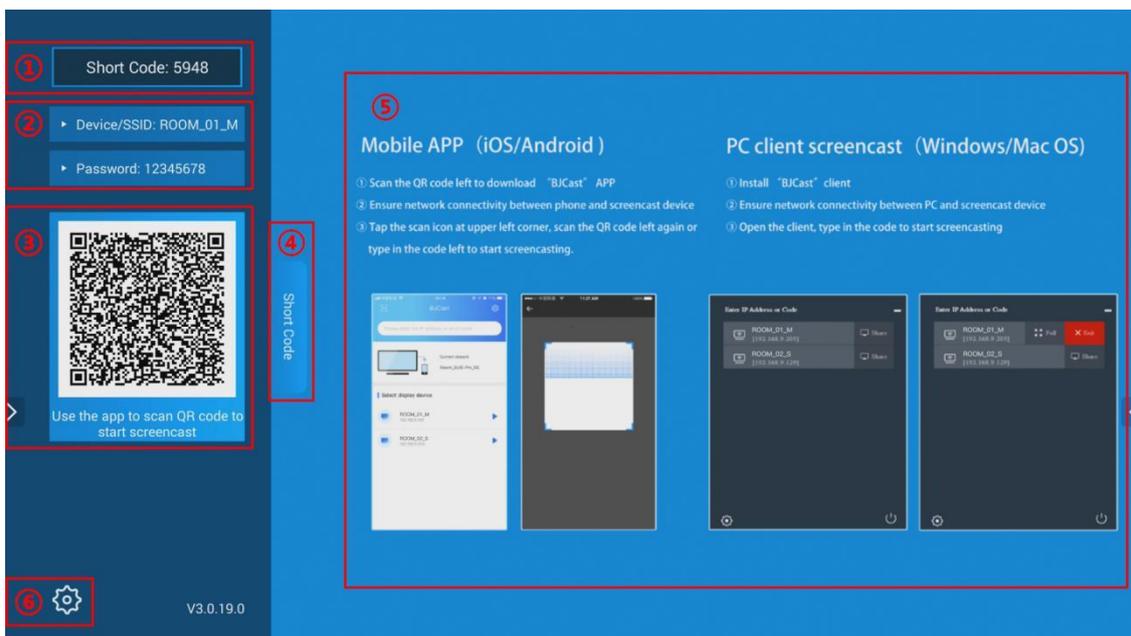
PC client (Windows/Mac)

- 1 Install "BJCast" PC client
- 2 Ensure network connectivity between PC and screencast device
- 3 Follow the tip, choose target device and start screencasting or type in the ip adress to screencast

V3.0.19.0

No	Functions	Descriptions
①	PIN code	The prompt information for enabling the PIN code function is only applicable to the 'discovery mode'. After the PIN code is enabled, the user needs to enter the PIN code to cast the screen in order to normally cast the screen.
②	Device Info	Device/SSID: the name of device and ssid of ap Password: the password of ssid; IP : the ip address of this device。
③	QR code	QR code for download app of iOS and Android QR code for scan and projector from Bijie APP
④	Status of mode	Indicate the status of mode: discovery or short code
⑤	Background picture	Can be replaced, default is brief operating instructions
⑥	Setting button	Connect the mouse to the USB port , and click the setting button to set and adjust the parameters of Box.

2.1.2 Short Code mode



No	Functions	Descriptions
①	Short code	The short code code is only applicable to use the app to cast the screen, and the client only needs to enter the short code to complete the screen casting. (requires the box to be able to network with the cloud management platform in real time)
⑦	Device Info	Device/SSID: the name of device and ssid of ap Password: the password of ssid;
⑧	QR code	QR code for download app of iOS and Android QR code for scan and projector from Bijie APP
⑨	Status of mode	Indicate the status of mode: discovery or short code
⑩	Background picture	Can be replaced, default is brief operating instructions
⑪	Setting button	Connect the mouse to the USB port , and click the setting button to set and adjust the parameters of Box.

2.2 Setting Display

2.2.1 Prepare

Prepare a USB mouse and plug it into the USB port of BIJET Interactive Box



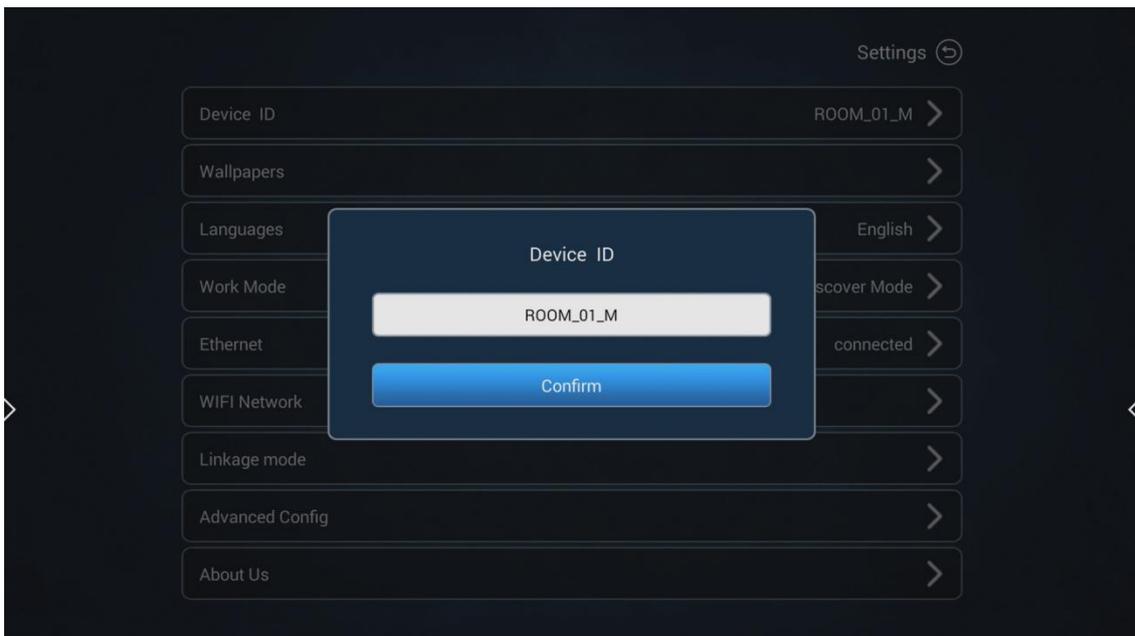
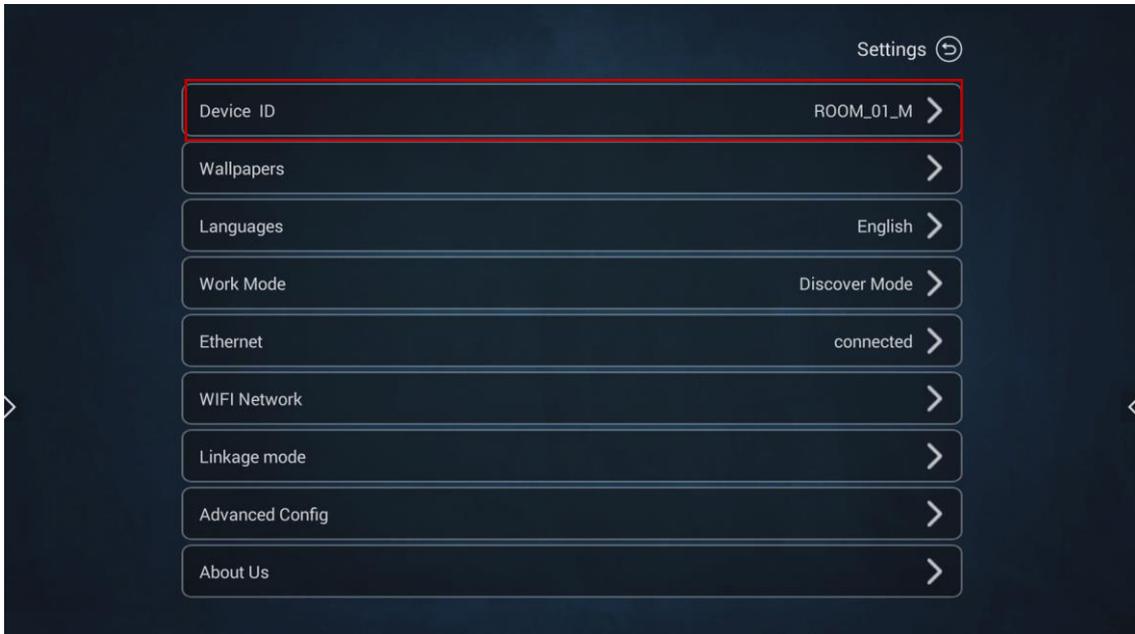
2.2.2 Main Menu

Click the configuration button in the lower left corner of the system homepage to enter the configuration interface of Box. (Bijie interactive box cannot be screened in the configuration menu)



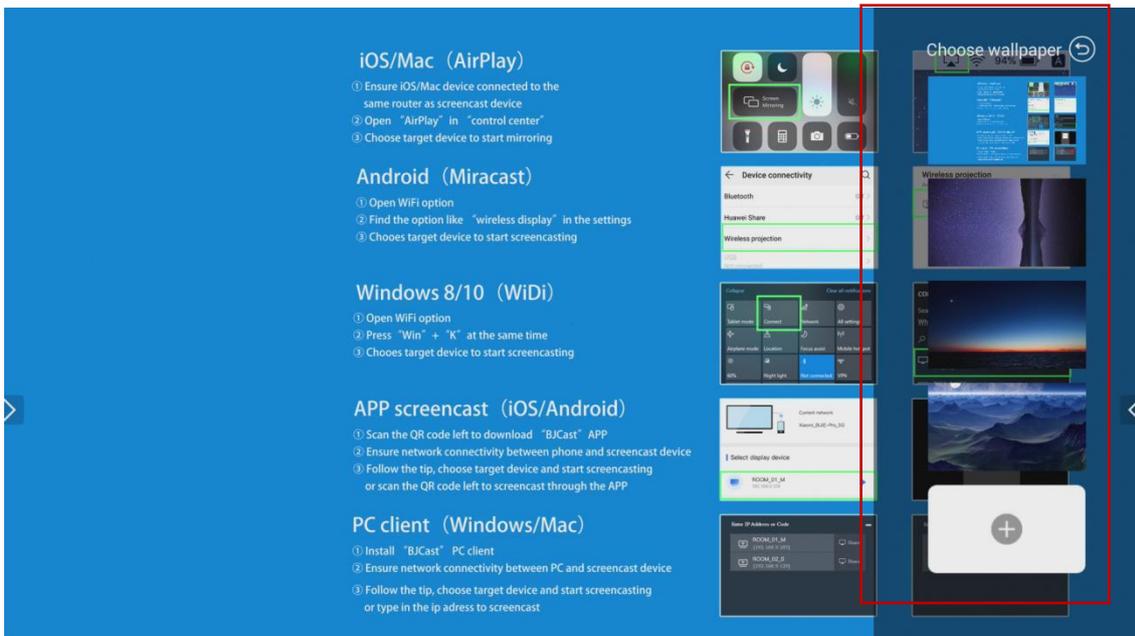
2.3 Device ID

click ' Device ID' , configure the name of BJ72.



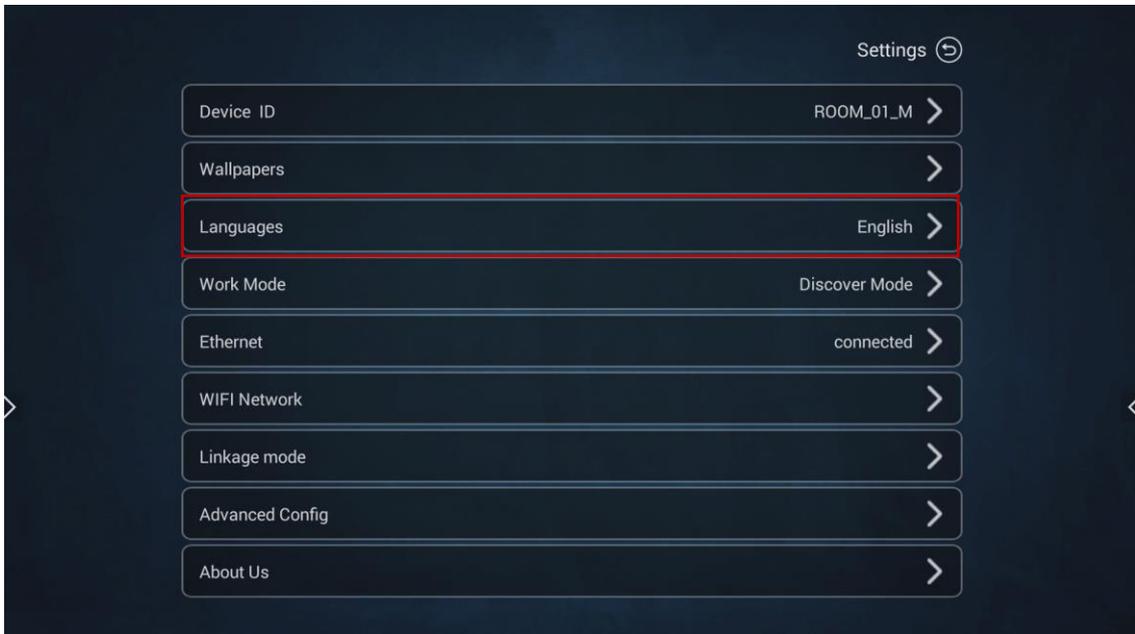
2.4 Wallpapers

Users can customize the desktop wallpaper of the investment device. Prepare a U disk, copy the wallpaper into the U disk, and insert it into the USB interface of the Bijie interactive box. Click on the 'Desktop Wallpaper' with your mouse to customize and change the wallpaper of the Bijie interactive box.



2.5 Languages

Users can set the system language of Bijie Interactive Box to 'Simplified Chinese', 'Traditional Chinese' and 'English' .



2.6 Work Mode

The user can set the screen-casting mode of Bijie Interactive Box to 'discovery mode' or 'Short Code mode'. For details about the functions and interface of 'Discover Mode' or 'Short Code Mode', please refer to Chapter 2.1.

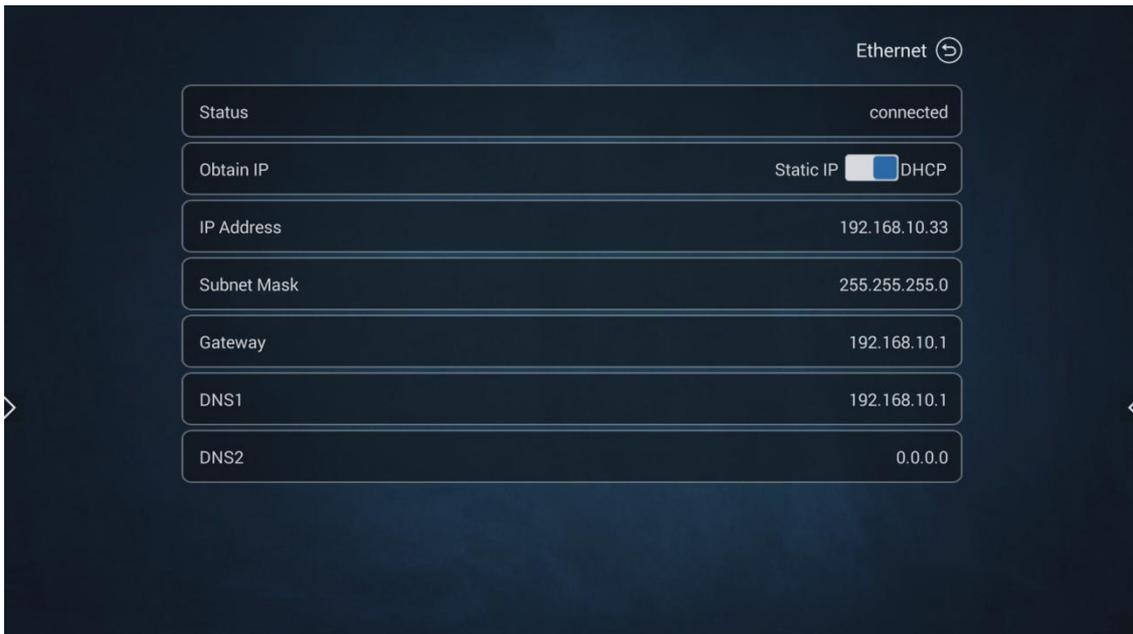


2.7 Ethernet

When the Box is plugged into a wired network, the box will automatically display the network connection status.



'Ethernet' can be set to 'Static IP' or 'DHCP' to obtain the address automatically.

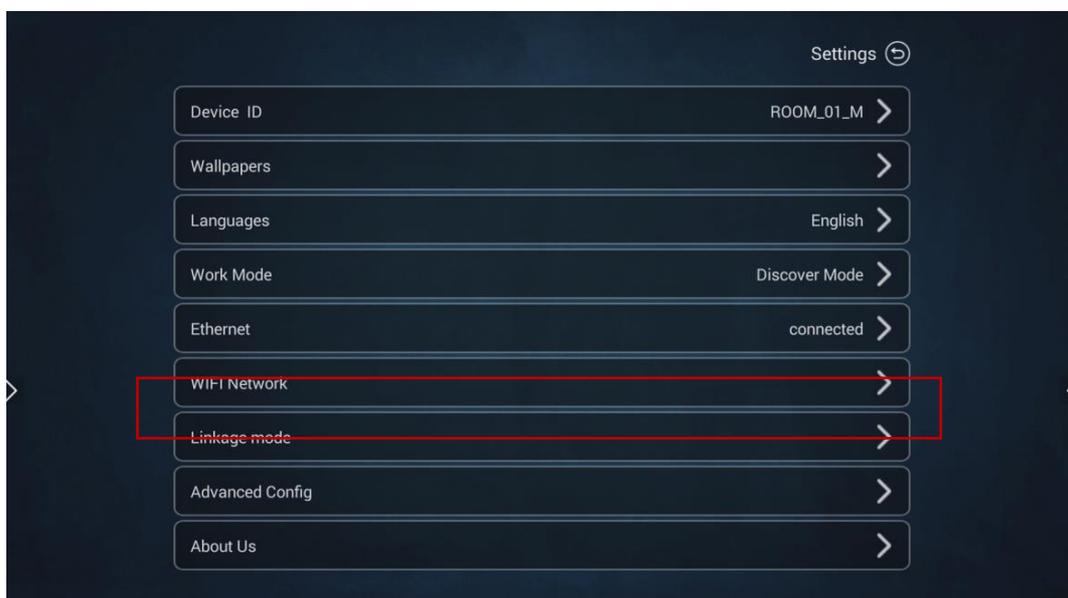


2.8 WiFi Network

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

- AP mode: Provide local AP hotspot coverage;
- STA mode: Turn on the WiFi connection function of the Bijie interactive box.

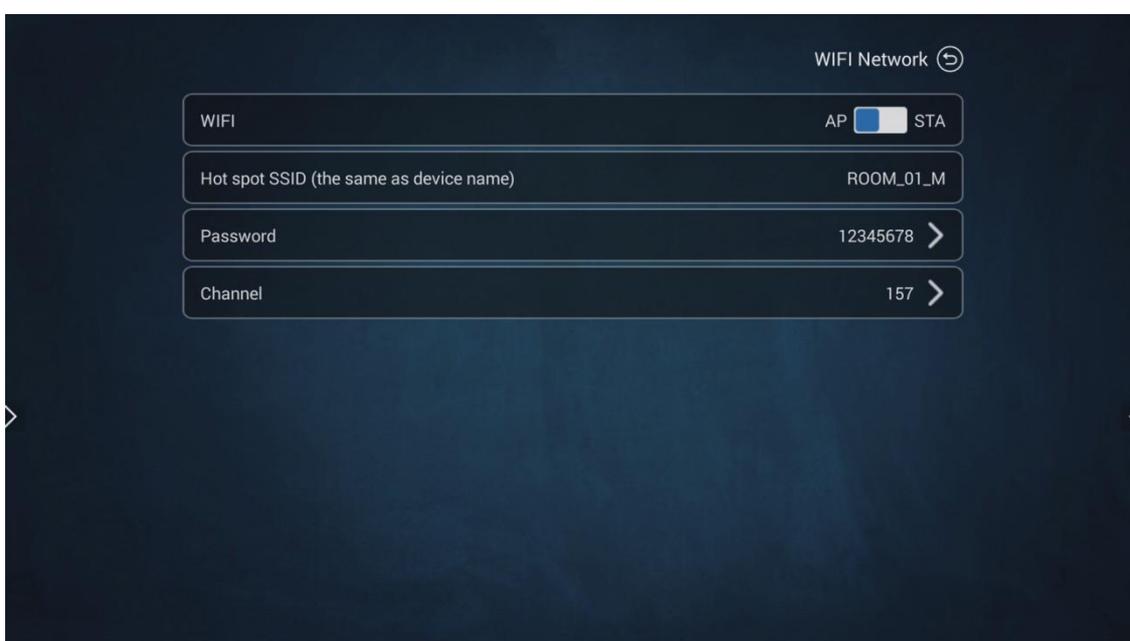
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2.8.1 AP mode

In AP mode, the hotspot name is the same as the local device id name, and the AP hotspot connection password can be customized.

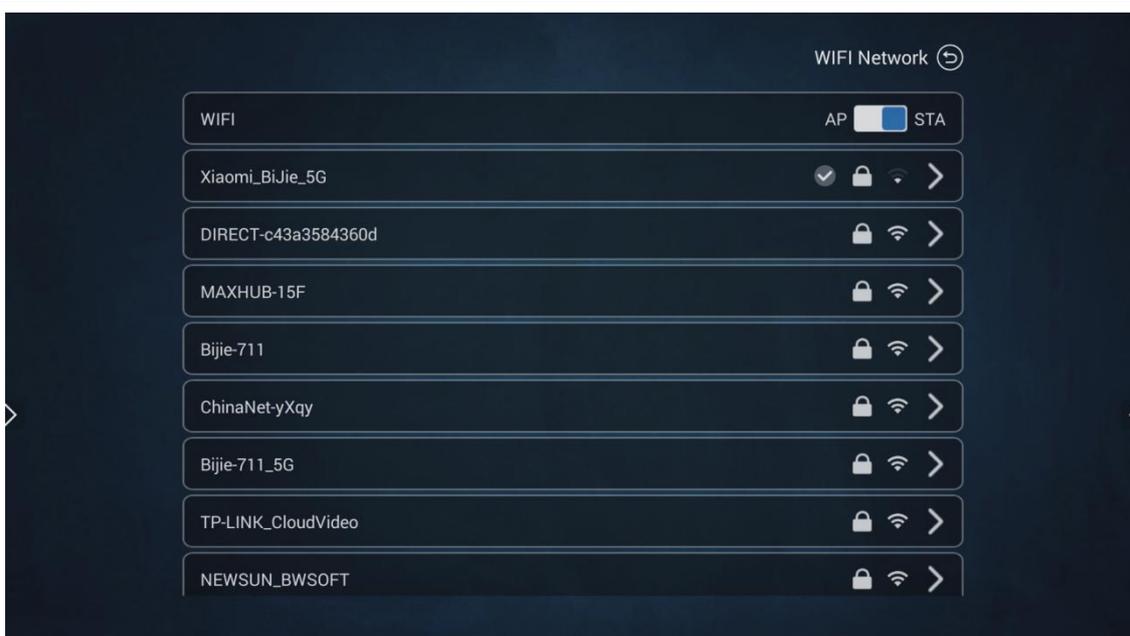
the channels of AP hotspots can be customized. 1 ~ 11 are 2.4G frequency band channels, and 153 ~ 161 are 5G frequency band channels.



2.8.2 STA mode

Under the STA mode, Bijie Interactive Box will automatically search for the wireless network conditions that can be connected, and customers can choose to connect more.

To disconnect the Wi-Fi connection, please select the currently connected Wi-Fi network with your mouse, left-click and hold the pop-up dialog box, and follow the prompts..



2.9 Advanced Config

Advanced configuration is a professional configuration of the screen projection function of Bijie interactive box, please operate under the guidance of technical staff.

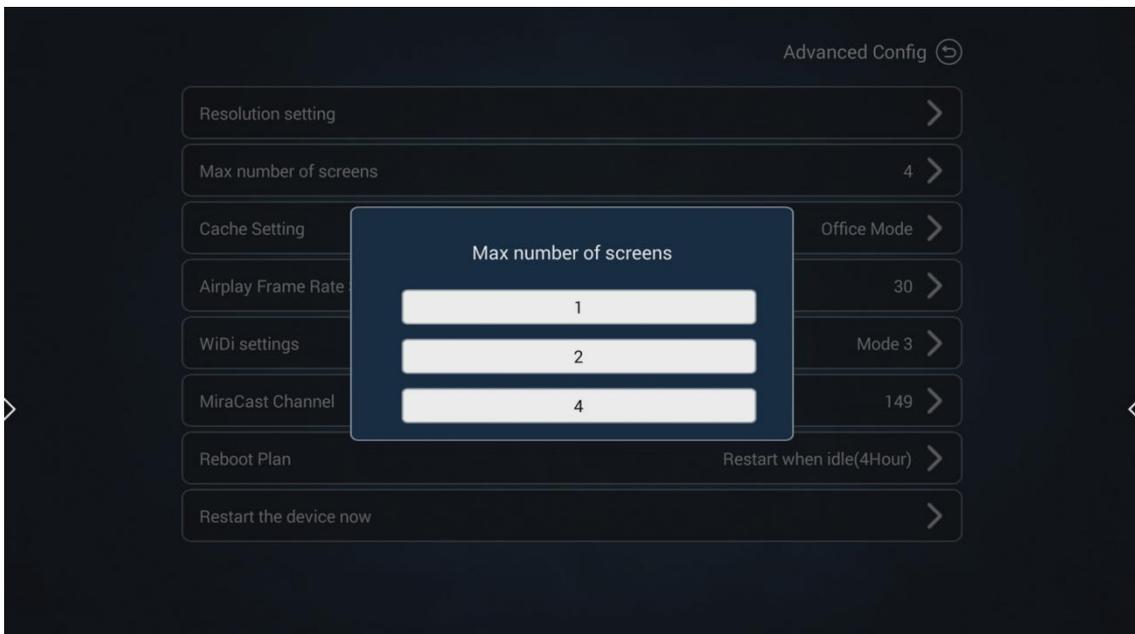


2.9.1 Resolution



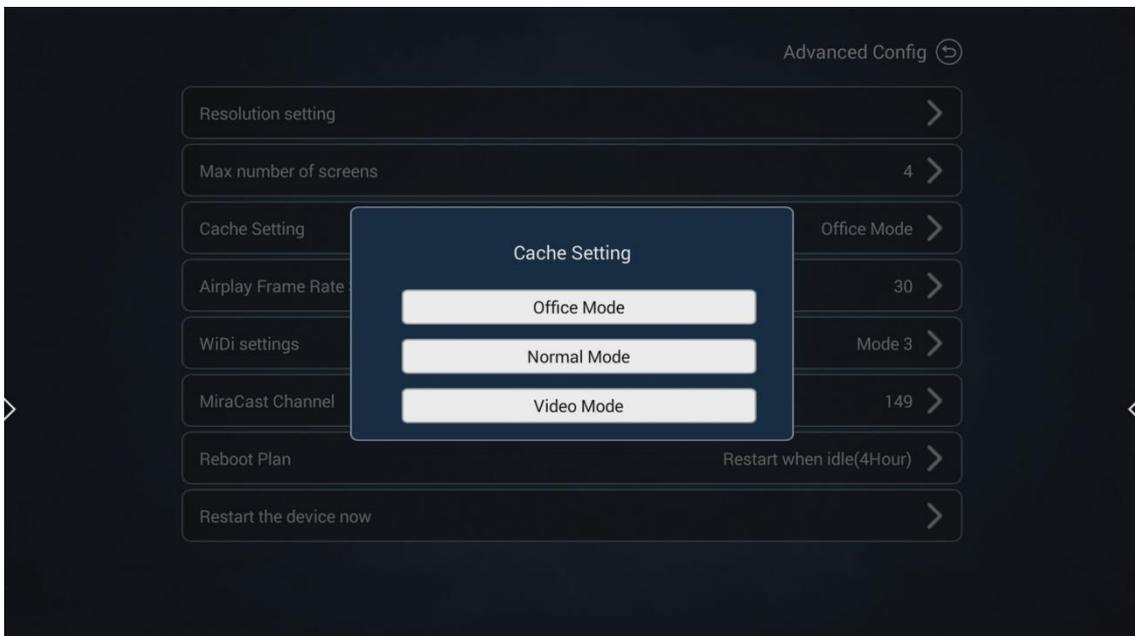
2.9.2 Max number of screens

The maximum number of projection screens can set the number of terminals displayed by the current projection device at the same time, can be set to 1 ~ 4 screen display



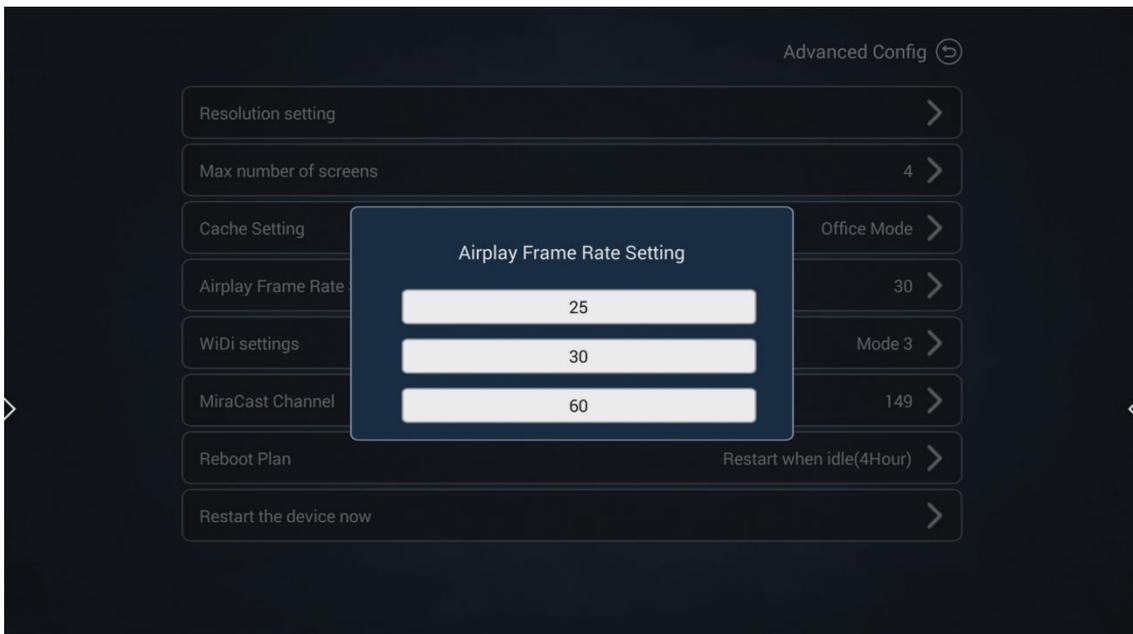
2.9.3 Cache

The cache settings are mainly used for equipment debugging and maintenance. Keep the default configuration, and users do not need to adjust.



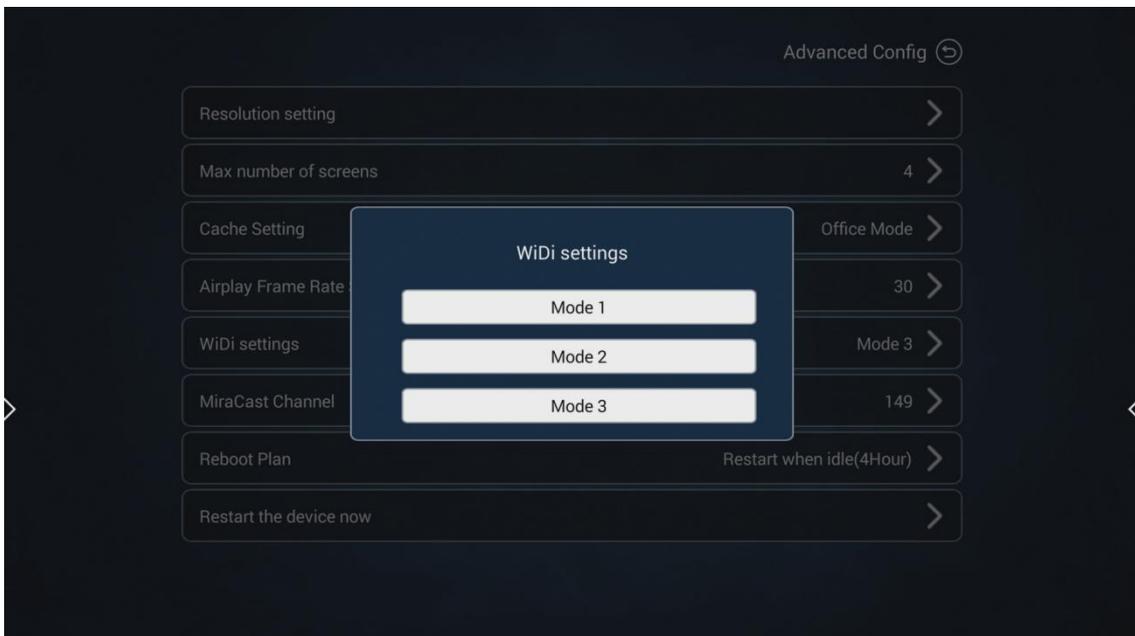
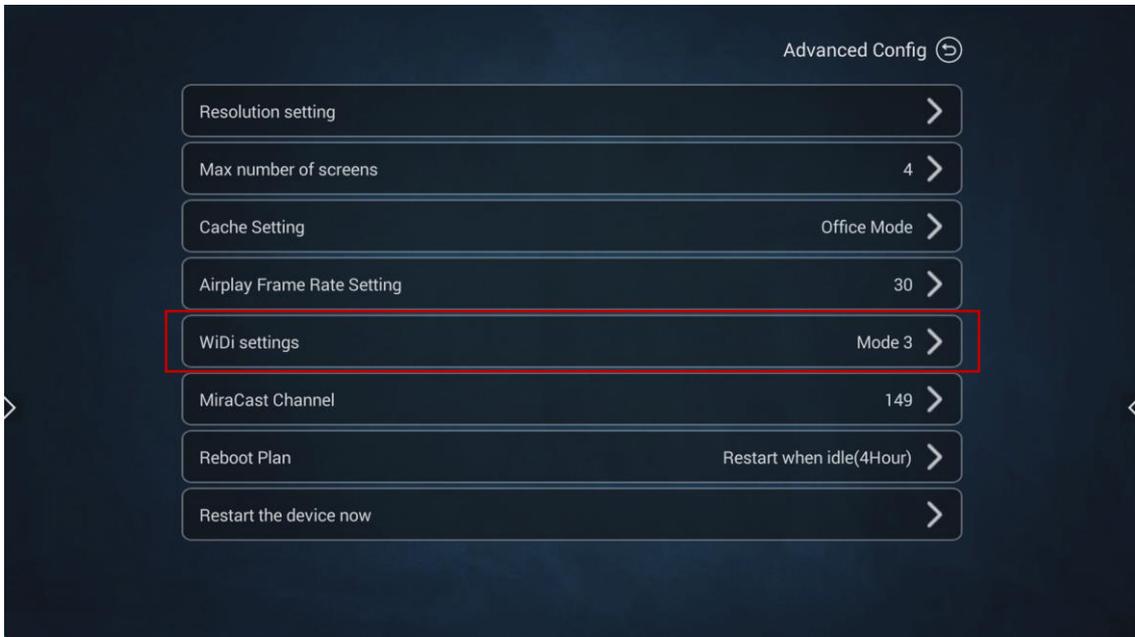
2.9.4 AirPlay Frame Rate

The AirPlay frame rate setting is mainly used to adjust the network bandwidth of audio and video transmission when Apple series terminals use AirPlay to cast screen. Ensure that the screen can be cast normally even when the network transmission quality is poor.



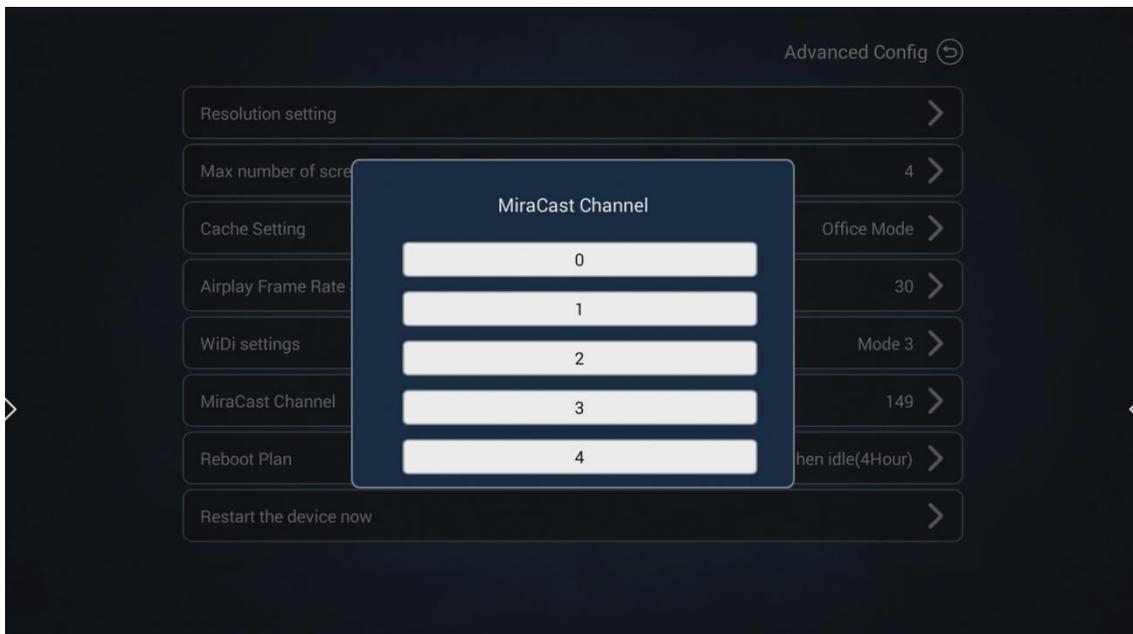
2.9.5 WiDi

WiDi settings are mainly used for equipment debugging and maintenance. Keep the default configuration, and users do not need to adjust.



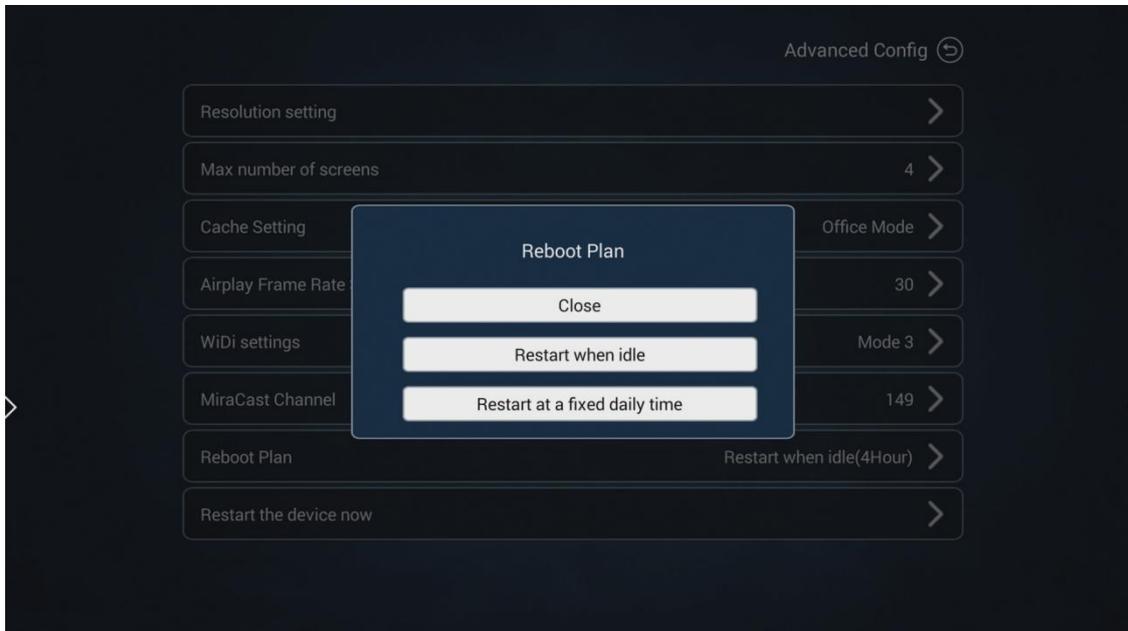
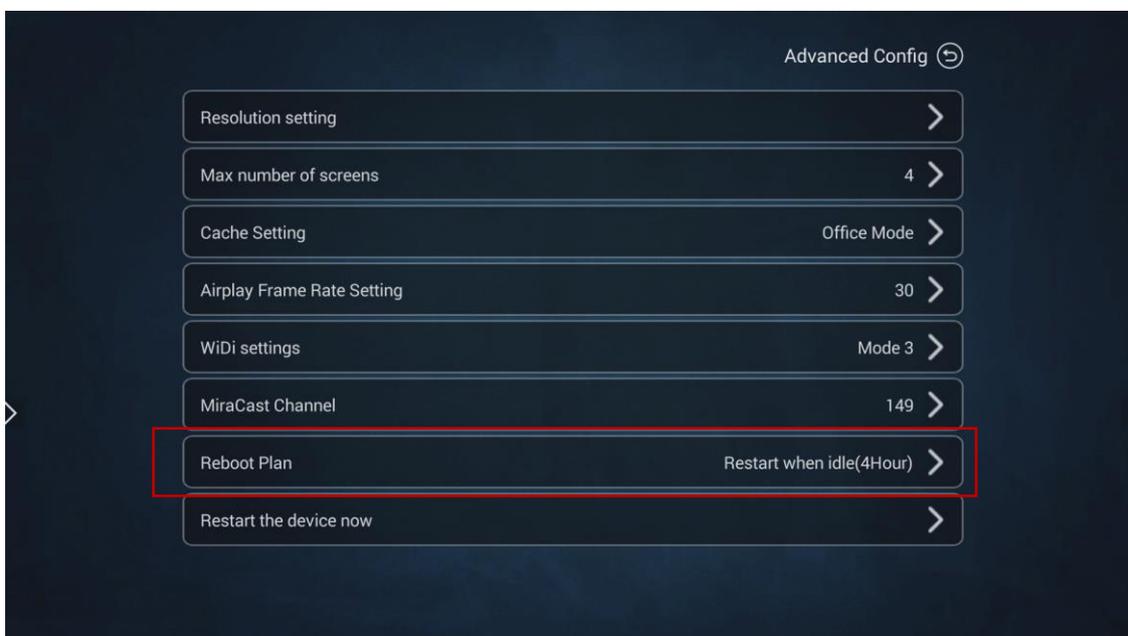
2.9.6 Miracast Channel

Bijie interactive box provides Miracast channel selection function, users can choose according to their needs..



2.9.7 Reboot Plan

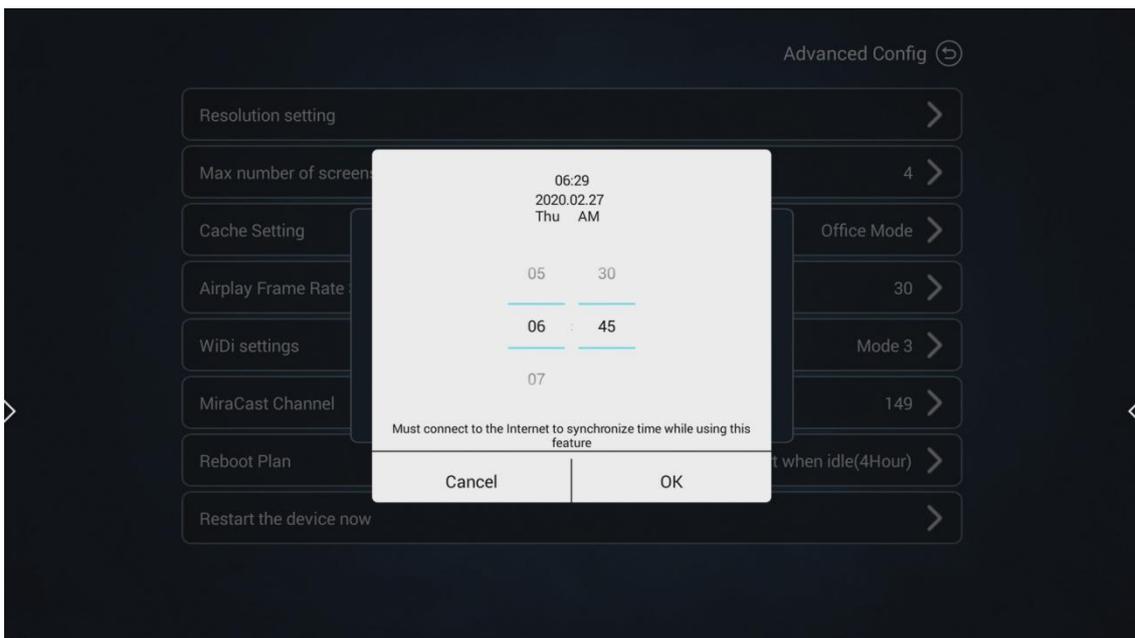
The automatic restart function can be enabled by the user as required. The restart plan is divided into 'Restart when idle' and 'Restart at Daily Fixed Time' .



'restart when idle' means that under the condition of long-term power-up, Bijie Interactive Box will automatically restart the cycle during the idle period when no screen is being cast. The cycle restart can be set to '4 hours' , '8 hours' and '12 hours' .

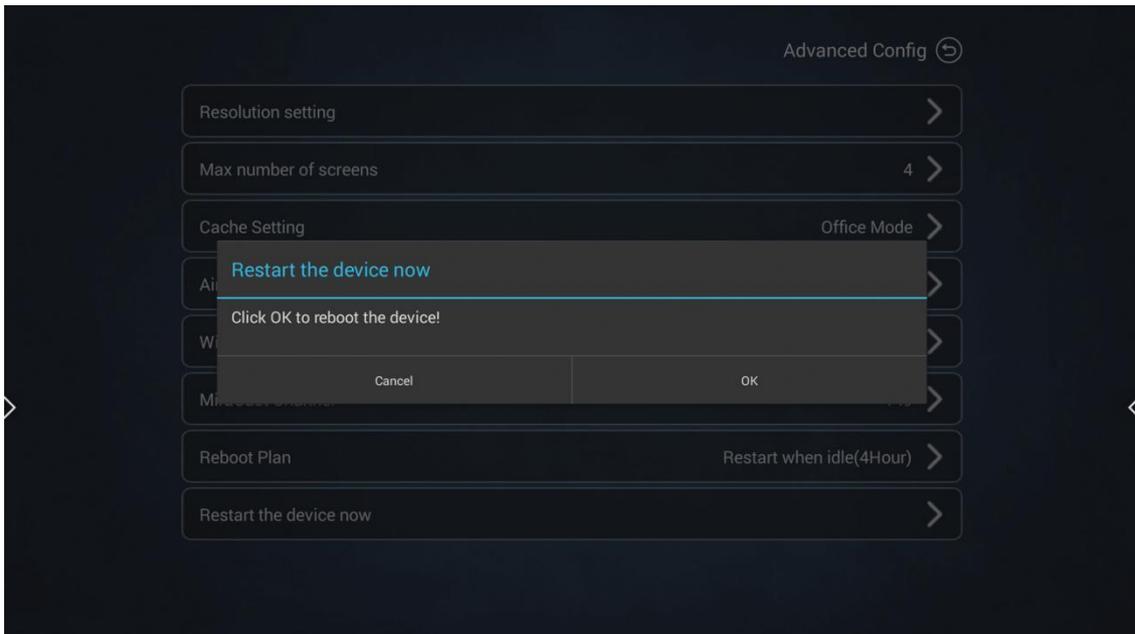
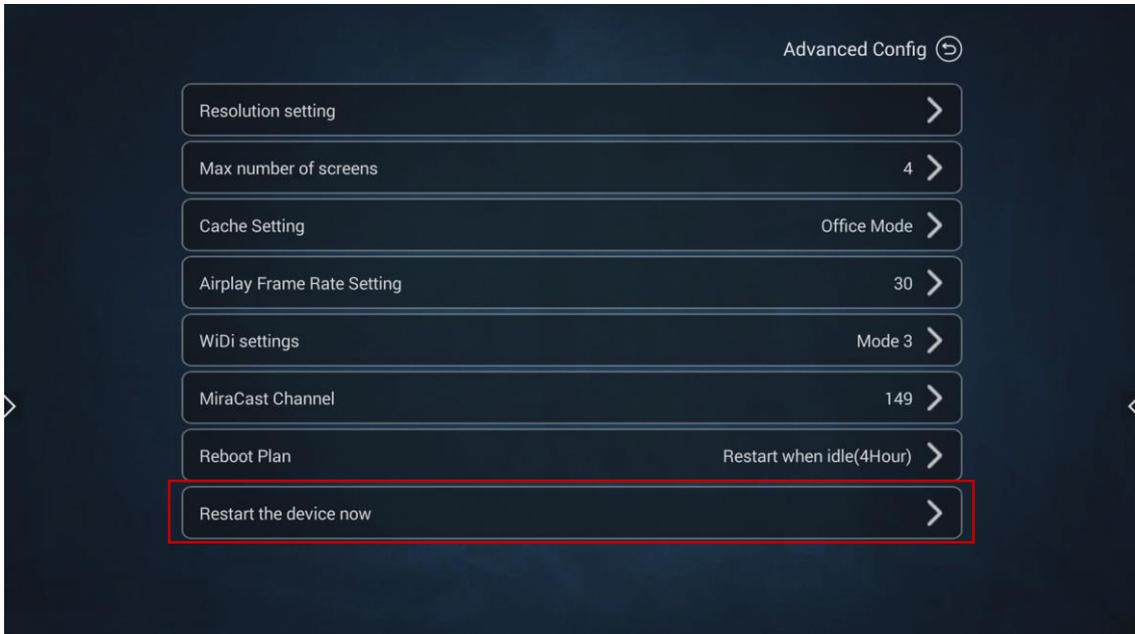


' Restart at Daily Fixed Time ' refers to the time that the Bijie Interactive Box can be customized to restart..



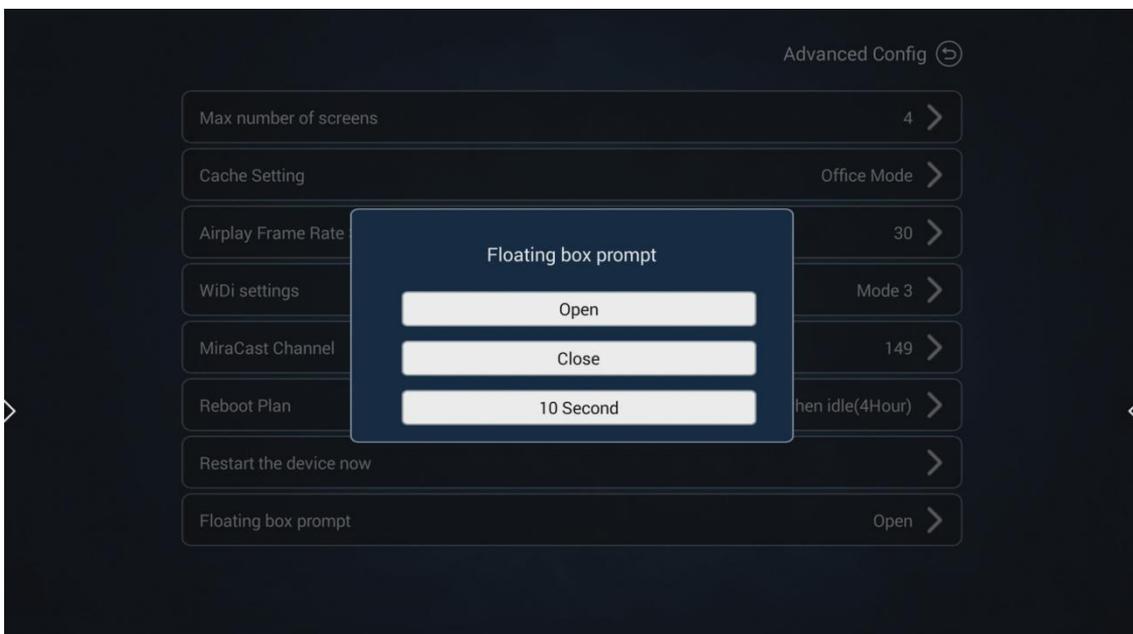
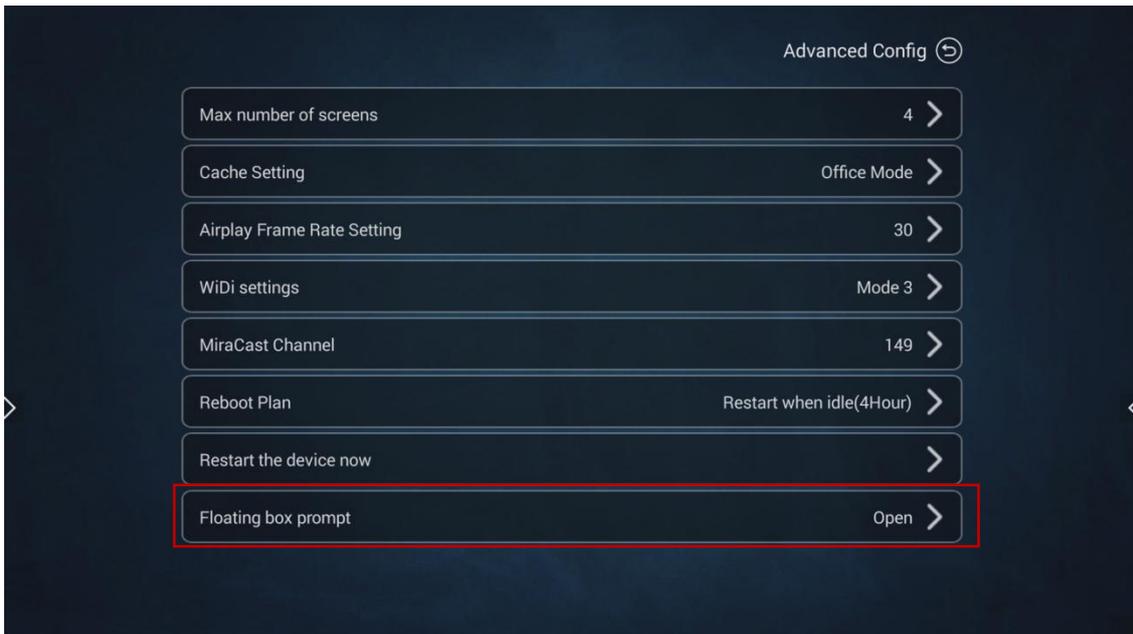
2.9.8 Restart now

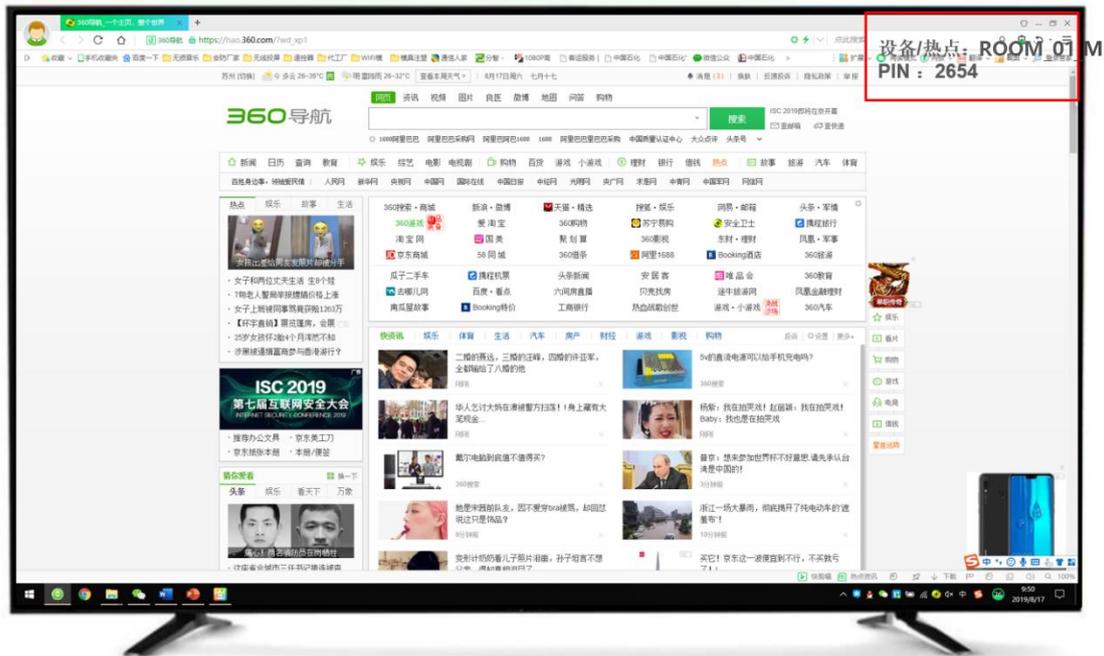
Enable the immediate restart function, you can directly restart the box



2.9.9 Floarting box

After the floating box function is enabled, during normal screen projection, the name and connection password of the current box will appear in the upper right corner of the display interface, which is convenient for other users to project screens.



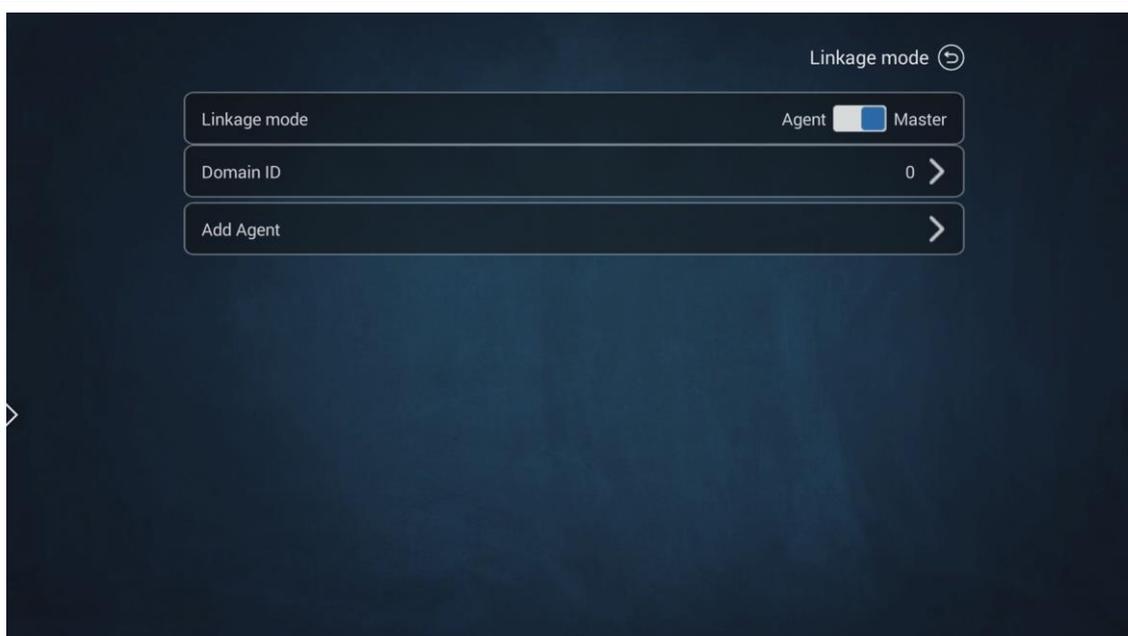


2.10 Linkage mode

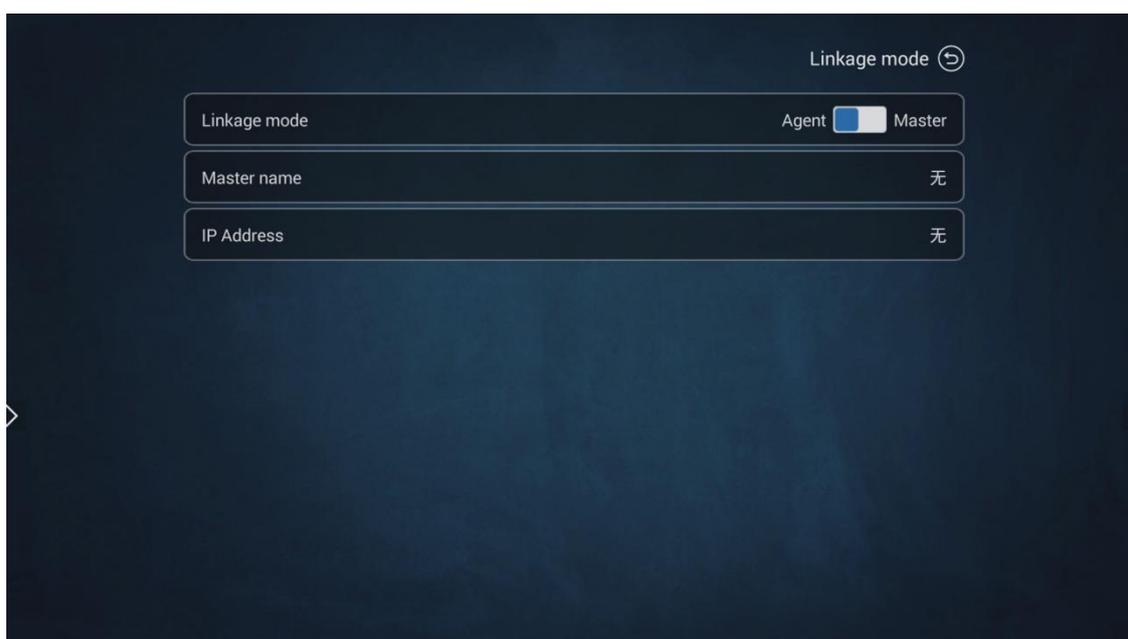
The linkage mode is used for the setting of one-to-many and many-to-one in the case of multi-box interaction. Divided into 'master' and 'slave' modes.



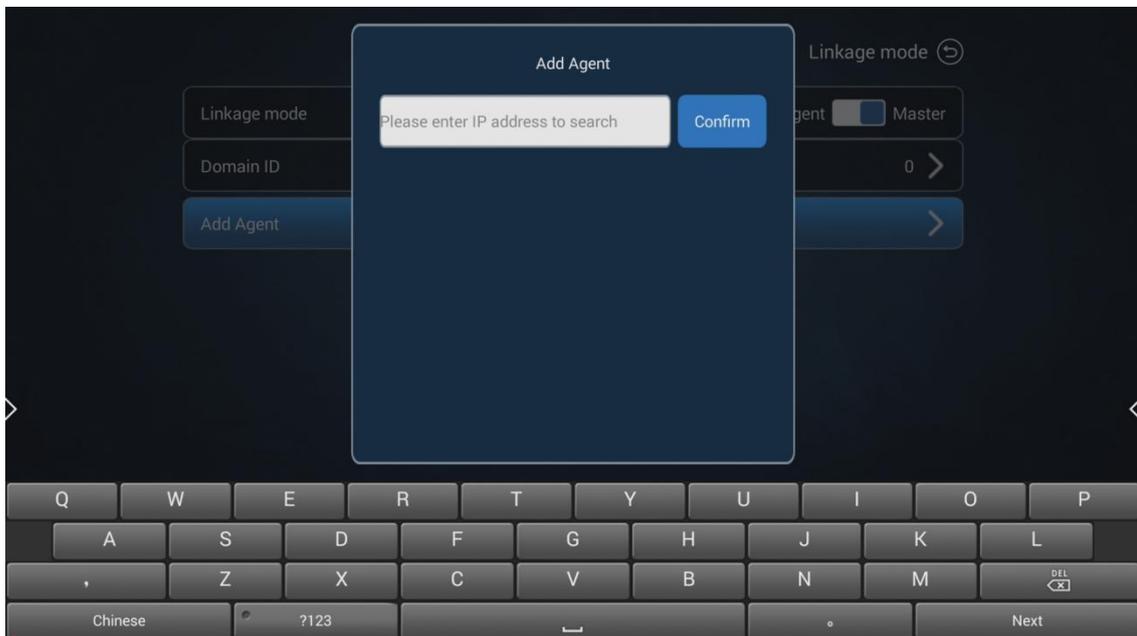
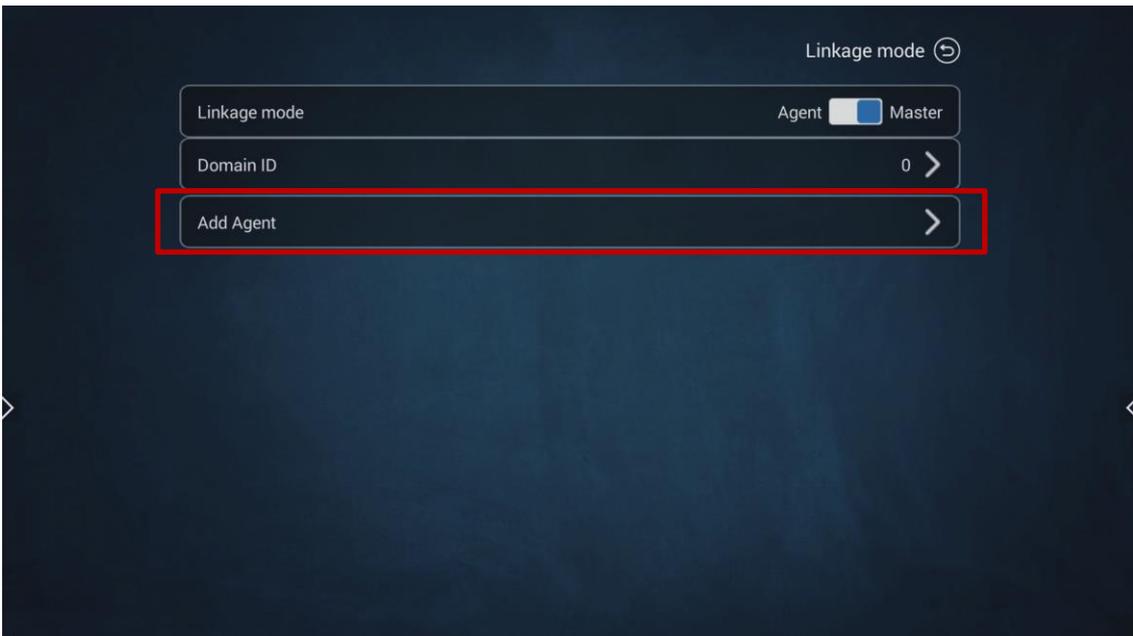
Set 'Master', this device is 'master device'



set 'agent' , this device is 'slave device'

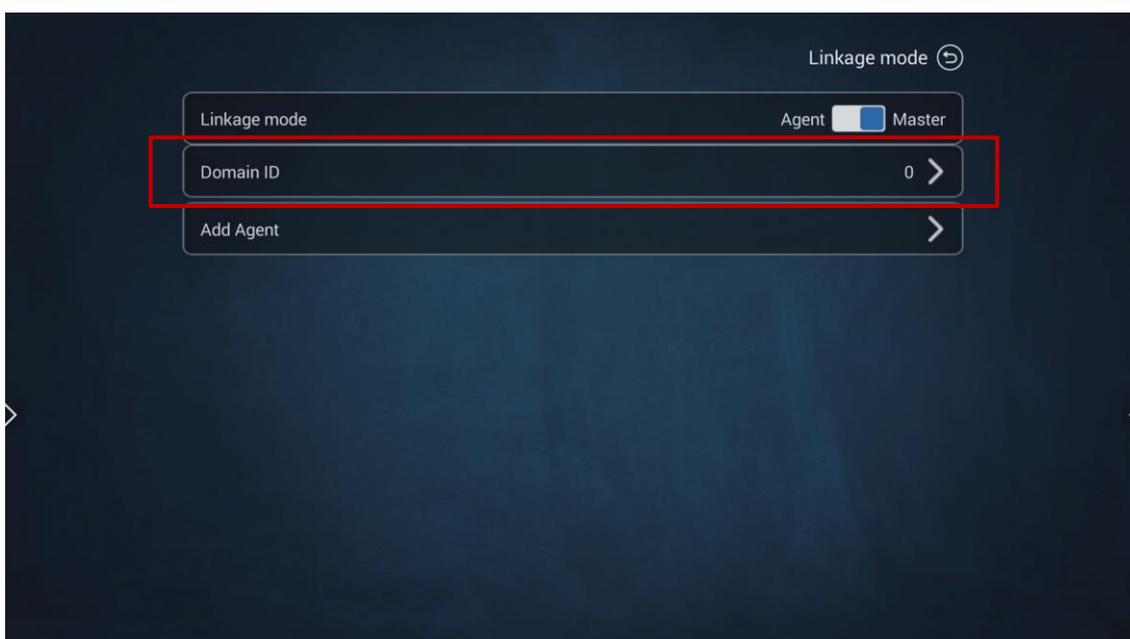


The 'master device' can add a linked 'slave device' by directly adding or searching for an IP address.



NOTICE:

Domain: A group of BJ72 boxes that need to cooperate with each other to form a domain, which is distinguished by ID. Users plan to keep unique in the same network. IDs should be different..



Design and configuration constraints:

(1) Currently, the master and slave devices are required to use a fixed IP configuration (do not use DHCP).

(2) When the master device currently configures the slave devices it manages, it is necessary to configure the IP address of the slave device. If the IP address of the slave device is changed, you need to delete the original slave device on the master device and add the slave device again.

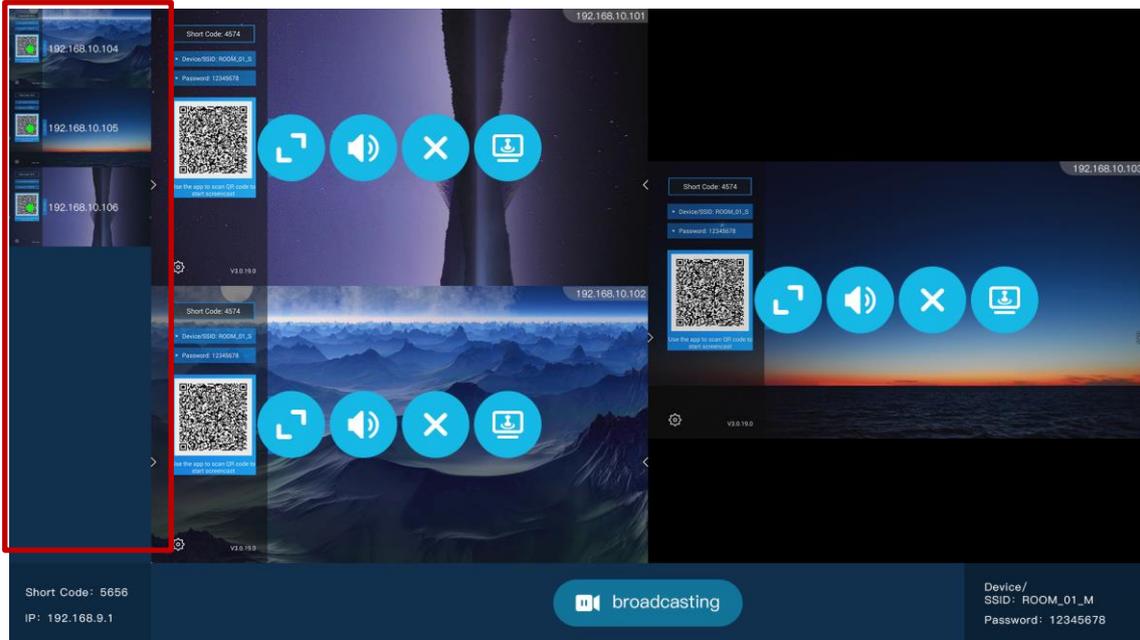
2.11 About US

About us mainly provides information about the native software version of the projection device, the device manufacturer, etc.

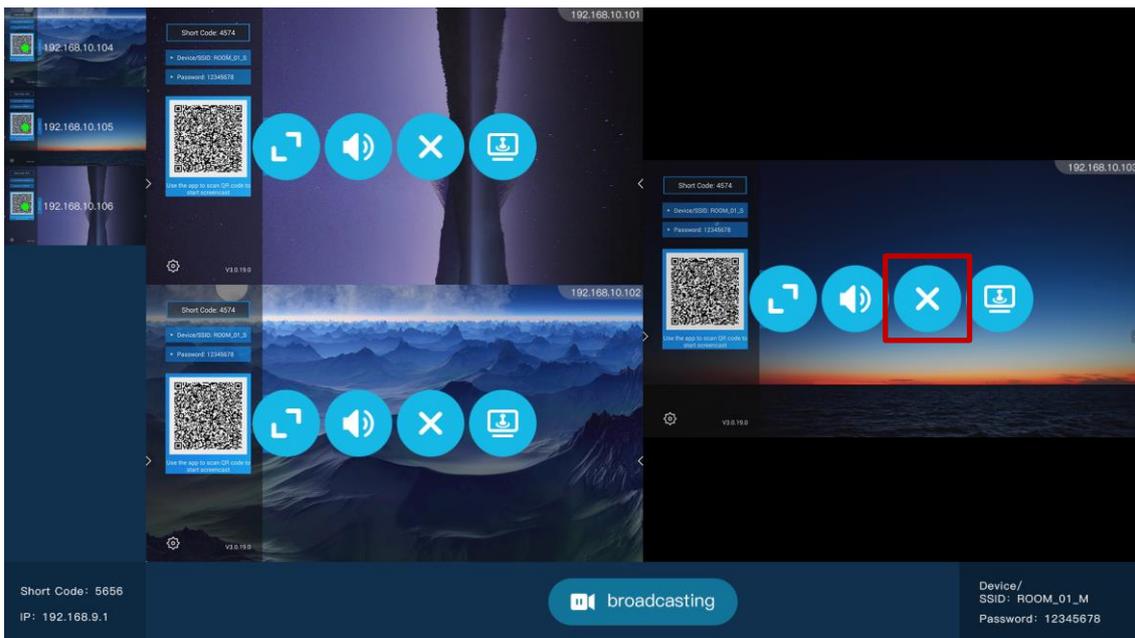
3 Multi-box interactive

3.1 'Slave' to 'Master'

The "Slave" on the left side of the "Master" screen can be displayed on the "Master" screen by dragging.

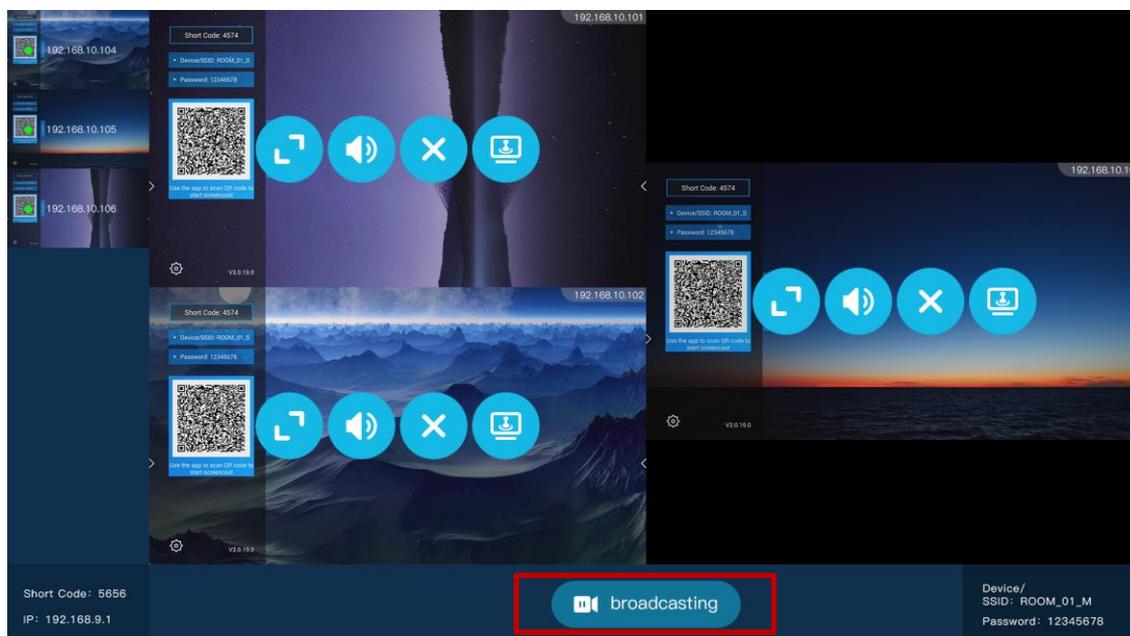


Click the "Kick Out" button on the "Master Device" sub-screen interface to kick out the "Slave Device".



3.2 'Master' broadcast to 'Slave'

Click the "Broadcast" button below the "Master" screen to broadcast the "Master" screen to all "Slave" devices.

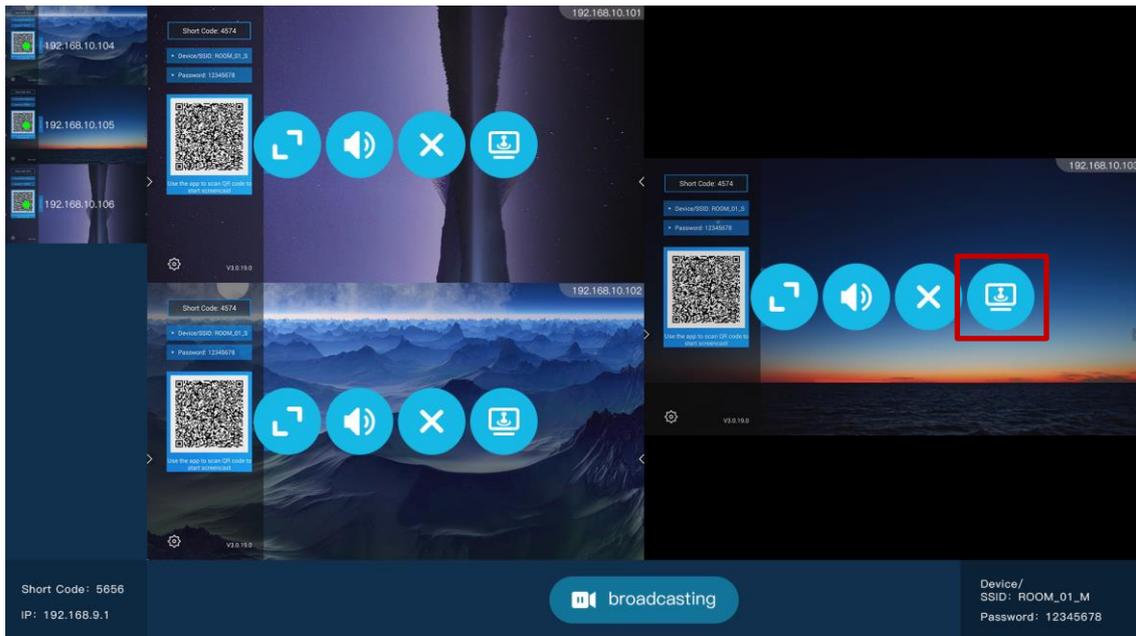


4 Reverse Control

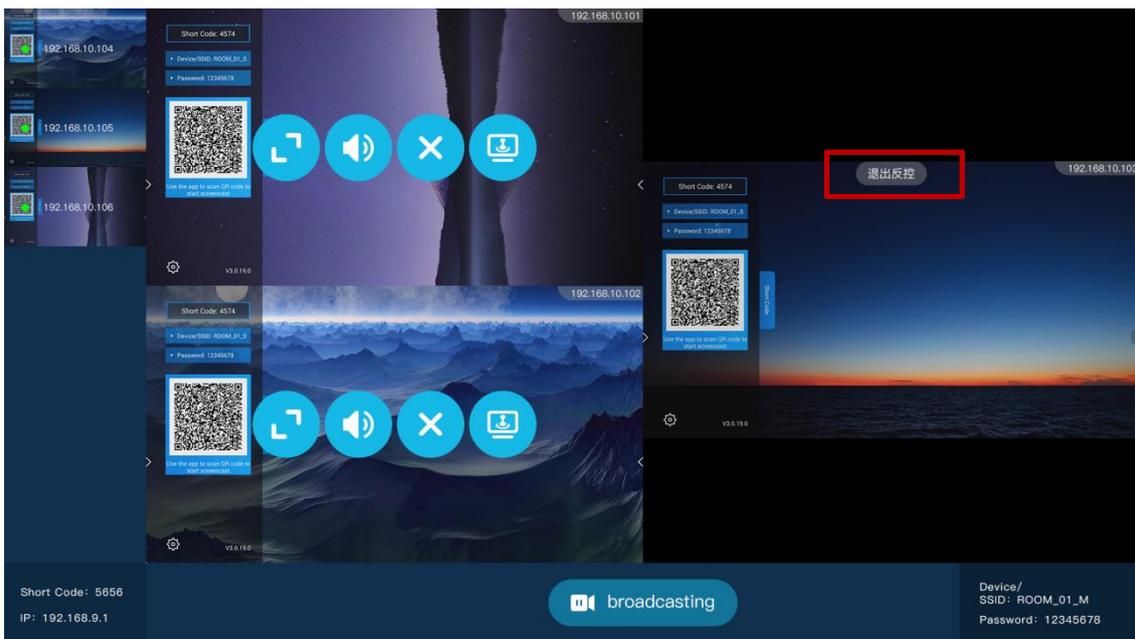
The reverse control function supports controlling the screen-casting computer by clicking and double-clicking on the large screen.

WiDi protocol screen projection / Bijie APP, both support reverse control function.

Click the "Reverse Control" button on the small split screen interface to start the reverse control of the split screen on the screen-casting computer.



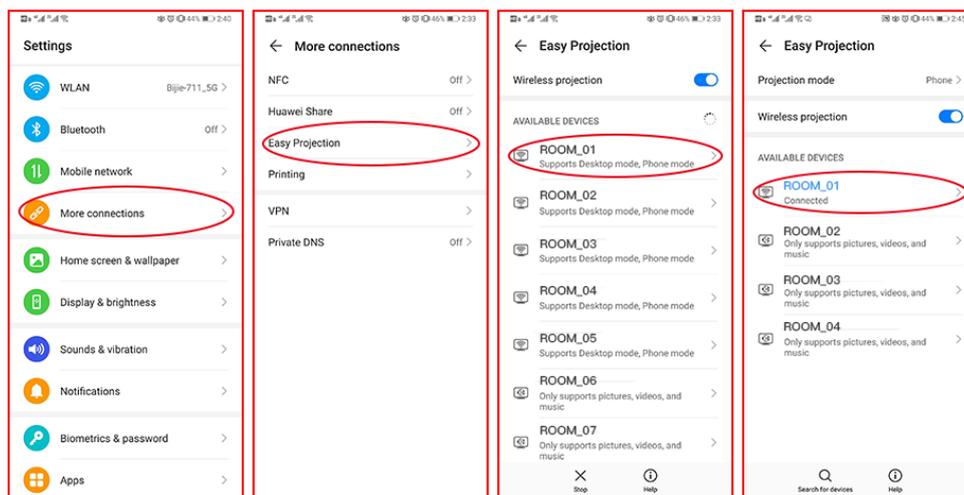
In the case of reverse touch, click the "Exit Control" button on the small split screen interface to turn off the split screen's reverse control of the screen-casting computer.



5 Terminal Operating Instructions

5.1 Android Miracast

The BJ72 supports smartphones and tablets of Android 4.4 and above. Generally, under the settings of the phone or tablet (or use the Android screen drop-down menu shortcut), click on the names of 'multi-screen interaction', 'The options of "Wireless Display/Projection", "Screen Mirroring" or "WLAN Direct" can activate the wireless display function of the mobile phone. Then select the BJ72 device and connect it, and the mobile phone screen will be displayed on the display device simultaneously..

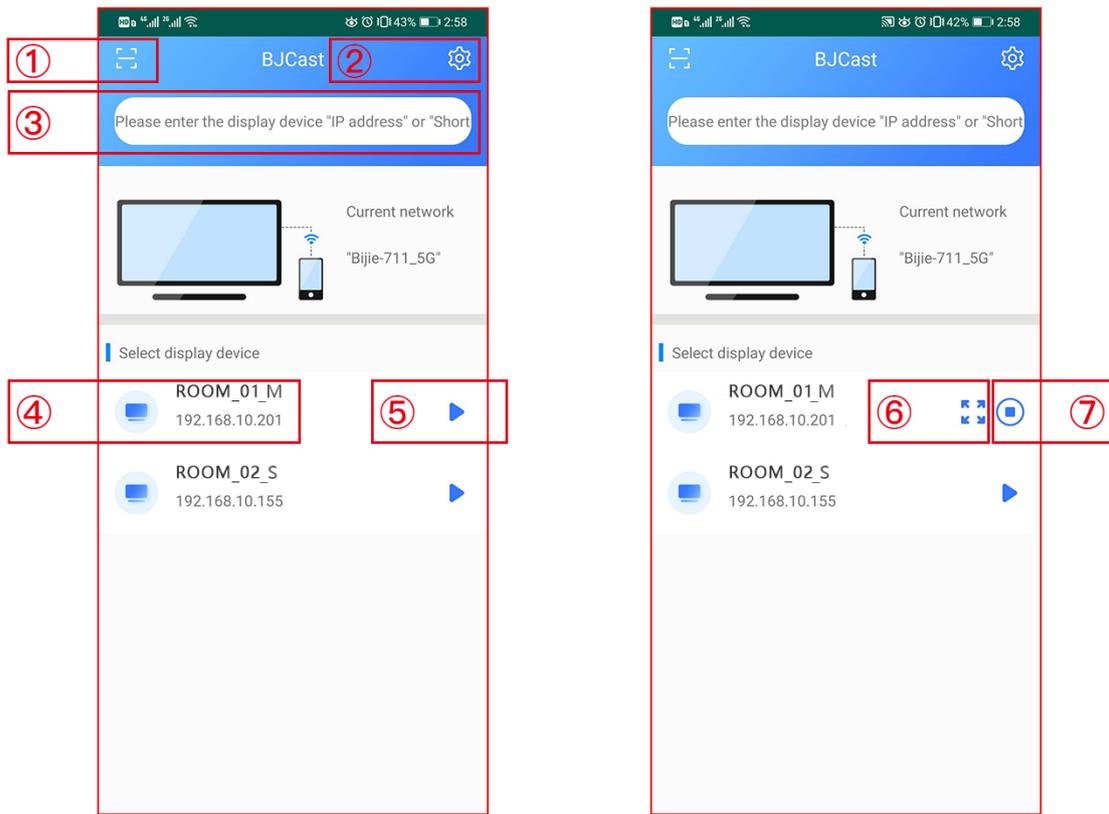


Different brands of Android terminal screen projection methods are different

5.2 Android APP

- 1) Scan the QR code of the wireless projection device system page and download the APP projection software
- 2) Install 'Wireless Projection APP'.
- 3) Follow the APP prompts, select the screen projection device, and start mirror screen

projection



①	QR scan button
②	Setting button
③	INPUT Text: In discovery mode, enter the IP address of the screen-casting device to directly connect the device to the screen; In the short code mode: Enter the short code to directly connect the device to screen projection.
④	All projectionable devices
⑤	start projection'
⑥	full zoom
⑦	Stop projection

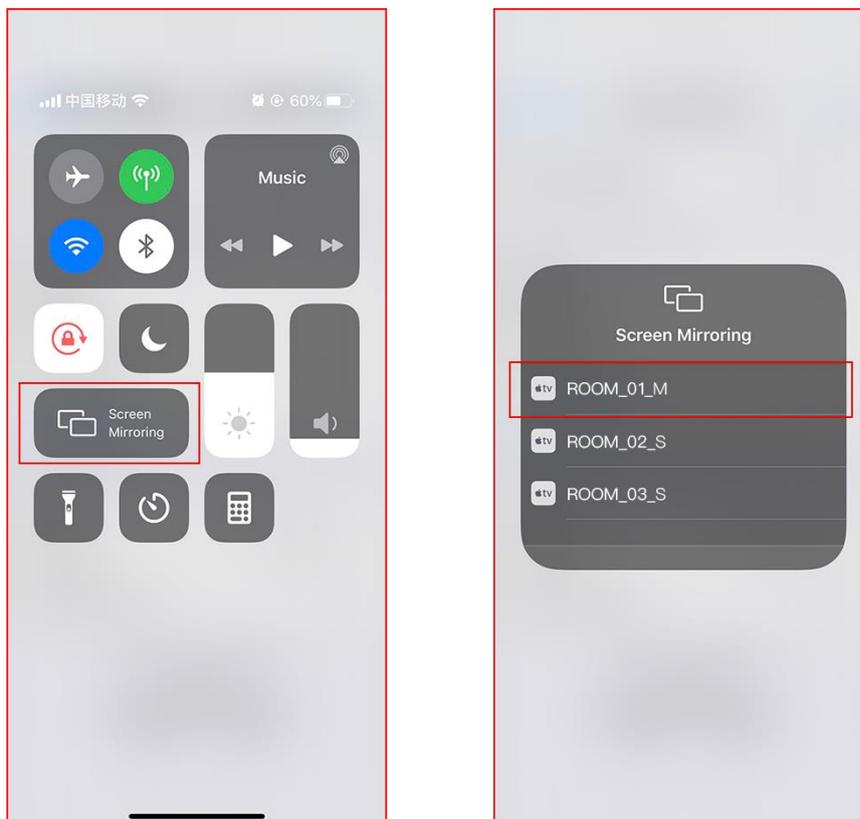
5.3 iOS AirPlay

The wireless screen function of the smart terminal in the iOS system uses Airplay to cast screens. BJ72 Interactive Box supports iPhone and iPad wireless screens with iOS7.0 and above.

When casting, you must make sure that the iOS device and the Box must be connected to the same router, or the iOS device is directly connected to the projection device Hotspot network:

Open iOS Device Control Center 'AirPlay'

Select the screen projection device and start mirror screen projection

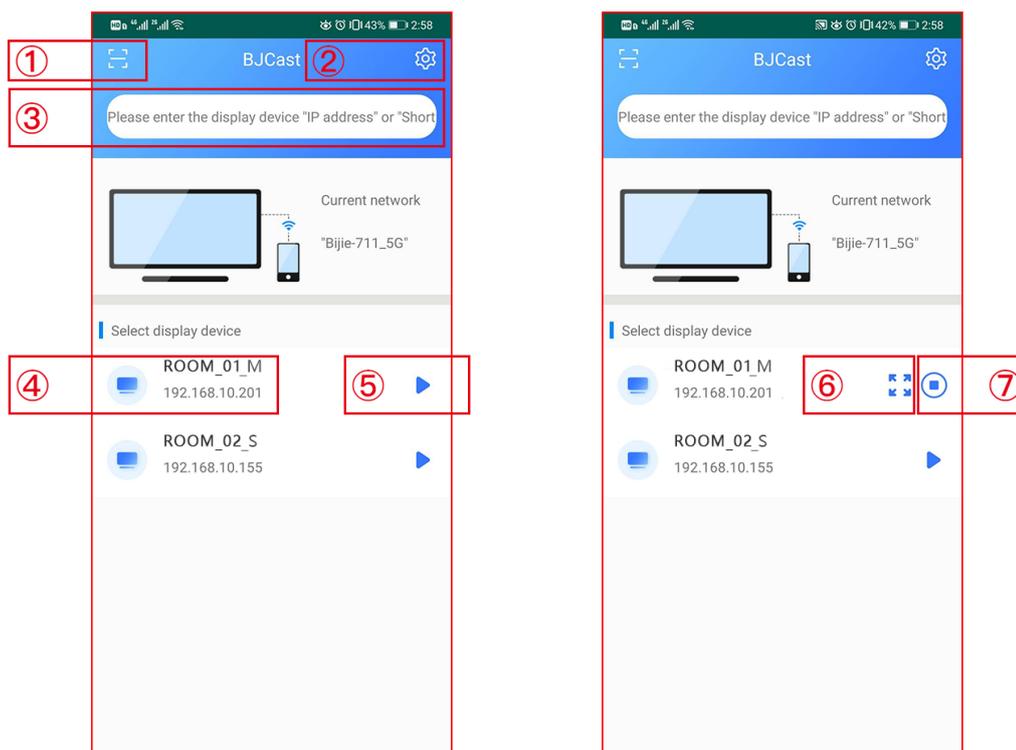


Remarks:

Some iOS third-party software comes with music or video projection functions, which may cause system failure during use. Please try to use the built-in screen option of the iOS system to connect the BJ72.

5.4 iOS APP

- 1) Scan the QR code of the wireless projection device system page and download the APP projection software
- 2) Install 'Wireless Projection APP'.
- 3) Follow the APP prompts, select the screen projection device, and start mirror screen projection

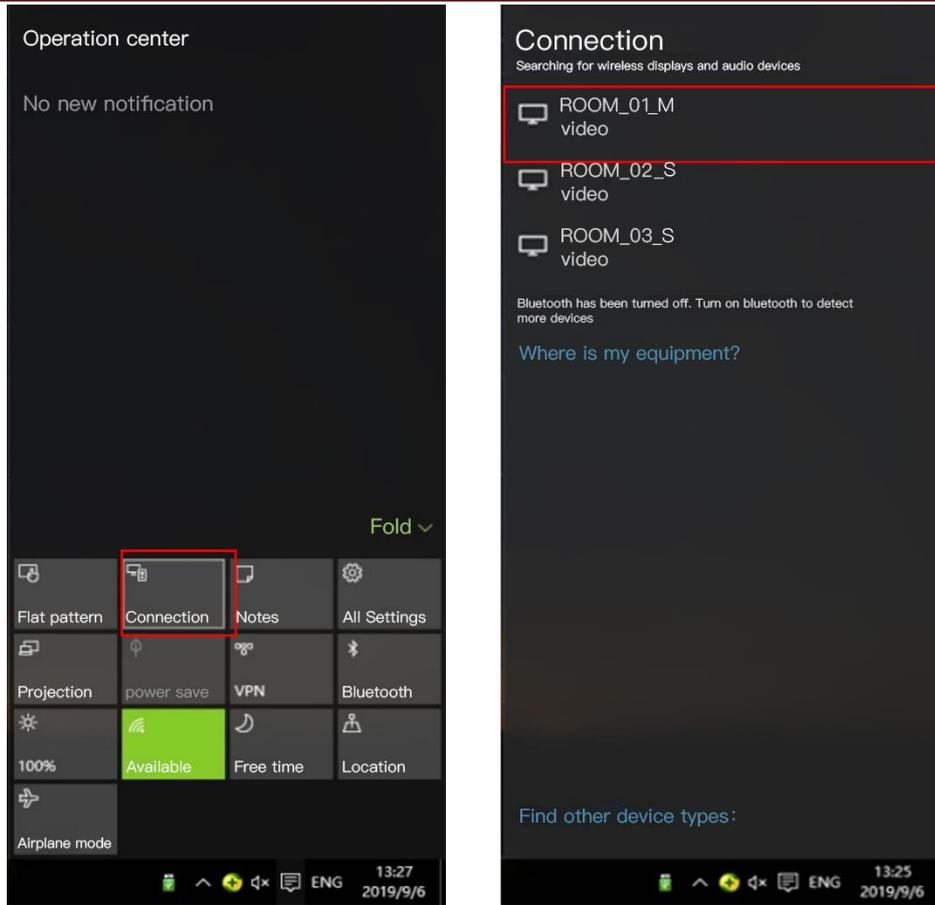


①	QR scan button
②	Setting button
③	INPUT Text: In discovery mode, enter the IP address of the screen-casting device to directly connect the device to the screen; In the short code mode: Enter the short code to directly connect the device to screen projection.
④	All projectionable devices
⑤	start projection'
⑥	full zoom
⑦	Stop projection

5.5 Windows8/10 WiDi

The WiDi projection method is the wireless projection display function that comes with laptops with Window8 and window10 systems. The BJ72 interactive box is compatible with the WiDi projection protocol. Users can directly perform screen projection without installing any software or hardware.

- 1) Click the notification bar in the lower right corner of the computer display, and click the 'Connect' function; or press the shortcut key 'Win' + 'K' to bring up the screen;
- 2) The system automatically scans the wireless display device, selects the display device that needs to be screened, and clicks on the connection to start screen projection..



5.6 Windows APP

- 1) Install 'Wireless Projection' PC client software; client software can be downloaded from the product's official website;
- 2) Make sure that the computer and the projection device are in the same local area network;
- 3) Follow the client prompts, select the screen-casting device, and start mirroring the screen;
- 4) Windows version of the wireless projection client is compatible with WindowsXP / 7/8/10 operating system



①	Text Input: Input the device' s IP address or short code.
②	Optional screen-casting device
③	Start projection buttong
④	minimize
⑤	Full zoom
⑥	Stop projection
⑦	Setting button
⑧	Exit button

5.7 Mac OS AirPlay

The Mac OS system computer wireless screen function uses Airplay to cast screens.

- ① Make sure that the Mac computer and the box are connected to the same router, or that the Mac computer is directly connected to the AP hotspot network of the projection device:
- ② Open the top right corner of your Mac computer.
- ③ Select the screen projection device and start mirror screen projection



5.8 Mac OS APP

- 1) Install 'Wireless Projection' PC client software; client software can be downloaded from the product' s official website;
- 2) Make sure the Mac computer and the projection device are in the same local area network;
- 3) Follow the client prompts, select the screen-casting device, and start mirroring the screen;
- 4) The Mac OS version of the wireless projection client is compatible with Mac OS 10 and above

operating systems.



①	Text Input: Input the device' s IP address or short code.
②	Optional screen-casting device
③	Start projection buttong
④	minimize
⑤	Full zoom
⑥	Stop projection
⑦	Setting button
⑧	Exit button

5.9 USB Transmitter

The BJ72 Bijie interactive box is compatible with USB transmitter projection screen. (USB transmitter must be purchased separately)

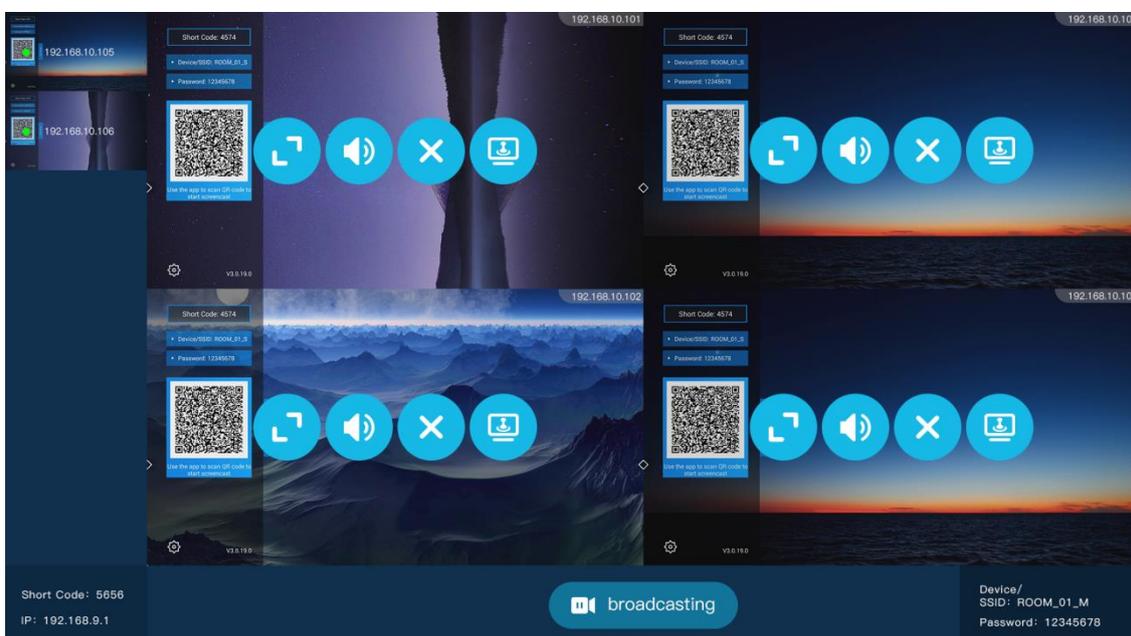
- 1) insert the USB transmitter into the USB port of the BJ72 type Bijie interactive box for pairing. When the system displays "Pairing successfully" , unplug the USB transmitter;
- 2) Plug the USB transmitter into the USB port of the computer. (For the first use, you need to install and run the driver software. The driver is in the built-in U disk of the transmitter. Mac users also need to enter the user login password and authorize the use of the microphone. Win7 computers may prompt to install the driver);
- 3) When the computer recognizes the USB transmitter, a prompt window "Please click to start screen projection" will pop up automatically;
- 4) Press the button on the front of the USB transmitter lightly to quickly cast the screen;
- 5) The USB transmitter is compatible with Windows 7 and above and Mac OS10 and above.。

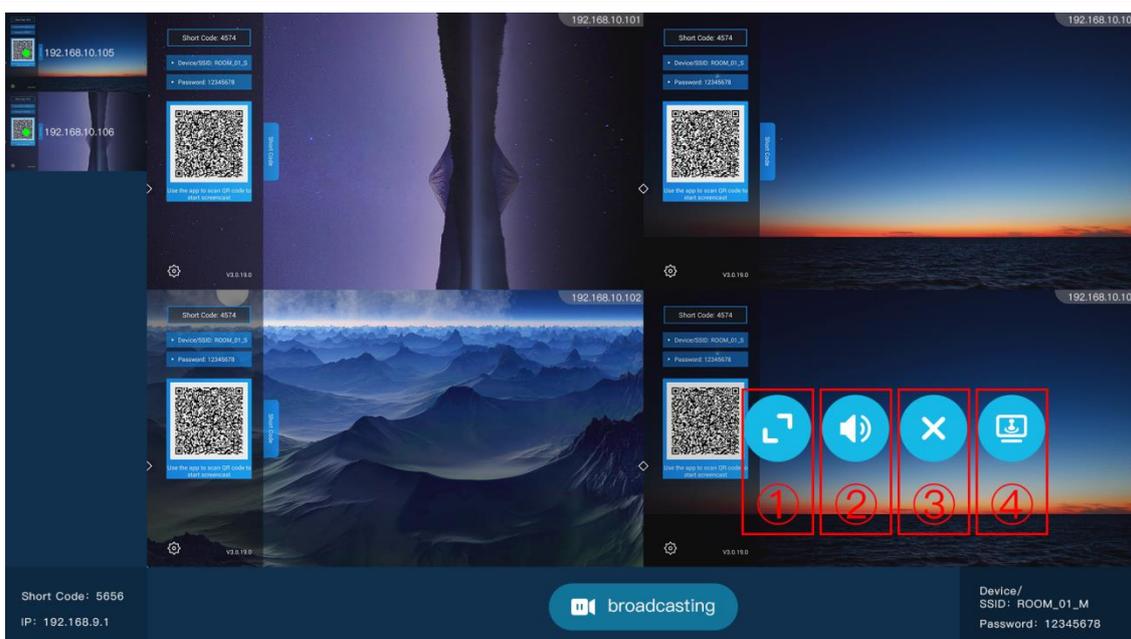


5.10 Multi-screen projection screen

In the multi-screen projection mode (supports up to 4 screens), you can set the settings of 'Mute', 'Enlarge', 'Zoom Out', 'Kick Out', and 'Reverse Control' for a single screen.

When a certain projection screen is enlarged, other projection screens are hidden. Click the 'Zoom Out' button to display multiple screens on the same screen.





①	ZOOM in/out button.
②	Mute button.
③	Kick out
④	Reverse control button

