



G-Series Intelligent Broadcast Processor Operation Manual

Version: V1.1

Statement

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Update Record

No.	Version	Updates	Revision Date
1	Ver.1.0	Initial Release	2025.01.06
2	Ver.1.1	Update content	2025.04.01

NOTE:The document is subject to change without prior notice.

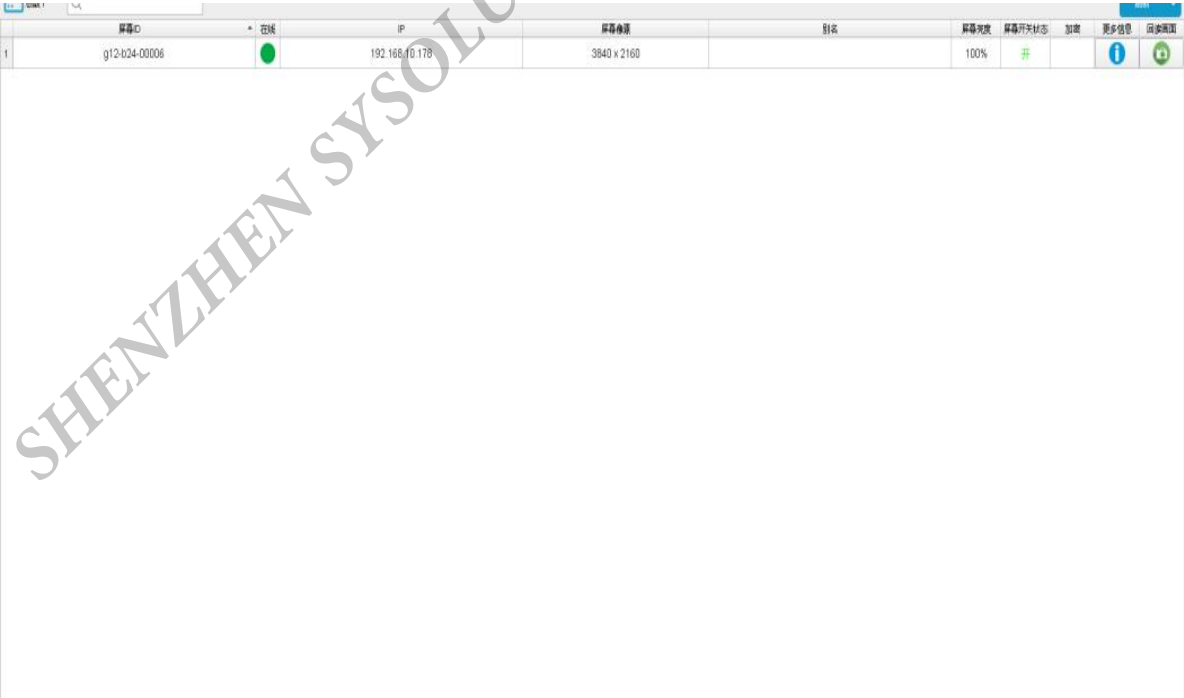
一、 Use LEDOK Express to publish programs

1、 Devices Connection and detection by Software

Network cable direct connection

Prepare a network cable, one port connects to the LAN port of the G-Series Playbox, another port connects to the computer's network port. Open LEDOK Express, in the device management interface, click the "detect" button in the left bottom . Wait for a moment, the card number of the G series playback box will appear, which means that the device has been found.

As shown in the picture:



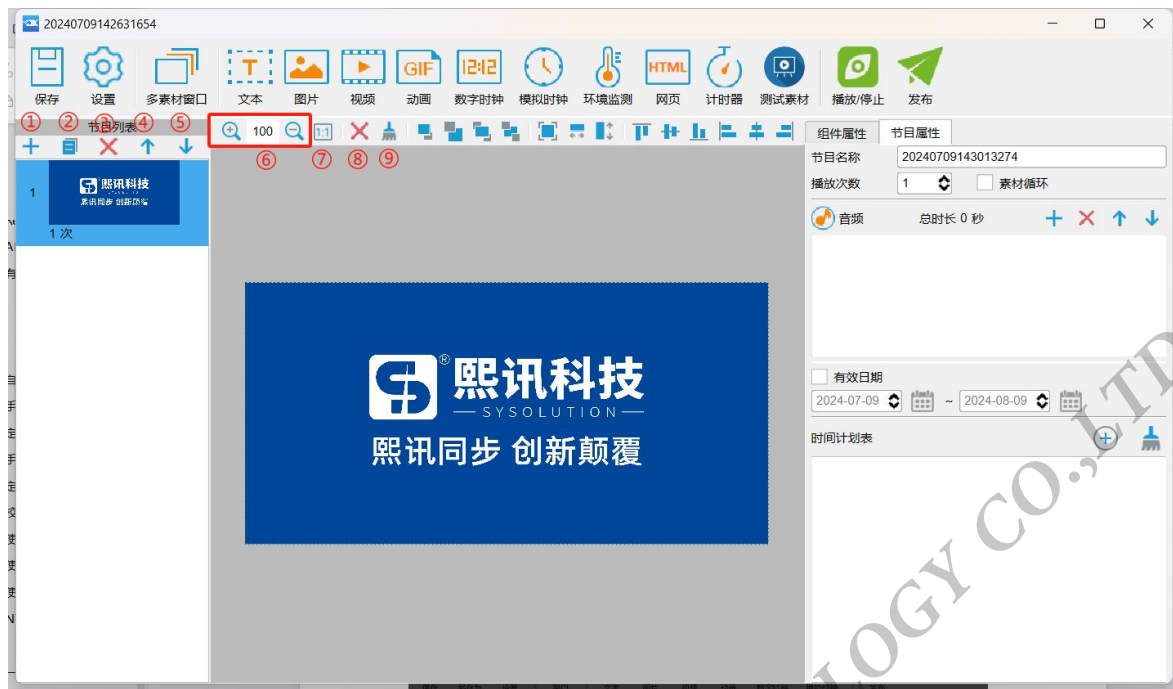
Factors that can not find the control card:

After selecting the desired program type in the navigation bar, edit its component properties.

Widget properties: refers to the properties of the content added to the page, such as text, photo, video and so on. Can set the added program content in terms of width and height, playback method, etc. The content of widget properties is different for different program types.

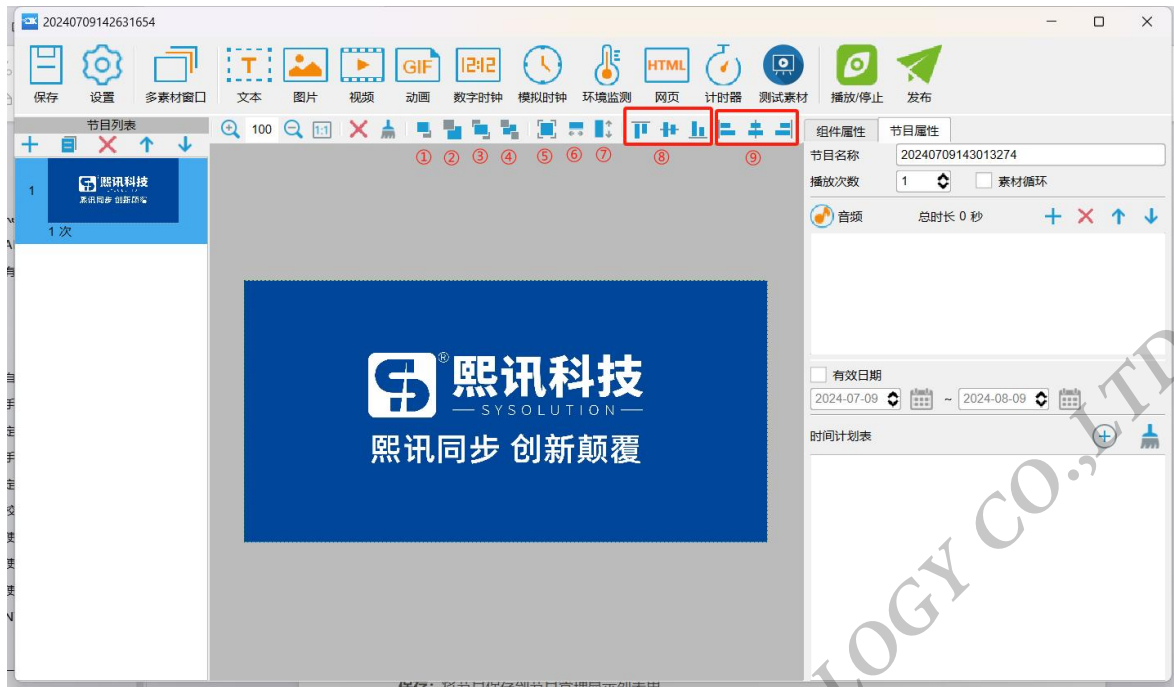
Program properties: can set the name, play times, and date selection for the selected page according to your personal needs.

- (1) Add page
- (2) Copy page
- (3) Delete page
- (4) Move a page up
- (5) Move a page down
- (6) Zoom in and out
- (7) Original Size
- (8) Delete the selected media
- (9) Clear all media



Can layer the added program modules in the window interface for easy editing.

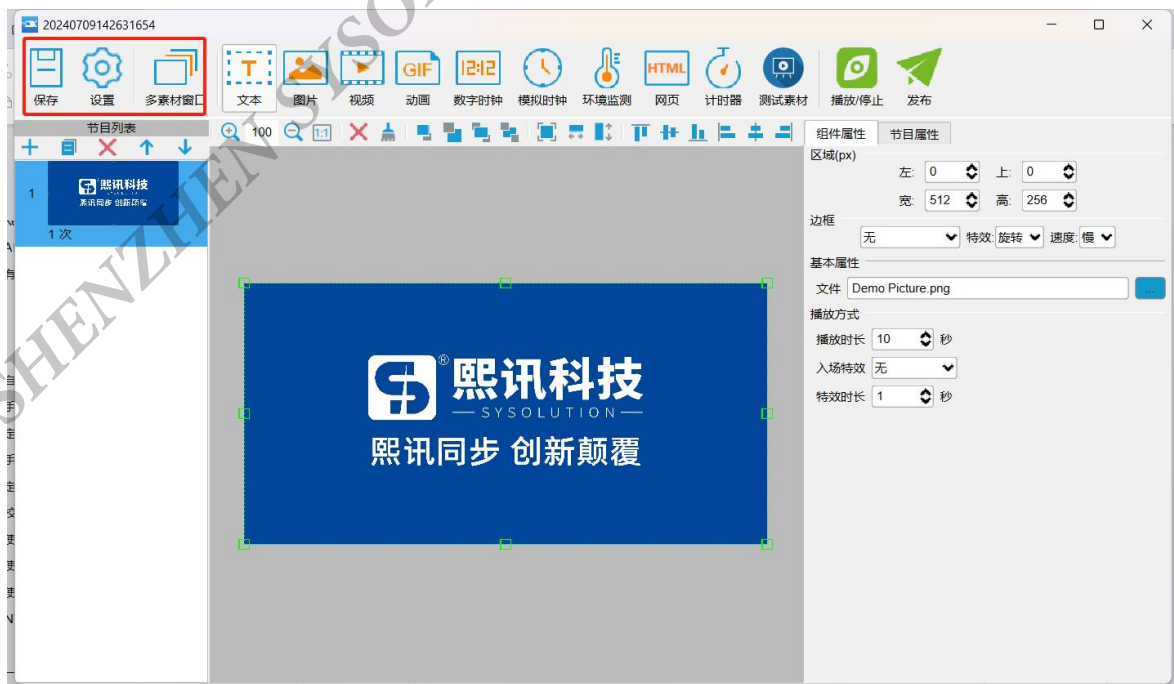
- (1) Move layer up
- (2) Send backward
- (3) Bring to front
- (4) Move to the bottom layer
- (5) Fill the entire screen
- (6) Fill the screen horizontally
- (7) Fill the screen vertically
- (8) Vertical alignment (Align up-Center vertically-Bottom up)
- (9) Horizontal alignment(Align left-Center horizontally-Align right)



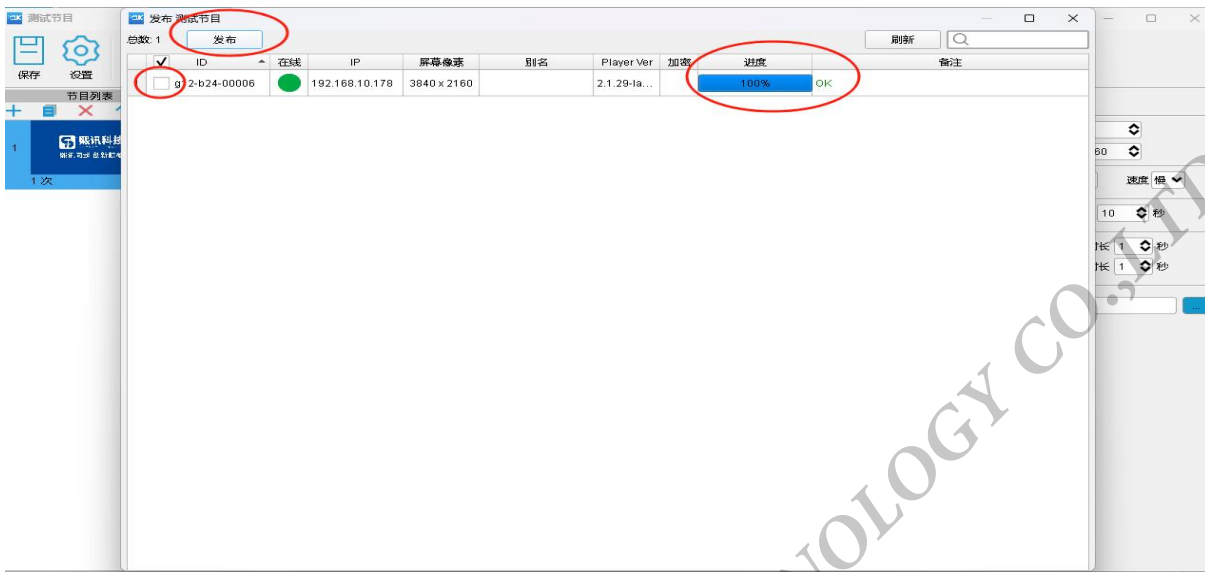
Save the program to the program management display list.

The Setting window allows to reset the name, width and height of the page, note information, and so on.

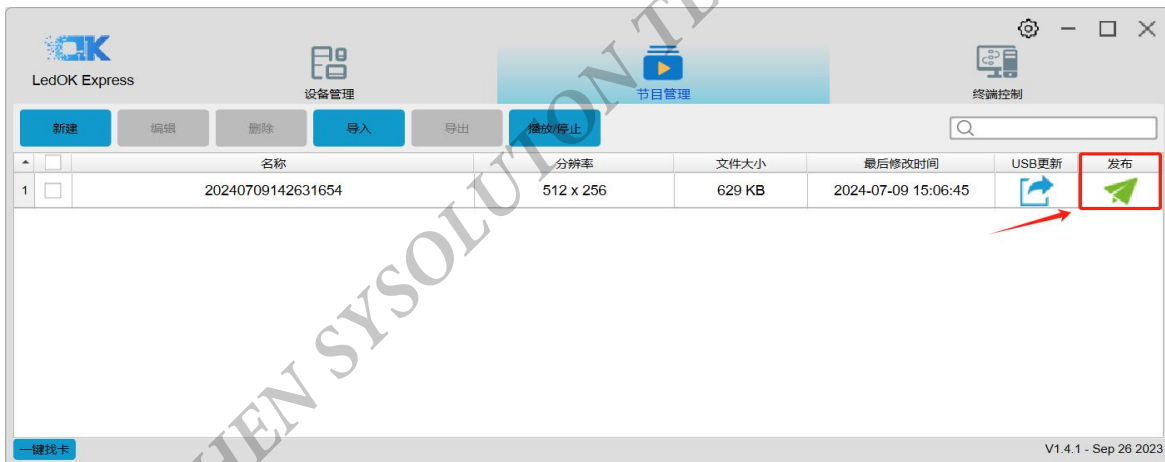
Multiple different media can be added and the LED display will play them in the order of the list.



After setting, click Publish. In the pop-up window, select the control card you want to publish the program and click Publish. The progress will be uploaded to 100%.



Can also edit, import, export, and publish existing programs in the Solutions interface.



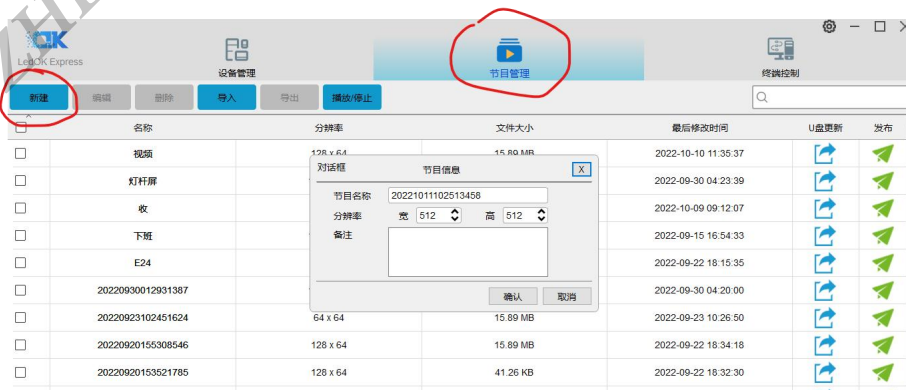
The above program release operation can be copied below link to the browser to open to watch the video operation:

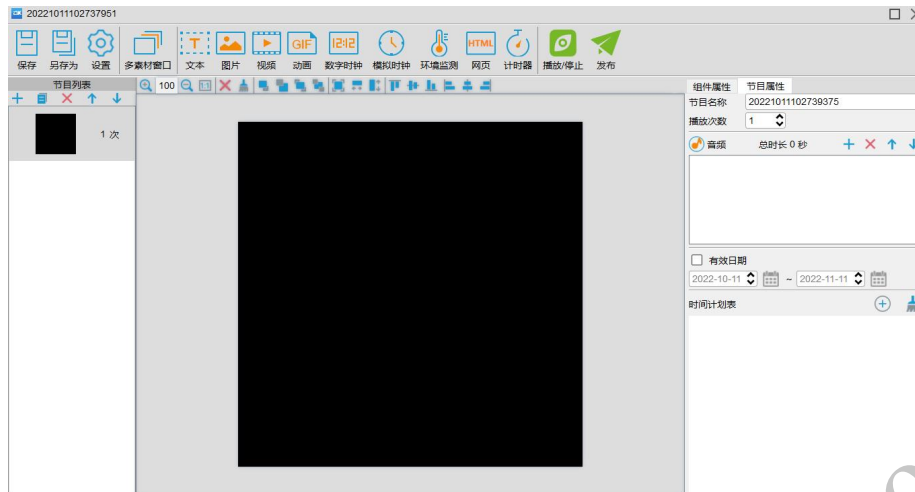
<https://www.sysolution.net/news/video-tutorial-104168.html>

一、U disk program play

1、Create program

Open the LEDOK software and enter the Solutions interface to create a program; set the program name, size and content.

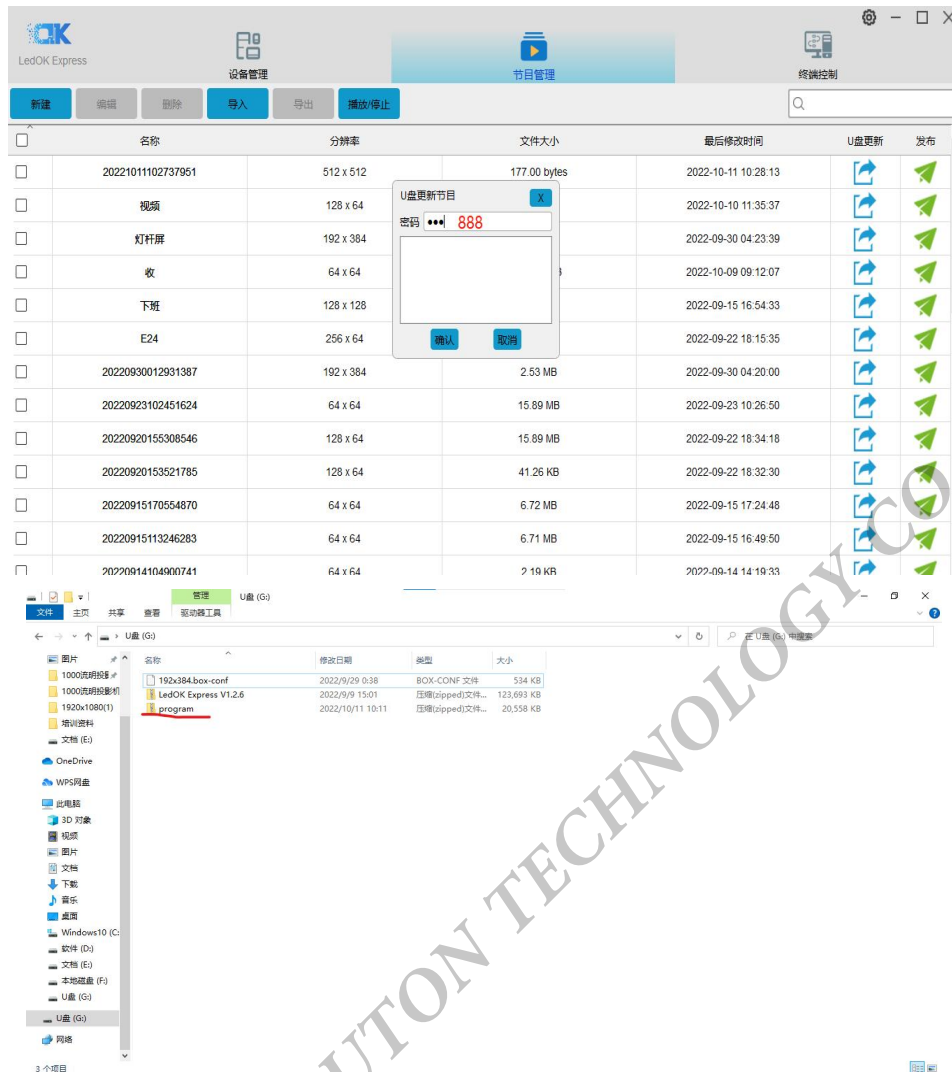




2、Program imported to U disk

Insert the U disk, click the software Solutions interface. Find the program you have already made and click USB Update. Select the U disk, enter the password "888", then can transfer the program to the U disk. Can view the program compressed folder in the U disk.





3、U disk program import control card

Insert the U disk into the control card to import the program and play the program successfully.

二、Desktop program release

1. Hardware preparation

(1) U disk

- 1) must place pictures and videos in the root directory;

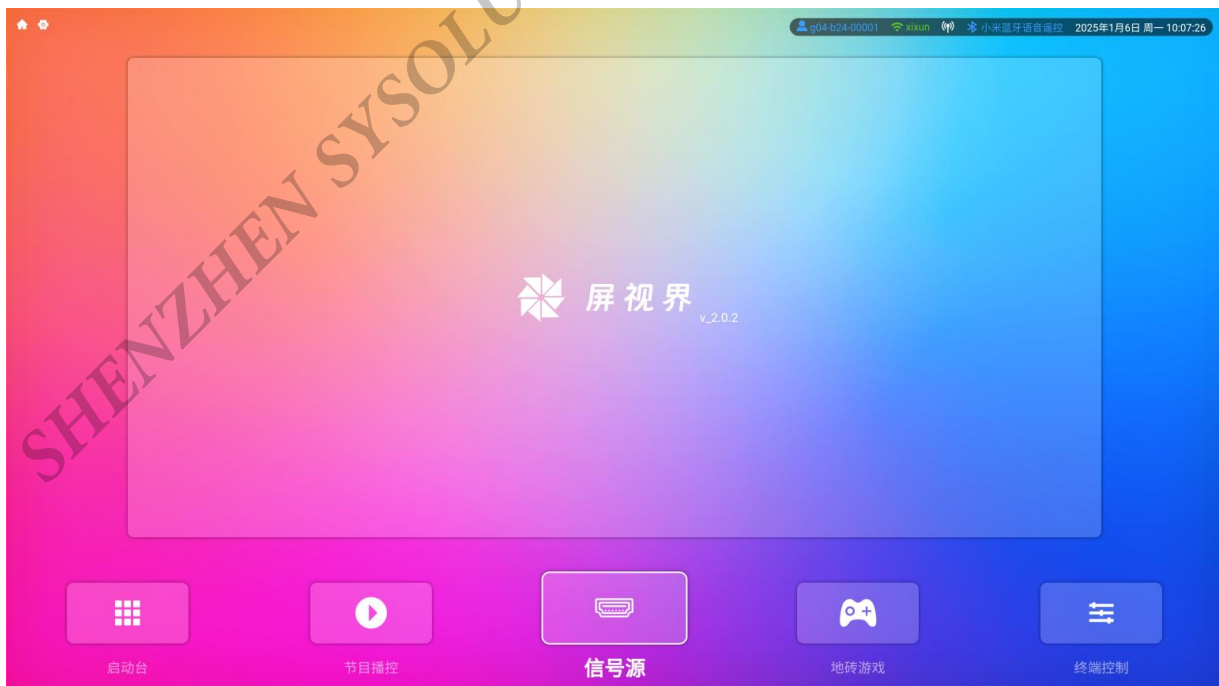
- 2) material restrictions: jpg、 jpeg、 png、 gif、 mp4;
- 3) need to insert the U disk into the USB port in the front panel;

(2) Bluetooth Remote Controller

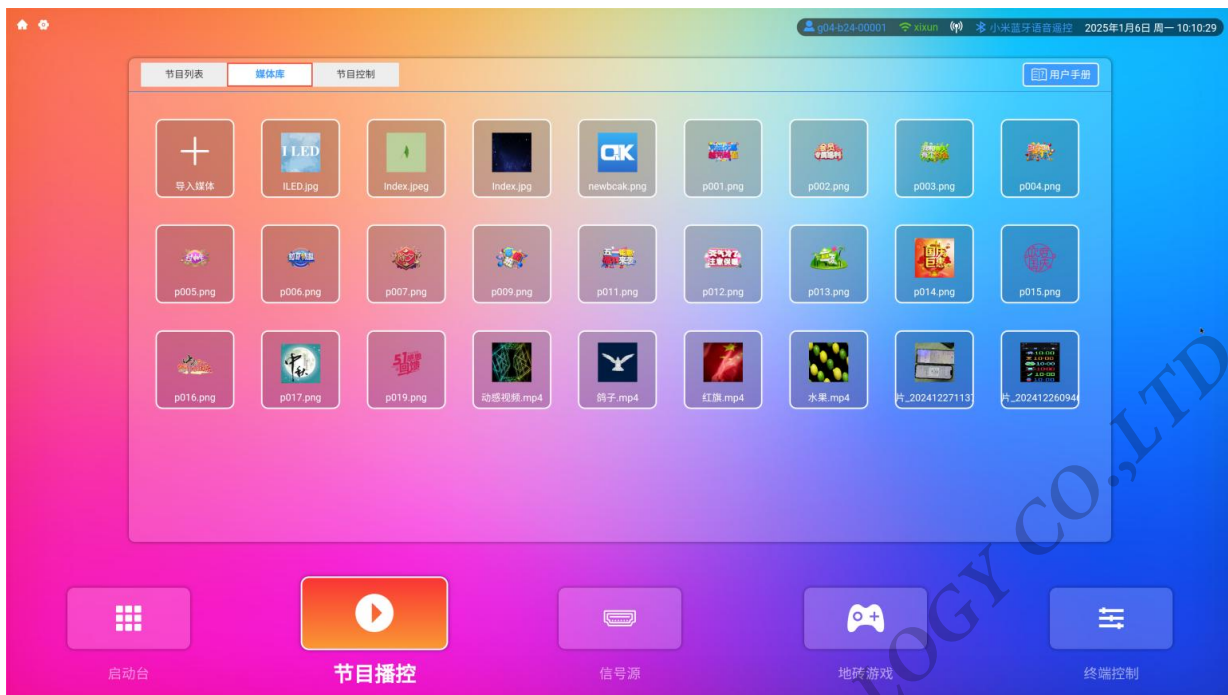
- 1) Pairing will be done at the factory;
- 2) Control the focus in the screen view by [Up], [Down], [Left], [Right] of the remote control, click the interface buttons by [Confirm], and trigger the return to the previous page by [Back];

2. Program Release

Step 1 Click [Left] with the Bluetooth remote control, focus on [Program Control] and then click [Confirm].



Step 2 Click [Right] to bring the focus to [Media Library] and click [Confirm].

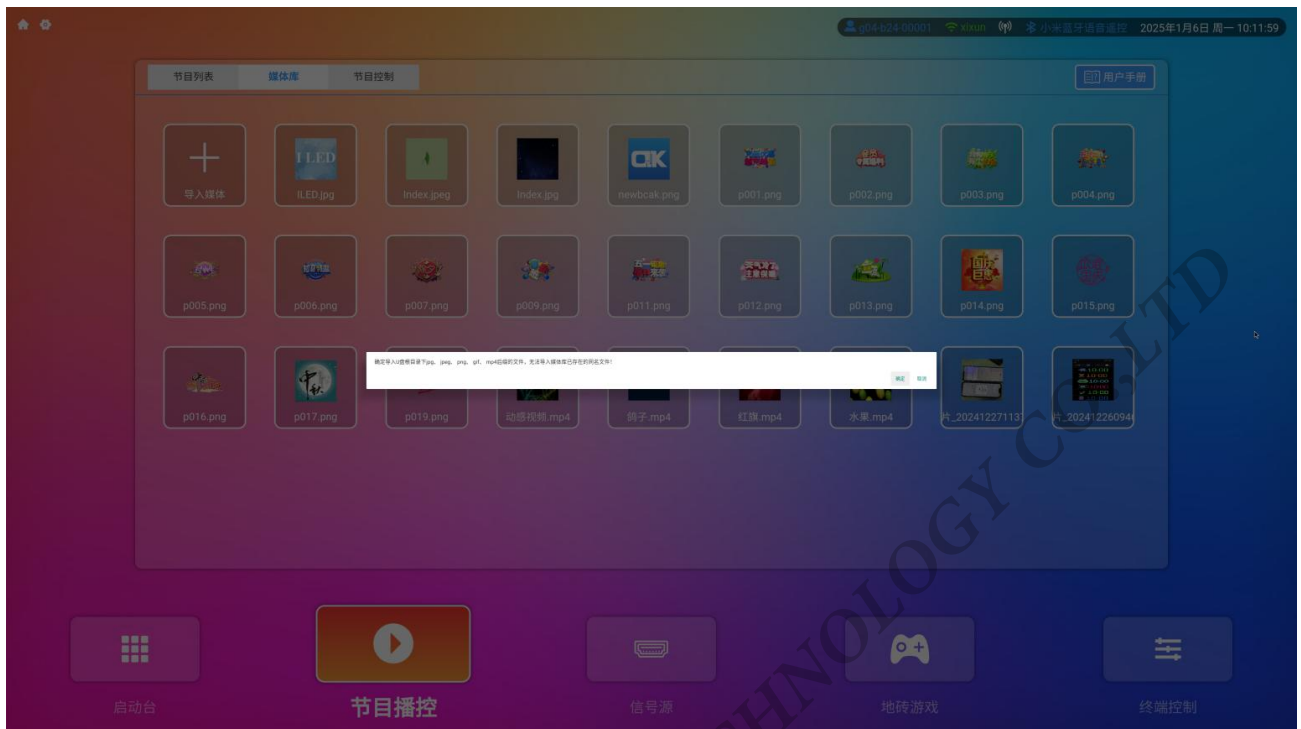


Step 3 Click [Down] to bring focus to [Import Media] and click [Confirm].

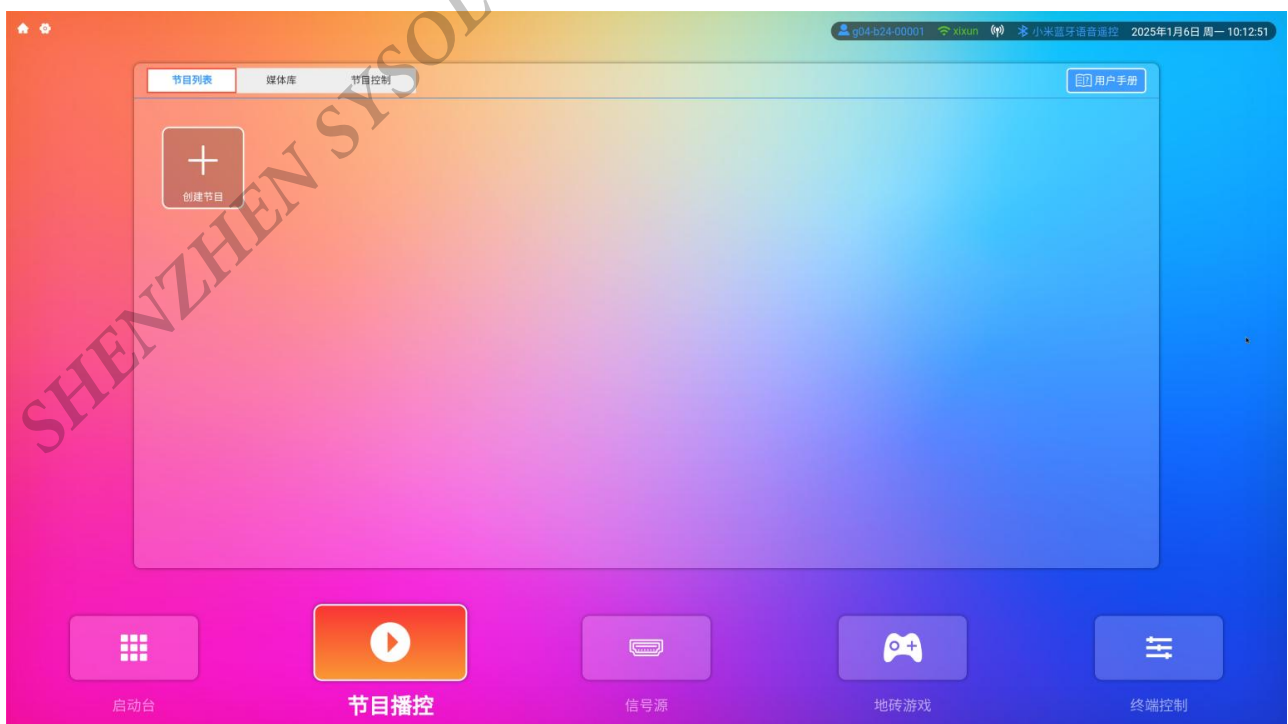


Step 4 Click [Confirm] in the white pop-up window. The files in the root directory of the U disk

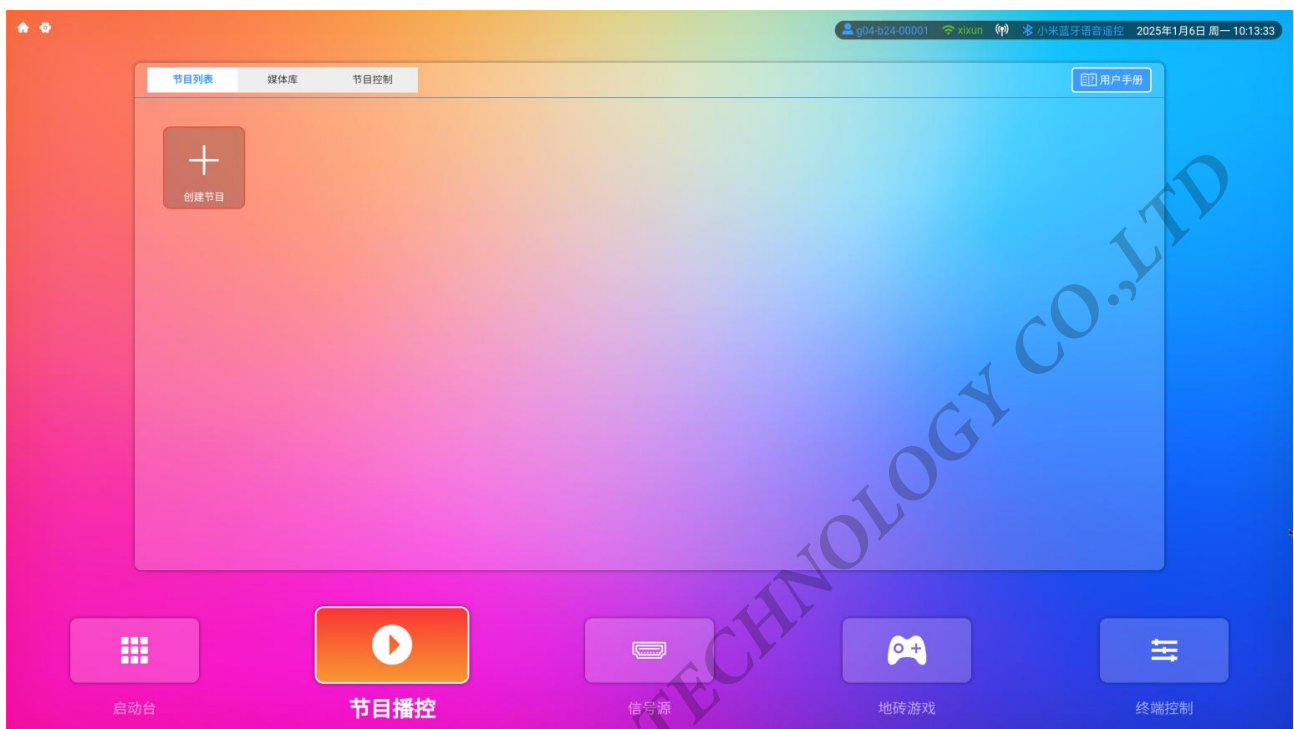
will be imported into ScreenVision's media library.



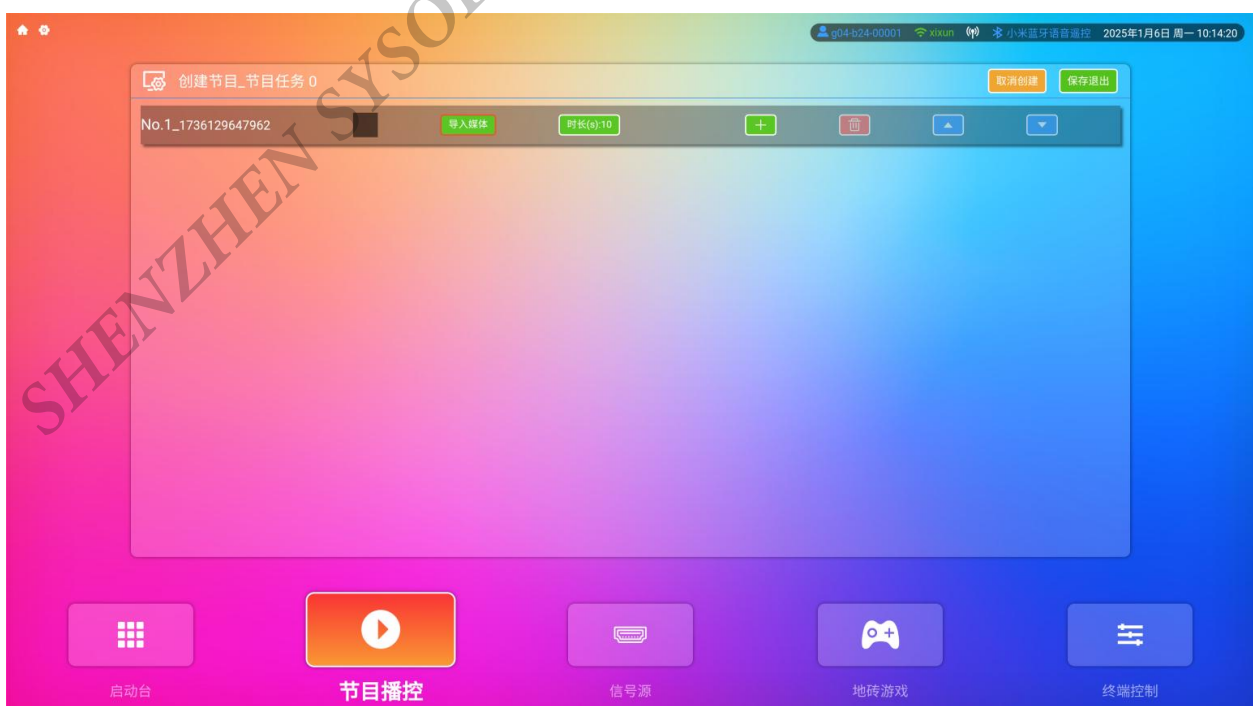
Step 5 Click [Up] to bring the focus back to the Triple Choice box, click [Left] to focus on [Program List], and click [Confirm].



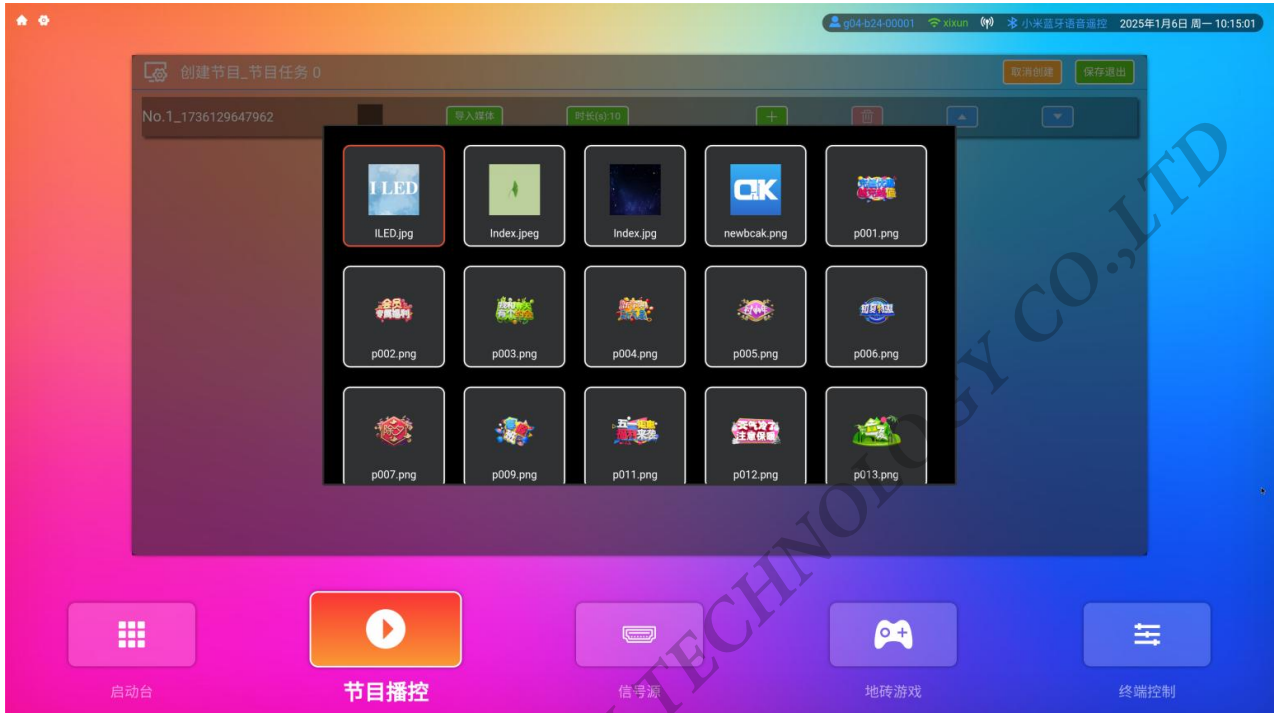
Step 6 Click [Down] to bring the focus to [Create Program], and click [Confirm].



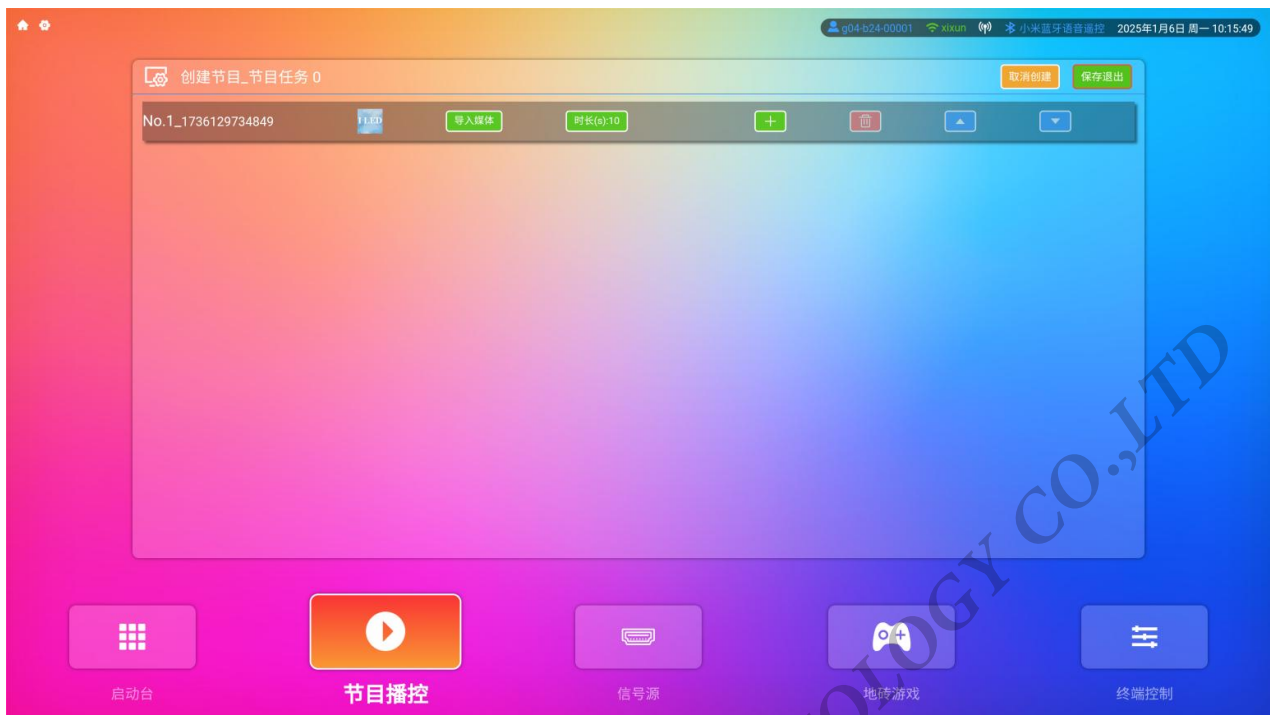
Step 7 Focus on [Import Media] and click [Confirm].



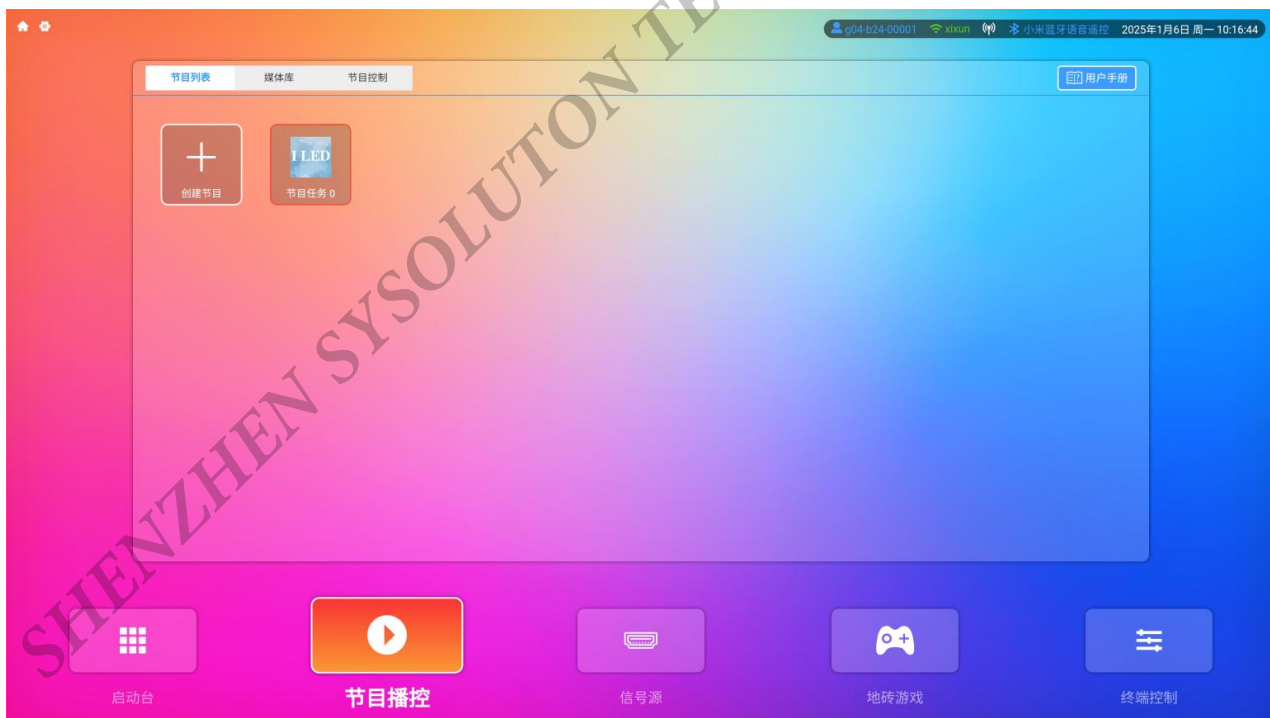
Step 8 Select the media you want to play and click [Confirm].



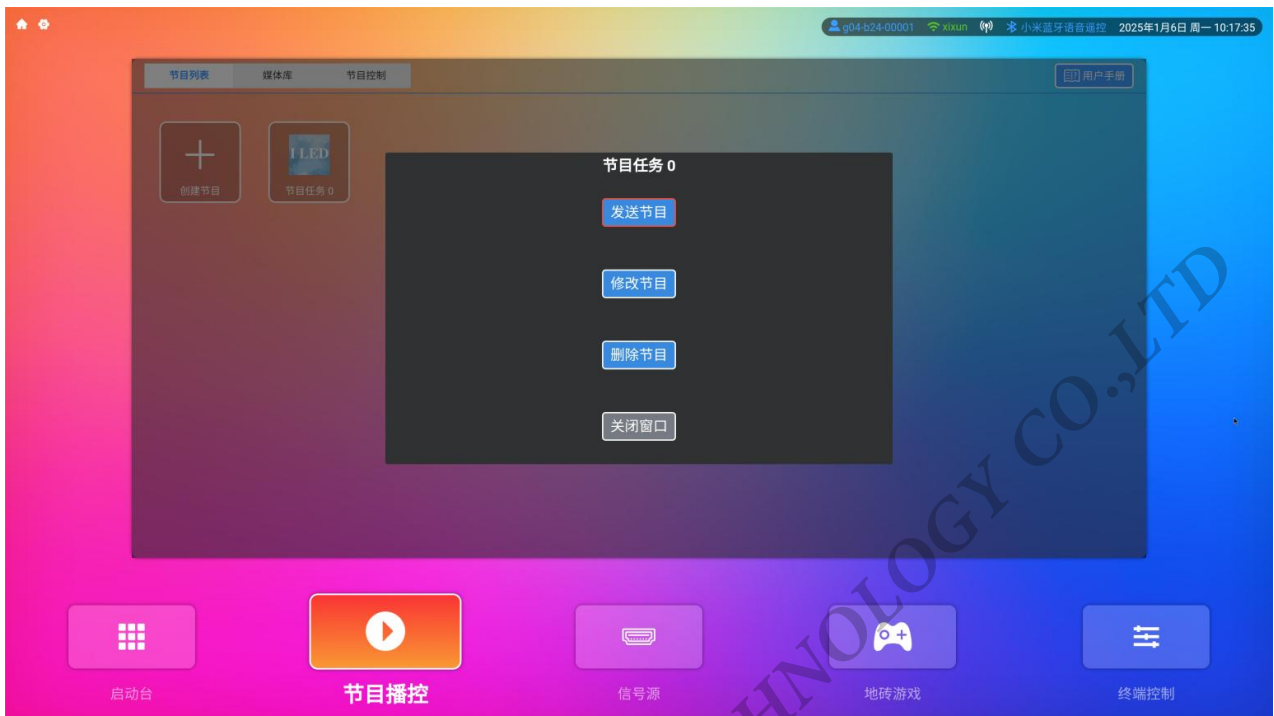
Step 9 Click [Up] to select [Save Exit] and click [Confirm].



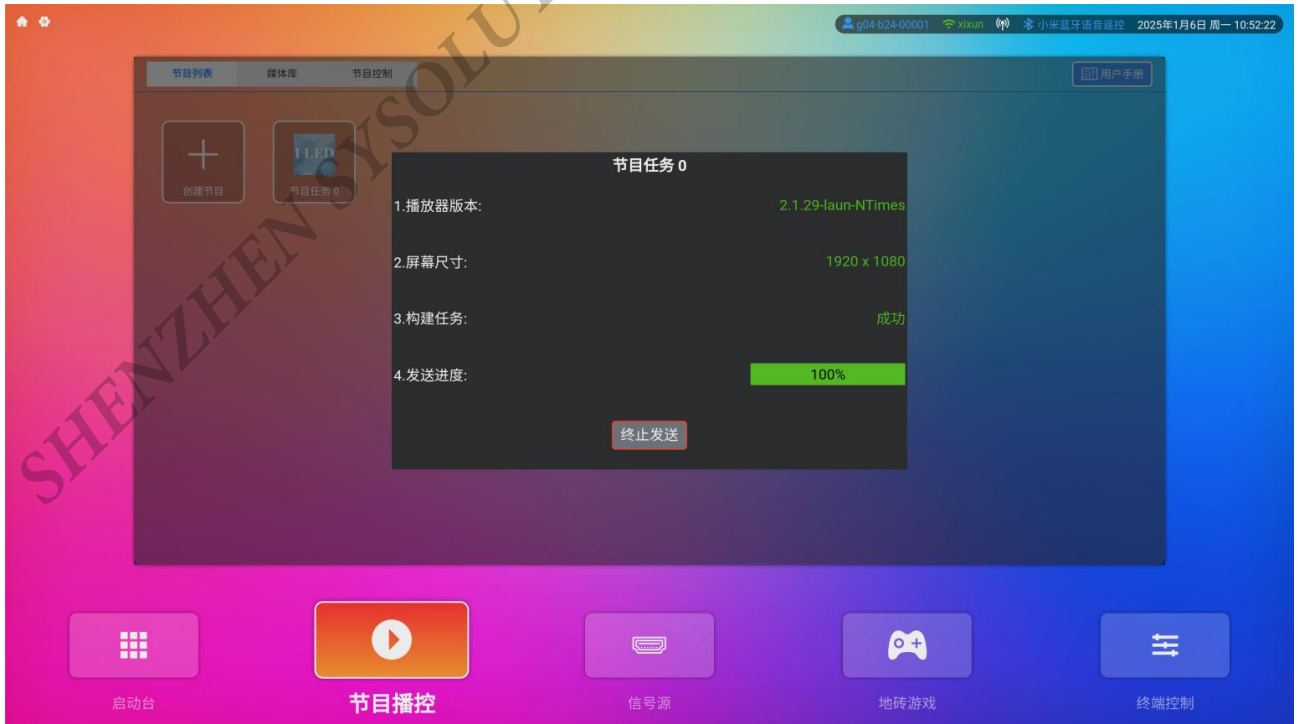
Step 10 Make the focus select the program just created and click [Confirm].



Step 11 Select [Send program] and click [Confirm].



Step 12 When [Send progress] reaches 100, the program is sent successfully.



Step 13 When sending is successful, the pop-up window will be closed automatically and the

www.ledok.cn

published program will be displayed. If sending fails (the progress bar is blocked at 0 and red text appears above it), please check the reason and click [Stop sending].



三、 Wireless screen casting operation

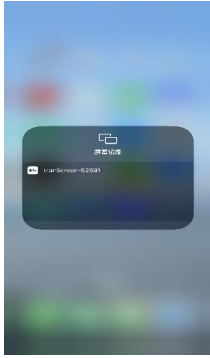
1. First of all, start the G series intelligent broadcast control processor (G12 for example), will see the screen vision software interface.



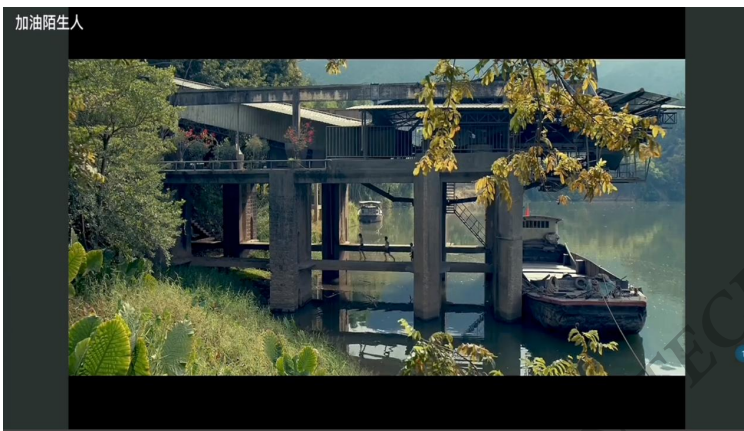
2. Remote control to select the launch station, click to confirm, will see the application list. Select the wireless screen casting software, click to confirm



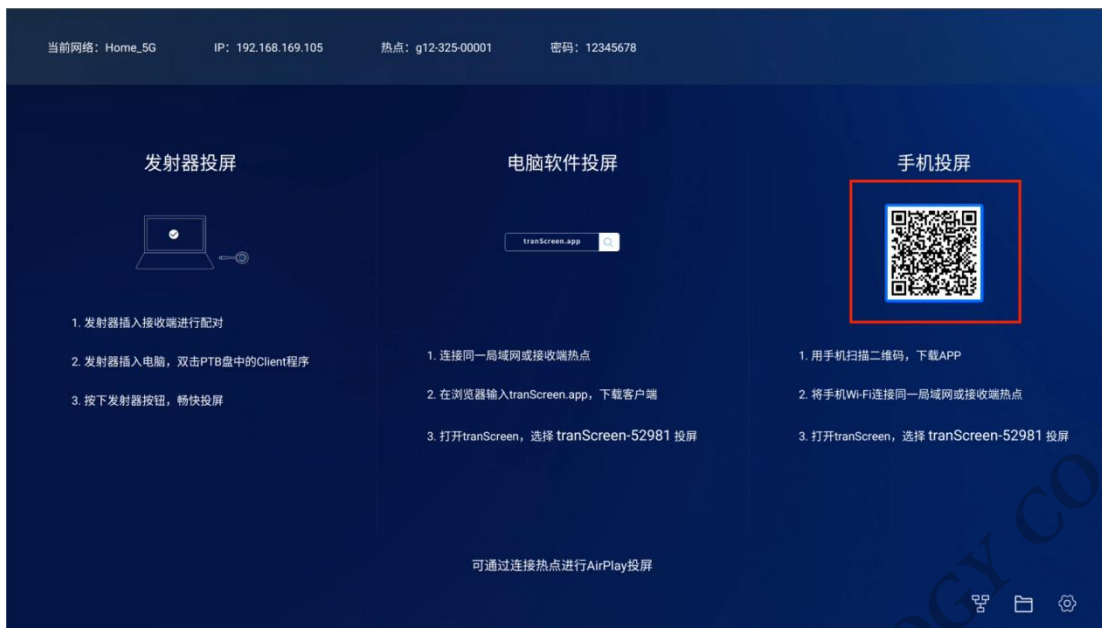
3. Hotspot name and password will pop out on the top of the interface, use the phone to find the hotspot name and connect to it
4. After connecting, pull down the notification bar, select screen mirroring and long press, it will search for this casting device.



5. Select this mirror, this time the image will be cast on the screen



6. If it is an Android phone, first scan the QR code on the screen interface to download and install a screen casting software. After the installation is completed, connect to the G12 hotspot. Open the screen casting software, can find the device and click to cast the screen.



Functional Principle and Topology

Core Module Description

1. Data collection end

- **RP2A smart camera** ▶ Real-time capture of passenger flow (resolution 1080P) ▶ Support for gender identification (male/female) and age segmentation

2. Data processing layer

- **G-Series Edge Computing Module** ▶ Local real-time analysis of passenger flow data ▶ Encrypted data uploaded to the cloud through the network port/WiFi/4G

3. Cloud and Terminal

- **LedOk cloud platform** ▶ Data board: real-time display of traffic statistics (gender ratio, age distribution, daily traffic) ▶ Remote management of advertising screen content
- **Display terminal (LED/LCD screen)** ▶ Synchronized playback of advertisement content and heat map of customer traffic Data flow

Data flow

1. **Acquisition→processing**: USB wired transmission
2. **Processing→Cloud**: Android system processing
3. **Cloud→Screen**: LedOk cloud platform Key Function Highlights

Key Function Highlights

- **AI accurate identification**: dual algorithm engine, gender accuracy rate $\geq 95\%$
- **Low-latency interaction**: <5 seconds from acquisition to cloud display
- **Multi-scene adaptation**: can be deployed in shopping malls, transportation hubs and retail stores



LedOk cloud platform (can see in real time the total number of people watching the screen today, the number of men and women and age groups)

Product Parameter

Camera Main Parameter	
Sensor	1/2.5-Inch CMOS Sensor
Resolution	2952 H x 1944 V
Image size	2.2*2.2μm
Wide Dynamic Mode	85dB
Output Format	MJPEG, YUV2
Field of view	DFOV:130°
Lens	FEL:2.8mm F/NO:2.4
Scanning speed	0.1S
Focus Type	FF/ MF
Shutter Type	Electronic rolling shutter
Output and power supply	High Speed USB2.0
Controllable Parameters	Brightness, Contrast, Saturation, Hue, Sharpness, Gamma, White Balance, Backlight Contrast, Exposure
Supported Systems	Windows, Android, Linux, Wince, Mac OS
Cable Length	1.8 meter USB cable by default
Microphone	Digital microphone

Supported resolutions and frame rates		
Format	Resolution	Frame Rate
MJPEG	2952x1944 (5MP)	30FPS
	2048x1536(3MP)	30FPS
	1920x1080 (1080P)	30FPS
	1280x720 (720P)	30FPS
	640x480 (VGA)	30FPS
	2560x1440(2K)	30FPS
YUY2	2952x1944 (5MP)	5FPS
	2048x1536(3MP)	5FPS
	1920x1080 (1080P)	5FPS
	1280x720 (720P)	10FPS
	640x480 (VGA)	30FPS
	2560x1440(2k)	5FPS

Working parameter

Working Voltage	USB DC +5V Supply
Working Current	~200mA
Working Temperature	-20°C ~ 60°C
Storage Temperature	-20°C ~ 85°C
Humidity	80 ~85%

SHENZHEN SYSOLUTION TECHNOLOGY CO.,LTD

Technical drawing of a PCB assembly showing three views: top, side, and bottom. The top view shows a square board with a central circular feature and four mounting holes. The side view shows the board's profile with a central raised section. The bottom view shows the reverse side with a central circular feature and four mounting holes. Dimensions are provided in millimeters with tolerances.

Top View Dimensions:

- Overall width: 16 ± 0.2
- Overall height: 16 ± 0.2
- Central circular feature diameter: 13.5 ± 0.2
- Central circular feature outer diameter: 18 ± 0.2
- Distance from top edge to top mounting hole center: 17.05 ± 0.2
- Distance from right edge to right mounting hole center: 6 ± 0.2
- Distance from top edge to top mounting hole center: 1 ± 0.2

Side View Dimensions:

- Overall width: 15.5 ± 0.2
- Overall height: 14 ± 0.2
- Distance from bottom edge to bottom mounting hole center: 3.5 ± 0.2

Bottom View Dimensions:

- Overall width: 32 ± 0.2
- Overall height: 27.5 ± 0.2
- Central circular feature diameter: 18
- Distance from top edge to top mounting hole center: 2.25 ± 0.2
- Distance from right edge to right mounting hole center: 2.25 ± 0.2
- Distance from bottom edge to bottom mounting hole center: 2.25 ± 0.2
- Distance from left edge to left mounting hole center: 2.25 ± 0.2
- Central circular feature outer diameter: $\phi 2.5 \pm 0.2$