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第一章 概述 Overview

目前显示屏控制系统行业都是采用基于电脑的控制软件来进行操控，每个工程项目现场都需要另带电脑调试，非常不方便。而智能手机已经成为所有人随身携带的电子产品，基于手机的显示屏控软件已经成为行业急切的需求。

At present, the display control system industry universally adopts computer-based control software for operation. Each engineering project site requires an additional computer for debugging, which is very inconvenient. However, smartphones have become electronic devices that everyone carries with them. Therefore, display control software based on mobile phones has become an urgent demand in the industry.

屏掌控（LedArt）APP 安装到手机或者平板电脑后，即可通过 Wi-Fi 控制背包 LCD 显示屏。

After installing the **Pingzhangkong (LedArt) APP** on a mobile phone or tablet, you can control the backpack LCD display via Wi-Fi.

第二章 APP 安装与卸载 APP Installation and Uninstallation

1. 屏掌控安装 Installation of Pingzhangkong (LedArt)

1) 用户可以通过扫描二维码进入官网下载。

Users can scan the QR code to access the official website and download (the app).

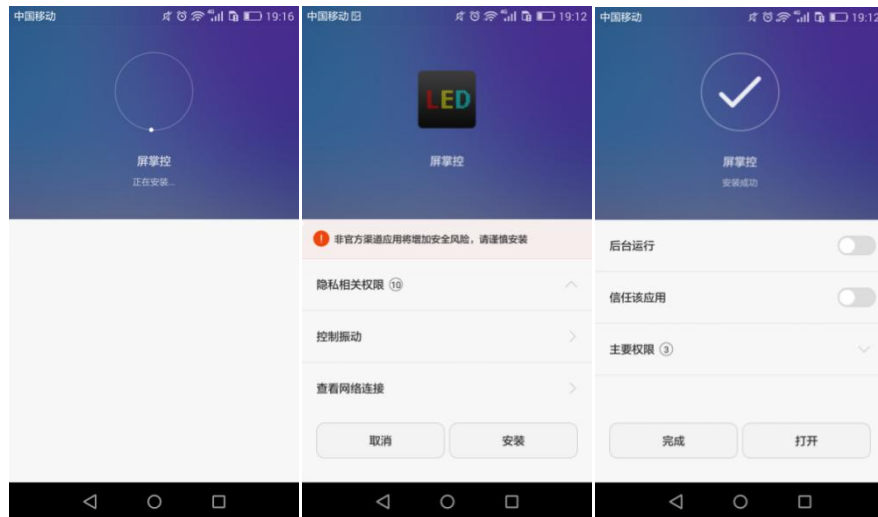


2) 用户也可以在各大应用商店搜索“屏掌控”下载，如华为、小米、OPPO、VIVO、腾讯应用宝等。

下载 APP 到手机后，默认安装即可。

Users can also search for "Pingzhangkong" in major app stores to download the app, such as Huawei AppGallery, Xiaomi GetApps, OPPO Software Store, VIVO App Store, Tencent MyApp, etc.

After downloading the app to your mobile phone, just install it with the default settings.



2. 屏掌控卸载 Uninstallation of Pingzhangkong (LedArt)

在手机界面长按“屏掌控”图标，直到出现“删除”图标，直接拖到“删除”即可。

On the phone interface, long-press the "Pingzhangkong (LedArt)" icon until the "Uninstall" icon appears, then drag the app icon directly to "Uninstall" to complete the process.

第三章 节目编辑与发送 Program Editing and Sending

1. Wi-Fi 连接 (寻机) Wi-Fi Connection (Device Discovery)

方法 1：手机以及背包连接同一无线局域网

Method 1: Connect the mobile phone and the backpack to the same wireless local area network (WLAN).

方法二：M10 开启 WiFi 热点

Method 2: Enable the WiFi hotspot on the M10



按遥控器上的菜单键，选择 **Wi-Fi 热点**，开启 **Wi-Fi 热点**。

Press the menu button on the remote control, select the Wi-Fi hotspot, and enable the Wi-Fi hotspot.

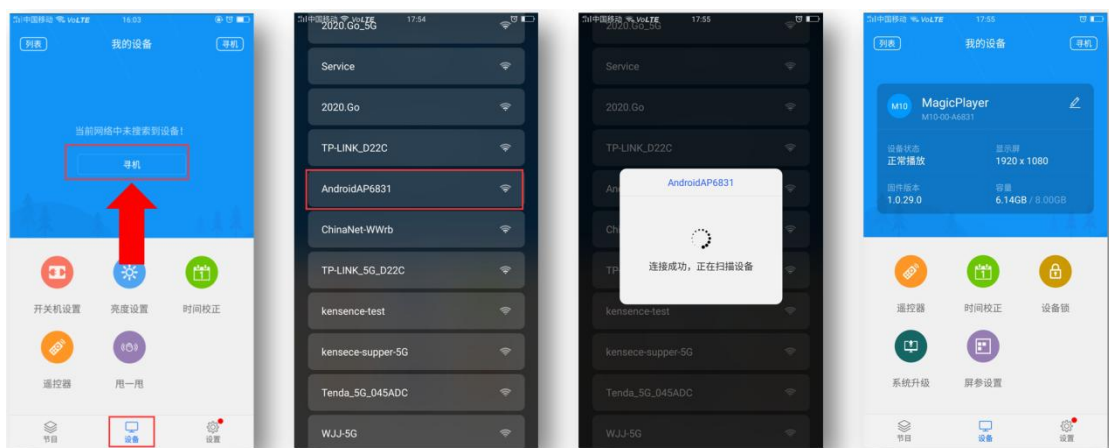
注：如果使用网线接局域网，请忽略这一步。

Note: If you are using an Ethernet cable to connect to the local area network , please skip this step.

2) Wi-Fi 连接 Wi-Fi Connection

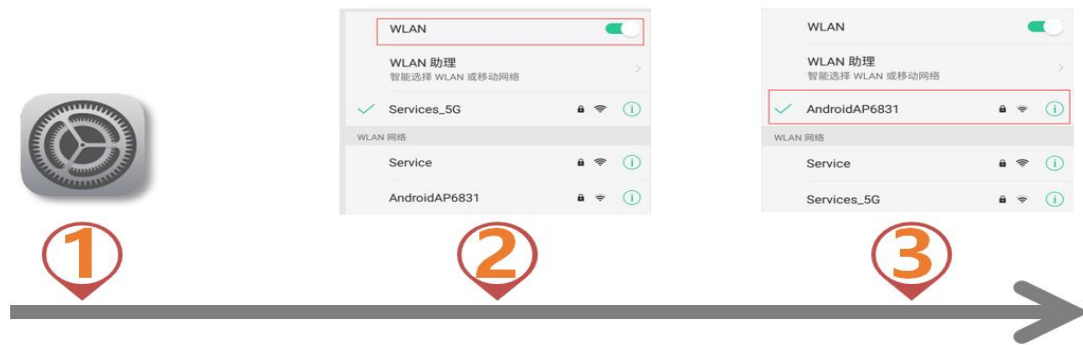
打开“屏掌控”，选择“设备”模块，点击“寻机”，然后连接对应的 **Wi-Fi 热点** 即可。如下图

Open "LED art" , select the "Device" module, click "Device Search", and then connect to the corresponding Wi-Fi hotspot. As shown in the figure below.



也可以在手机的“设置”的 **WLAN** 里连接 **Wi-Fi 热点**。

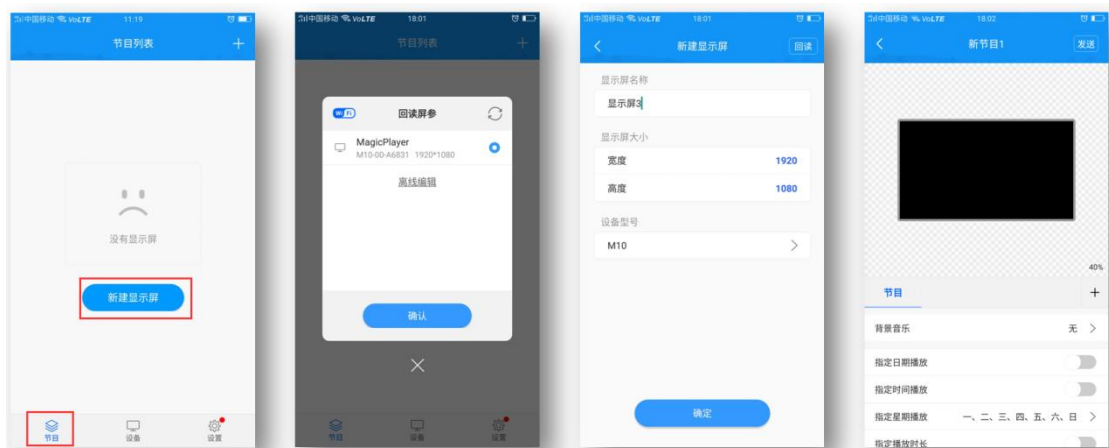
You can also connect to the Wi-Fi hotspot in the WLAN section of your phone's "Settings".



2.新建节目 Create a New Program

选择“节目”模块，点击“新建显示屏”，自动搜索在线的控制器，选中某一控制器，默认回读控制器的屏幕大小，点击“确定”即可。

Select the "Program" module, click "Create New Display", and it will automatically search for online controllers. Select a controller, which will automatically read back the screen size of the controller by default, and click "Confirm".



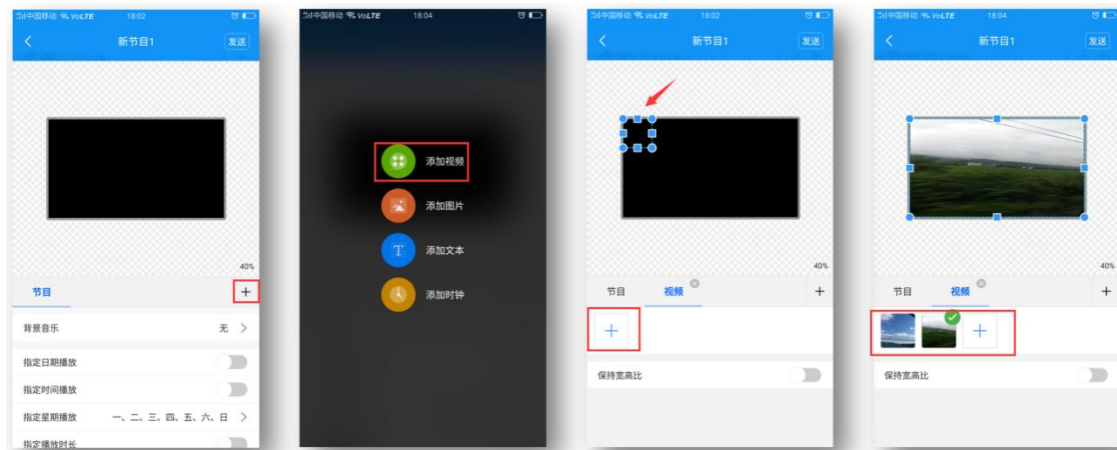
如无在线控制器，可以离线编辑，屏幕宽高自定义。

If there are no online controllers, you can edit offline and customize the screen width and height.

3.添加视频 Add Video

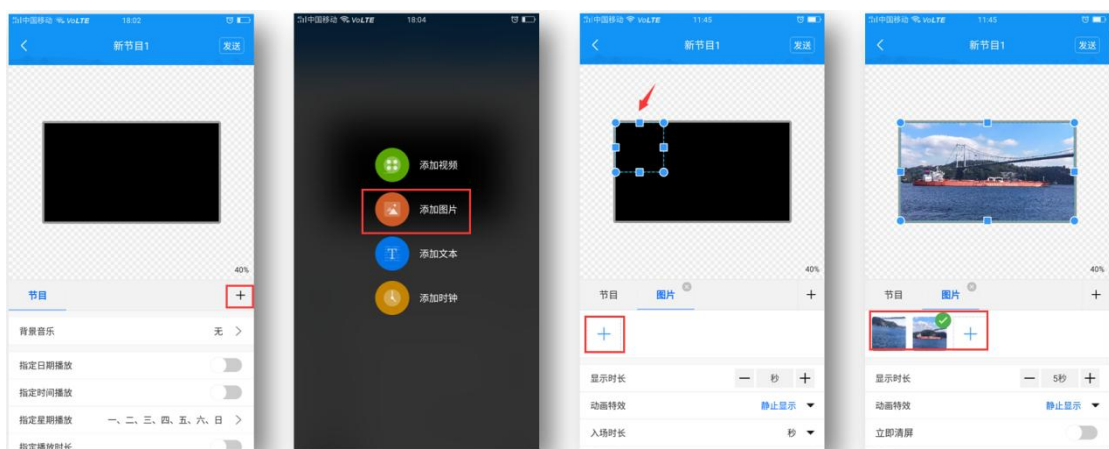
进入节目编辑界面后，点击右边“+”，可以添加视频区域，然后在模拟显示区拉大视频区域，接着点击下方的“+”即可添加多个视频，视频与视频之间是循环播放的。

After entering the program editing interface, click the "+" icon on the right to add a video area. Then, resize the video area by dragging it larger in the simulation display area. Next, click the "+" icon below to add multiple videos—these videos will play in a loop.



4.添加图片 Add Image

与视频类似，点击右边“+”，添加图片区域，然后在模拟显示区拉大图片区域，接着点击下方的“+”即可添加多个图片，图片与图片之间是循环播放的。
Similar to adding a video, click the "+" icon on the right to add an image area. Then, resize the image area by dragging it larger in the simulation display area. Next, click the "+" icon below to add multiple images—these images will play in a loop.



添加好图片之后，在图片列表的下方，可以修改图片显示时长、动画特效和显示特效等。

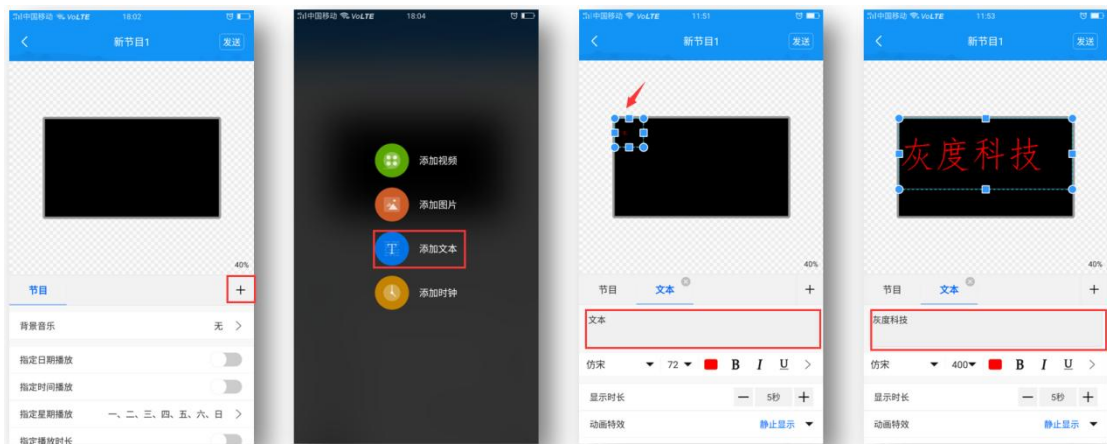
After adding the images, you can modify settings such as the image display duration, animation effects, and display effects at the bottom of the image list.

4.编辑文本 Edit Text

点击右边“+”，添加文本区域，然后在模拟显示区拉大文本区域，接着在下方的文本输入框输入需要播放的文字即可。

Click the "+" icon on the right to add a text area. Then, resize the text area by

dragging it larger in the simulation display area. Next, enter the text you want to play in the text input box below.



在文本输入框的下方，可修改字体类型/大小/颜色、文字显示时长、动画特效和背景颜色（向上滑动可看到）等。

Below the text input box, you can modify settings such as font type/size/color, text display duration, animation effects, and background color (scroll up to view this option).

5.时间显示 Time Display

点击右边“+”，添加时钟区域，然后在模拟显示区拉大时钟区域，时钟文字大小根据区域高度自动调节。

Click the "+" icon on the right to add a clock area. Then, resize the clock area by dragging it larger in the simulation display area—the size of the clock text will adjust automatically based on the height of the area.



在下方可选择显示秒、修改字体颜色和描边。

Below, you can choose to display seconds, modify the font color, and adjust the text stroke.

6. 图层叠加 Layer Overlay

先添加的在底层，后添加的叠加在上边显示。如下图，图片区域叠加在视频区域上播放，文本区域叠加在视频和图片区域上播放。

The content added first will be displayed at the bottom layer, while the content added later will be overlaid on top. As shown in the figure below, the image area is overlaid on the video area for playback, and the text area is overlaid on both the video area and the image area for playback.



特点：

- 1) 每一区域都可以拉大缩小并任意拖动；
- 2) 文本和时钟的背景默认是透明的，所以可先添加视频/图片作为文本/时钟的背景；
- 3) 仅支持同时添加 2 个视频区域，即支持 2 个视频同时在播放。

Features:

- 1) Each area can be resized (enlarged or reduced) and dragged freely;
- 2) The backgrounds of text and clock are transparent by default, so you can first add a video/image to serve as the background for text/clock;
- 3) Only 2 video areas can be added simultaneously, which means 2 videos can be played at the same time.

7. 节目播控设置 Program Playback Control Settings

在节目编辑界面的左边选择“节目”，即可在下边设置节目的背景音乐、播放日期、播放时间、播放星期和播放时长等。

On the left side of the program editing interface, select "Program", and you can then set the program's background music, playback date, playback time, playback days of the week, playback duration, and other settings below.



8. 节目发送 Program Sending

1) 单节目发送

编辑好节目后，点击右上角的“发送”，即可发送节目。

1) Single Program Sending

After editing the program, click "Send" in the upper right corner to send the program.

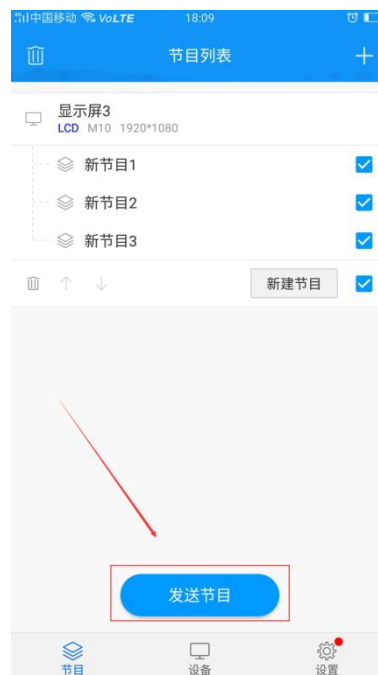


2) 多节目发送

退出节目界面，返回到节目列表，可以添加多个节目并发送多个节目。

2) Multiple Programs Sending

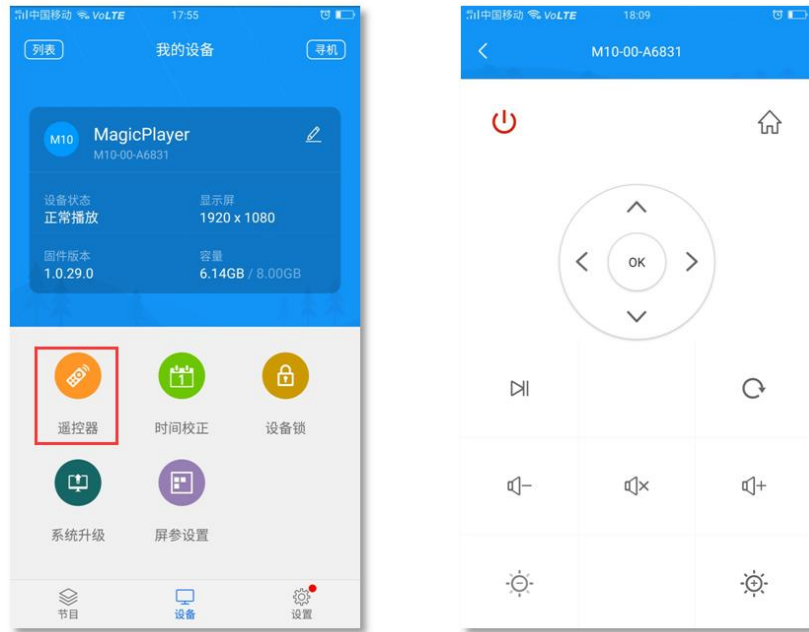
Exit the program interface, return to the program list, and you can add multiple programs and send them.



9. 遥控器 Remote Control

选择“设备”模块，点击“遥控”，可以使用遥控功能-开关机、上/下一个节目、暂停/播放、调节音量和调节亮度等。

Select the "Device" module, click "Remote Control", and you can use remote control functions such as power on/off, previous/next program, pause/play, volume adjustment, and brightness adjustment.



10.时间校正 Time Correction

选择“设备”模块，点击“时间校正”，可以校正时间。

Select the "Device" module, click "Time Correction", and you can correct the time.



校对时间有 3 种方式：

- 1) 自动同步，如果控制器连接到互联网，开启这一设置，时间可以自动同步

互联网时间。

- 2) 使用手机的日期和时间，同步手机上的时间；
- 3) 以上 2 设置项都不开启时，可手动修改时间。

There are 3 ways to correct the time:

Automatic Synchronization: If the controller is connected to the Internet, enabling this setting allows the time to be automatically synchronized with the Internet time.

Use the Phone's Date and Time: Synchronize the time with that on the phone;

When neither of the above 2 settings is enabled, the time can be modified manually.

11.设备锁 Program Editing and Sending

选择“设备”模块，点击“设备锁”，开启设备锁，每一次发送节目都需输入正确密码才能发送。

Select the "Device" module, click "Device Lock", enable Device Lock, and you will need to enter the correct password every time you send a program to complete the transmission.

补充说明：



14.其他设置 Other Settings

选择“设置”模块，可修改 APP 语言、固件管理、硬件设置和查看 Wi-Fi 密码记录等。

Select the "Settings" module to modify the APP language, manage firmware, configure hardware, and view Wi-Fi password records, among other functions.



其中固件管理和硬件参数管理是 LED 单双色 W 系列才有的功能；选型工具也是针对 LED 控制卡选型做的，具体这里不再介绍。

Among them, the Firmware Management and Hardware Parameter Management functions are only available for the LED Single/Dual-Color W Series; the Selection Tool is also designed specifically for the selection of LED controller cards, and specific details will not be introduced here.

FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.