

LED Assistant

User Manual

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1 Introduction

LED Assistant is a professional mobile app (Android & iOS) for managing and controlling the Cloud Player developed by Colorlight (such as model A35, A100/A200, and C3 Pro, **hereinafter referred to as Terminal**). Through the terminal, the app realizes asynchronous display control.

Why LED Assistant:

- Easy operation allows you to control LED display anywhere, anytime.
- Two control modes (LAN control & Cloud control) available, providing more flexibility.
- Effortless network settings, allowing for device connection through WiFi hot spot.
- Support synchronization settings, ensuring accurate and synchronous display of multiple images.
- Freely switching between synchronous and asynchronous playback, realizing simultaneous content display between host PC and LED screen.
- Easy program editing and publishing.
- Change the size of the output display at your will.
- Cluster management via internet, enabling remote display control for editing, publishing, and playing programs.

2 Installation


Step 1: Download installation package. You can either

- Visit Colorlight' s official website (<https://www.colorlightinside.com>) and navigate to **Products** > **ColorlightCloud** > **Software** > **LED Assistant** to download the app; or,
- Download the app in your phone' s app store (for Xiaomi, Huawei, and iPhone only).

Step 2: Tap the installation package and then proceed with the installation as guided. You should read and agree with the *User Agreement* and *Privacy Policy* before finishing the installation. (View *Privacy Policy* at: <https://support.colorlightinside.com>)

3 Device Control Modes

Two modes are available for device control through LED Assistant: **LAN Control** mode and **Cloud Control** mode.

You can select a proper mode to control the terminal according to the network environment. See Figure 3-1. To switch between the two modes, you can tap the icon  at the upper right corner, and then navigate to **More > Device Control Mode** to make the selection.

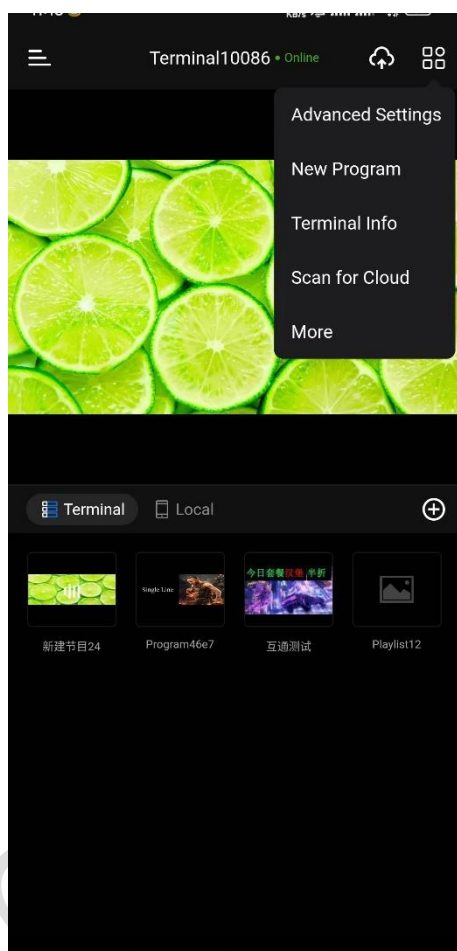


Figure 3-1 App settings

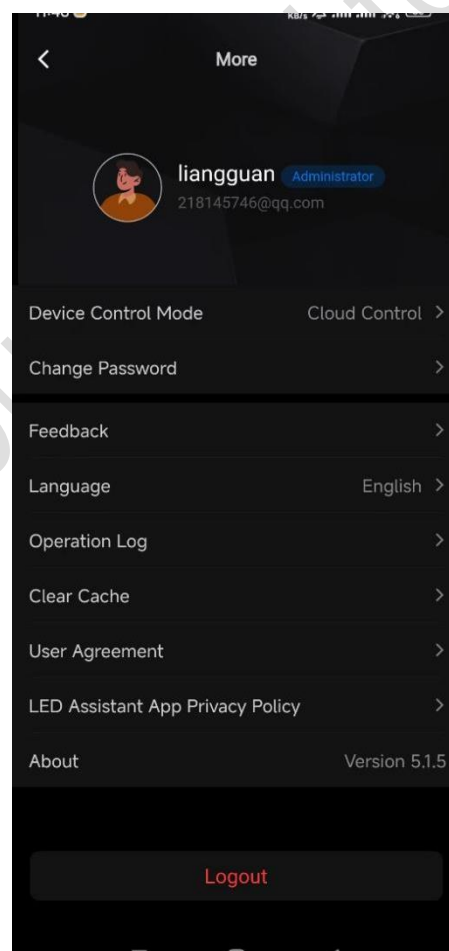


Figure 3-2 The **More** interface

- **LAN Control:** Applicable to terminals connected via LAN or WiFi hot spot. Refer to [LAN Control Mode](#) for details.
- **Cloud Control:** Applicable to terminals that has connected to the Cloud via internet or intranet. Refer to [Cloud Control Mode](#) for details.

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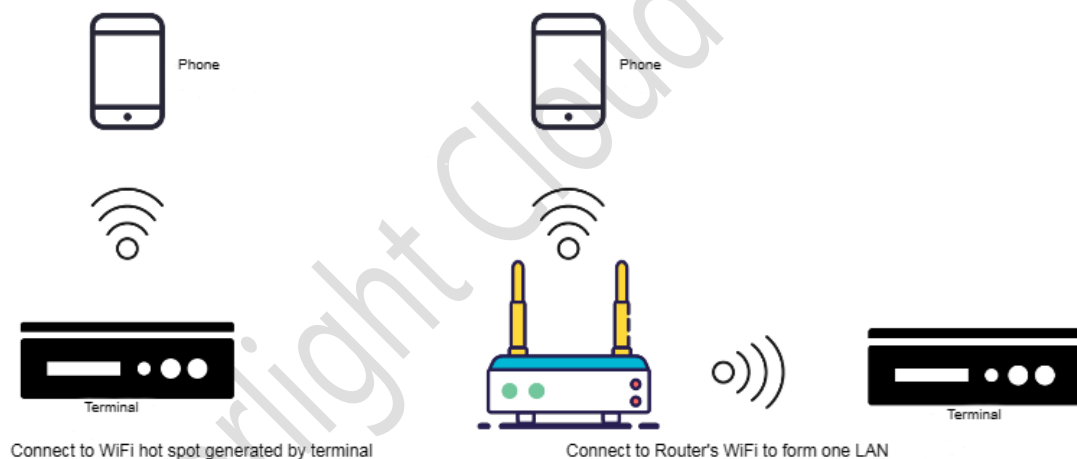
4 LAN Control Mode

You can switch to **LAN Control** mode in **Device Control Mode** to monitor and manage the terminal, edit and publish programs, or perform other functions.

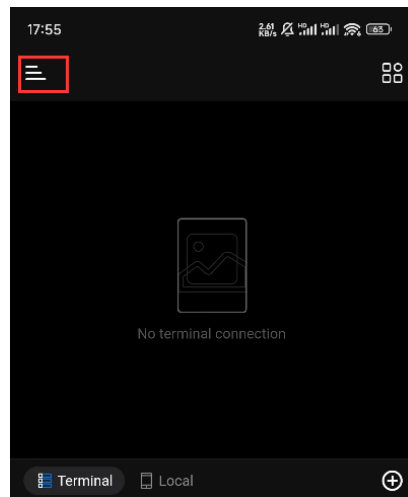
4.1 Terminal Connection

Before connecting to a terminal, you should first search for the terminal on your phone via LED Assistant. Before searching, you should either

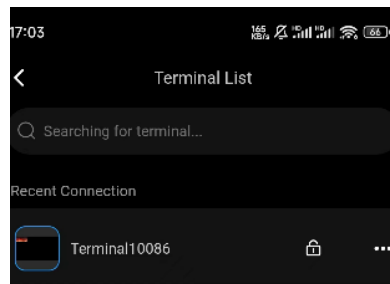
- Connect your phone to the same WiFi or LAN as the terminal; or,
- Connect your phone to the WiFi hot spot generated by the terminal.
(You can view the name and password of the hot spot on the enclosure of the terminal.)



- Step 1: Connect your phone to the WiFi generated by the terminal or to the same WiFi that the terminal is currently connecting to.
- Step 2: Launch LED Assistant, access to **Terminal List**, then pull down on the interface to search for the terminal.



- Step 3: Find the target terminal from the list and then tap it for connection.



You must enable **LAN Encryption** before connecting to the terminal. Make sure both the encryption password and WiFi password are strong enough, otherwise, you will have to strengthen the passwords as guided by the **Security Tips** pop-up interface.



- An online terminal is tappable on the list for connection. (See [How to Connect](#) for reference.)
- An offline terminal will be grayed out and cannot be tapped for connection.

How to Connect:

The following steps show the procedure of connecting your phone to a terminal via the WiFi hot spot generated by the terminal itself.

● Step 1: Connect to WiFi hot spot.

Power on the terminal and find its hot spot and password from the tag pasted on it. Then, connect your phone to this WiFi. Figure 4-1 shows the tag containing a QR code on the terminal.

*The WiFi hot spot generated by the terminal does not have internet access. To avoid terminal connection failure, please keep your phone connected to this WiFi despite receiving a reminder message on your phone.

● Step 2: Search for the terminal.

Pull down on the **Terminal List** interface to search for available terminals and find the target terminal from the search results.

*You can pull down on the interface for multiple times to refresh the search results if you fail to find the target terminal from the list.



Figure 4-1 QR code tag

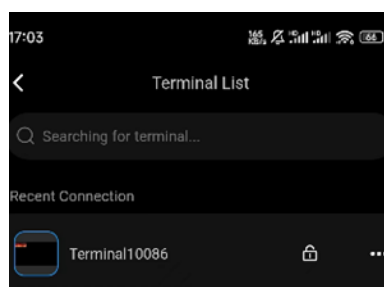


Figure 4-2 Searching results

● Step 3: Check the network security.

Network security check will be performed once you tap a terminal for connection. The potential security risks include:

- **LAN Encryption** is not enabled;

- Weak password for **LAN Encryption**;
- Weak WiFi password;
- **LAN Encryption** is not available due to low terminal version.

You must follow the guidance in the pop-up **Security Tips** (if any) before continuing the connection.

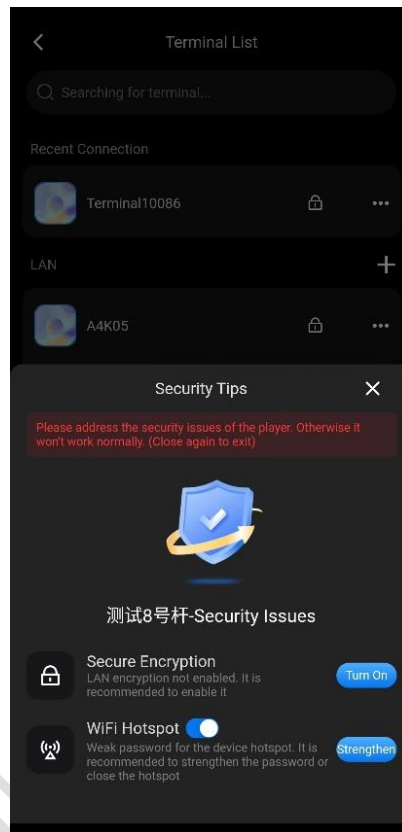


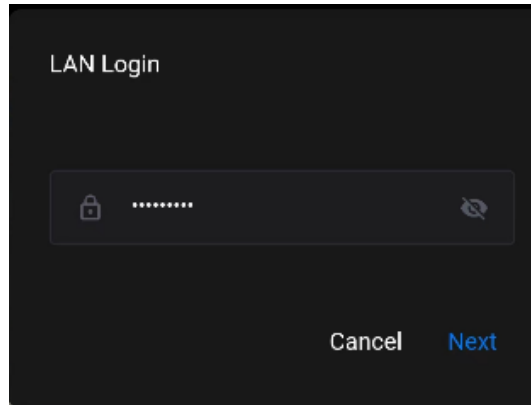
Figure 4-3 **Security Tips** interface

*The password must consist of uppercase and lowercase letters, numbers, and special characters, and it should be no less than 8 characters.

*You should re-connect your phone to the terminal's WiFi after changing the WiFi password.


*The default password for **LAN Encryption** is: Console@123 (default password for early version is: console). You should change the password when you connect to the terminal for the first time.

- Step 4: Enter password to connect to the terminal.



- Step 5: Access to the main interface for terminal control.

4.2 Terminal Management

- Step 1: Tap the icon  on the right side of the connected terminal. You can then find the option for Cloud connection (**Connect to Cloud**) and that for viewing terminal details (**Terminal Information**).

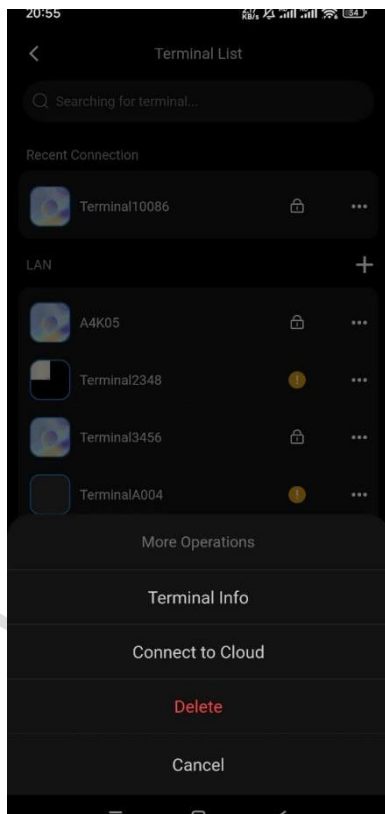


Figure 4-4 More terminal-related options



Figure 4-5 Terminal details

Table 4-1 Description of the options for terminal operation

Options	Description
Terminal Information	Tap to view terminal parameters, including resolution, brightness, storage, etc.
Connect to Cloud	Tap to connect the terminal to the Cloud.
Delete	Tap to disconnect the terminal and clear the interface.






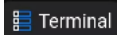
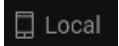

- Step 2: Access to the main interface for terminal control.



Figure 4-6 Main interface



- Step 3: Tap available icons to perform corresponding function. Table 4-2 shows the functions corresponded to the icons.

Table 4-2 Function description

Icons/Area	Description
	Tap to return to Terminal List .
	Tap to connect the terminal to the Cloud.
	Tap to access the tab containing options including Advanced Settings, New Program, Terminal Information, Scan for Cloud, and More .
	Tap to awake or sleep the terminal. You can touch the display area on top of the interface to show/hide this icon.
	Tap to adjust the volume and brightness of the display. You can touch the display area to show/hide these icons.
Display area	Show a screenshot of the currently played content. You can double-tap the area to zoom in the screenshot, or pull down on the interface to refresh the content.
	Tap to view the programs available in the terminal. You can tap any one of the programs below to display it, or touch and hold one program for more operations (Clear Program, Program Details, and Delete).
	Tap to view newly created program and the programs accessible through LAN. You can tap any one of the programs below to edit it, or touch and hold one program for more operations (Clear Program, Program Details, Rename, Publish Program, and Delete).
	Tap to create program.

4.3 Program Management

- Step 1: Start program creation.

Tap the icon  at the upper right corner of the app' s main interface and then select **New Program**, or, tap  at the upper right corner of the main interface for terminal control. In the pop-up dialogue, you can name the program, set its resolution, and select a window layout for it. When you finish selection, you can tap **Next** to continue.

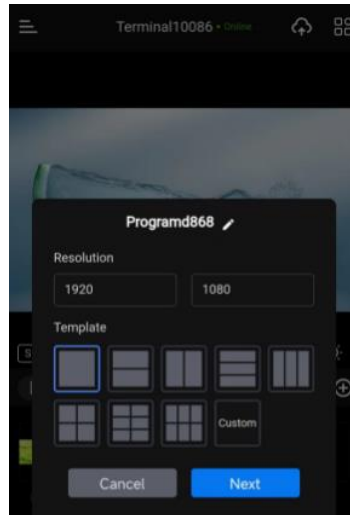


Figure 4-7 First step to create a program

- Step 2: Determine program layout.

In this interface, you can tap a window to adjust its layout in a program. You can resize or maximize the window, or change its position and layer order. Figure 4-8 shows one of the layout styles for windows.

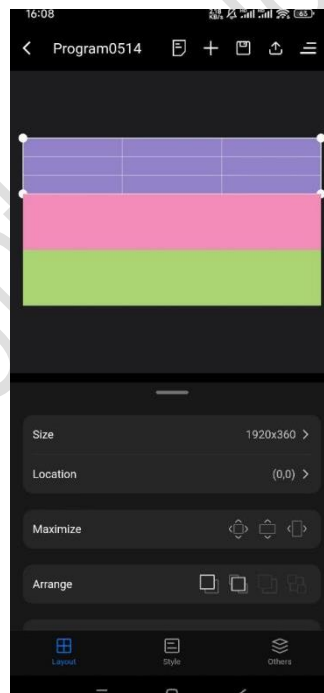



Figure 4-8 Window layout

*Support layout for multiple windows and multiple program pages.

- Step 3: Add playback materials.

Tap the icon  on top of the interface, and then select a window type based on the type of the target playback material. Table 4-3 shows the description of the supported material types.

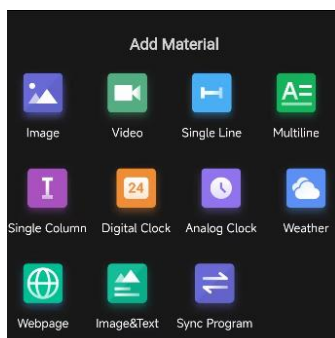


Figure 4-9 Add playback material

Table 4-3 Supported playback material type

Material Type	Description
Image	You can upload an image from your phone, or take a photo. ■Support selecting playback duration and entrance effect. ■Supported formats: BMP, JPG, PNG, GIF, WEBP, etc.
Video	You can upload a video from your phone, or shoot a video. ■Support individual audio settings (on/off) for different videos. ■Supported formats: HEVC (H.265), H.264, MPEG-4 Part 2 and Motion JPEG.
Single Line	Single-line text. Support selecting playback duration and entrance effect. Preview is available.
Multiline	Multiline text. Support selecting playback duration and entrance effect. Preview is available.
Single Column	Single-column text. Support selecting playback duration and entrance effect. Preview is available.
Digital Clock	Support setting display style, text content, and playback duration.
Analog Clock	Support setting display style, text content, and playback duration.
Weather	Support setting display style, playback effect, and playback duration.

Continued Table 4-3 Supported playback material type

Material Type	Description
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Webpage	Support setting playback duration (intervals for refreshing).
Image&Text	You can add image and text to one window. Support setting scrolling speed.
Sync Program	You can add image and video to make a sync program.

*Support playing multiple materials at the same time or one by one.

● Step 4: Edit programs.

You can tap the uploaded material to access to the editing interface. Preview is available on top of the interface. See Figure 4-10 and 4-11.

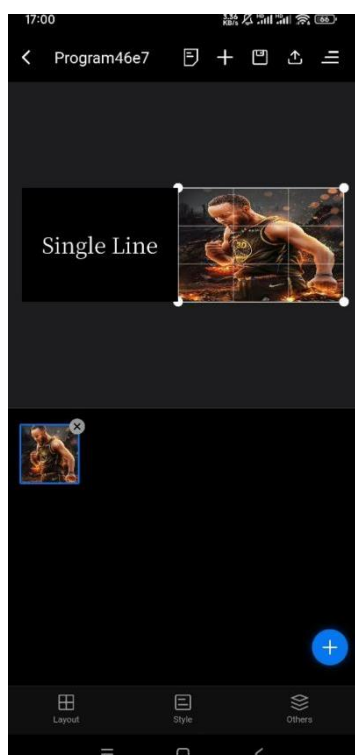


Figure 4-10 Editing interface

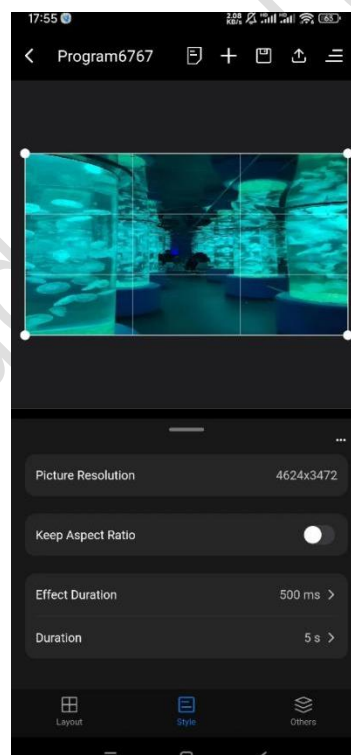











Figure 4-11 Edit an image

Table 4-4 Program editing interface


Icons	Description
	Tap to access to the interface where you can view or modify program information, including the name, resolution, and background color. You can also add or delete the program page in the interface.

Continued Table 4-4 Program editing interface

Icons	Description
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	Tap to add a window.
	Tap to save the program.
	Tap to publish the program.
	Tap to view available program page. Switching between program pages is supported.
	Tap to add playback material. For a window already with materials, you can add new materials of the same type; For an empty window, you can add materials of any supported type.
	Tap to change the size, position, and layer order of a window.
	Tap for playback settings. (Different setting items for different material. Playback duration and content are two most common setting items.)
	Tap for additional playback settings. (Different settings items for different material. Playback effect and the font, size, and color of text are the most common setting items.)

● Step 5: Publish programs.

To publish an edited and saved program, you can tap the icon , or press and hold the target program on the **Local** program list in the terminal main interface. You can publish the program to one or multiple LAN terminals. See Figure 4-12.

*The terminal must share the same LAN with your phone, and it must have been previously logged in, otherwise, you will have to enter the password of **LAN encryption** before publishing.

*The reminder message "Insufficient terminal space." will pop up if the terminal does not have enough space for storing the program.

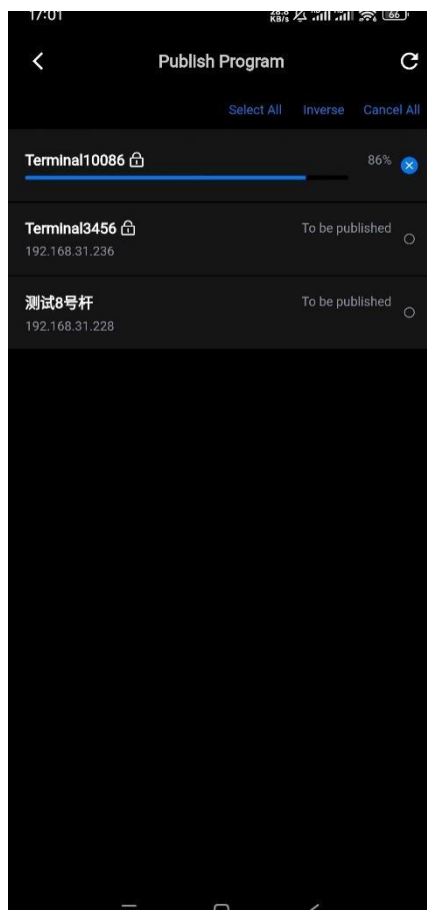


Figure 4-12 Publish program

4.4 Advanced Settings

Table 4-5 Advanced settings (**LAN Control** mode)

Options	Description
HDMI/DVI Switch	Switch between the terminal' s signal and HDMI input signal.
Secure Encryption	<ul style="list-style-type: none"> ■USB Encryption: The U-Disk will be unrecognizable for the terminal' s USB port once this function is enabled. ■LAN Encryption: This option is enabled by default and should remain so for normal function of the terminals. ■Modify Password: Change password of LAN Encryption. ■Forget Password: Change the LAN Encryption password after answering the secure questions or receiving password reset link. ■Security Verification: Includes secure questions and secure email. You can set one or more secure questions in advance. When you forget the password, you can reset it after

	<p>answering the questions correctly. Or, you can also leave an email address in advance for receiving the verification code for resetting the password.</p> <p>■Password Cache: The duration for which the terminal remembers the password.</p> <p>■Clear Password Cache: You will have to re-log in if you clear the password cache.</p>
Screen Dimension	Modify the resolution, frame rate, and rotation of the terminal' s output.
Network Settings	Modify the terminal network or test the network connection.
Date & Time	Set the system time of the terminal and synchronize the program time with the server time.
Sync Program Settings	Configure parameters for program synchronization.
Log	Export terminal log (including system log, 4G log, and kernel log).
Auto Brightness	Configure the external devices (sensor, M2, etc.) for auto brightness adjustment.
Relay Switch	Manually switch on/off M2 or the onboard relay.
Language	Change terminal' s system language. The terminal will reboot if you change its system language.
Clear Cache	Clear the cache of the terminal.
Factory Reset	Restore the terminal to its factory settings. The terminal will reboot if you perform this option.
Reboot	Reboot the terminal.

4.5 More

Table 4-6 Other options (**LAN Control** mode)

Options	Description
Device Control Mode	Switch between LAN Control mode and Cloud Control mode. You need to log in on your Cloud account for Cloud Control mode.

Continued Table 4-6 Other options (**LAN Control** mode)

Options	Description
Feedback	Send a feedback email.
Language	Switch to a desired language for LED Assistant. Available

	languages include: Simplified Chinese, Traditional Chinese, English, and Japanese.
Operation Log	Export or clear the operation log of LED Assistant.
Clear Cache	Clear temporary files of the app, which will not affect the normal application of the program.
User Agreement	----
Privacy Policy	----
About	View the current version of the app.

5 Cloud Control Mode

To switch to **Cloud Control** mode, the terminal must have internet access or intranet access to the Cloud. You should enter your username, password, and the URL of the Cloud to log in. See Figure 5-1. In **Cloud Control** mode, you can control the terminal and perform operations such as editing and publishing program in a remote way.

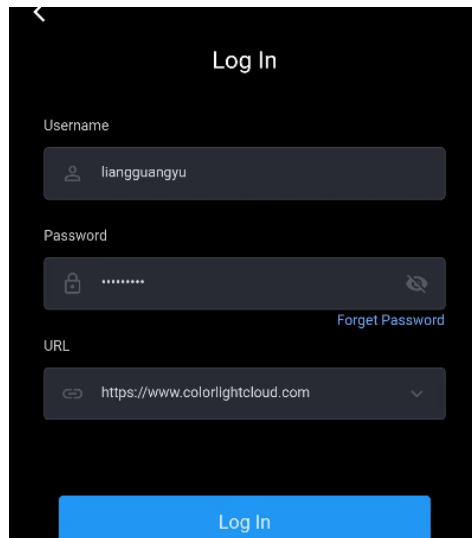




Figure 5-1 Log in on Cloud

5.1 Connect Terminal to Cloud

- Method 1: In **LAN Control** mode:
 - Step 1: Tap the icon  on the right side of the target terminal on the **Terminal List**.
 - Step 2: Tap **More Operations** > **Connect to Cloud**; or, tap the icon  on the main interface for terminal management.

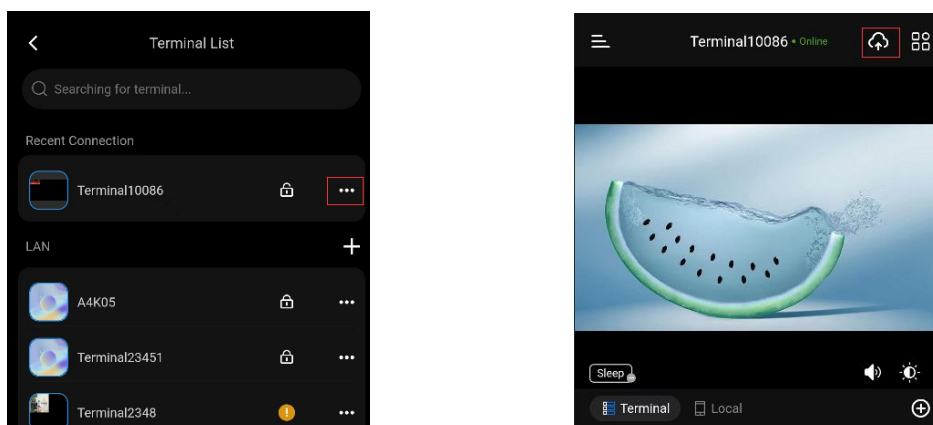


Figure 5-2 Connect to Cloud in **LAN Control** mode



- Step 3: Switch to **Cloud Control** mode.
- Step 4: Tap the icon  on the right side of the terminal, and then select **Terminal Information**.
- Step 5: You can tap **Terminal Group** to switch between groups if necessary. See Figure 5-3.



Figure 5-3 Switch to other terminal group

*The default terminal group for terminals connected in **LAN Control** mode is the root group. You can follow step 3-5 to migrate the terminal to another group for management if necessary.

● Method 2: In **Cloud Control** mode:

- Step 1: Tap **Add Cloud Terminal**  **Add Cloud Terminal** in the **Terminal List** interface.
- Step 2: Search for terminals that share the same LAN as your phone. See Figure 5-4.
- Step 3: Select a terminal group and the target terminal for Cloud

connection.

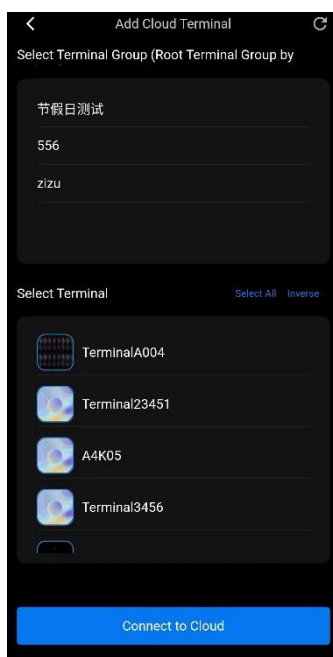



Figure 5-4 Connect terminal to Cloud

*For terminals that have not logged in on the LAN, you should enter the encryption password before Cloud connection.

5.2 Terminal Control

To control a terminal that has already been connected to the Cloud, you should make sure that your phone has internet access or intranet access to the Cloud, and then switch LED Assistant to **Cloud Control** mode. The following steps show the procedure for controlling a terminal to publish a program.

- Step 1: Select a terminal for control.

Figure 5-8 shows the **Terminal List** interface in **Cloud Control** mode. You can view all terminals that have been connected to the Cloud. Only an online terminal can be selected for terminal control. Tap an online terminal to start control, or tap the icon  for more operations, including viewing terminal information, deleting the terminal, etc.

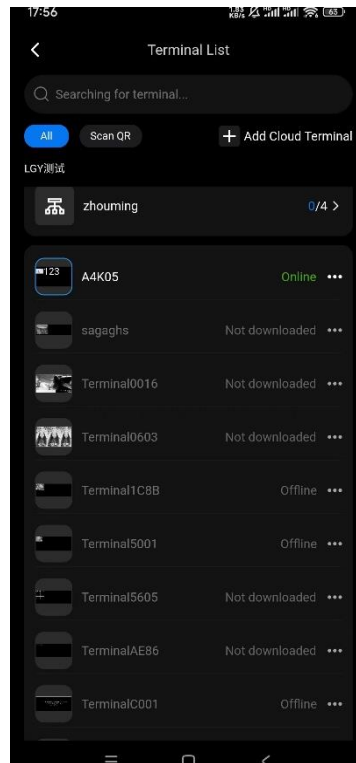


Figure 5-5 Terminal list in **Cloud Control** mode

- Step 2: In the main interface for terminal control in **Cloud Control** mode, the operation is generally the same as that in **LAN Control** mode.

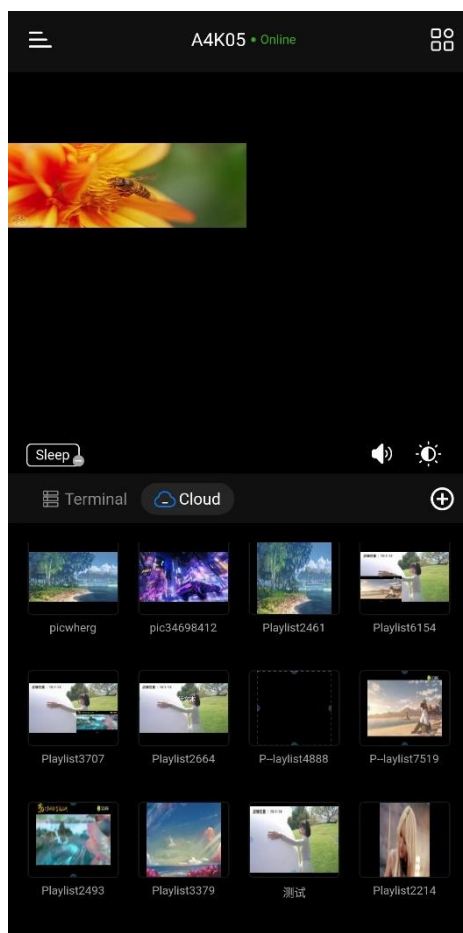






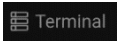


Figure 5-6 Main interface in **Cloud Control** mode

- Step 3: Tap functional icons in this interface for corresponding function. See Table 5-1 for descriptions of the available functions.

Table 5-1 Available functions in the main interface in **Cloud Control** mode

Icons/Area	Description
	Tap to return to the Cloud terminal list.
	Tap for options including Advanced Settings , New Program , Terminal Information , Media Library , Scan for Cloud , and More .
	Tap to awake or sleep the terminal. You can touch the display area on top of the interface to show/hide this icon.
	Tap to adjust the volume and brightness of the display. You can touch the display area to show/hide these icons.
Display area	Show a screenshot of the currently played content. You can double-tap the area to zoom in the screenshot, or pull down on the interface to refresh the content.


Continued Table 5-1 Available functions in the main interface in **Cloud Control** mode

Icons/Area	Description
	Tap to view the programs available in the terminal. You can tap any one of the programs below to display it, or touch and hold one program for more operations (Clear Program , Program Details , and Delete).
	Tap to view newly created program and the programs accessible in Cloud. You can tap any one of the programs below to edit it, or touch and hold one program for more operations (Program Details , Publish Program , Delete , and Cancel).
	Tap to create program.

- Step 4: Create and edit a program.

To create and edit a program, you should navigate through **New Program** > **Window Layout** > **Add Material** (from the **Media Library** in Cloud) > interface for program editing. (You can refer to [Section 4.3](#) for detailed steps.)



- Step 5: Publish the program.

Tap the icon  to jump to the **Terminal List** interface in **Cloud Control** mode. You can select one or more terminals, or select one terminal group to publish the program.

5.3 Media Library

The **Media Library** is where the image/video materials of a Cloud account saved in Cloud. You can view, upload, edit, or delete the materials in it.

These steps show how to upload images or videos to the **Media Library**:

- Step 1: Log in on your Cloud account and then tap the icon  at the upper right corner of the main interface for terminal control.
- Step 2: Tap **Media Library**.
- Step 3: Tap the icon  to upload desired materials (image/video).

For a piece of playback material, you can:

- Tap to view its detailed information;
- Press and hold it to bring up options for editing program, moving it to other folder, and viewing its detailed information.
- If the material has been applied, it cannot be deleted.

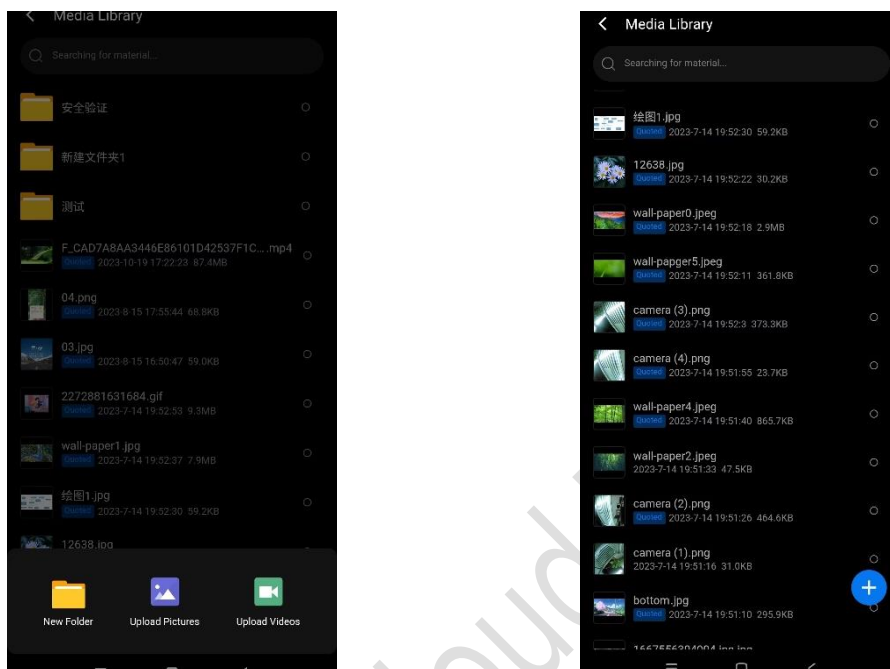


Figure 5-7 The **Media Library** interface

5.4 Advanced Settings

Table 5-2 Advanced settings (**Cloud Control** mode)

Options	Description
HDMI/DVI Switch	Switch between the terminal' s signal and HDMI input signal.
Screen Dimension	Modify the resolution and rotation of the terminal' s output.
Time Zone	Change the time zone.
Auto Brightness	Configure the external devices (sensor, M2, etc.) for auto brightness adjustment.
Relay Switch	Manually switch on/off M2 or the onboard relay.
Device Language	Change terminal' s system language. The terminal will reboot if you change its system language.

5.5 More

Table 4-6 Other options (**Cloud Control** mode)

Options	Description
Device Control Mode	Switch between LAN Control mode and Cloud Control mode. You need to log in on your Cloud account for Cloud Control mode.
Modify Password	Modify the password of your Cloud account.
Feedback	Send a feedback email.
Language	Switch to a desired language for LED Assistant. Available languages include: Simplified Chinese, Traditional Chinese, English, and Japanese.
Operation Log	Export or clear the operation log of LED Assistant.
Clear Cache	Clear temporary files of the app, which will not affect the normal application of the program.
User Agreement	----
Privacy Policy	----
About	View the current version of the app.

6 FAQs

1. How can I connect my phone to the same WiFi being used by the terminal?

You can take the following steps to make sure your phone and the terminal are using the same WiFi:

- Step 1: In your phone' s WiFi settings interface, find and connect to the WiFi hot spot generated by the terminal.
- Step 2: Configure the WiFi network in **Advanced Settings** interface in **LAN Control** mode.
- Step 3: Connect your phone to the configured WiFi after the configuration.

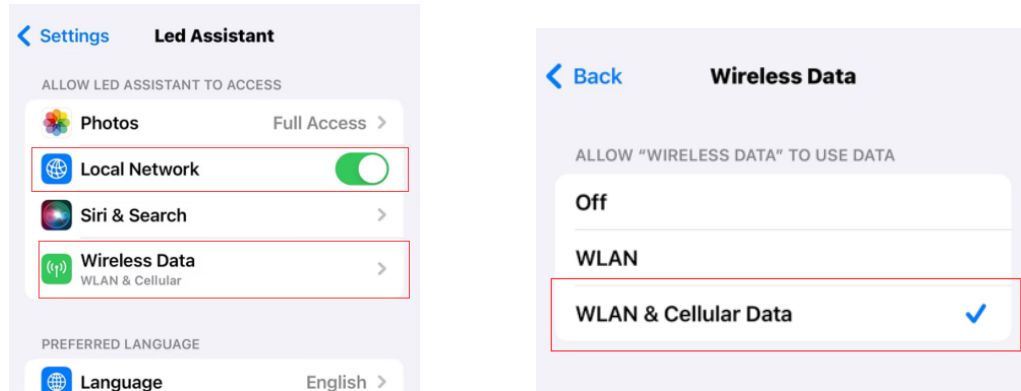
2. What should I do if I forget the password of **LAN Encryption**?

- Enable **Security Verification** in advance: Follow the guidance or enable **Security Questions** or **Secure Email** (**Advanced Settings** in **LAN Control** mode) when you enable **LAN Encryption** for the first time.
- Contact your technical support to initialize the terminal.

3. What should I do if my iPhone cannot find the WiFi generated by the terminal?

Navigate to **Settings** > **Led Assistant** in your iPhone to check whether you have enabled the **Local Network**. Then, tap **Wireless Data** to see whether **WLAN & Cellular Data** has been selected.

- If these two options are not enabled, enable them first, and then pull down on the **Terminal List** interface in the app to refresh the list.
- If the options are enabled, turn off your phone' s **Wireless Data** and then launch LED Assistant. Follow the pop-up guidance to turn on the wireless data again, and then pull down on the **Terminal List** interface.



4. I have successfully published a video but the LED screen displays black.

This might occur if the terminal does not support the encoding format of the video. To solve this problem, you can:

- Convert the video' s format with the help of a processional software.
- Use the software PlayerMaster to convert the video' s format and publish the converted video.
- Contact your technical support for help.

5. I was prompted "Connection failed." when I try to connect the terminal to the Cloud.

Below are possible reasons for Cloud connection failure and corresponding solutions:

- No network connection: Check your network connection. Make sure the network between the terminal and the Cloud is configured correctly, and then reconnect the terminal to the Cloud.
- Terminal name already exists: Change a terminal name and try again.
- Mismatched time: Synchronize the terminal time with the local time or enable **Sync with Network Time** in LED Assistant.
- Unknown reasons: Contact your technical support for help.

6. I was prompted "Only administrator account can log in." when I try to log in on Cloud.

The **Cloud Control** mode is only available to an Administrator account.

Statement

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