Colorlight

INSTRUCTIONS

PlayerMaster

USER MANUAL

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1 Introduction

1.1 Overview

PlayerMaster is a display network management software application developed by Colorlight for screen management users, which is easy to learn and use. Its features are as follows:

- **Powerful features: Simple to use**
- **Cluster management: Easy to operate**
- **Global cloud service: Stable and safe**

1.2 Software Operating Environment

PlayerMaster supports the following Windows operating system: Windows 7, Windows 8 and Windows 10. Recommended system configuration:

- **CPU: 2.0 GHZ or more**
- **Memory: 1GB or more**

2 Installation and Uninstallation

2.1 Installation

Double-click the PlayerMaster installer. Read the software agreements and select the “I’ m agree with: Software agreements” check box.

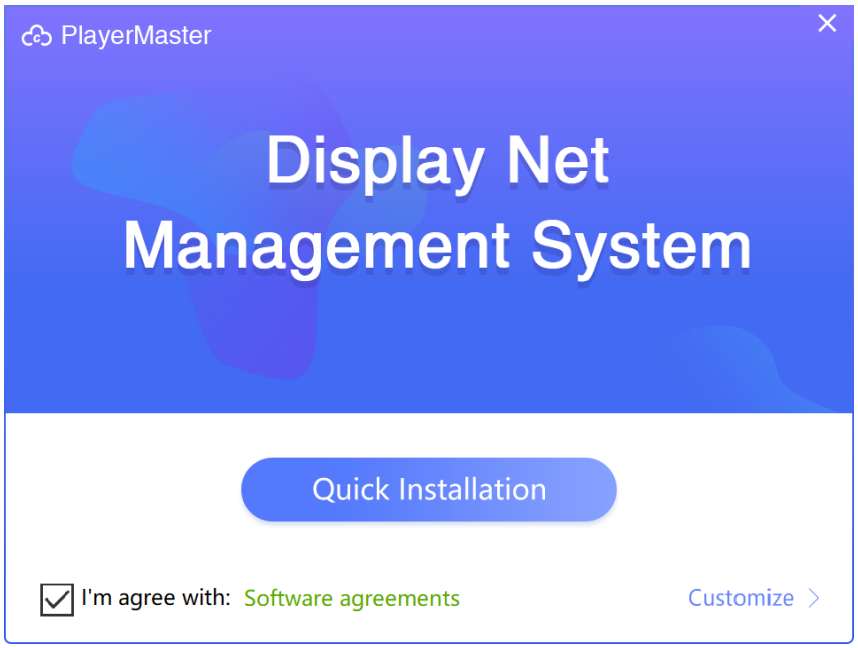


Figure 2.1-1 Installation

Click **Customize**, select the **Dependent Files** and **USB Driver for PlayBox** check box, and then click **Install**.

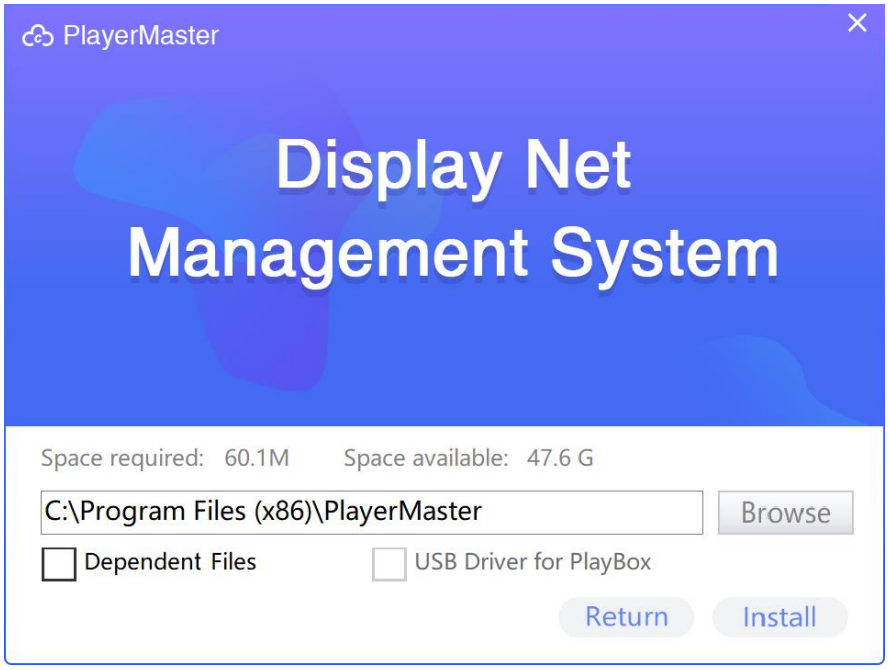


Figure 2.1-2 Customized installation settings

When the installation is completed, click **Start** to run the software.

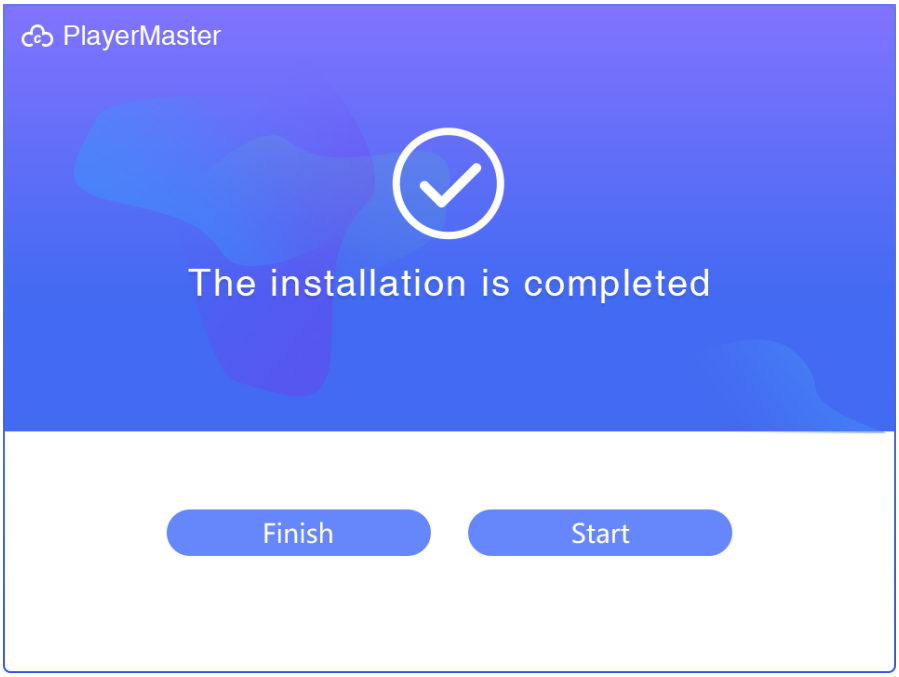


Figure 2.1-3 Installation completed

2.2 Uninstallation

Open the software installation directory, and double-click the uninst.exe icon. In the pop-up dialog box, you can select the **Save User Data** check box to save the user data stored in local files, and then click **Uninstall** to uninstall the software.

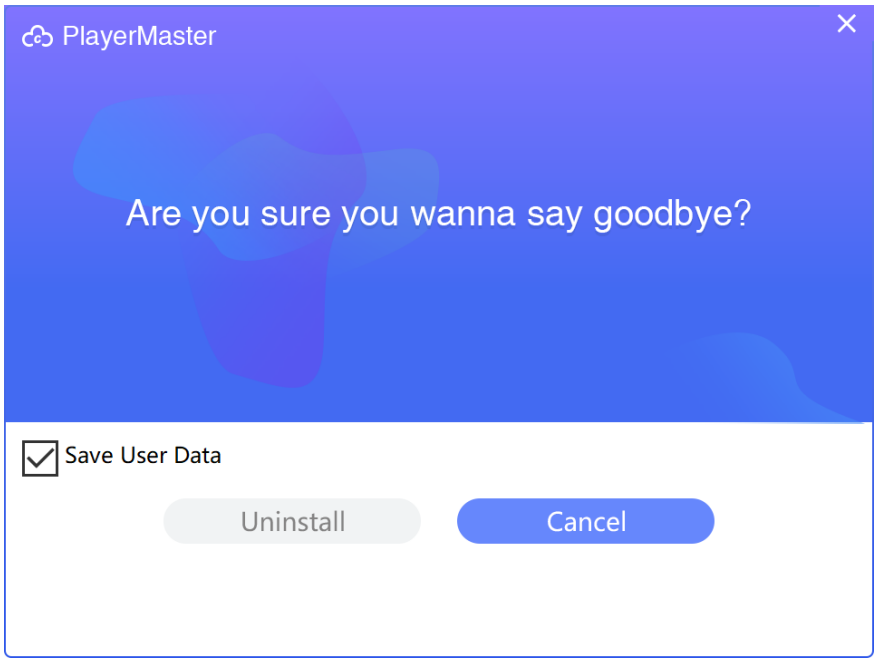


Figure 2.2-1 Uninstallation

3 Quick Start Guide（Cloud/LAN）

The following is a brief introduction of the software interface. This guide takes a terminal connected to the computer via a USB cable as an example.

3.1 Mode Selection

After installation, open the software. In the pop-up dialog box, click **LAN Mode** or **Cloud Mode**.

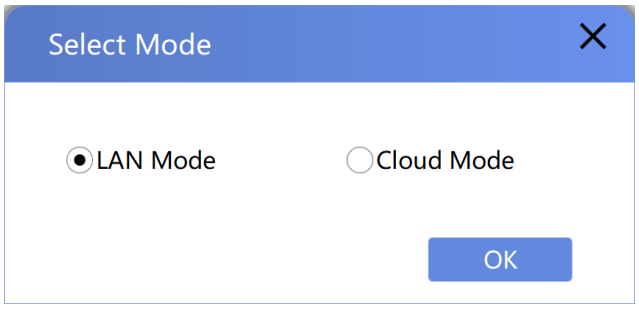


Figure 3.1-1 Application mode selection

- **LAN Mode：** Used for managing the terminals in the same local area network.
- **Cloud Mode：** Used for managing the terminals on the ColorlightCloud platform.

3.2 Software Interface

- If **LAN Mode** is selected, you can directly enter the main interface; If **Cloud Mode** is selected, you can enter the main interface after logging into your account of ColorlightCloud.
- You can apply to Colorlight staff for an account of ColorlightCloud. Please remember to provide your user name, password, email and company name for registration.

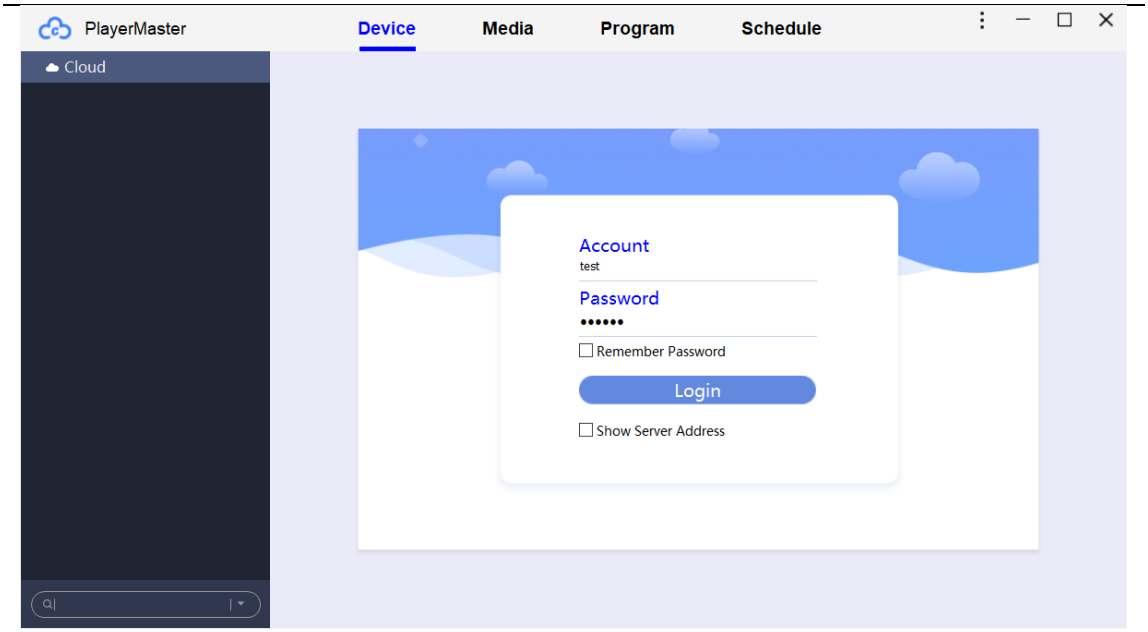


Figure 3.2-1 Login interface of Cloud mode

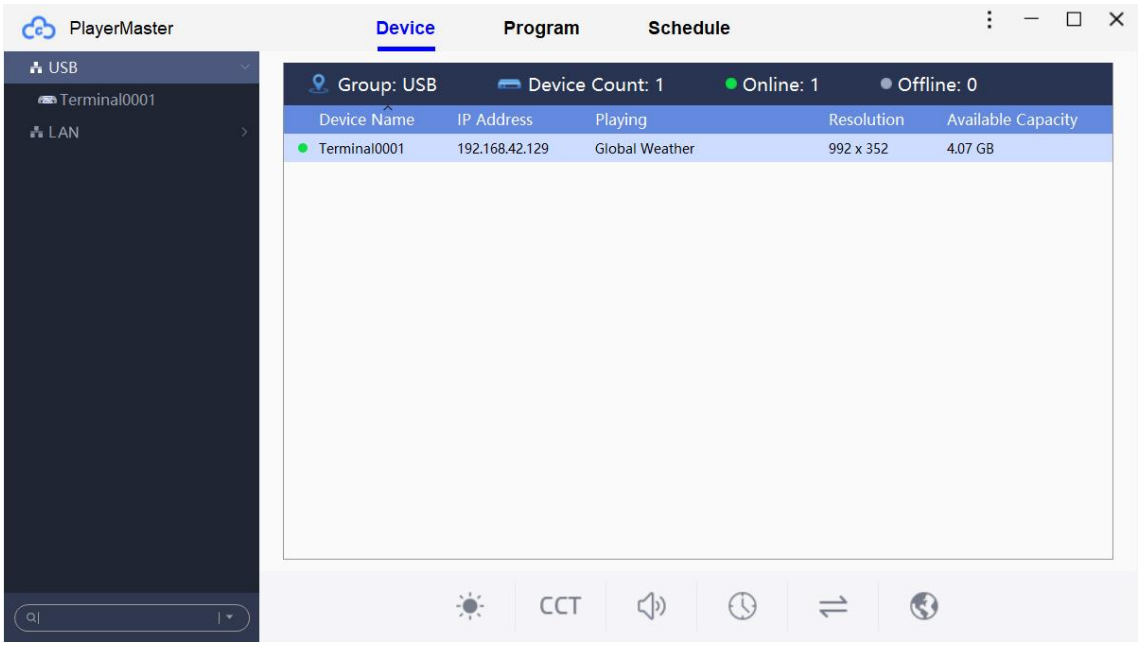


Figure 3.2-2 Main interface

The software has three main pages: **Device**, **Program** and **Schedule**.

- **Device:** used for viewing terminal information as well as manage and control terminals.
- **Media:** used for viewing cloud media files or uploading media files to the cloud in Cloud mode.

- **Program**：used for managing programs, such as adding, editing, publishing, exporting and deleting programs.
- **Schedule**：used for managing schedules, such as adding, editing, publishing, exporting and deleting schedules.

3.3 Device

You can view terminal information, as well as manage and control terminals on this page.

3.3.1 Terminal Tree

In LAN mode, you can see the terminals in the same local area network as your computer in the terminal tree.

In Cloud mode, you can see all terminal groups and terminals under your cloud account after login.

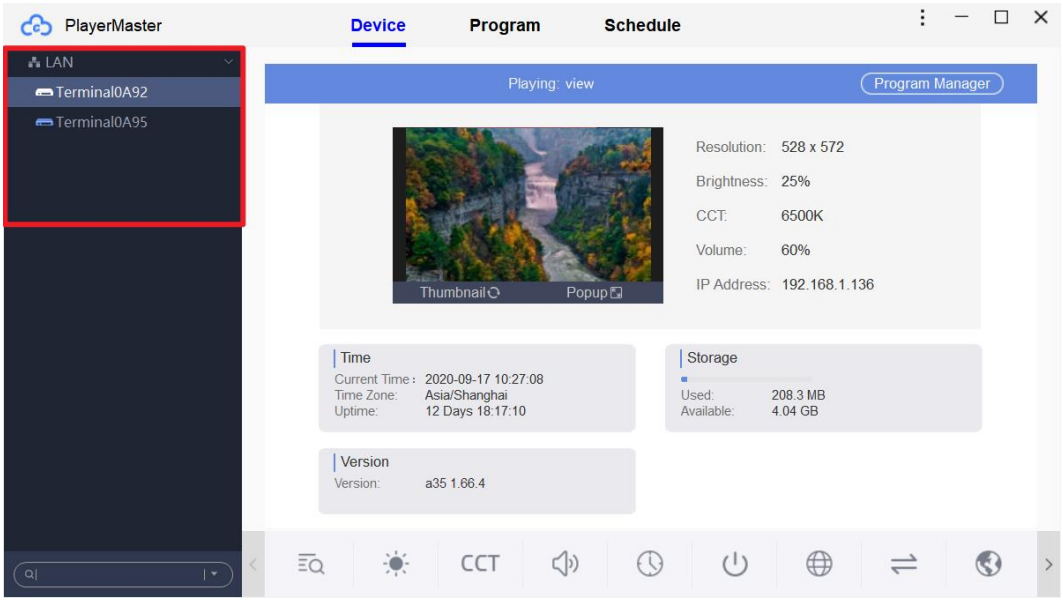


Figure 3.3-1 Terminal tree

3.3.2 Terminal List

Select a group in the terminal tree, and on the right of the page you can view the number of online and offline devices in the group, and a terminal list, in which you can view **Device Name**, **IP Address**, **Playing**, **Resolution** and **Available Capacity** of the terminal.

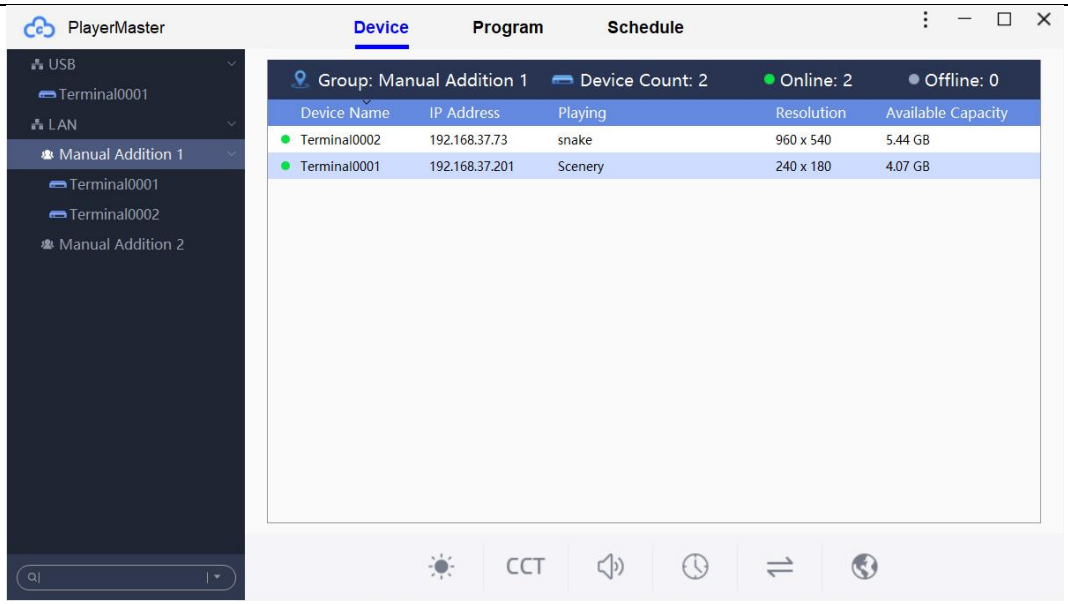


Figure 3.3-2 Terminal list

3.3.3 Terminal Group Control

Select a group in the terminal tree, and you can perform the following operations on all terminals of the group on the toolbar at the bottom of the page: brightness settings, color temperature settings, volume settings, time settings, signal switching, and device language settings.

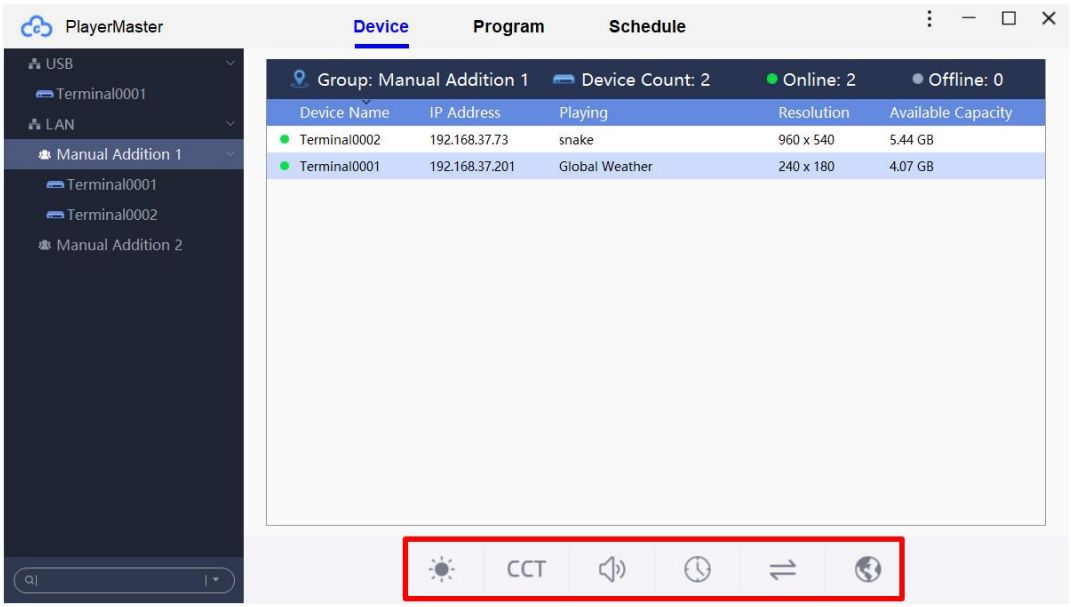


Figure 3.3-3 Terminal group control

3.3.4 Terminal Information

Select a terminal in the terminal tree, and you can view and switch the

program which is being played on the terminal, and delete the programs of the terminal. You can also view screen information and terminal information such as **IP Address**, **Time**, **Storage** and **Version**.

Right-click the target terminal, and the operation menu is displayed. From the menu, you can publish programs and schedules to the terminal, delete programs and schedules, view publish details, and rename the terminal.

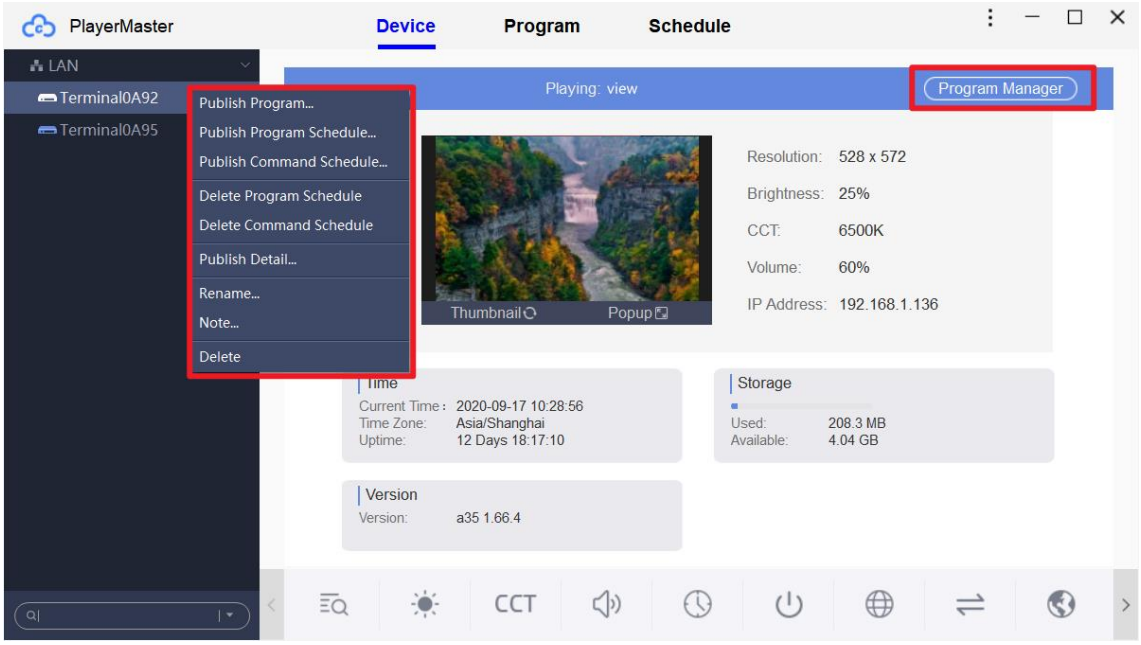


Figure 3.3-4 Terminal information

3.3.5 Terminal Control

Select a terminal in the terminal tree, and you can perform the following operations on the terminal on the toolbar at the bottom of the page: viewing schedules, brightness settings, color temperature settings, volume settings, time settings, power settings, network settings, signal switching, device language settings, and advanced settings.

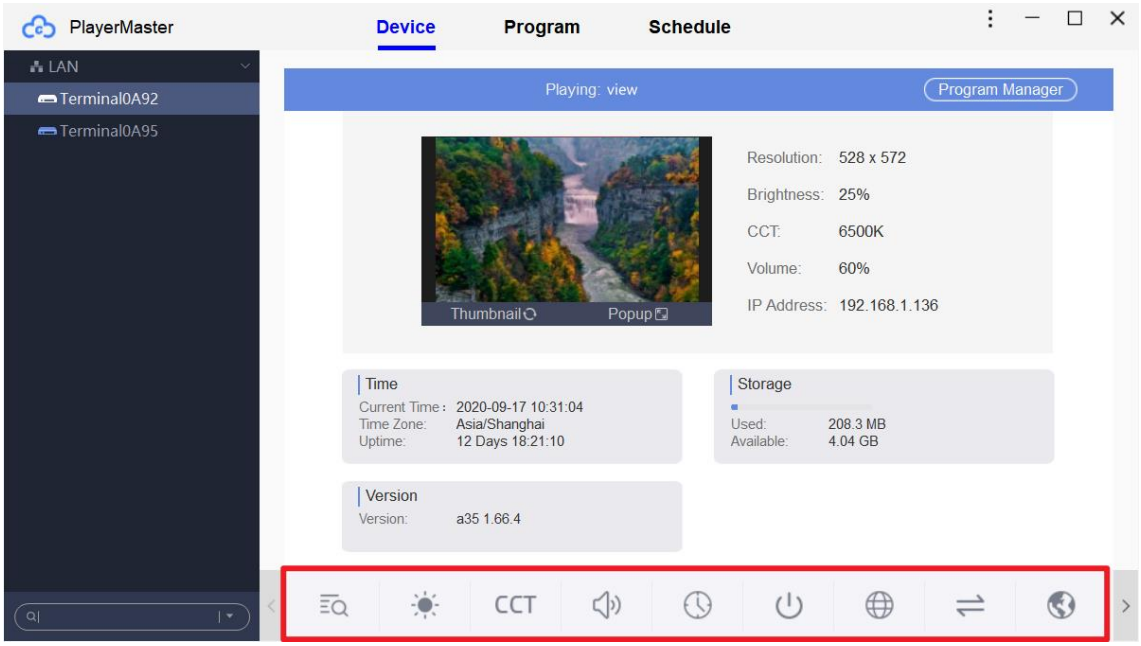


Figure 3.3-5 Terminal control

3.4 Program

On the **Program** page, you can add, edit, publish, export and delete programs.

3.4.1 Program List

In the program list, you can view the information of all programs edited on your computer: **Name**, **Source**, **Resolution**, **Duration**, **Size**, and **Last Edit Time**, search programs, and perform the following operations on the program: **Edit**, **Publish**, **Export** and **Delete**. You can also right-click the program to edit, publish, export, delete and rename it.

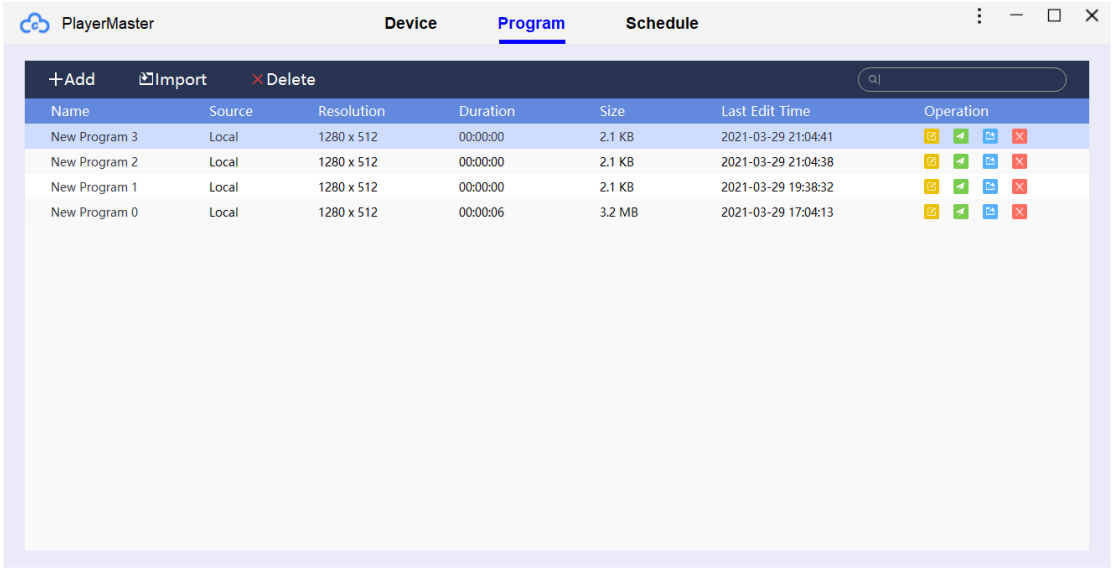


Figure 3.4-1 Program list

- **Edit:** open the **Program Editor** page to edit the program.
- **Publish:** publish the program to a terminal or a terminal group.
- **Export:** pack and export the program to a local file or a U-Disk.
- **Delete:** delete the program.

3.4.2 Adding Programs

Click Add. In the pop-up dialog box, set the name, width and height of the program, and then click **OK** to enter the **Program Editor** page.

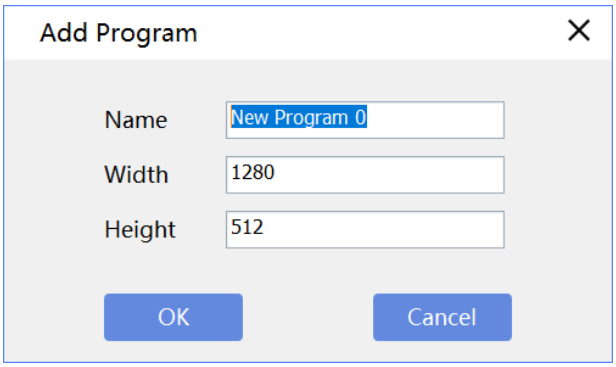


Figure 3.4-2 Adding programs

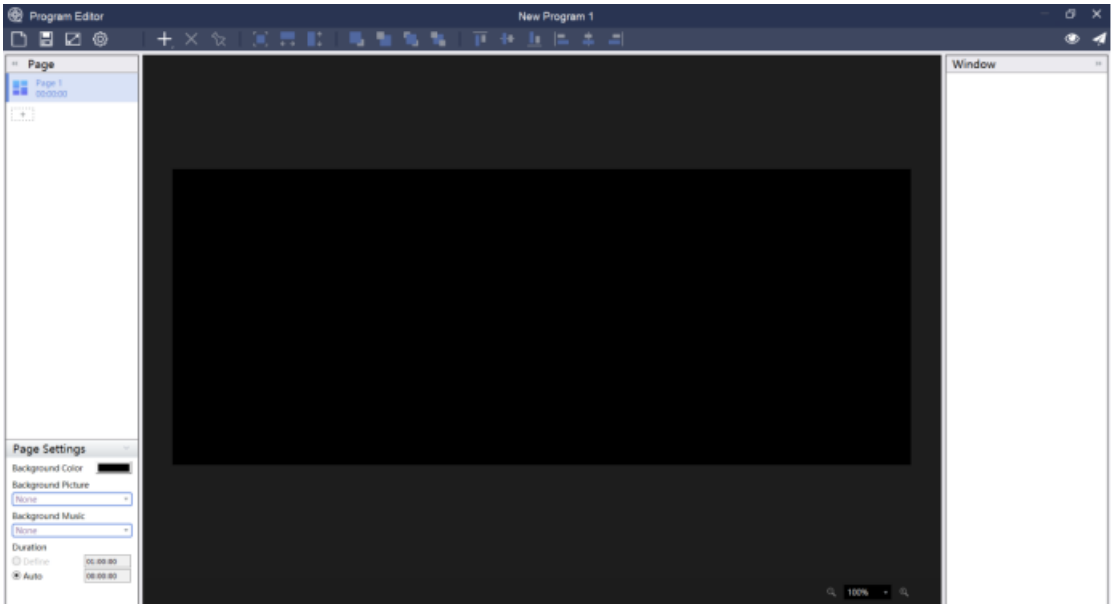


Figure 3.4-3 Program Editor page

You can edit and publish the program on the **Program Editor** page.

3.4.3 Adding Windows

Click + to select a window from the following program windows.

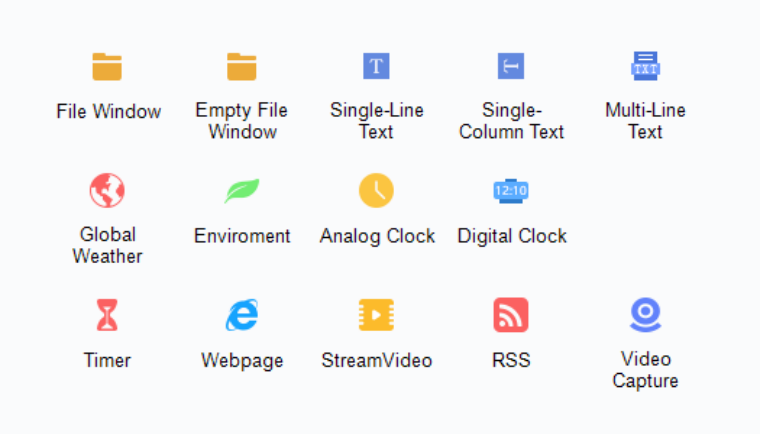


Figure 3.4-4 Program window type

- **Window Settings**

After adding a window, you can adjust the size and border of the window at the left side of the page, and set item properties at the right side of the page. The following figure takes a file window as an example.

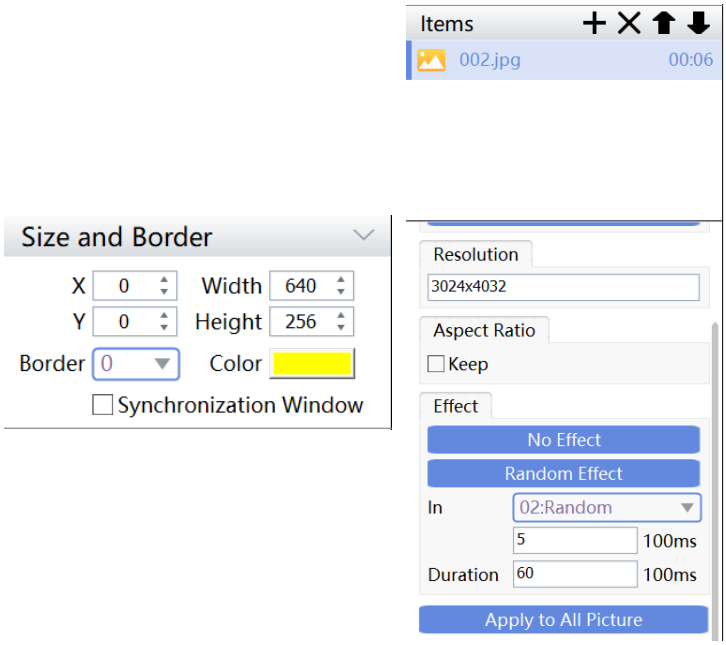


Figure 3.4-5 Window settings

- **Saving Programs**

  Click to save the currently edited program.

- **Publishing Programs**

  Click to publish the program to a terminal or a terminal group.

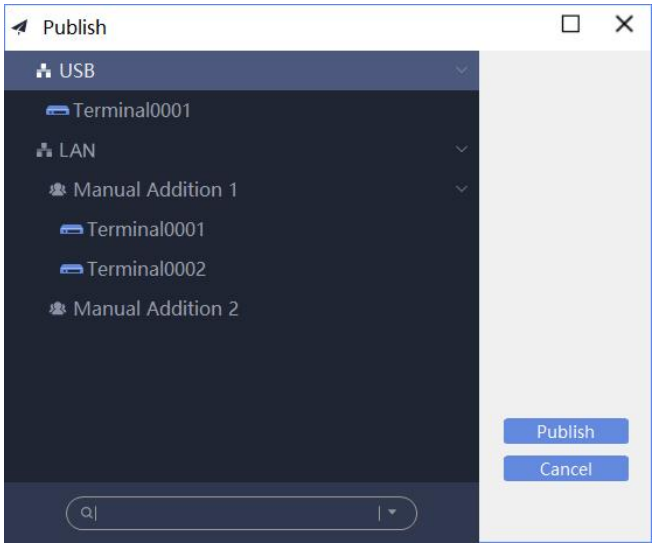


Figure 3.4-6 Publishing programs

3.5 Schedule

On the **Schedule** page, you can add, edit, publish and delete schedules.

3.5.1 Program Schedule

Click Program to enter the program schedule operation page.

- **Program Schedule List**

  In this list, you can view the information of program schedules: **Name**, **Source** and **Last Edit Time**, and perform the following operations on the schedules: **Edit**, **Publish** and **Delete**.

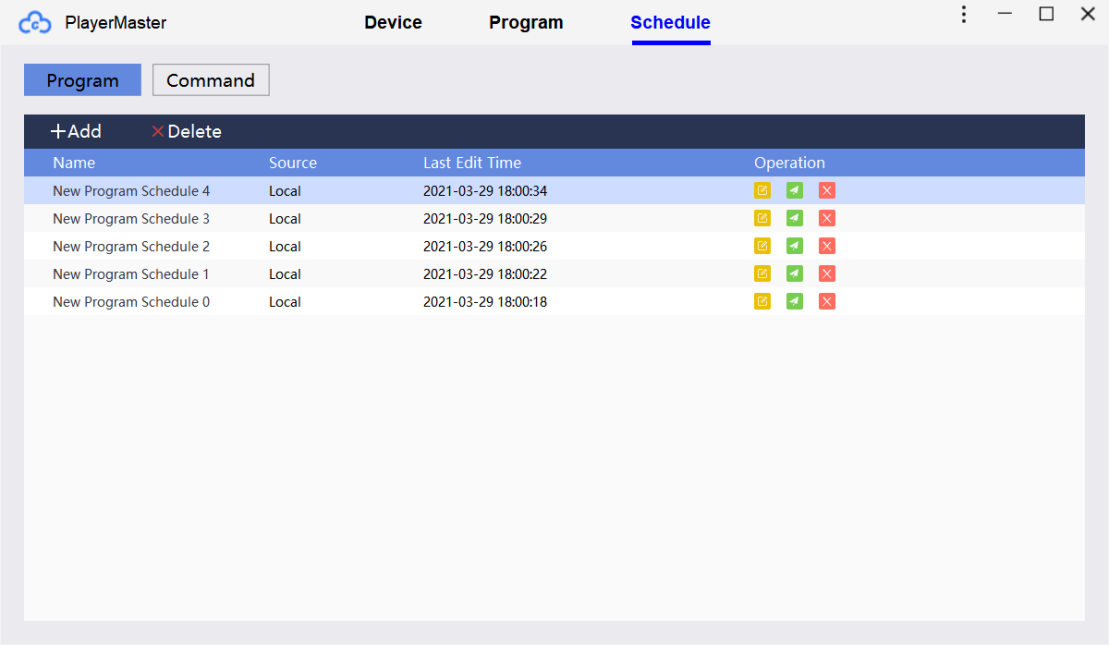


Figure 3.5-1 Program schedule operation page

- **Adding Program Schedules**

  Click Add. In the pop-up dialog box, you can add **Spot**, **Rotation** and **Spare** programs.

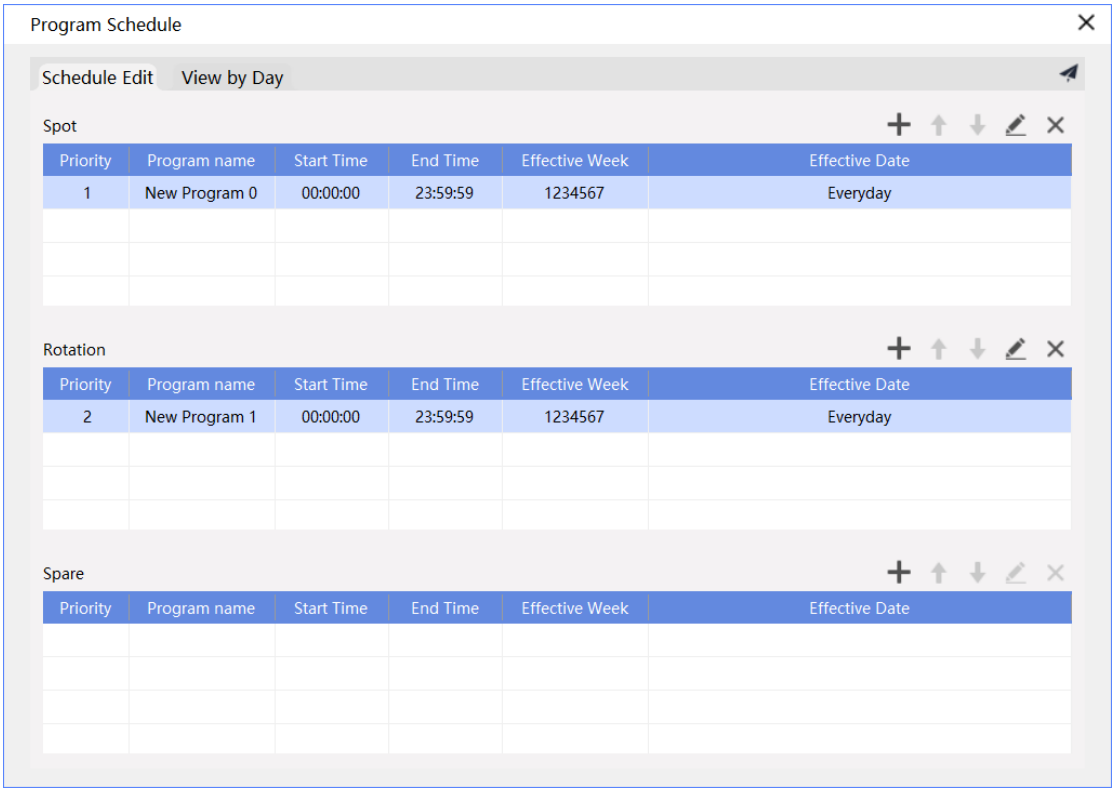


Figure 3.5-2 Adding program schedules

Click + to add a program and set its play time.

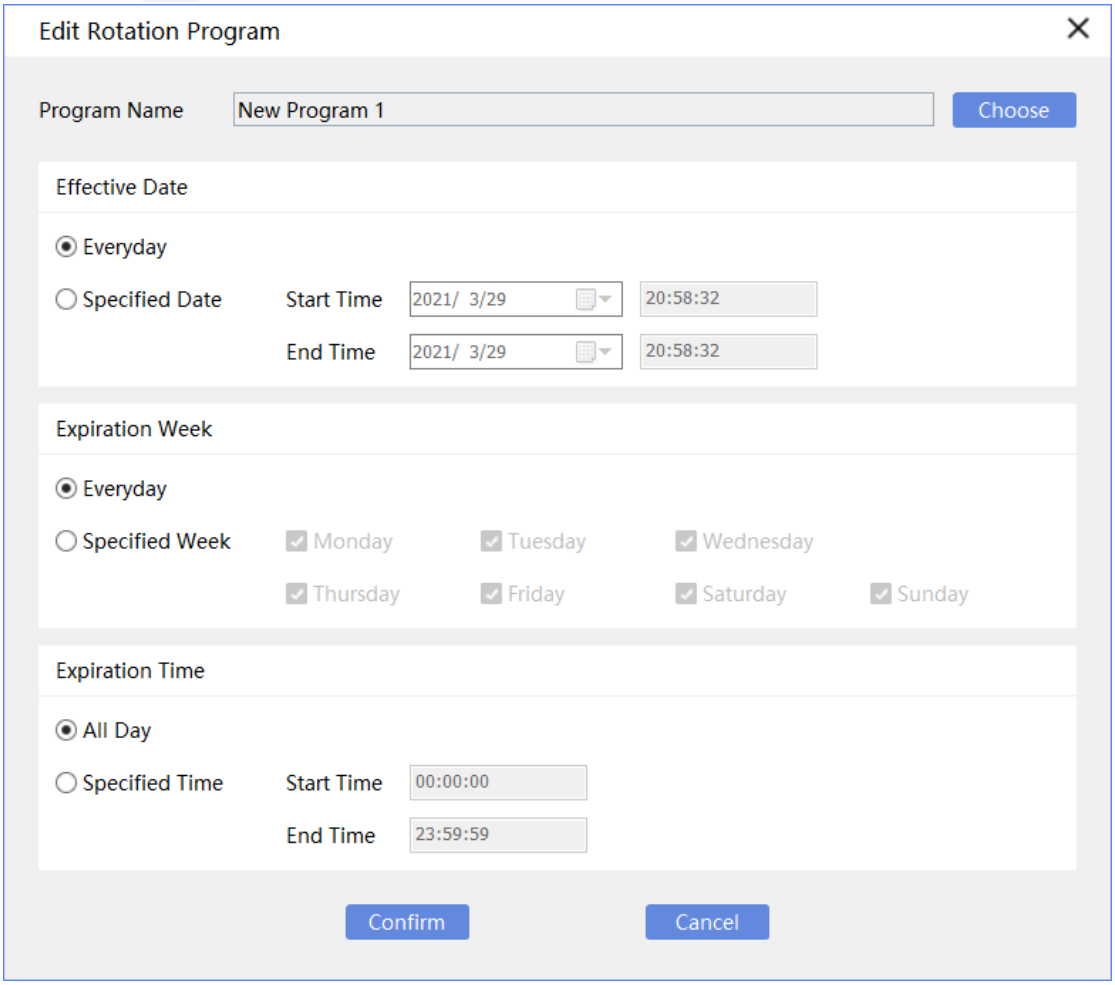


Figure 3.5-3 Adding an item of program schedules

- **Publishing Program Schedules**

  Click to publish the program schedule to a terminal or a terminal group.

3.5.2 Command Schedule

Click Command to enter the command schedule operation page.

- **Command Schedule List**

  You can view the information of command schedules: **Name** and **Included Commands**, and perform the following operations on the schedules: **Edit**, **Publish** and **Delete**.

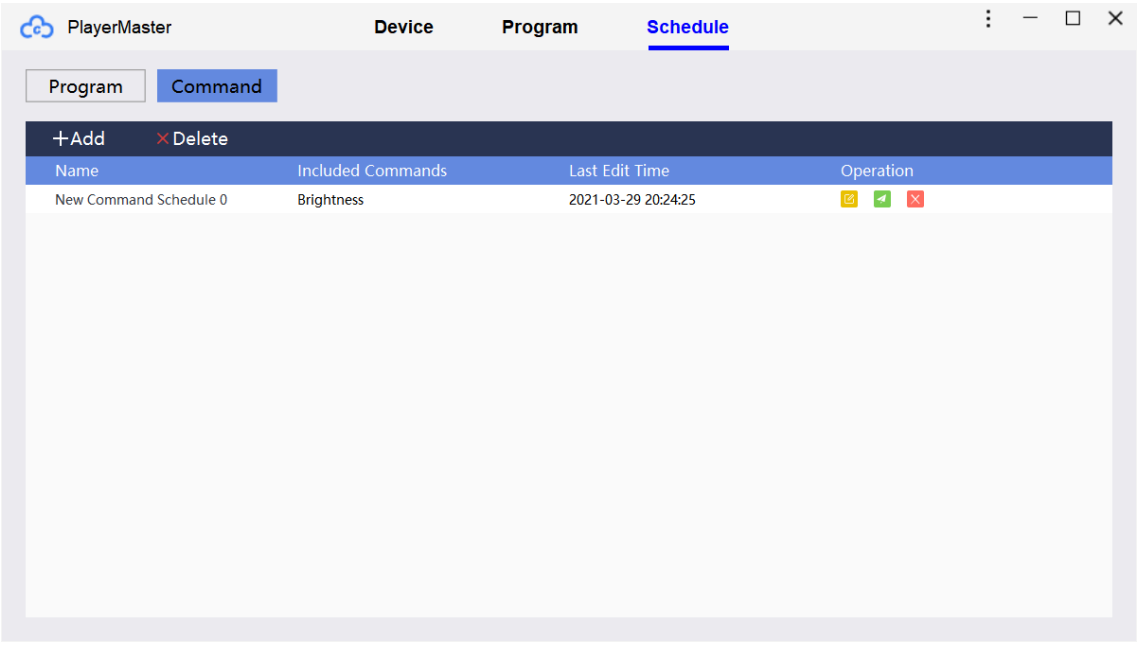


Figure 3.5-4 Command schedule operation page

- **Adding Command Schedules**

  Click Add. In the pop-up dialog box, click + to add a command and set its execution time.

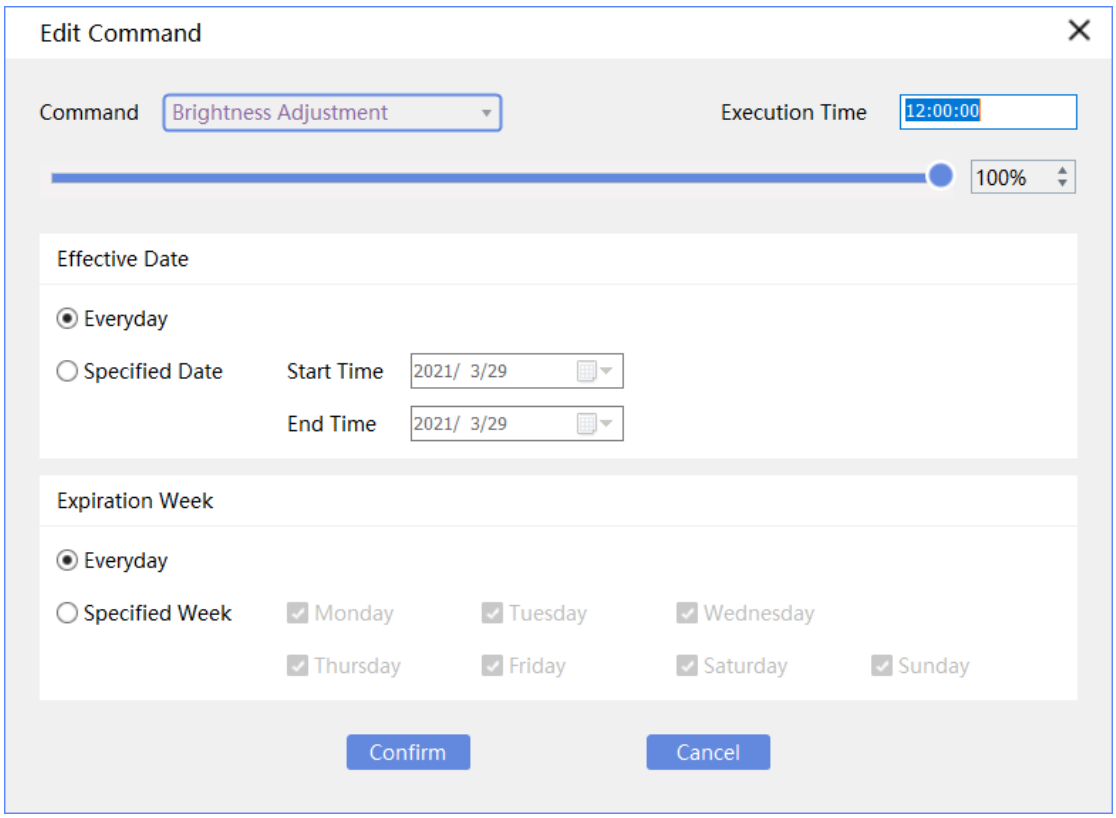


Figure 3.5-5 Adding command schedules

- **Publishing Command Schedules**

  Click to publish the command schedule to a terminal group or a terminal.

4 Software Details

4.1 Interface

In LAN mode, the software contains three main pages: **Device**, **Program** and **Schedule**.

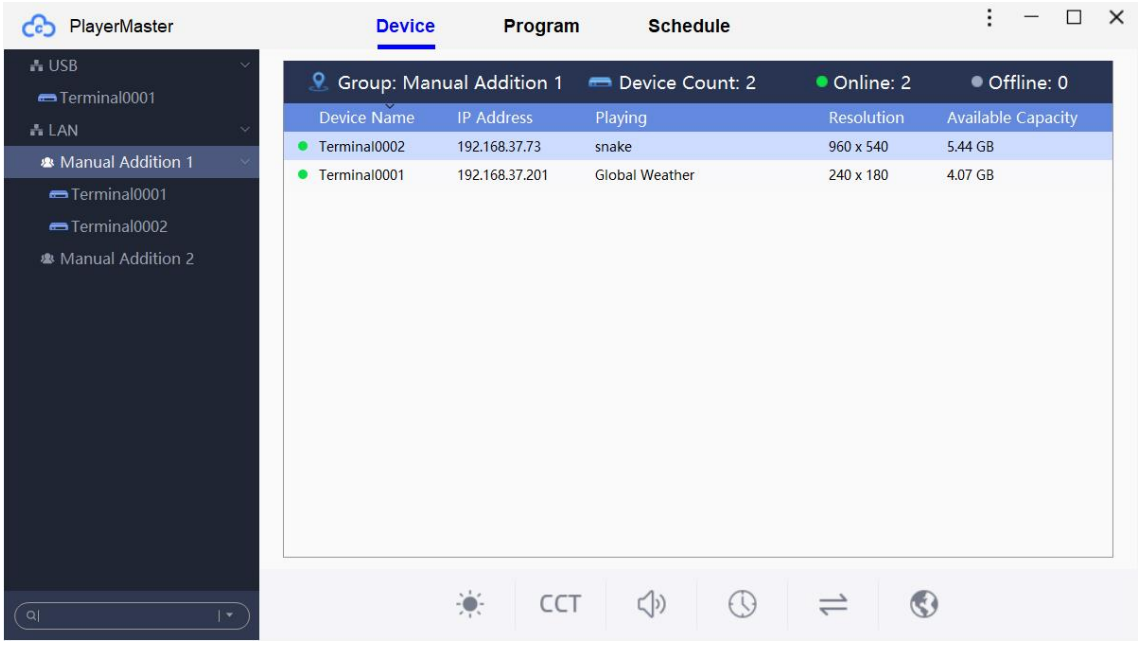


Figure 4.1-1 Main interface

In Cloud mode, you can enter the main interface after logging into your account of ColorlightCloud. In the login interface, enter the password and the server address. The default server address is https://www.colorlightcloud.com. You can also select the **Show Server Address** check box and choose an address from the drop-down list, or enter an address. After a successful login, you will view four pages: **Device**, **Media**, **Program** and **Schedule**.

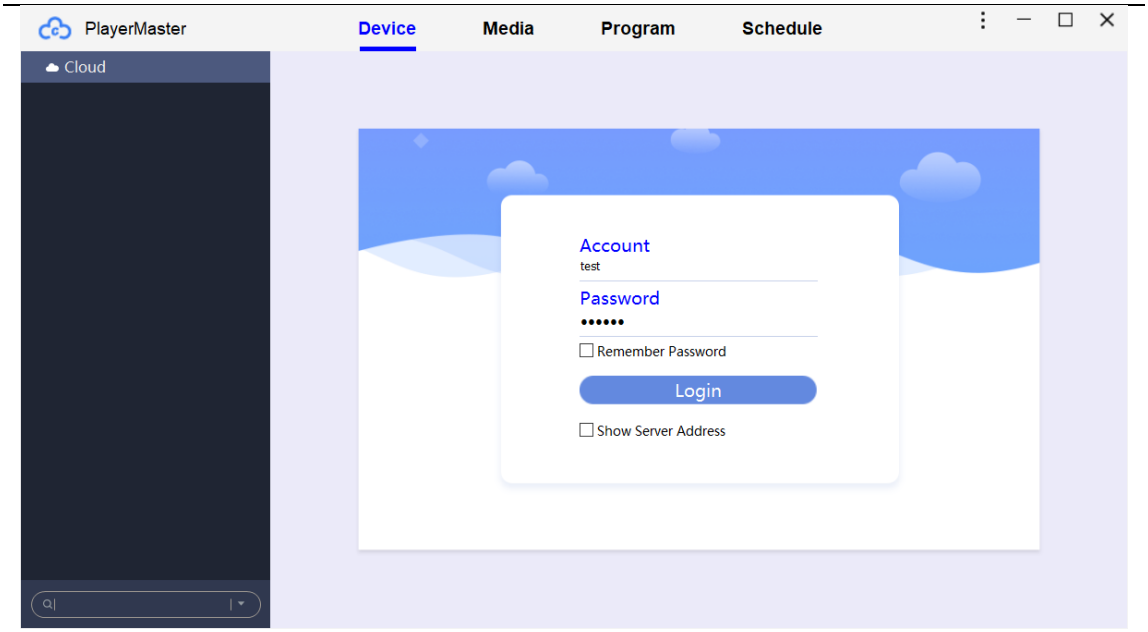


Figure 4.1-2 Login Interface of Cloud Mode

4.2 Main Menu

Click ⋮ in the upper-right corner of the software, and the main menu is displayed, which includes **Software Settings**, **Publish Configuration to U-disk**, **Help** and **About**.

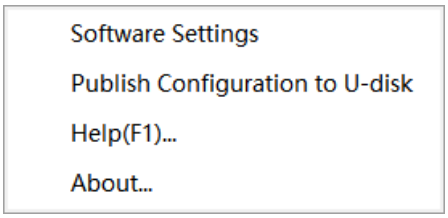


Figure 4.2-1 Main menu

Software Settings

You can switch modes, change common settings, set device management modules, and set cache path.

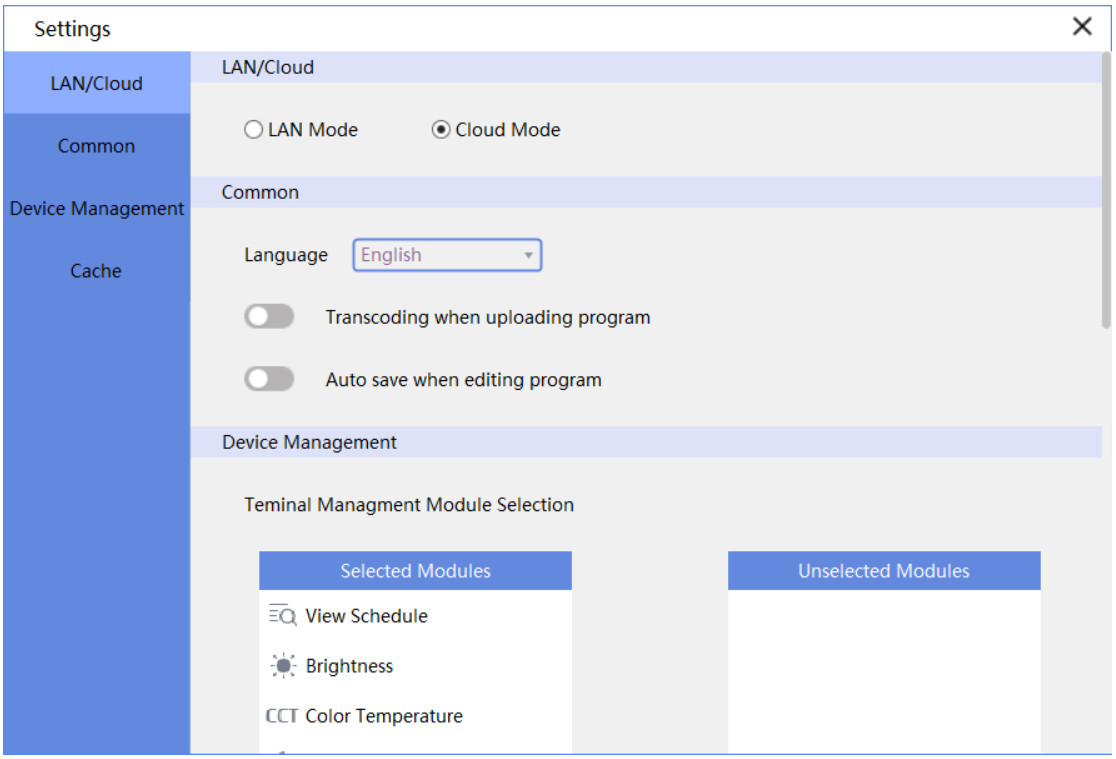


Figure 4.2-2 Software settings

LAN/Cloud

You can switch between LAN mode and Cloud mode.

Common

Settings	Function
Language	The software will initially choose a language according to system environment after installation. Here you can switch between Chinese, English and French.
Transcoding when uploading program	If turned on, a program will be automatically transcoded when it is being published.

Auto save when editing program	If turned on, a program will be automatically saved when it is being edited.

➢ **Device Management**

You can select or deselect the terminal management modules displayed at the bottom of the **Device** page.

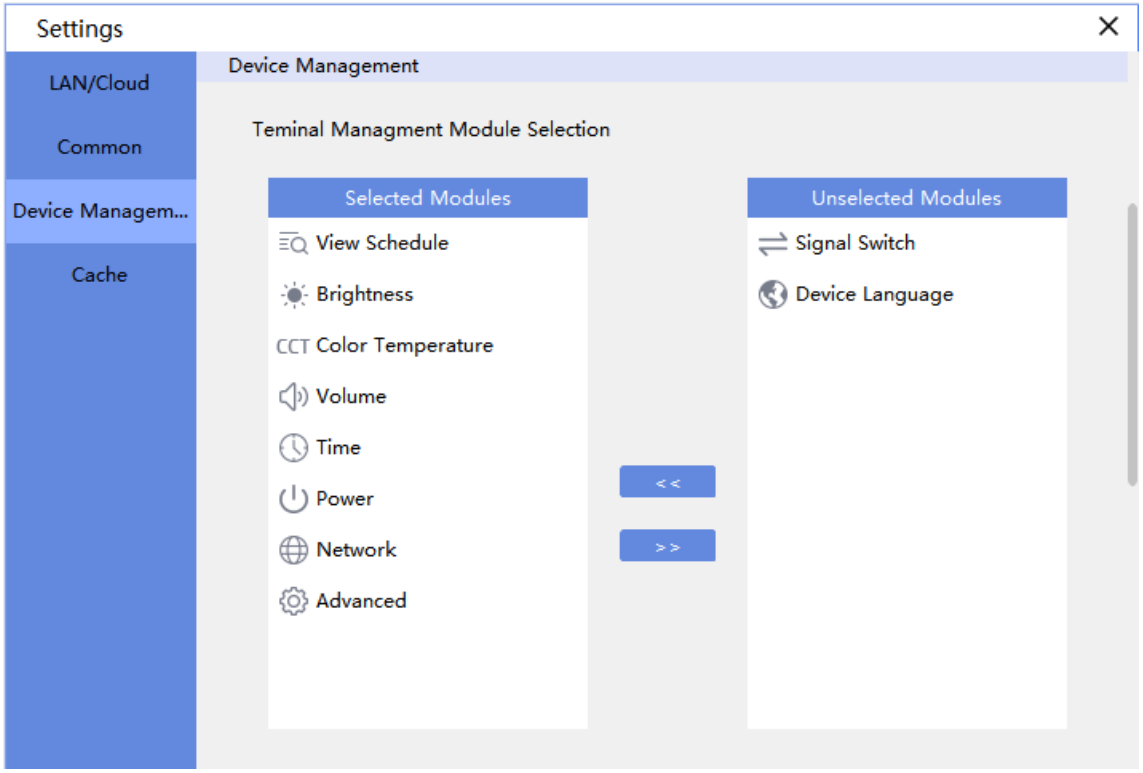


Figure 4.2-3 Terminal management module settings

➢ **Cache**

You can view and change cache path, view disk capacity, and clear the cache.

- **Publish Configuration to U-disk**

Click **Publish Configuration to U-disk**. In the pop-up dialog box, you can publish screen resolution, control area, network and other configurations to the U-disk, and then configure the terminal via the U-disk.

- **Help**

Click **Help** to view the PlayerMaster user manual.

- **About**

  Click **About**. In the pop-up window, you can view the logo of the software, version number (compile time), build number, company name and company address. You can click the address to go to the Colorlight website.

Figure 4.2-4 About

4.3 Cloud Account

You can click the profile icon to view account information, change passwords, or log out of your account.

Settings	Function
Profile	View the username and cloud space.
Modify Password	Modify account password. The password length is between 8 and 30 characters. The new password should contain numbers and uppercase and lowercase letters.
Logout	Log out of your account.

4.4 Device

4.4.1 Terminal Tree

In the terminal tree, you can manage terminal groups and terminals, and publish programs and commands to them.

USB

Terminals connected to the computer via a USB cable can be detected in the terminal tree.

Right-click the target terminal, and the operation menu is displayed.

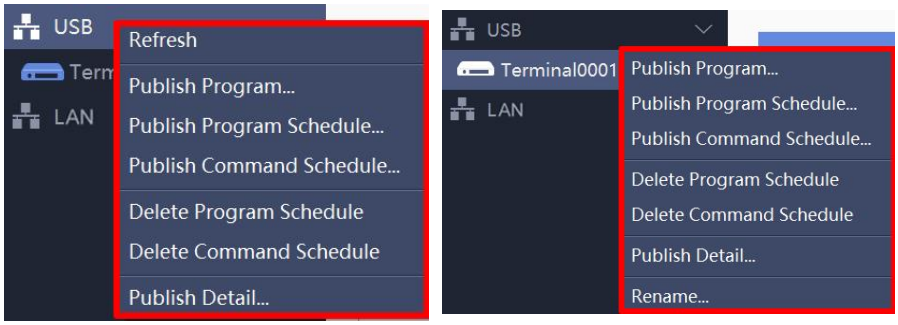


Figure 4.4-1 Right-click menu

Option	Function
Refresh	Refresh the information of the terminal group.
Publish Program	Publish a local program to the terminal.
Publish Program Schedule	Publish a local program schedule to the terminal. (Supported in LAN mode)
Publish Command Schedule	Publish a local command schedule to the terminal. (Supported in LAN mode)
Delete Program Schedule	Delete the local program schedules of the terminal. (Supported in LAN mode)
Delete Command Schedule	Delete the local command schedules of the terminal. (Supported in LAN mode)
Publish Detail	View the details of the programs and schedules published in the current running course of the software...
Rename	Rename the terminal.

- **Publishing Programs**

Click **Publish Program**. In the pop-up dialog box, select a program and click **OK** to send it to the target terminal.

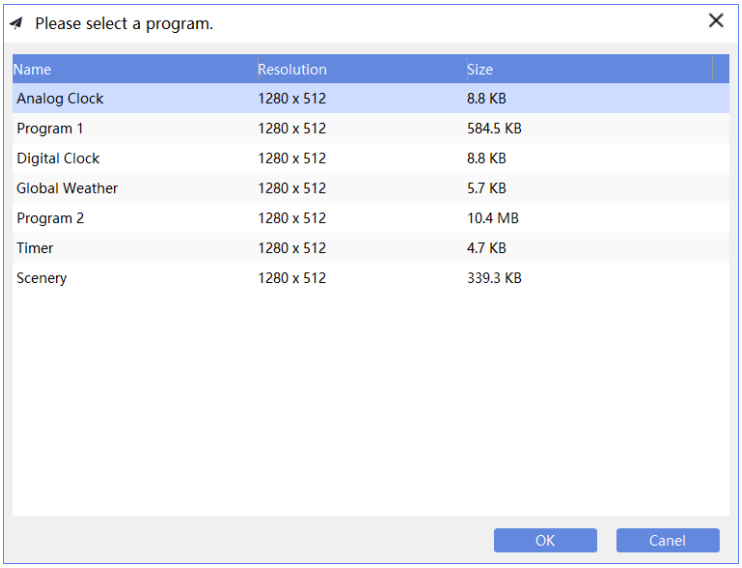


Figure 4.4-2 Publishing programs

- **Publishing Program Schedules**

  Click **Publish Program Schedule**. In the pop-up dialog box, select a program schedule and click **OK** to send it to the terminal.

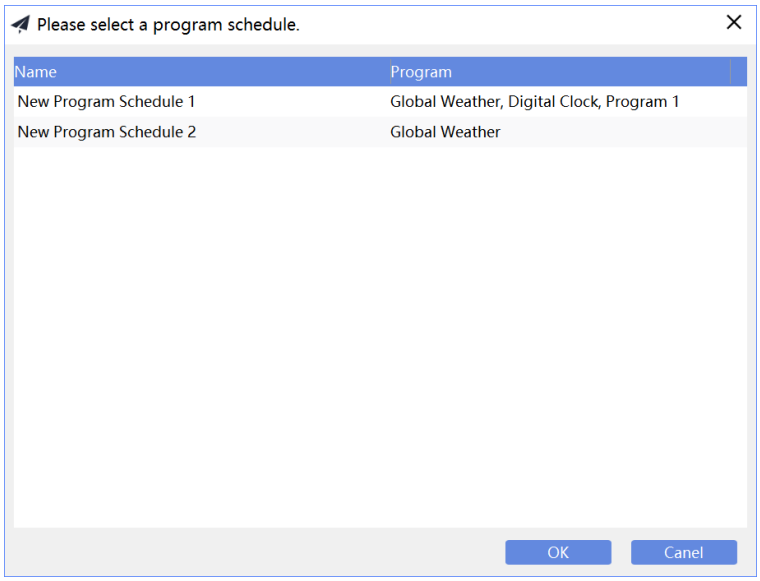


Figure 4.4-3 Publishing program schedules

- **Publishing Command Schedules**

  Click **Publish Command Schedule**. In the pop-up dialog box, select a command schedule and click **OK** to send it to the terminal.

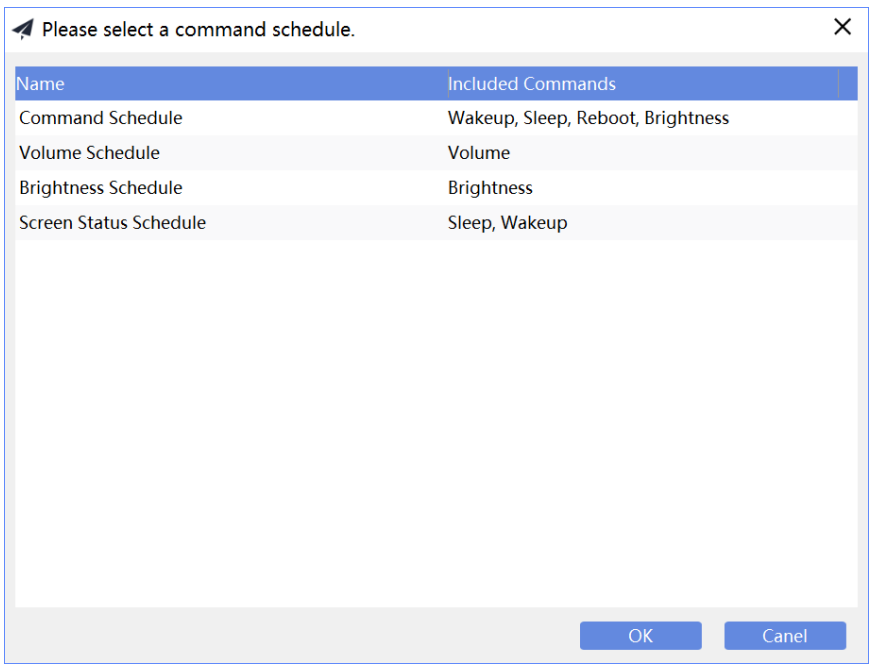


Figure 4.4-4 Publishing command schedules

- **Publish Detail**

Click **Publish Detail**. In the pop-up dialog box, you can view the detailed information of the programs and schedules published in the current running course of the software.

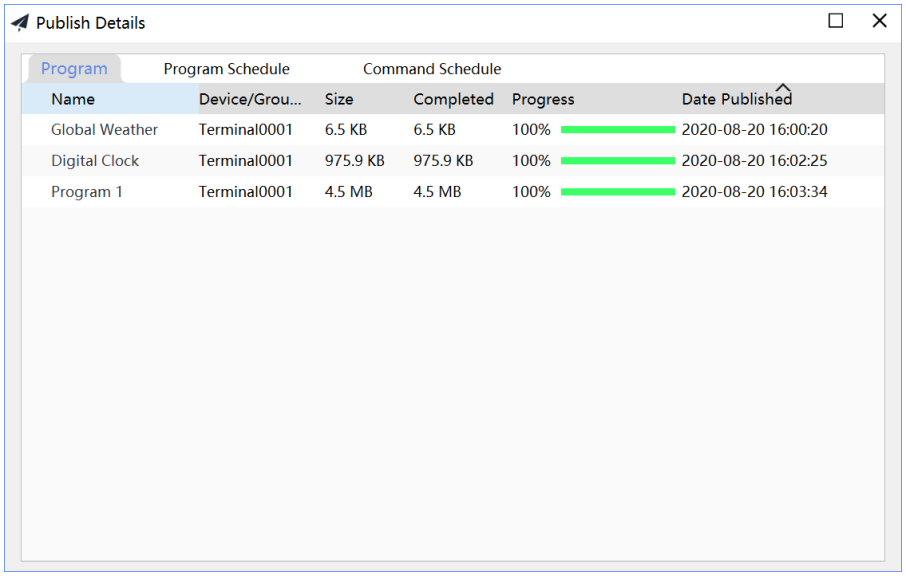


Figure 4.4-5 Details of published programs

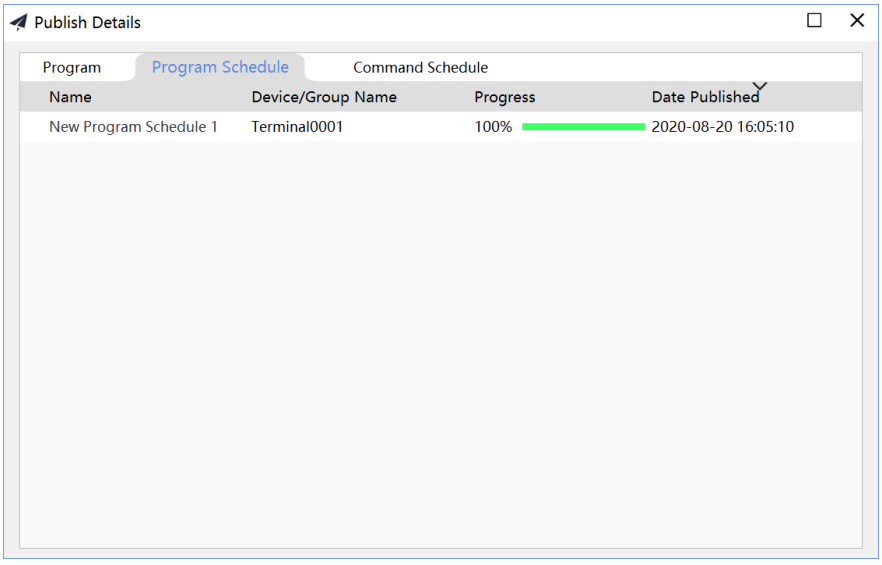


Figure 4.4-6 Details of published program schedules

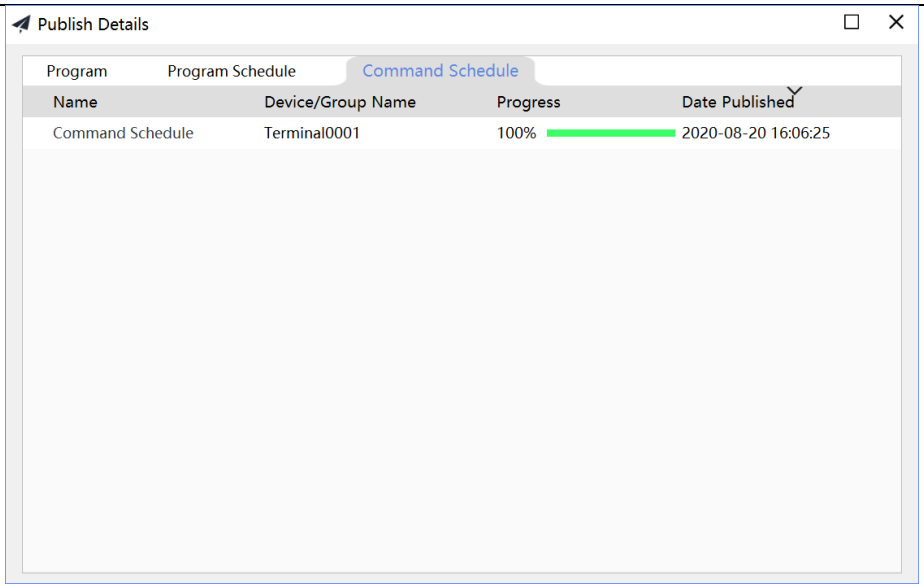


Figure 4.4-7 Details of published command schedules

LAN

You can view the terminals in the same local area network as the computer in the terminal groups of the LAN.

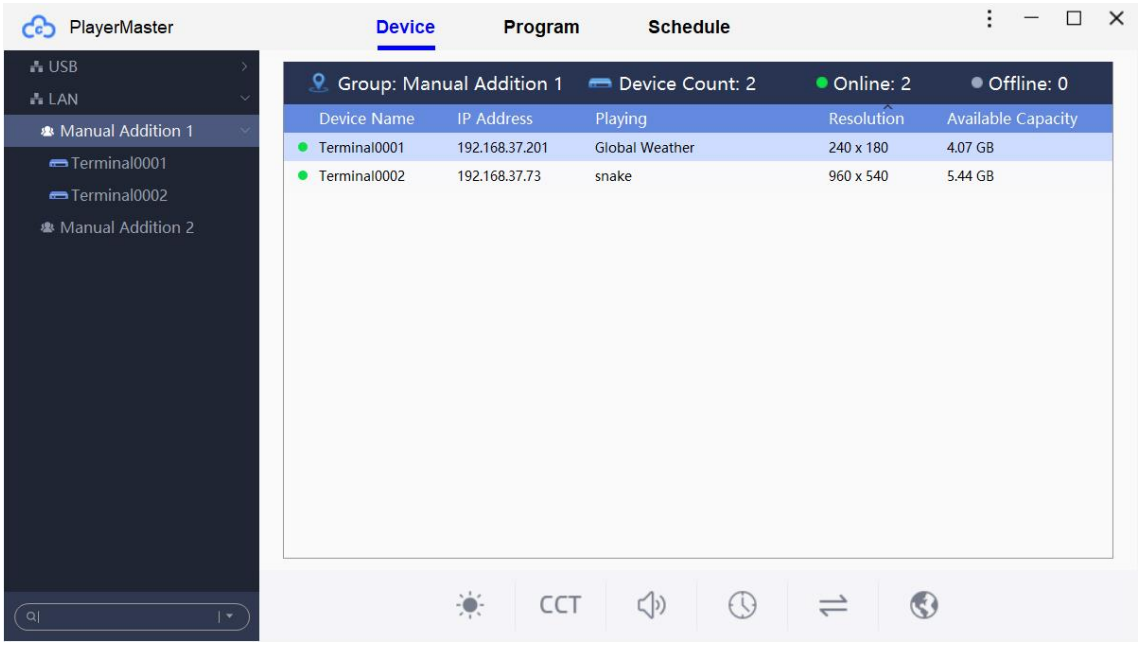


Figure 4.4-8 LAN mode

- **Terminal Group in the LAN**

  Right-click the target terminal group, and the operation menu is displayed.

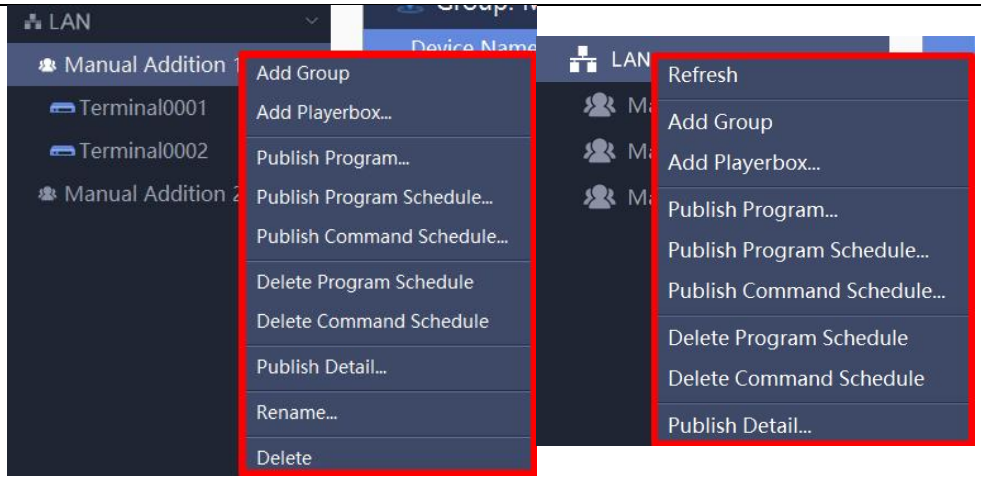


Figure 4.4-9 Right-click menu

Option	Function
Refresh	Refresh the information of terminals in the LAN.
Add Group	Add a subordinate terminal group.
Add Playerbox	Add a player box by entering its IP address.
Publish Program	Publish a program to all terminals of the selected group.
Publish Program Schedule	Publish a program schedule to all terminals of the selected group.
Publish Command Schedule	Publish a command schedule to all terminals of the selected group.
Delete Program Schedule	Delete the LAN-based program schedules of all terminals of the selected group.
Delete Command Schedule	Delete the command schedules of all terminals of the selected group.
Publish Detail	View the detailed information of the programs and schedules published in the current running course of the software.
Rename	Rename the terminal group.
Delete	Delete the terminal group.

Click **Add Playerbox**. In the pop-up dialog box, enter the IP address of the target player box to add the terminal.

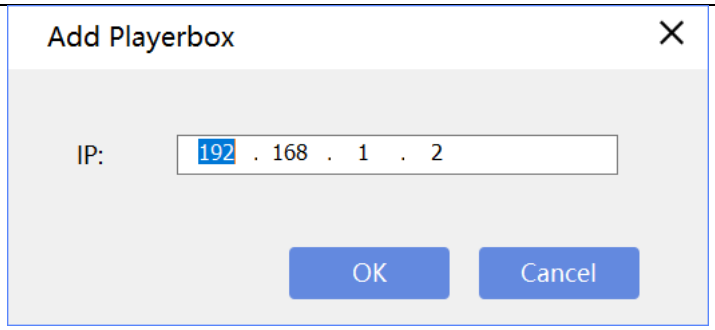


Figure 4.4-10Manually adding terminals

- **Terminal in the LAN**

  Right-click the target terminal, and the operation menu is displayed.

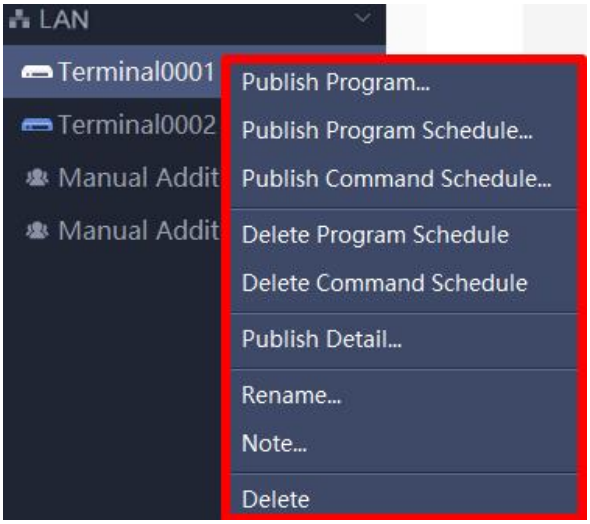


Figure 4.4-11Right-click menu

Option	Function
Publish Program	Publish a program to the selected terminal.
Publish Program Schedule	Publish a local program schedule to the selected terminal.
Publish Command Schedule	Publish a local command schedule to the selected terminal.
Delete Program Schedule	Delete the LAN-based program schedules of the selected terminal.
Delete Command Schedule	Delete the command schedules of the selected terminal.
Publish Detail	View the detailed information of the programs and schedules published in the current running course of the software.
Rename	Rename the terminal.
Note	Add or change the remark of the terminal.
Delete	Delete the terminal.

Cloud

In Cloud mode, you can view and control all terminal groups and terminals under your account.

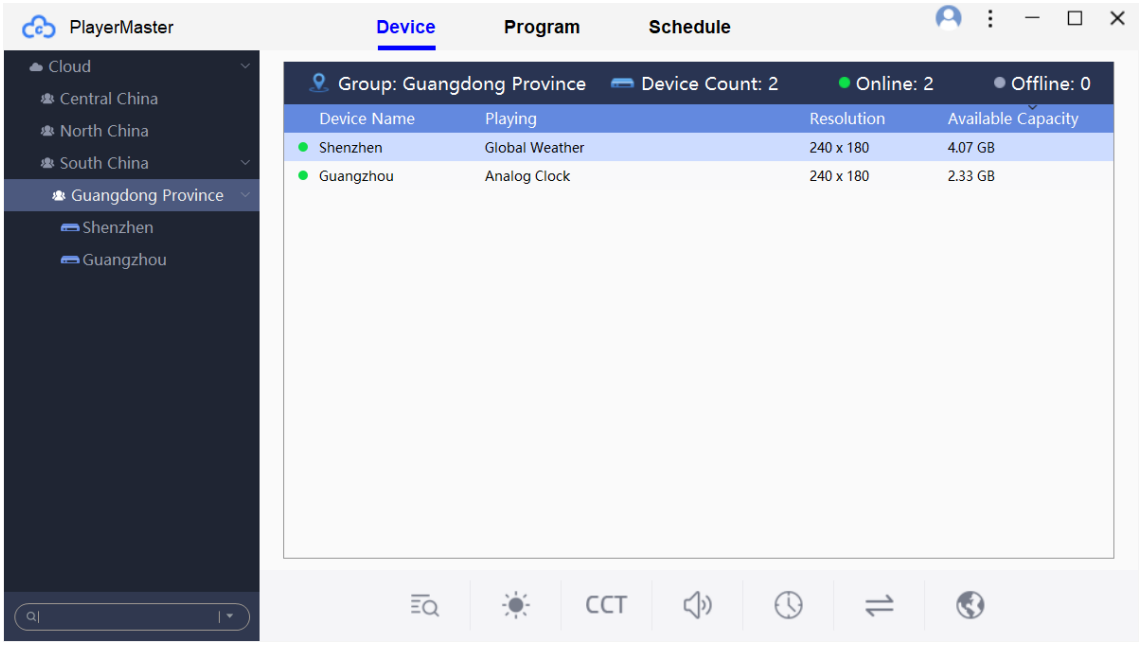


Figure 4.4-12Cloud mode

- **Terminal Group in the Cloud**

  Right-click the target terminal group, and the operation menu is displayed.

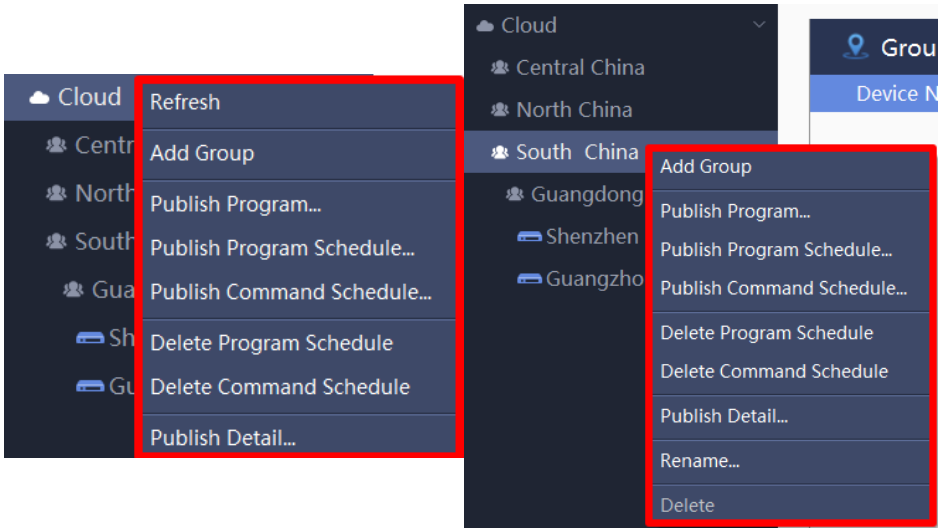


Figure 4.4-13Right-click menu

Option	Function
Refresh	Refresh the information of the terminals in the cloud.
Add Group	Add a subordinate group.
Publish Program	Publish a local program to all terminals of the selected group.
Publish Program Schedule	Publish a local or cloud program schedule to the selected group.
Publish Command Schedule	Publish a local command schedule to the selected group.
Delete Program Schedule	Delete the cloud program schedules published to the selected group.
Delete Command Schedule	Delete the cloud command schedules published to the selected group.
Publish Detail	View the detailed information of the programs and schedules published in the current running course of the software.
Rename	Rename the terminal group. (Root groups in the cloud cannot be renamed.)
Delete	Delete the terminal group. (Root groups in the cloud and groups having subordinate groups or terminals cannot be deleted.)

- **Terminal in the Cloud**

  Right-click the target terminal, and the operation menu is displayed.

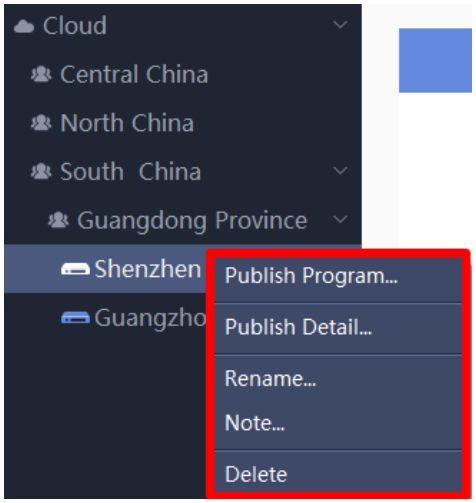


Figure 4.4-14Right-click menu

Option	Function
Publish Program	Publish a local program to the selected terminal.
Publish Detail	View the detailed information of the programs and schedules published in the current running course of the software.
Rename	Rename the terminal.
Note	Add or change the remark of the terminal.
Delete	Delete the terminal.

Terminal Management

Left-click a terminal, drag the terminal to the terminal group icon (in the cloud or LAN), and then you can manage the terminal from the terminal group. The terminal connecting to the computer with a USB cable cannot be dragged to the group in the LAN.

Search

You can search for a terminal or a terminal group by name, by note, and by both name and note.

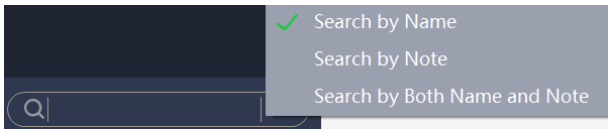


Figure 4.4-15Terminal tree search

4.4.2 Terminal Information

You can view the information of a terminal or of all terminals in a group.

Terminal List

In the terminal list, you can view the information of all terminals in a group, and simultaneously control the terminals.

- **Terminal List**

  Select a group in the terminal tree, and you can view the information of all terminals in the group, and simultaneously control all the terminals. You can view the number of online and offline devices, **Device Name**, **IP Address** (LAN), **Playing**, **Resolution** and **Available Capacity**.

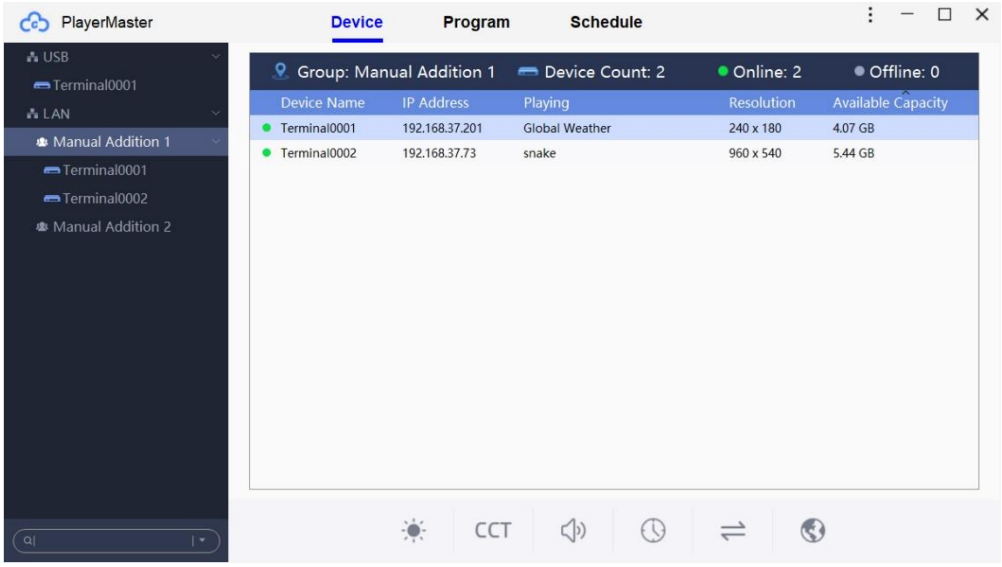


Figure 4.4-16Terminal list

- **Terminal Group Control**

  Select a group in the terminal tree, and then you can simultaneously control all the terminals in the group.

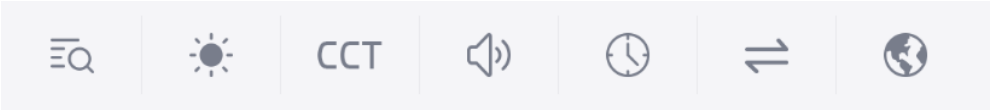


Figure 4.4-17Terminal control toolbar

Operation	Function
View Schedule	View the schedules published to the group.
Brightness Settings	Set the brightness of all the terminals in the group.
Color Temperature Settings	Set the color temperature of all the terminals in the group.
Volume Settings	Set the volume of all the terminals in the group.
Time Settings	In LAN mode, set the time and time zone of all the terminals in a group. In Cloud mode, set the time zone of all the terminals in a group.
Signal Switch	Switch between priority show of HDMI signals and that of playbox content.
Language Settings	Set the language of all the terminals in a group.

Terminal Information

You can view the program which is being played on the terminal, **Thumbnail**, **Resolution**, **Brightness**, **CCT**, **Volume**, **IP Address** (LAN), **Time**, **Storage** and **Version**. You can also manage the programs in the terminal.

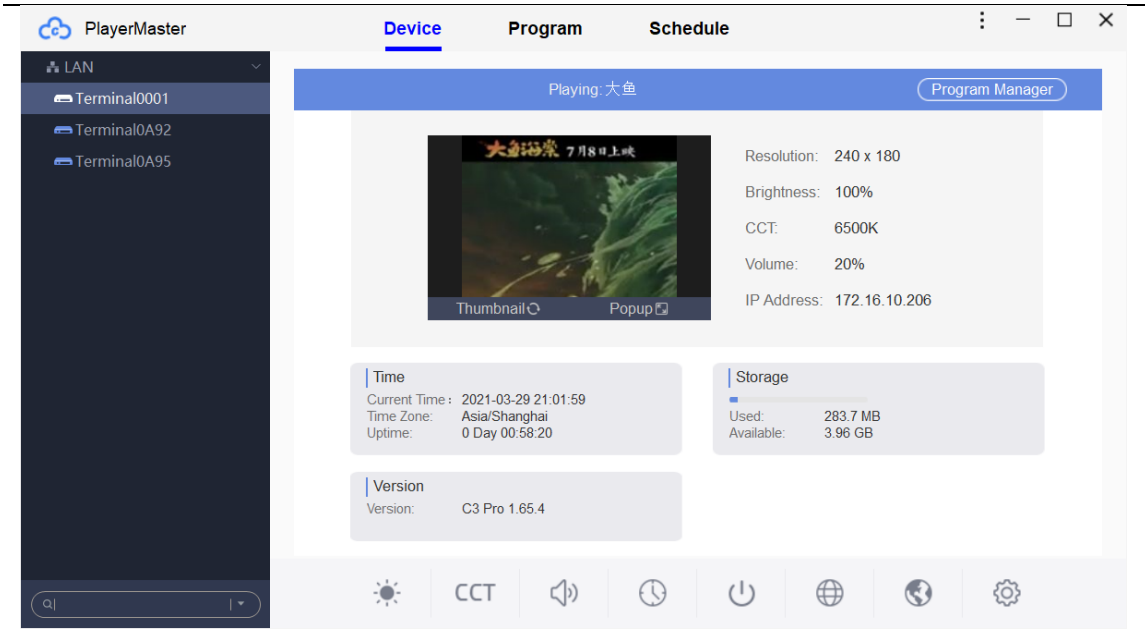


Figure 4.4-18Terminal information

- **Program Management**

  You can click **Program Manager** in the upper-right corner of the page to manage, switch or delete the programs in the terminal.

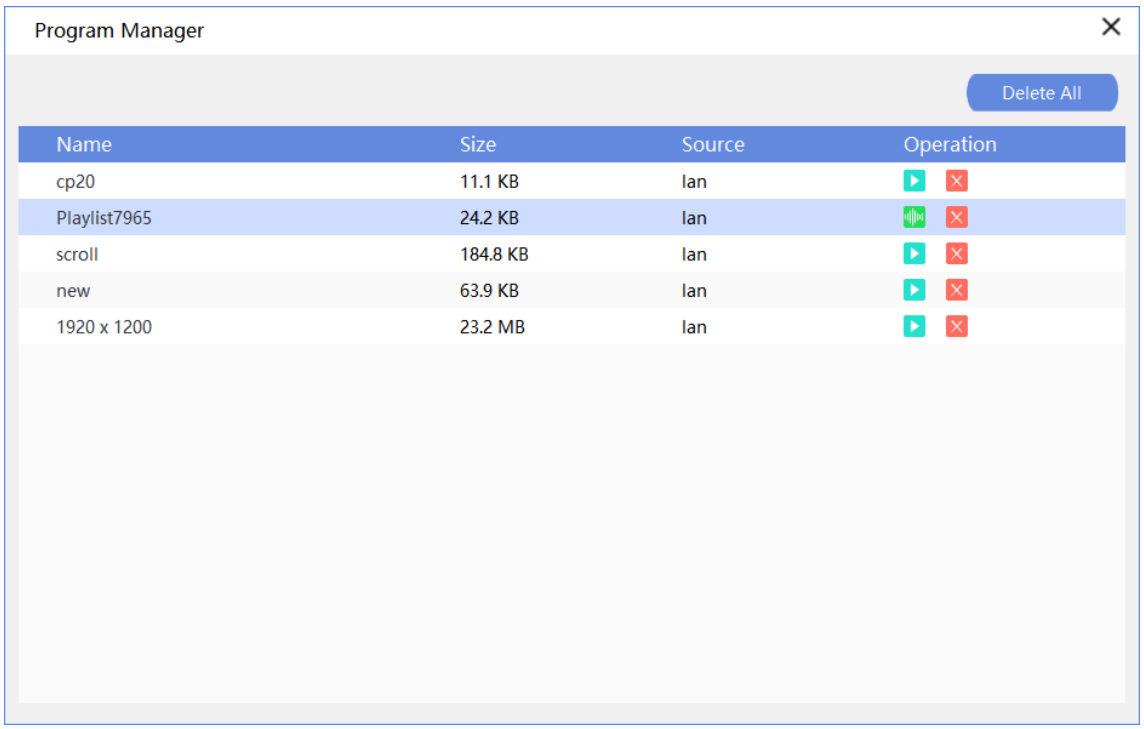


Figure 4.4-19Terminal program management

- **Viewing Screenshot**

You can refresh the screenshot to view the real-time picture of the program which is being played on the terminal.

Figure 4.4-20Screenshot

Click Thumbnail to refresh the thumbnail of the screen.

Click Full to refresh the screenshot and view a clearer version.

Click Popup to refresh the screenshot and view a larger version. You can view the screenshot in 100% or 200% scale.

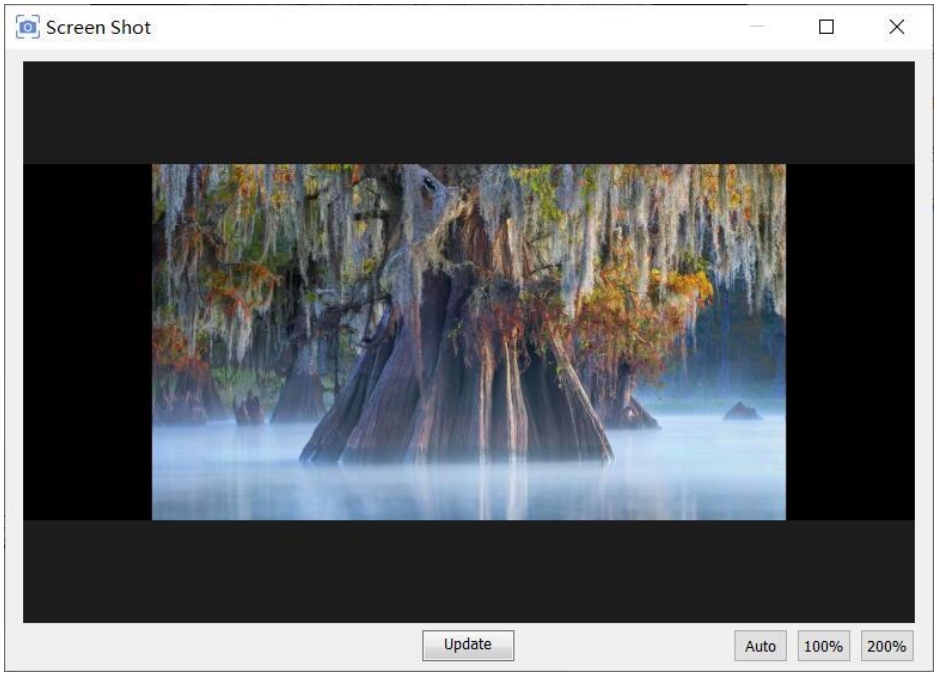


Figure 4.4-21A larger version of screenshot

4.4.3 Terminal Control

On the toolbar at the bottom of the page, you can perform the following operations on the target terminal: viewing schedules, brightness settings, color temperature settings, volume settings, time settings, power settings, network settings, signal switching, device language settings, and advanced settings.

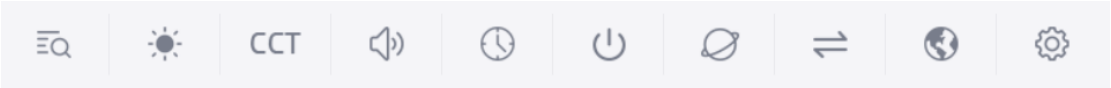


Figure 4.4-22Terminal control toolbar

Viewing Schedules

Click to view the program schedules, command schedules of the terminal, and their execution time.

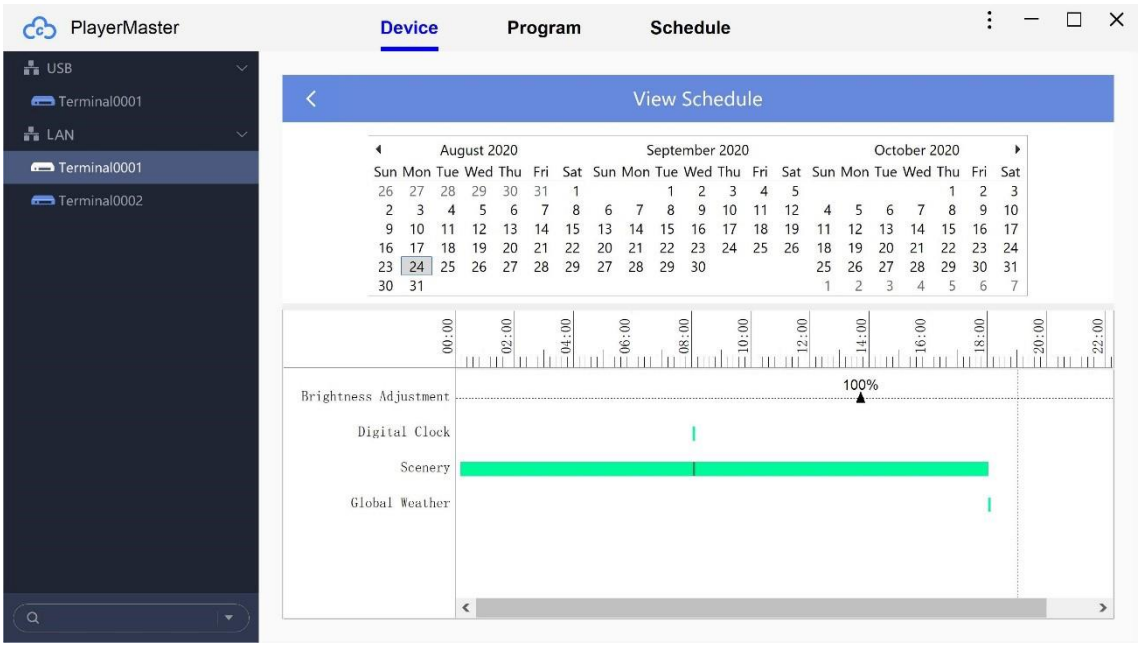


Figure 4.4-23Viewing schedules

Brightness Settings

Click to set screen brightness.

- **Manual Brightness Adjustment**

  Click Switch to manual, and drag the slider to adjust screen brightness.

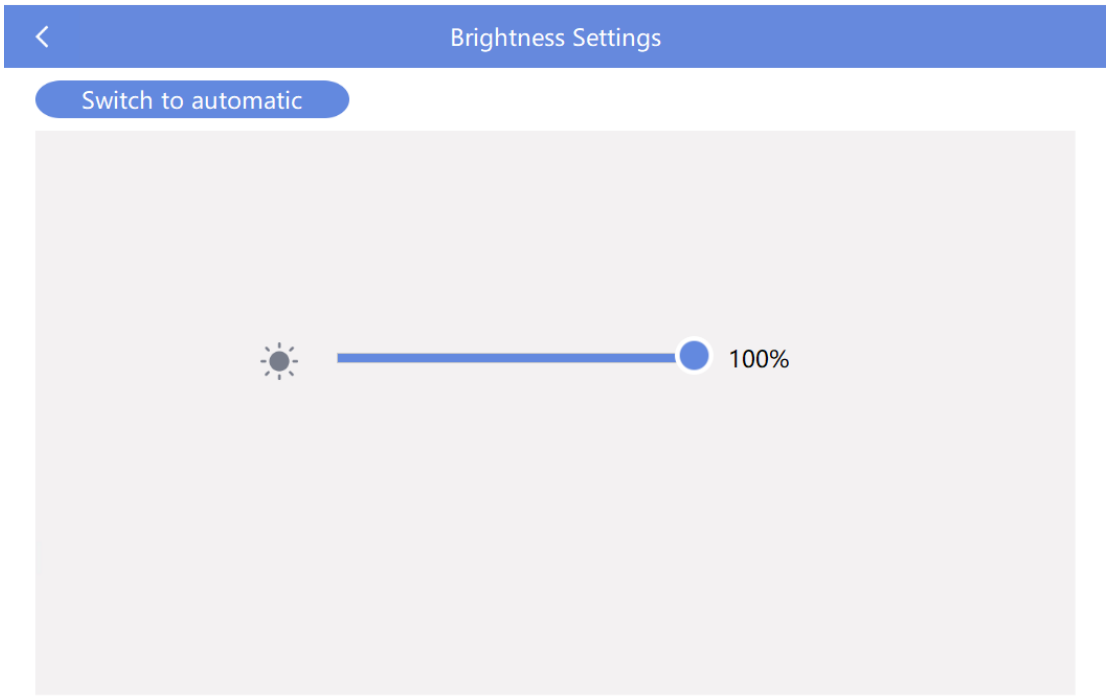


Figure 4.4-24Brightness settings

- **Automatic Brightness Adjustment**

Click Switch to automatic, and the brightness adjustment of the terminal directly switches to the automatic mode. Please ensure that the terminal has been connected to a brightness sensor.

Figure 4.4-25Automatic brightness adjustment

Setting	Function
Automatic Brightness Mode	You can select **Linear**, **Gamma**, **Anti-Gamma** or **Custom** mode.
Brightness Coordinate System	You can move the blue point in the coordinate system to adjust the brightness curve. The horizontal axis shows illumination (Lux), and the vertical axis shows screen brightness. In linear mode, you can adjust the minimum value, intermediate value and maximum value of the illumination to set the brightness curve. In gamma and anti-gamma mode, you can adjust the minimum value and maximum value of the illumination to set the brightness curve. In custom mode, you can set the brightness in different range.
Reference Value	You can refer to the reference value to set the brightness curve.
Default Brightness	When the terminal is not connected to the brightness senor, or the sensor fails to collect the illumination data because of being damaged, the screen brightness is default brightness.
Restore the Default	Restore the default settings of the brightness curve.
Readback Curve	Read-back the last settings of the brightness curve.
Readback Current Brightness	Read-back the current screen brightness.
Apply	Apply the automatic brightness settings to the terminal.

Color Temperature Settings

Click CCT, and drag the slider to adjust the color temperature of the screen.

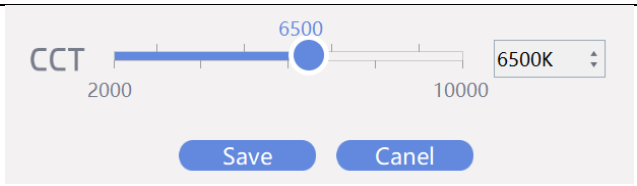


Figure 4.4-26Color temperature adjustment

Volume Settings

Click , and drag the slider to adjust the volume of the terminal.

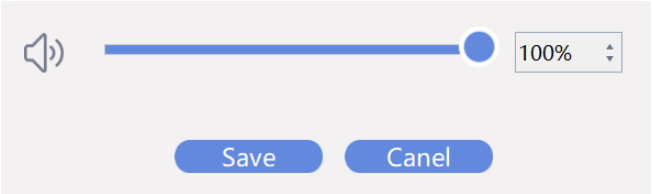


Figure 4.4-27Volume adjustment

Time Settings

Click to enter the time settings page.

- **Time Setting**

  Time setting is not supported in Cloud mode.

  You can change terminal time if the **Sync network time** check box is not selected; terminal time will be synchronous with the network time of the selected time zone if the **Sync network time** check box is selected. After setting, click **Apply**.

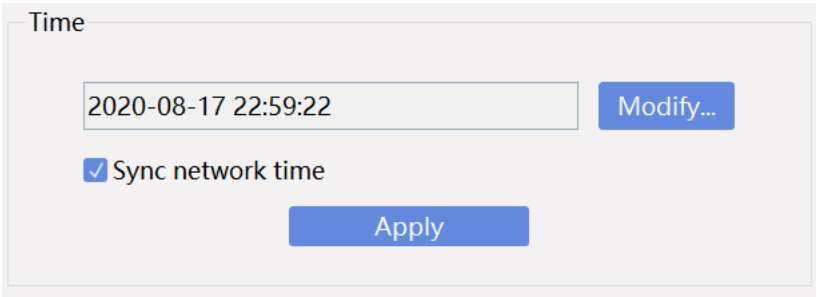


Figure 4.4-28Time setting

- **Time Zone Setting**

  Select a time zone and click **Apply**.

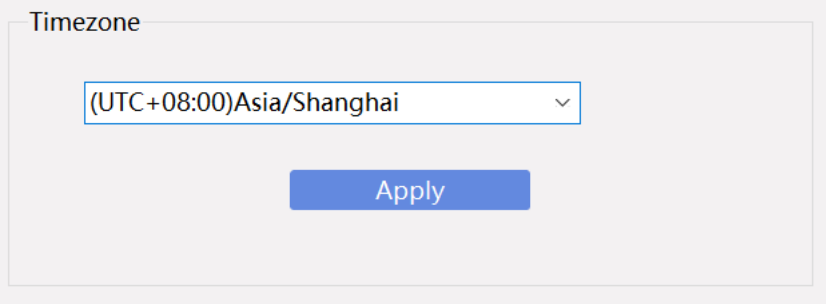


Figure 4.4-29Time zone setting

Power Settings

Click , and choose **Restart**, **Sleep** or **Wake Up** to control the terminal.

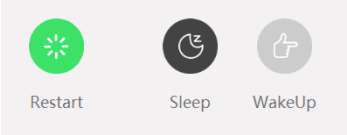


Figure 4.4-30Power control

Network Settings

Click to enter the network settings page. (Network setting is not supported in Cloud mode.)

Click Test Network State to check the network state of the terminal.

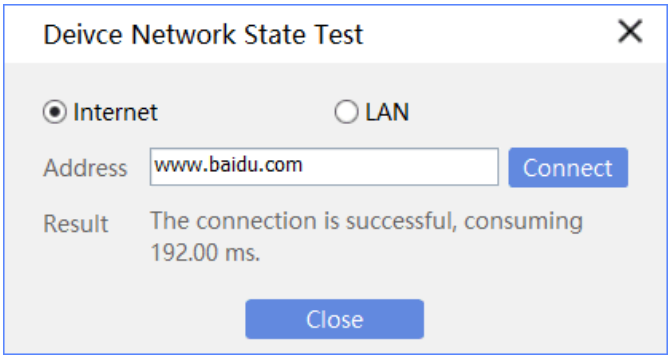


Figure 4.4-31Checking network state

Click Update to refresh the network state of the terminal.

After setting, click Apply.

- **Wi-Fi**

  Click to search for networks, and double-click the name of a network. Then enter the password, and click **Apply**.

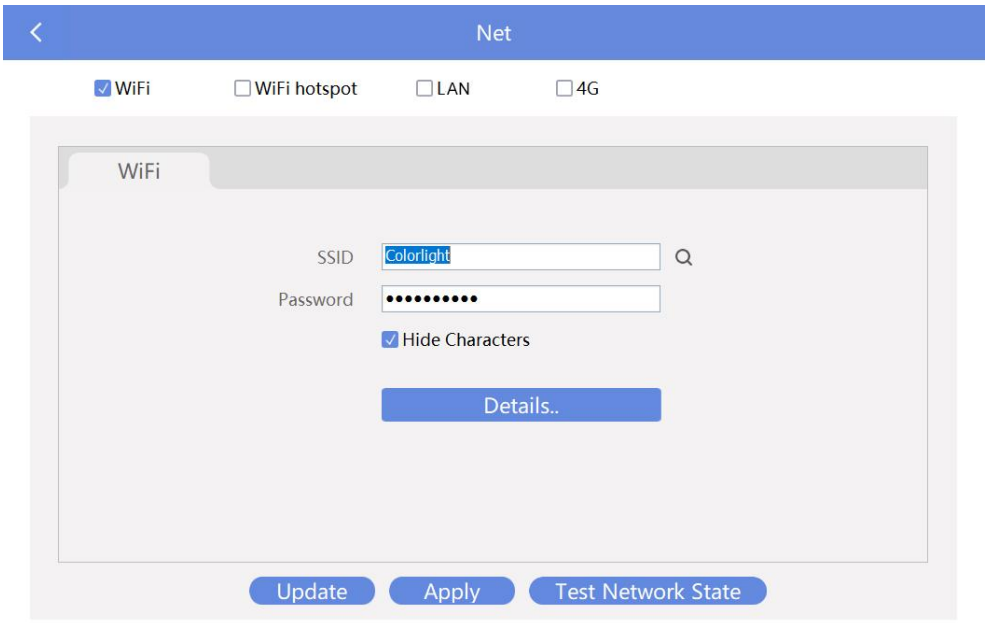


Figure 4.4-32Wi-Fi settings

Click Details.. to view terminal information such as **IP Address** and **Subnet Mask**.

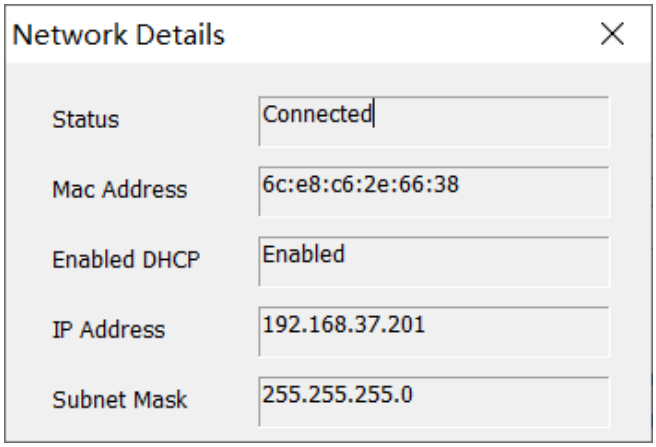


Figure 4.4-33Viewing details of network connection

- **Wi-Fi Hotspot**

  You can connect the computer to the Wi-Fi hot spot of the terminal.

  Set **SSID**, **Password**, **Band** and **Channel**.

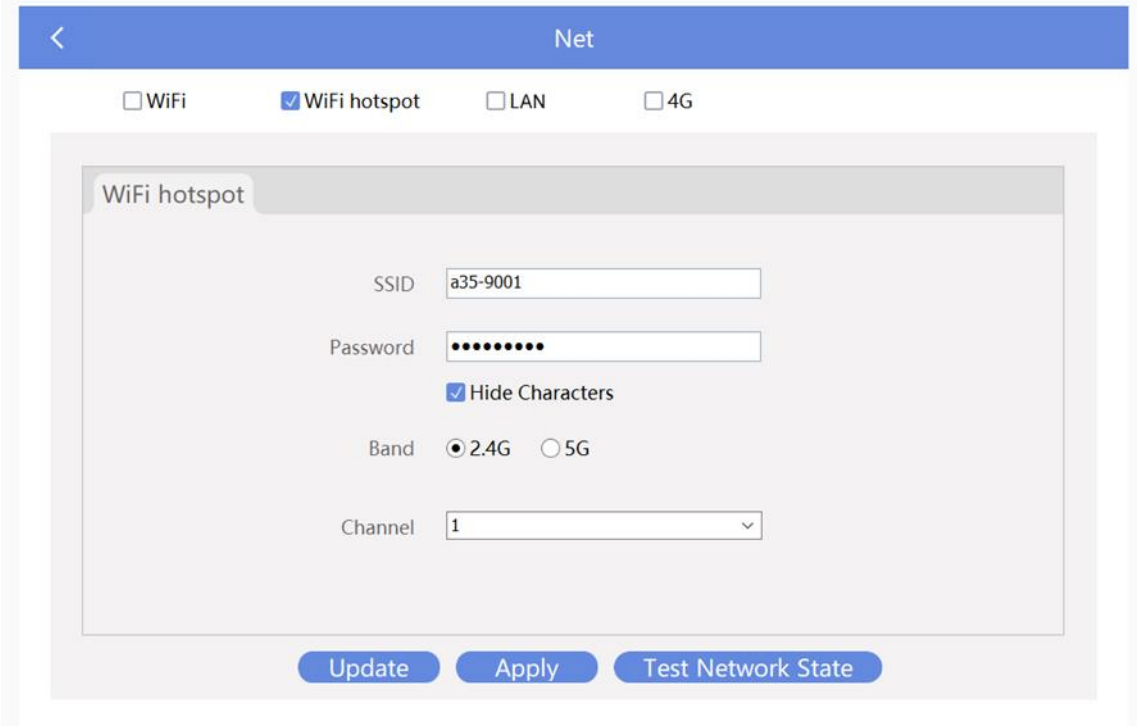


Figure 4.4-34Wi-Fi hotspot settings

- **LAN**

Click **Automatically Obtain IP Address**, or click **Use Following IP Address** and enter correct IP information, and then click **Apply**.

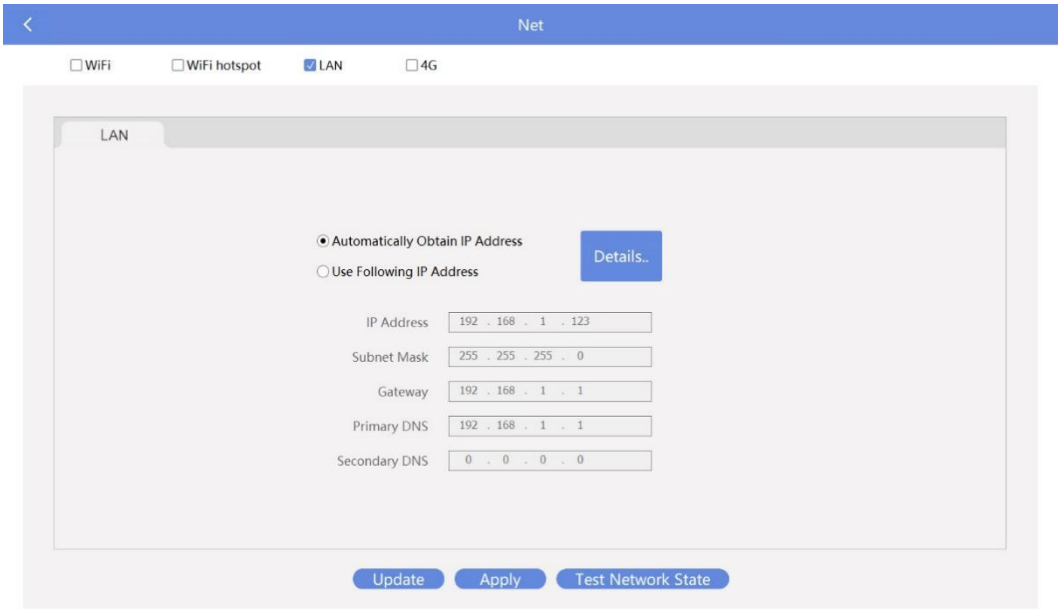


Figure 4.4-35LAN settings

- **4G**

After installing a 4G module and a SIM card on the terminal, select the **4G** check box, and click **Apply** to automatically configure APN, or click **Apply Config** to manually configure APN.

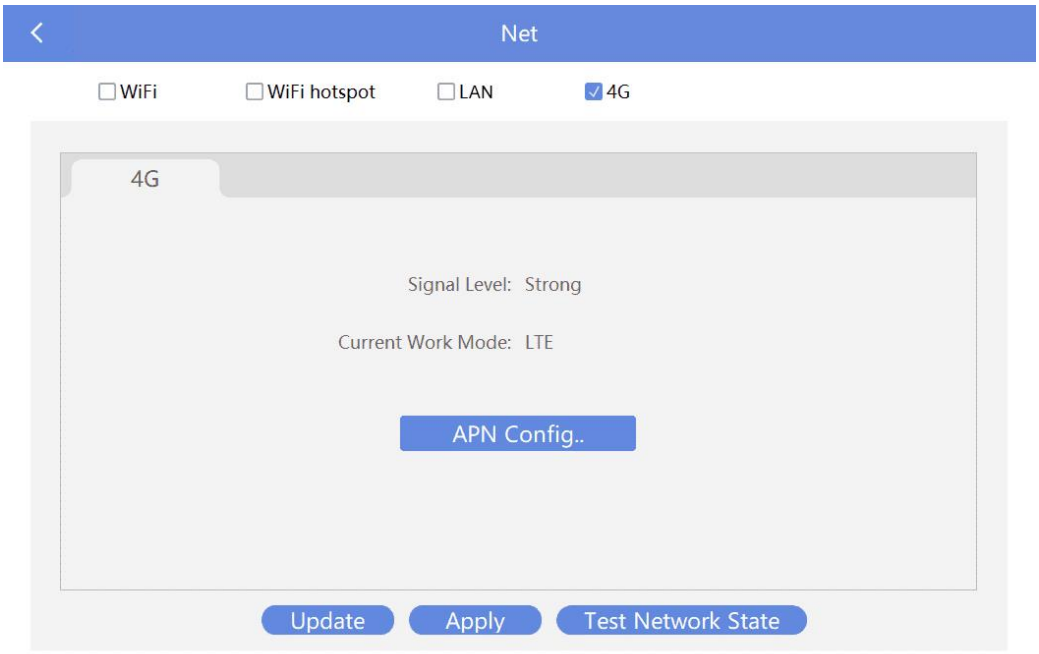


Figure 4.4-364G connection settings

Signal Switching

Click ⇋ to choose **Priority show of HDMI signals** or **Priority show playbox content**, and then click **Save**.

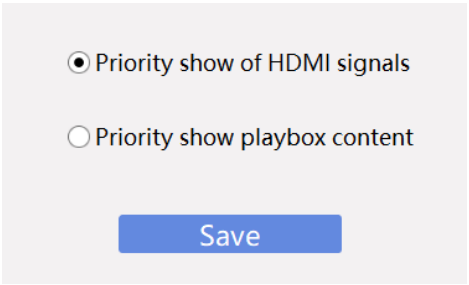


Figure 4.4-37 Signal switching

Device Language Settings

Click to enter the **Language Settings** page. Click the arrow and

select a language from the language list, and then click **Apply and Reboot**.

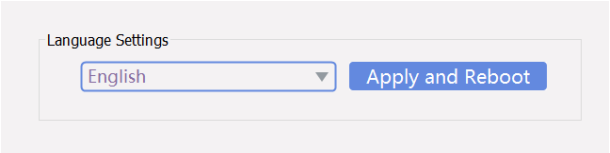


Figure 4.4-38Language settings

Advanced Settings

Click and enter the password "**168**" to enter the **Advance Settings** page, which has 7 sub-pages: **Screen Resolution**, **Control Area**, **Detect Receiver Card**, **Screen Parameter**, **Receiver Card Mapping**, **Internet** and **Other**. (Advanced settings are not supported in Cloud mode.)

- **Screen Settings**

  You can set the rotation angle and resolution of the screen.

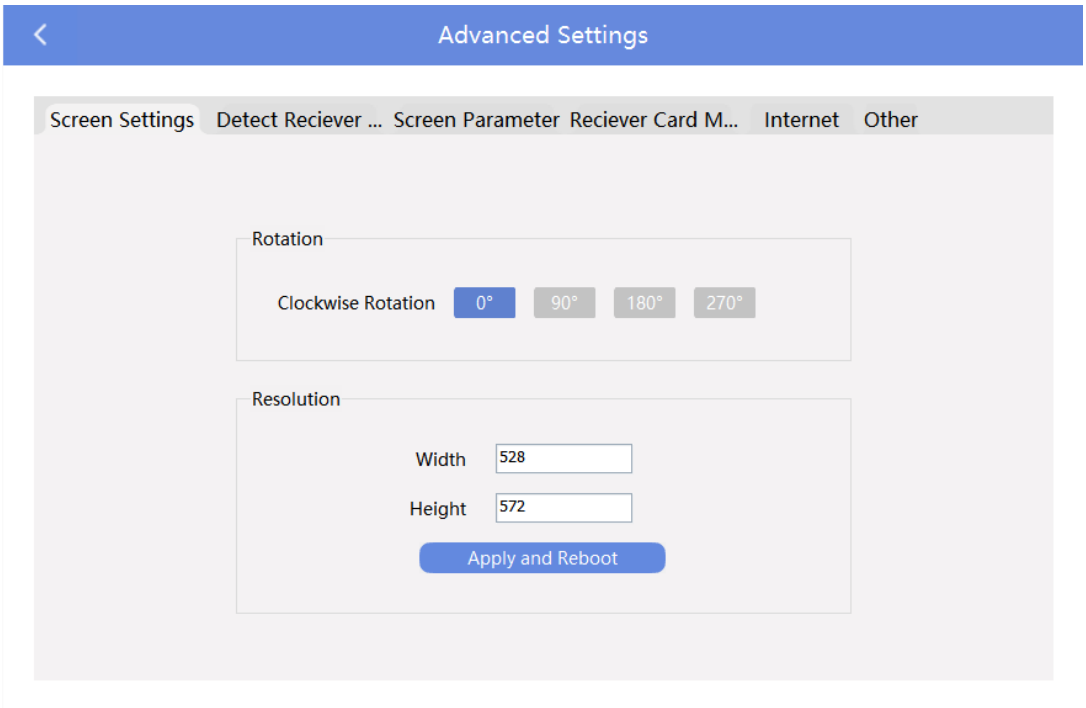


Figure 4.4-39Screen parameter settings

- **Control Area**

  You can set the starting point of the row, the starting point of the column, and the width and height of the control area of every port on

the terminal. After setting, click **Save.**

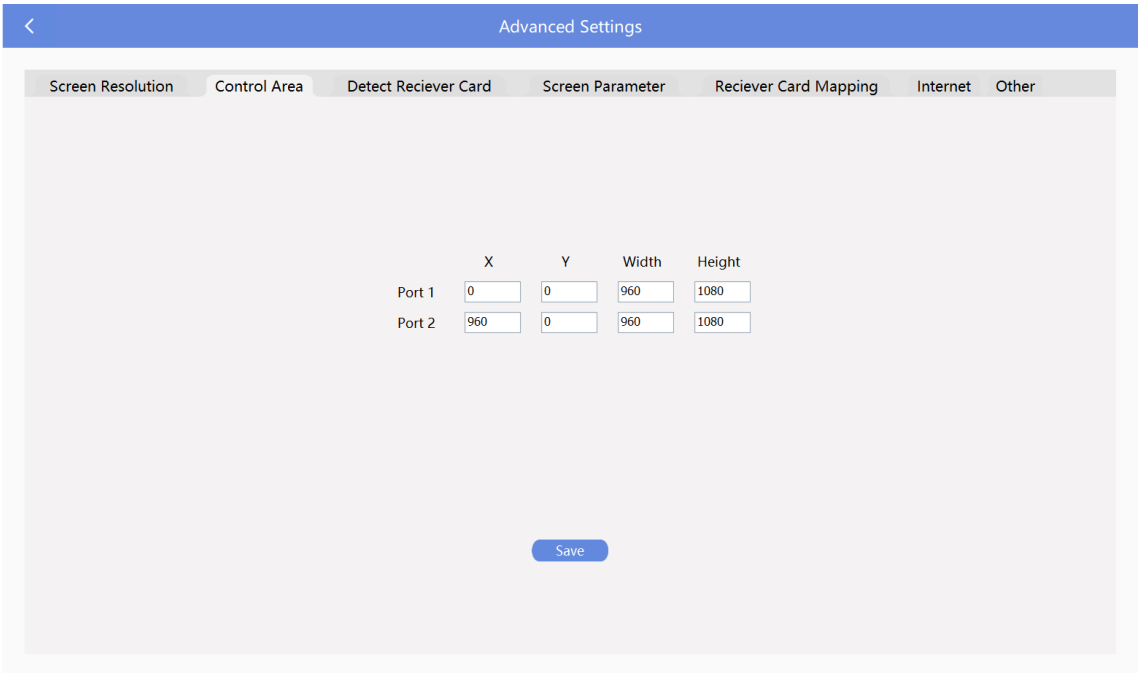
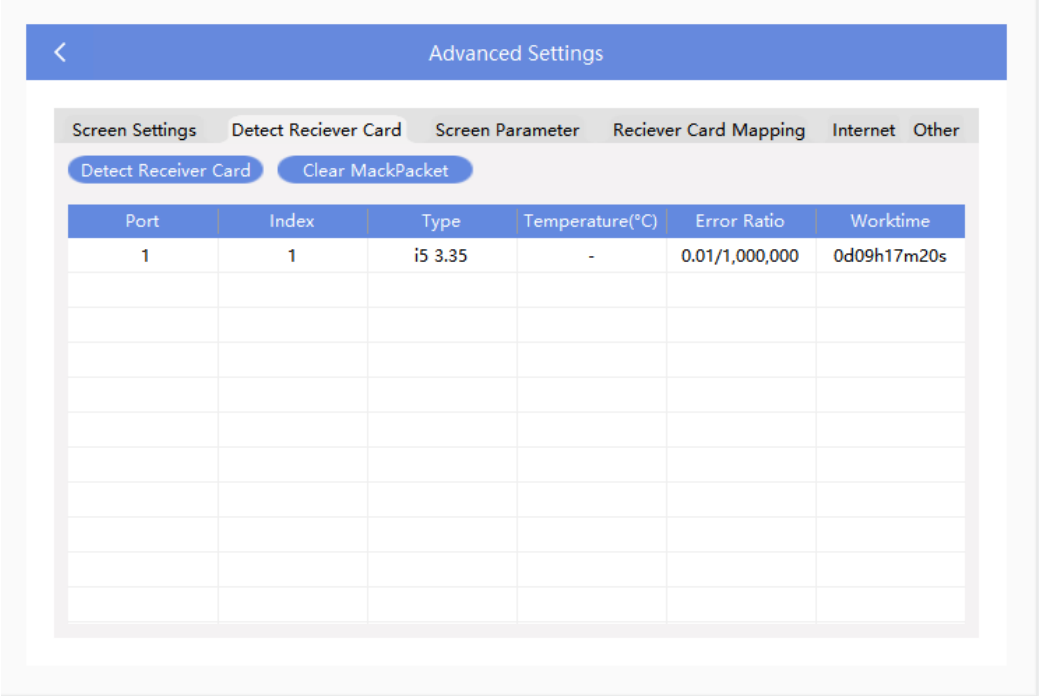


Figure 4.4-40Control area settings

- **Detect Receiver Card**

  You can detect the receiver card connected to the terminal, and view the following information of the receiver card: **Port**, **Type**, **Temperature**, **Error Ratio** and **Worktime**.



Detecting receiver cards

- **Screen Parameter**

You can set the receiver card parameter, HDMI input resolution (EDID) and the advanced parameter.

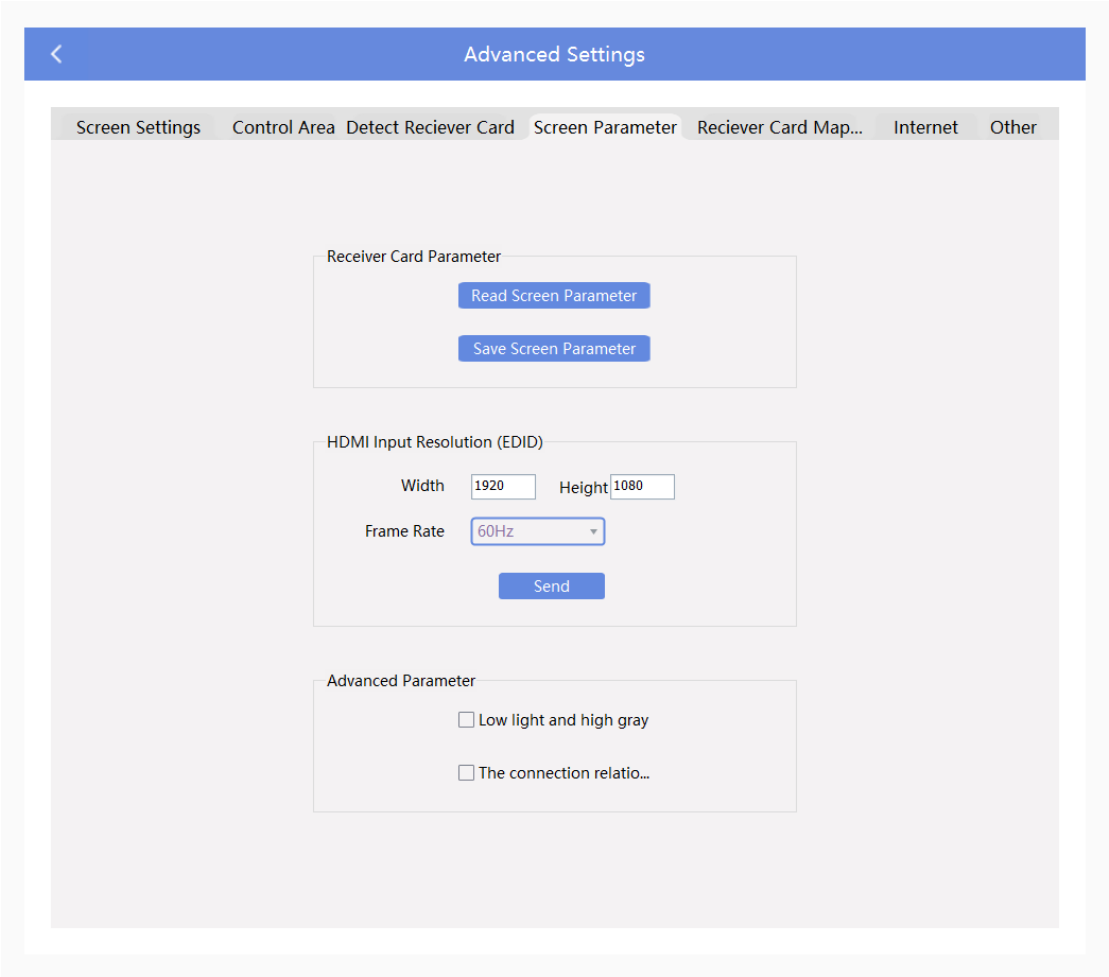


Figure 4.4-41Screen parameter

➢ **Receiver Card Parameter**

You can read back screen parameters and save them to the local file, or load local parameters and save them to the receiver card.

➢ **HDMI Input Resolution**

You can set the EDID of a player. The player with HDMI inputs supports this function.

➢ **Advanced Parameter**

You can turn on or off the grayscale improvement function and set mapping from the player.

- **Receiver Card Mapping**

You can set the mapping of the cabinets connected to the terminal.

You can open and save mappings. In the normal editing mode, you can add cabinets, delete cabinets, clear the mapping or set the fast mapping of the selected cabinets, and group or ungroup the selected cabinets; in the manual editing mode, you can successively left-click the cabinets to create the mapping, and right-click the cabinets to clear the mapping.

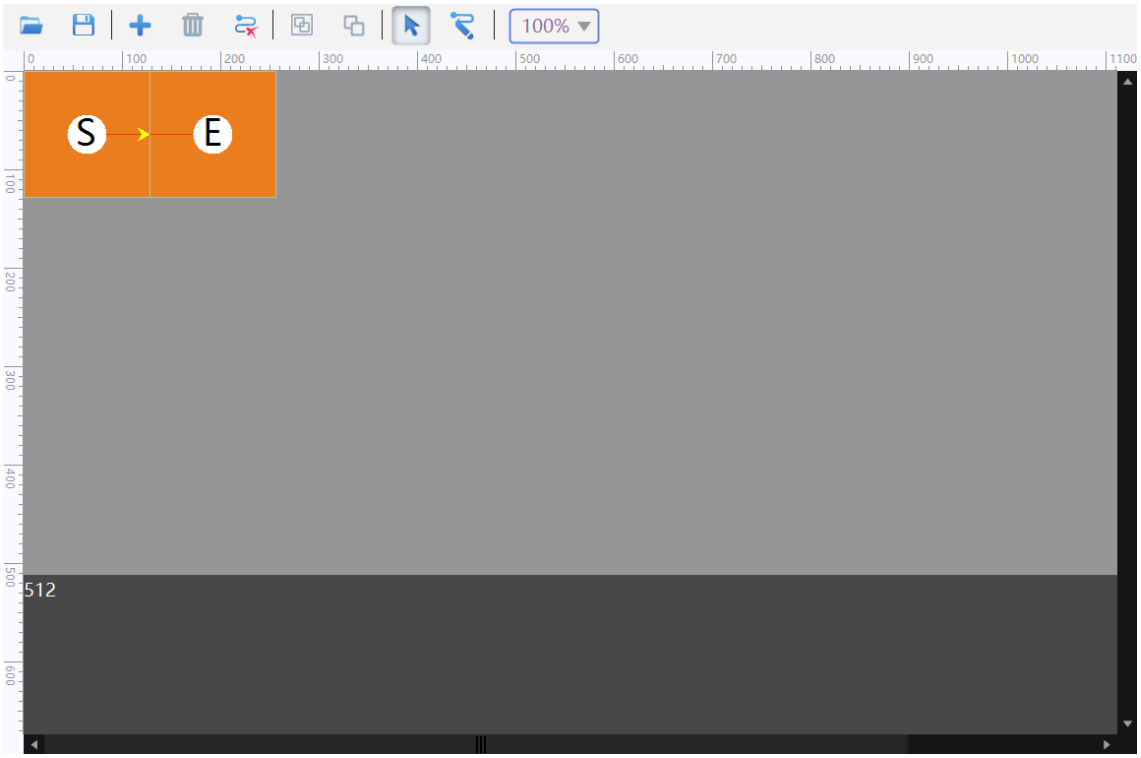


Figure 4.4-42Mapping - Painting Area

You can change the position and size of the cabinets.

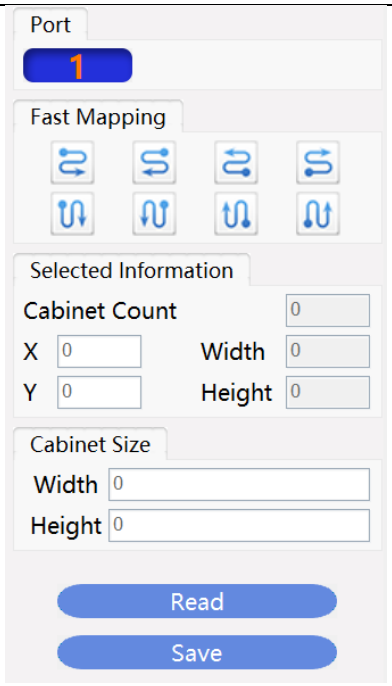


Figure 4.4-43Mapping - cabinet settings

- **Internet**

  Set the Internet account of the terminal, and you can manually add the terminal to the cloud platform.

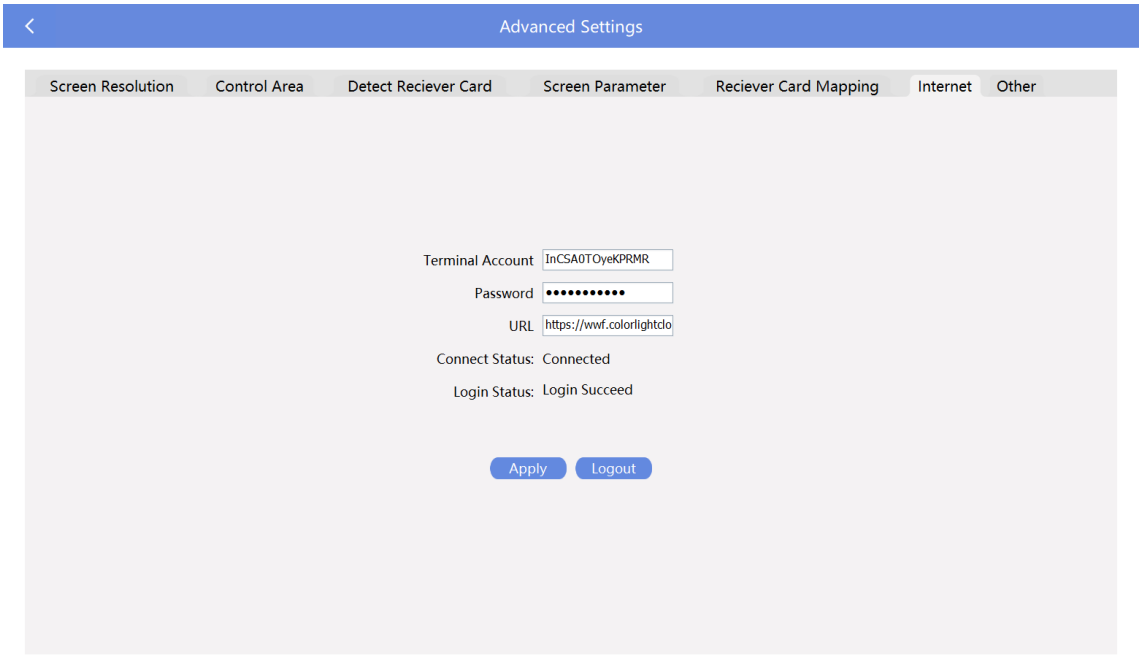


Figure 4.4-44Internet account settings

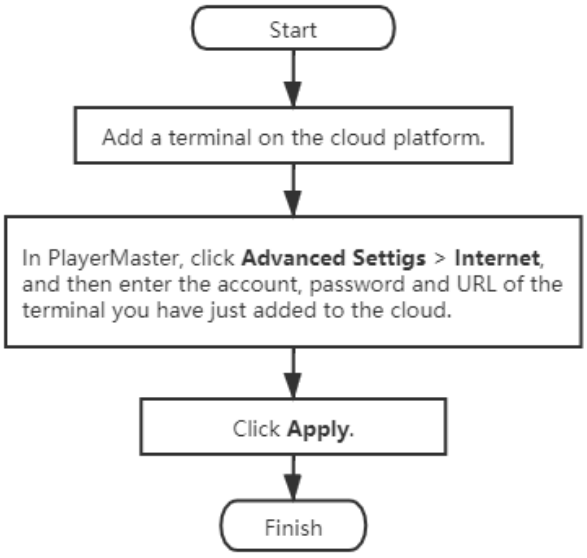


Figure 4.4-45Manually adding terminals to the cloud

Apart from the method mentioned above of adding terminals to the cloud, in the terminal tree, you can also directly drag the target terminal connected to the computer via a USB cable to a terminal group in the cloud.

- **Other**

  You can select or clear the **Show Toast** check box to set the display of program name on the screen. You can also click **Factory Restore** on this page.

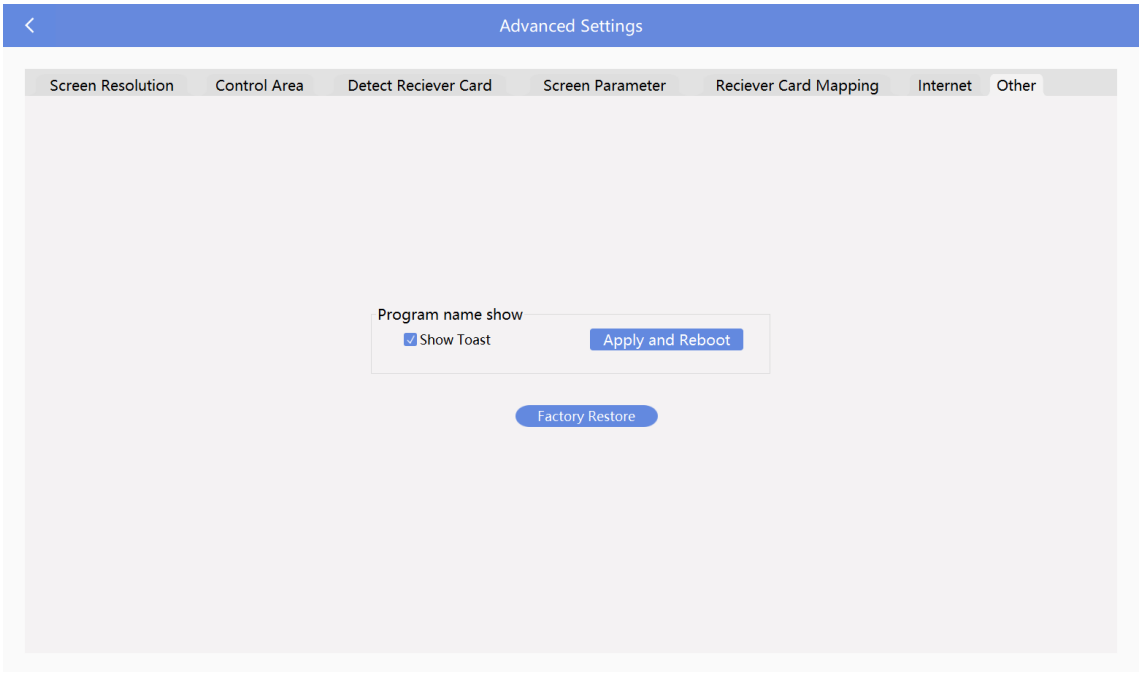


Figure 4.4-46Advanced Settings - other settings

4.5 Media

In Cloud mode, you can view and manage the uploaded media files under this account, and upload media files to the cloud.

4.5.1 My Media

You can view the uploaded media files under this account.

The **Attached Program** column displays the name of the cloud programs that contain the corresponding media files. The media files that have been used cannot be deleted.

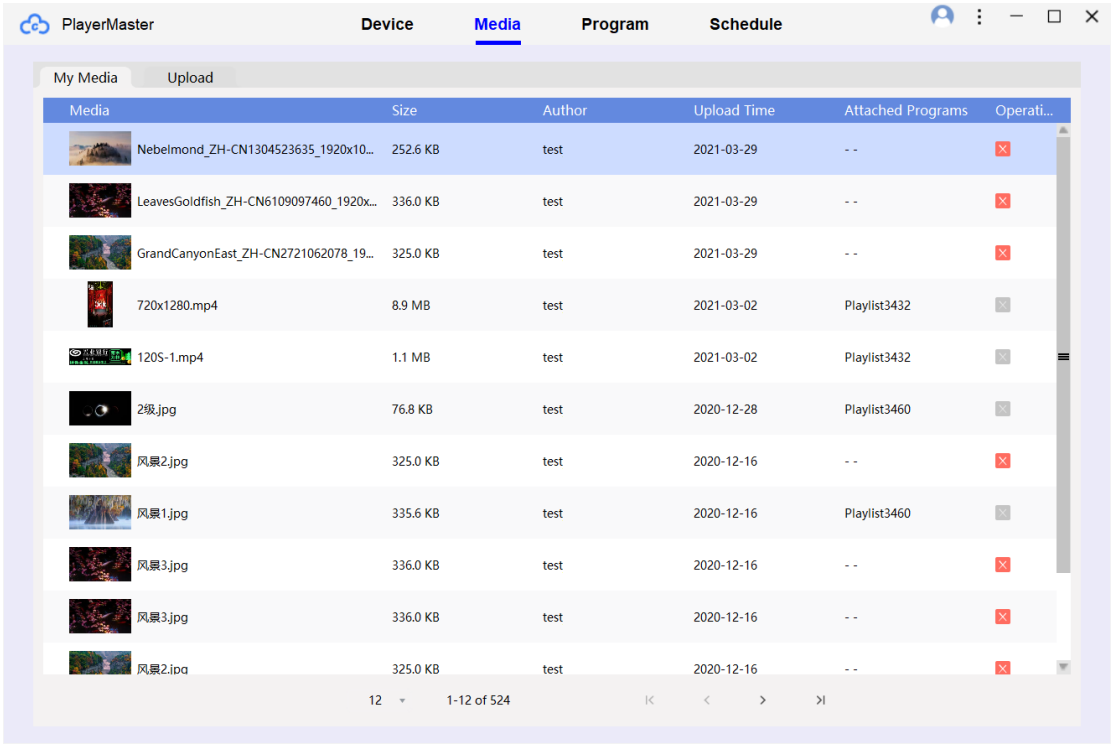


Figure 4.5-1 Media – My Media

4.5.2 Upload

You can upload the local media files to the cloud.

Image formats supported: jpeg, bmp, png, gif (Maximum size: 20M)

Video formats supported: mp4, avi, mpeg, mov, wmv (Maximum size: 20G)

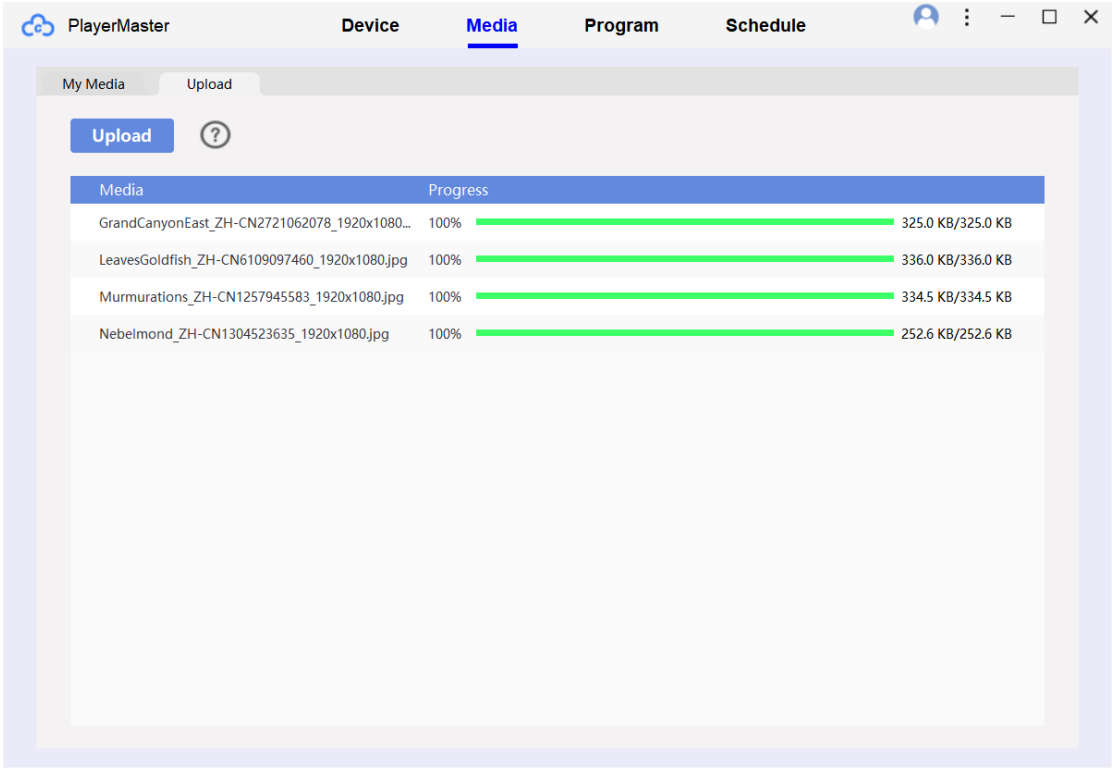


Figure 4.5-2 Upload media files

4.6 Program

On the **Program** page, you can view, add, edit, delete, publish and import programs.

4.6.1 Program List

In the program list, you can view **Name**, **Source**, **Resolution**, **Duration**, **Size**, and **Last Edit Time** of the program, and perform the following operations on the program: **Edit**, **Publish**, **Export** and **Delete**.

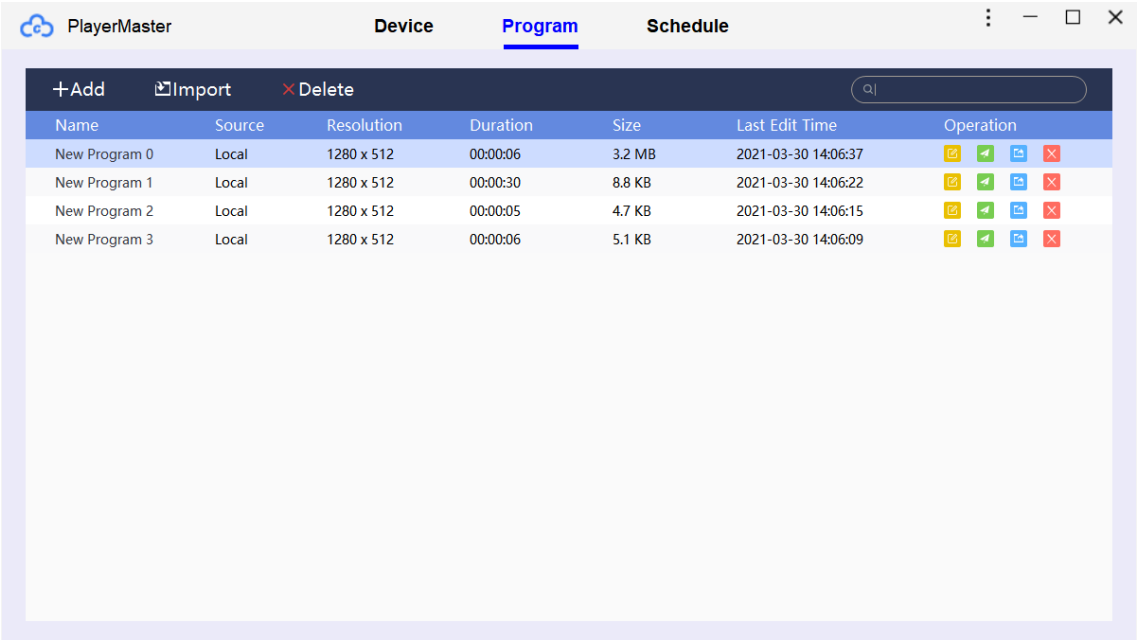


Figure 4.6-1 Program management page

- **Editing Programs**

Click to enter the **Program Editor** page, where you can edit the program.

- **Publishing Programs**

Click . In the pop-up dialog box, you can publish the program to a terminal or a terminal group.

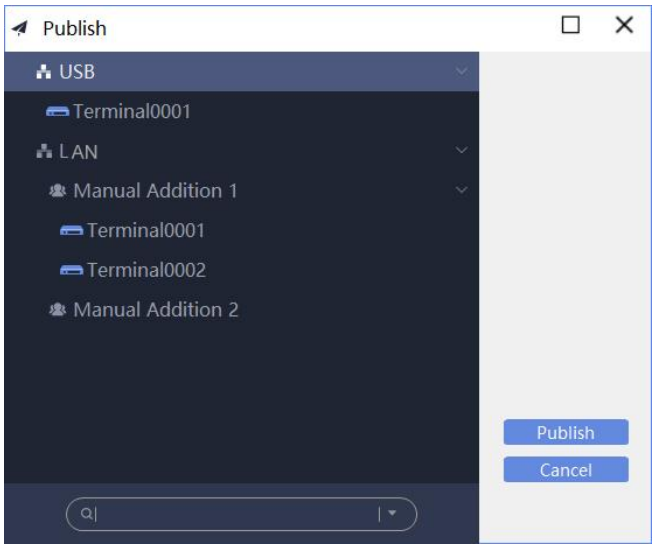


Figure 4.6-2 Publishing programs

- **Exporting Programs**

Click. In the pop-up dialog box, you can pack and export the program to a local file or the U-Disk.

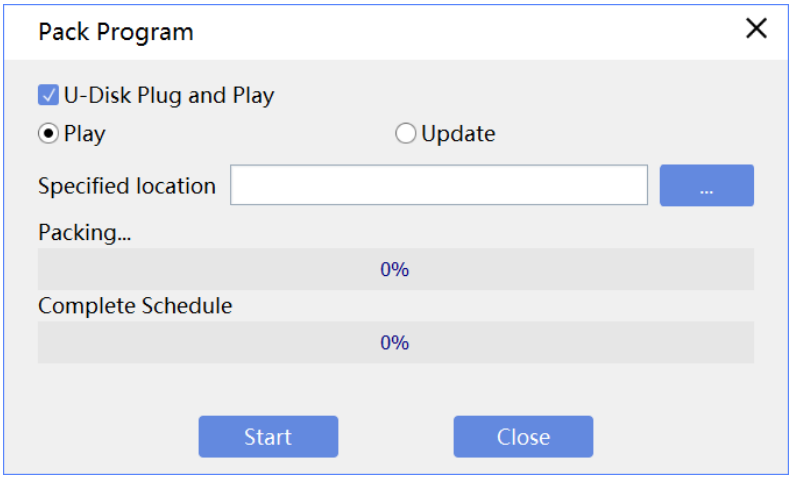


Figure 4.6-3 Program packing

You can select the **U-Disk Plug and Play** check box, choose **Play** or **Update,** and click ... to choose the U-Disk for the program to be packed and exported, and then click **Start.**

Or you can clear the **U-Disk Plug and Play** check box and click ... to choose a destination for the program to be packed and exported, and then click **Start**.

Operation	Function
U-Disk Plug and Play-Play, Specified location: U-Disk	Export the program to the U-Disk. The program will be played as soon as the U-Disk where programs are stored is inserted into the terminal. When the U-Disk is removed, the terminal will stop playing programs.
U-Disk Plug and Play-Update, Specified location: U-Disk	Export the program to the U-Disk. The terminal starts playing programs after copying the programs from the U-Disk. The U-Disk can be removed during playback.
Specified location: a local file	Export the program to a local file.
Specified location: U-Disk	Export the program to the U-Disk. The terminal cannot play programs when the U-Disk is inserted into it.

- **Deleting Programs**

Click ✕ to delete the program.

- **Renaming Programs**

Select the target program, right-click (or double-click) the program name to rename the program.

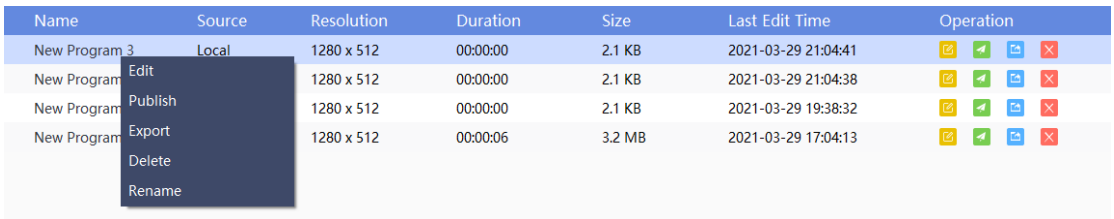


Figure 4.6-4 Renaming programs

4.6.2 Adding Programs

- **Adding Programs**

  Click +Add. In the pop-up dialog box, set the name, width and height of the program, and then click **OK** to enter the **Program Editor** page.

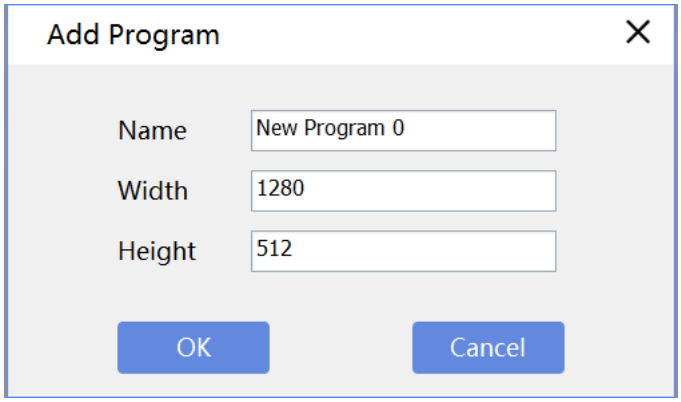


Figure 4.6-5 Adding programs

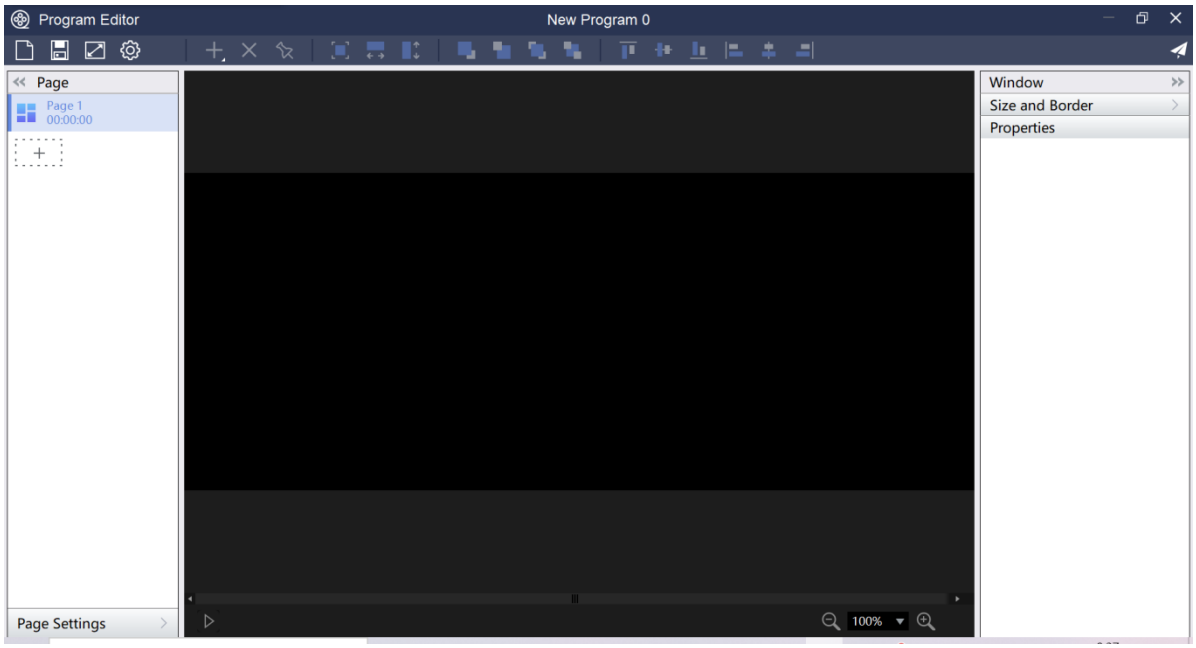


Figure 4.6-6 Editing programs

You can edit and publish the program on the **Program Editor** page.

- **Importing Programs**

  Click Import to import a local program.

4.6.3 Editing Programs

You can create different types of programs.

Program Editing Toolbar

You can create programs, save programs, and set program resolution, autosave, window layer and window position.

- **Creating Programs**

  Click to save the currently edited program and create a new program.

- **Saving Programs**

  Click to save the currently edited program.

- **Setting Program Resolution**

  Click to set program resolution.

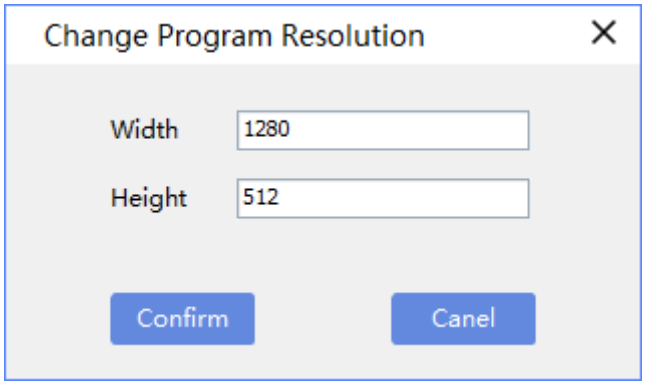


Figure 4.6-7 Setting program resolution

- **Settings**

  Click to perform software settings. You can turn on the **Transcoding when uploading program** and **Auto save when editing program** function.

- **Adding Windows**

  Click to add a new program window。

- **Deleting Windows**

  Click to delete the selected window.

- **Locking Windows**

  Click to lock the selected window.

- **Maximization**

  You can maximize the window horizontally, vertically, and both horizontally and vertically.

Operation	Function
Maximization	Maximize the size of the window.
Horizontal Maximization	Maximize the width of the window.
Vertical Maximization	Maximize the height of the window.

- **Window Layer Settings**

Operation	Function
Move Up	Move the selected content upward.
Move Down	Move the selected content downward.
Move to Top	Move the selected content to the top layer.
Move to Bottom	Move the selected content to the bottom layer.

- **Window Aligning**

Operation	Function
Align to Top	Align more than one window with the top edge.
Vertical Center	Vertically center-align more than one window.
Align to Bottom	Align more than one window with the bottom edge.
Align to Left	Left-align more than one window.
Horizontally	Horizontally center-align more than one window.
Align to Right	Right-align more than one window.

- **Shortcut Keys**

Key	Function
Tab	Switch windows.
Ctrl + Left-click	Select more than one window.
Ctrl + A	Select all windows.

Publishing Programs

Click to publish the program to a terminal or a terminal group.

Program Page List

You can create more than one page, and manage them.

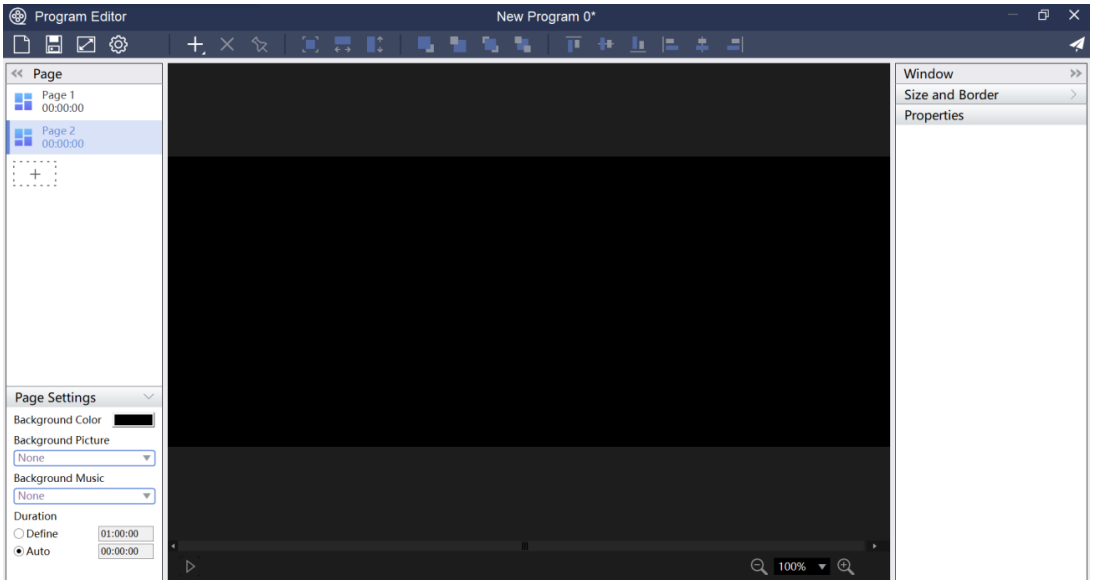


Figure 4.6-8 Program page window

- **Program Page**

  Right-click the page, and the operation menu is displayed.

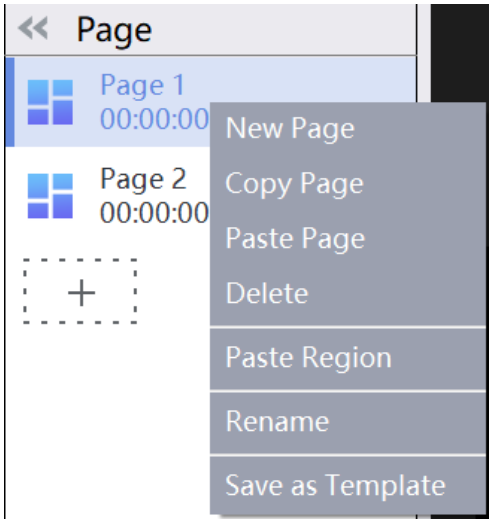


Figure 4.6-9 Right-click menu

Option	Function
New Page	Create a new page.
Copy Page	Copy the content of the selected page.
Paste Page	Create a new page next to the selected page and paste the copied content into the page.
Delete	Delete the selected page.
Paste Region	Paste the copied window to the selected page.
Rename	Rename the page.
Save as Template	Save the page as a template in a local file.

You can click + to create a new page or import a template.

- **Page Settings**

  You can set **Background Color**, **Background Picture**, **Background Music** and **Duration** on the selected page.

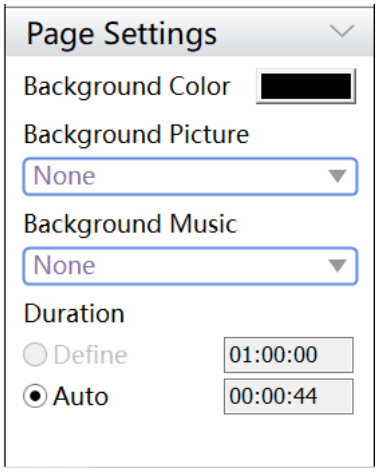


Figure 4.6-10Page settings

Option	Function
Background Color	Set the background color of the page.
Background Picture	Select a background picture for the page.
Background Music	Select a background music for the page.
Duration-Define	Set the playback duration of each page when there is more than one page on the page list.
Duration-Auto	Automatically compute the playback duration of each page based on the content.

Window List

Add windows to the page. Right-click the window name, and the operation menu is displayed.

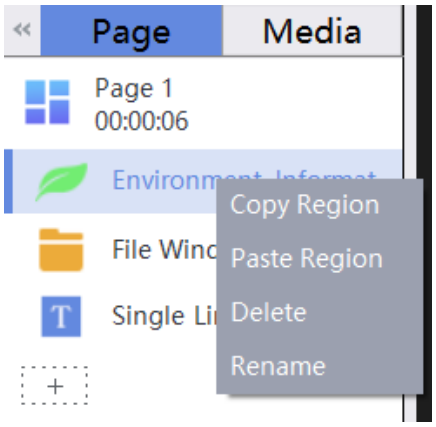


Figure 4.6-11Right-click menu

Option	Function
Copy Region	Copy the window.
Paste Region	Paste the window to the top layer of the current page.
Delete	Delete the window.
Rename	Rename the window.

Media

In Cloud mode, you can view cloud media files and use them to make programs.

You can select a media file in the media list, and drag it to the program.

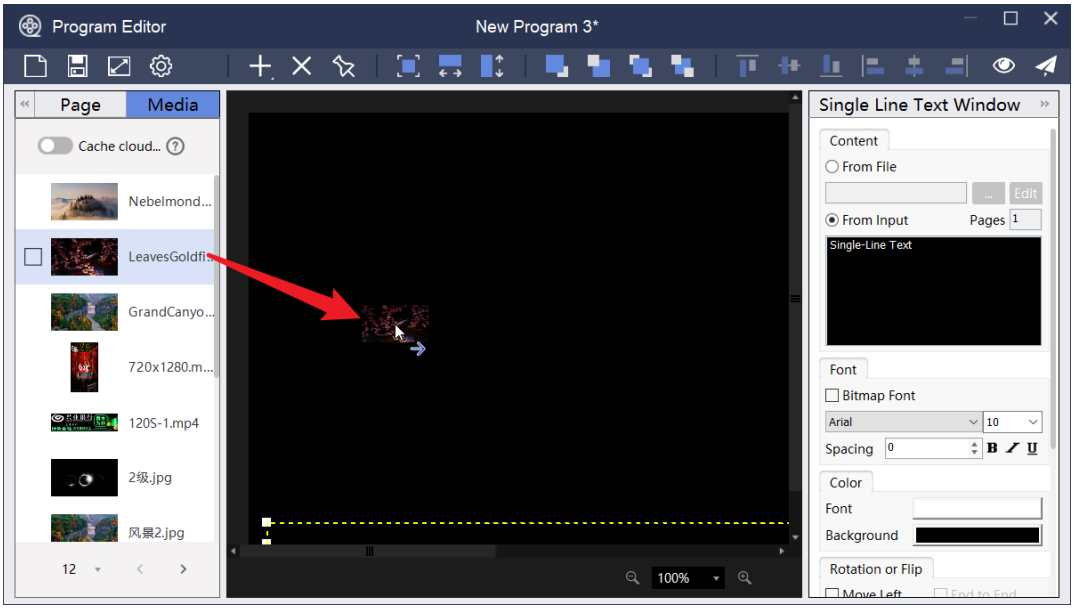


Figure 4.6-12Add media files

Canvas

You can edit and preview the program on the canvas.

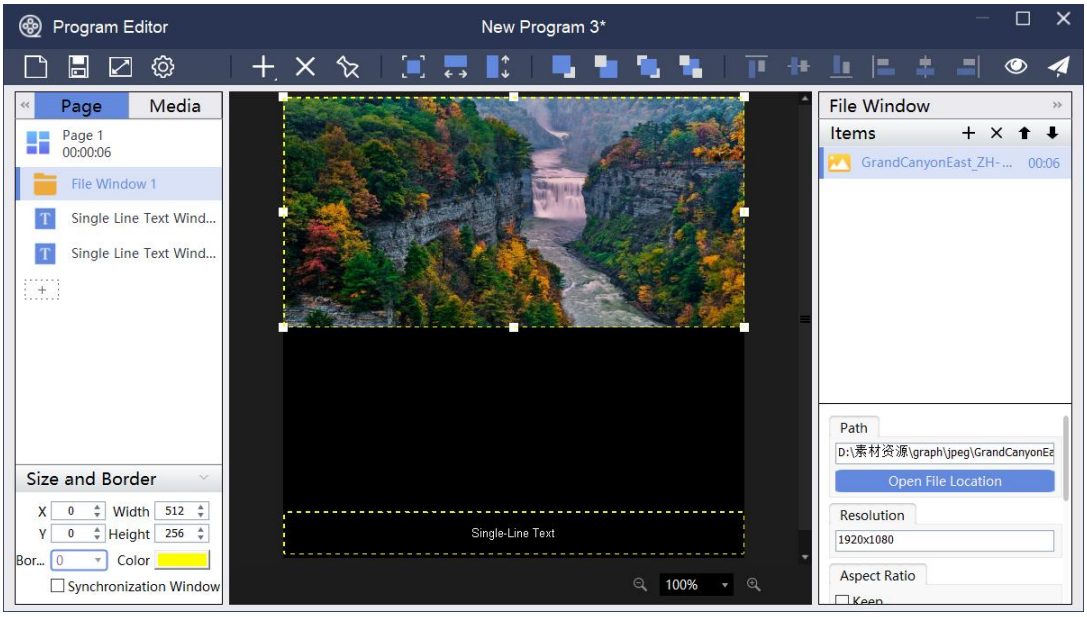


Figure 4.6-13Canvas

Click in the upper-right corner of the page to preview the program.

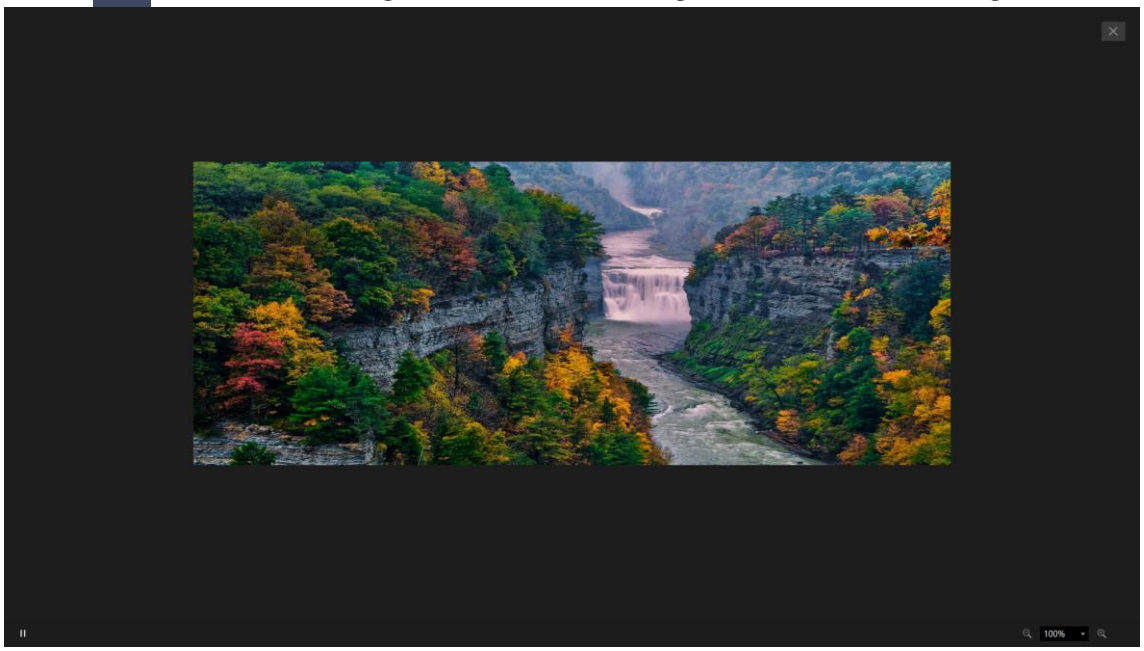
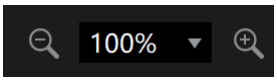


Figure 4.6-14 Preview programs

Click in the bottom-left corner to stop preview.

You can use the size adjustment tool  to scale up or down the canvas.

Window Settings

You can set the size and border of the window, and set synchronization window.

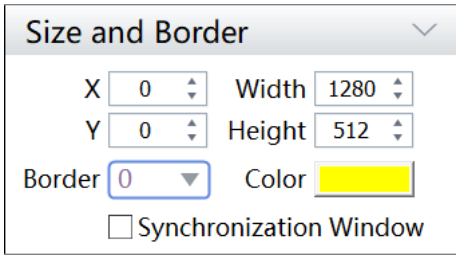


Figure 4.6-15Window settings

Option	Function
X	Set the starting point of the window in the horizontal direction.
Y	Set the starting point of the window in the vertical direction.
Width	Set the width of the window.
Height	Set the height of the window.
Border	Set the thickness of the window border.
Color	Set the color of the window border.
Synchronization Window	The file window of images or videos can be set as the synchronization window.

4.6.4 Program Window

You can create different types of program window.

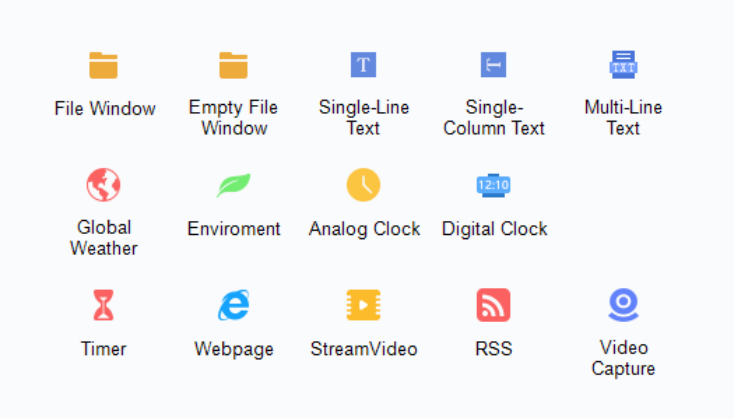


Figure 4.6-16Type of program window

File Window

Click **File Window** to add videos, images, Gif, Txt, RTF, Word, PowerPoint and Excel.

- **Item Management**

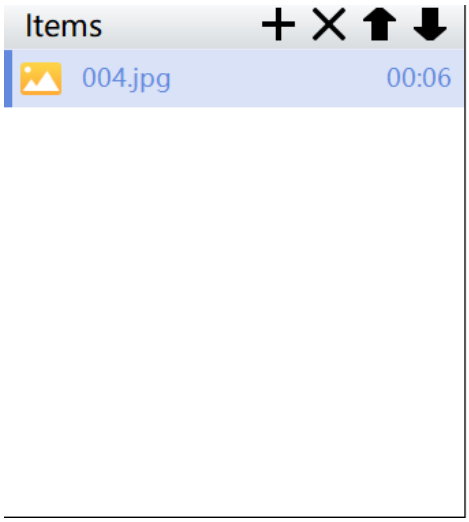


Figure 4.6-17Setting items in the file window

Click + to add an item.

Click × to delete the selected item.

Click ↑ to move up the item to change its playback order.

Click ↓ to move down the item to change its playback order.

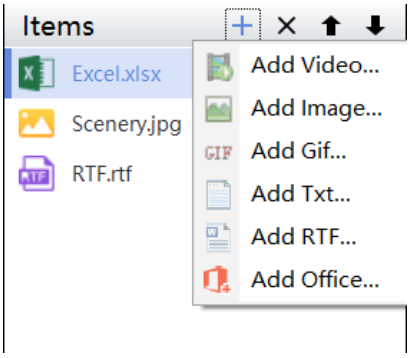


Figure 4.6-18Managing items in the file window

- **Video Item**

  You can view video details, correct video duration, adjust preview progress, view video resolution and keep the aspect ratio of the video.

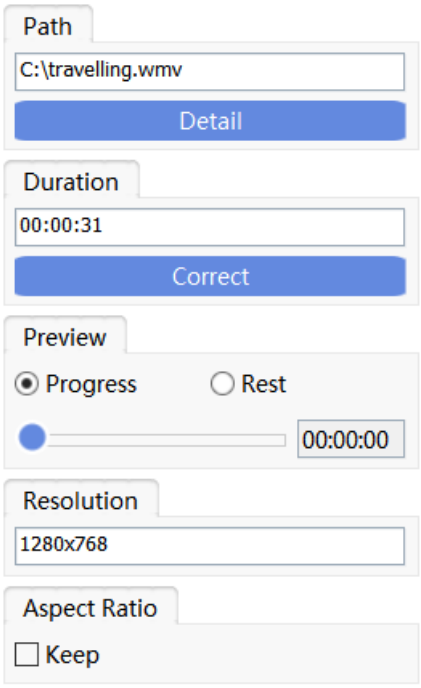


Figure 4.6-19Setting video items in the file window

Add a video, and its playback duration and resolution are automatically displayed.

Click Detail to view the detailed information of the video.

Click **Correct** to change the playback duration of the video.

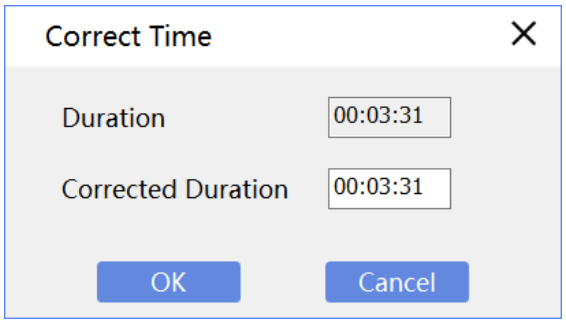


Figure 4.6-20Correcting playback duration of video items

Select the **Keep** check box to keep the aspect ratio of the video.

Clear the **Keep** check box to make the video fill the window.

- **Image Item**

  You can change images, view image resolution, and set aspect ratio and effect.

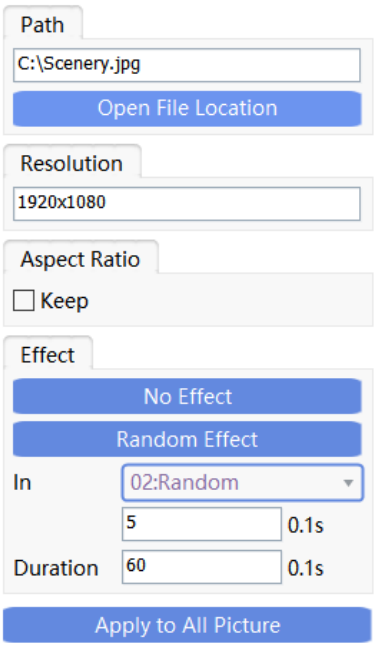


Figure 4.6-21Setting image item properties

Click Open File Location to change the image, and then its resolution is automatically displayed.

Select the **Keep** check box to keep the aspect ratio of the image.

Clear the **Keep** check box to make the image fill the window.

Click No Effect to set no effect.

Click Random Effect to set a random effect from the effect list. Click ▼ next to **Random Effect** to select an effect from the **Effect** list.

In the **In** field, enter a value to set effect duration.

In the **Duration** field, enter a value to set the playback duration of the image.

Click Apply to All Picture to apply the setting of aspect ratio and effect to all images in the window.

- **Gif Item**

You can change the Gif file, and set play times and aspect ratio.

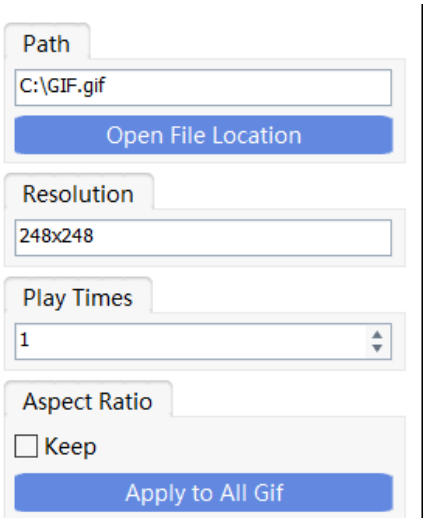


Figure 4.6-22Setting Gif item properties

Click Open File Location to change the Gif file.

In the **Play Times** field, enter a value or click to set play times of the Gif file.

Select the **Keep** check box to keep the aspect ratio of the Gif file.

Clear the **Keep** check box to make the Gif file fill the window.

Click Apply to All Gif to apply the setting of aspect ratio to all Gif files.

- **Txt Item**

  You can set the property of Txt files.

  Click **Edit** to edit the file.

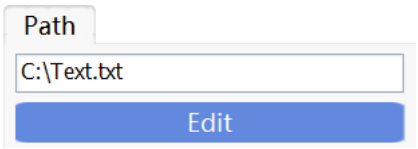


Figure 4.6-23Editing Txt files

Set **Font**, **Color** of the font and background, and **Inverse**.

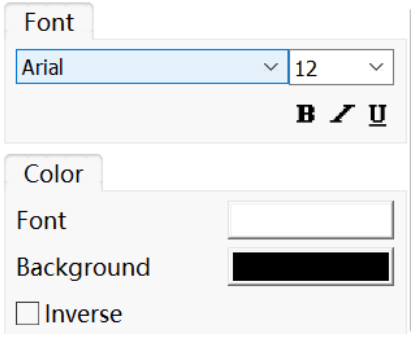


Figure 4.6-24Setting font and background of Txt items

Select or clear the **Move Up** or **Center** check box to set the display effect of the text.

If you select the **Move Up** check box, you can select the **End to End** check box, and set **Interval**, **Scroll Speed** and **Duration** of the text.

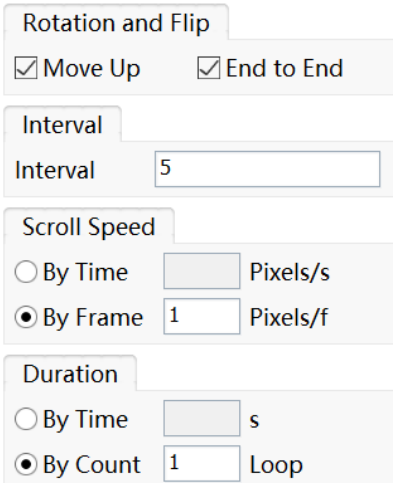


Figure 4.6-25Setting display effect of Txt items

- **RTF Item**

  You can edit the RTF file, and set the background color and the display effect of the text.

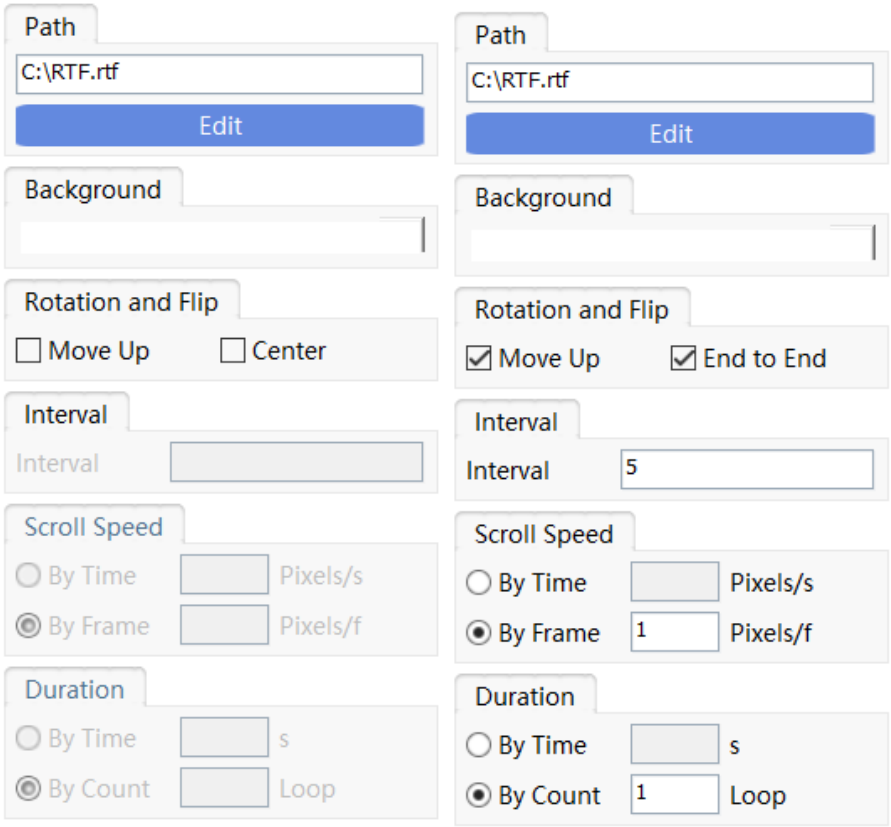


Figure 4.6-26Setting RTF item properties

- **Office Item**

  You can edit the Word file, view the number of its pages, and set **Background** and **Border**.

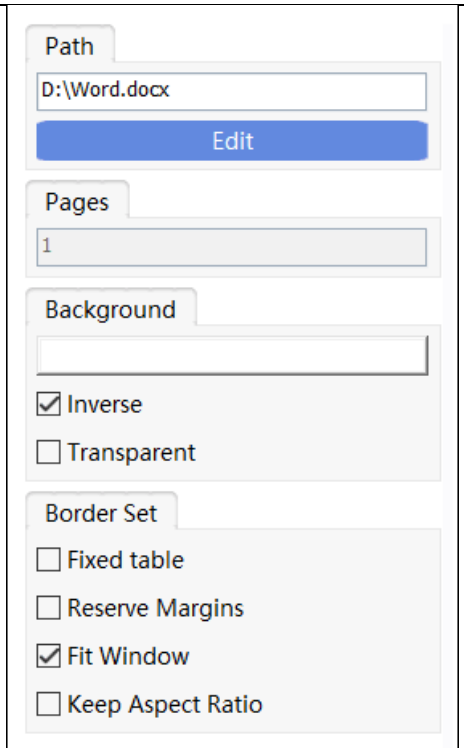


Figure 4.6-27Setting Word item properties

You can edit the Excel file, view the number of its rows and columns, and set **Background** and **Show Style**.

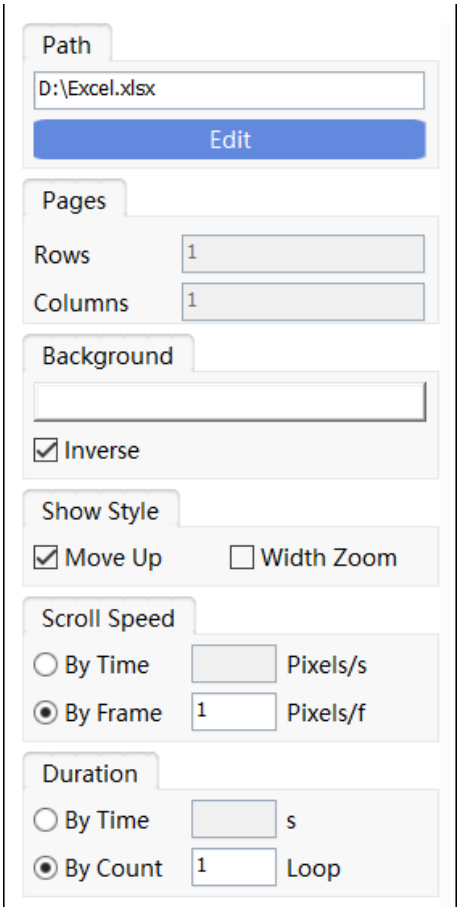


Figure 4.6-28Setting Excel item properties

You can edit the PowerPoint file, view the number of its pages, and set **Aspect Ratio**.

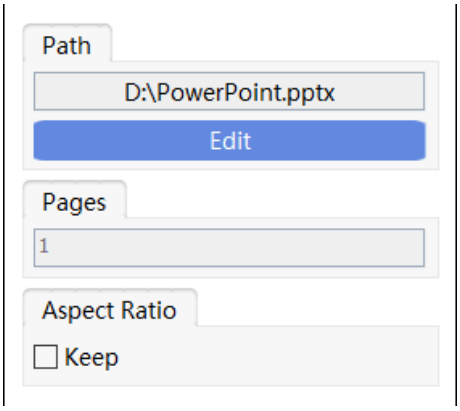


Figure 4.6-29Setting PPT item properties

Empty File Window

Empty file windows are similar to file windows, and it is available in Cloud mode.

Single-line Text

The single-line text window displays the text in the single-line form.

Choose a content source:

From File: Click ... to select a text file, and click **Edit** to edit the text.

From Input: Enter the text manually.

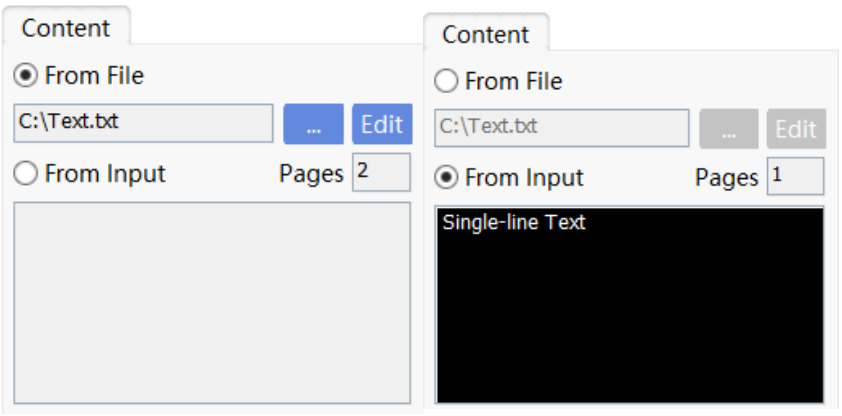


Figure 4.6-30Setting content of single-line texts

Set **Font**, and **Color** of the font and background.

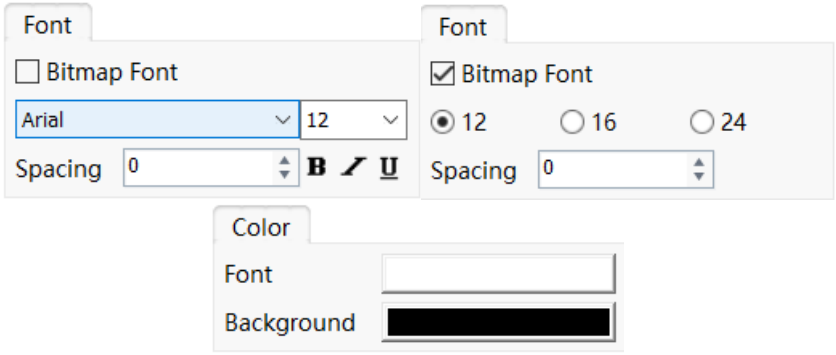


Figure 4.6-31Setting font and color of single-line texts

Select the **Move Left** check box to make the text move left continuously.

Clear the **Move Left** check box to achieve page-turning effect (default).

If the **Move Left** check box is selected, you can select the **Glaring** check box

to give the texts a glaring effect, which is supported for SimSun and SimHei fonts.

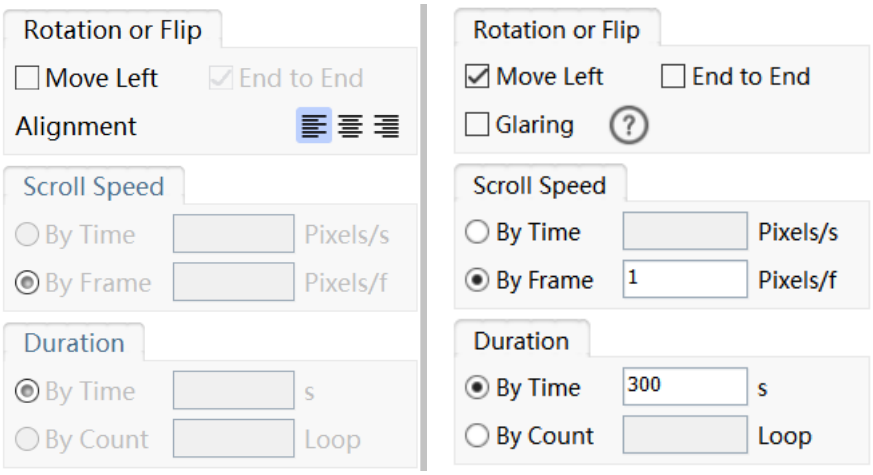


Figure 4.6-32Setting display effect of single-line texts

Single-column Text

The single-column text window displays the text in the single-column form.

Choose a content source:

From File: Click ... to select a text file, and click **Edit** to edit the text.

From Input: Enter the text manually.

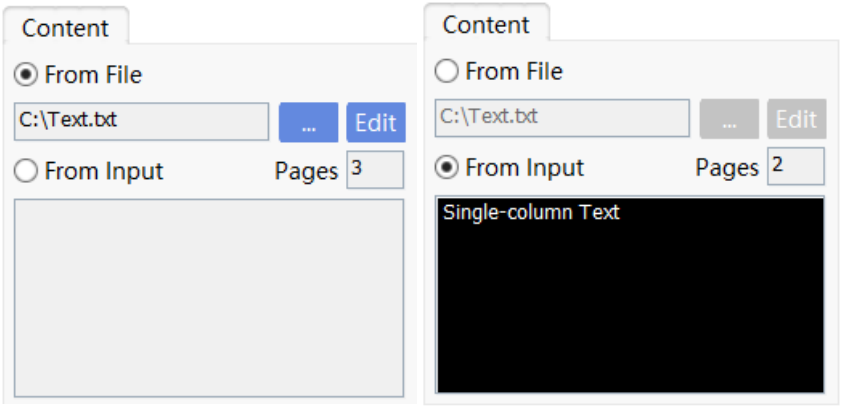


Figure 4.6-33Setting content of single-column texts

Set **Font**, and **Color** of the font and background.

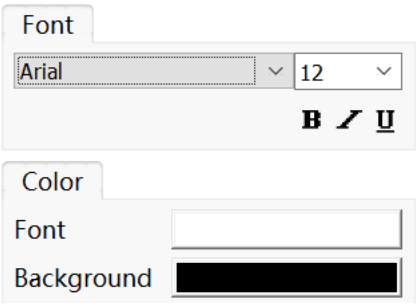


Figure 4.6-34Setting font and color of single-column texts

Select the **Move Top** check box to make the text move top continuously.

Clear the **Move Top** check box to achieve page-turning effect (default).

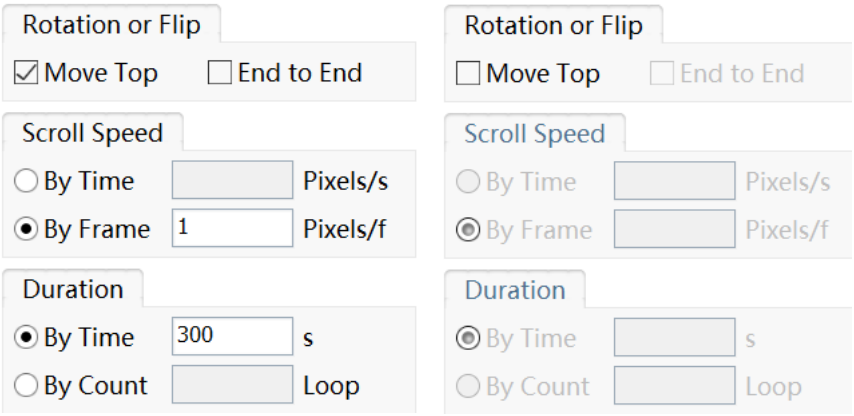


Figure 4.6-35Setting display effect of single-column texts

Multi-line Text

The multi-line text window displays the text in the multi-line form.

Click Edit. In the pop-up dialog box, you can enter the text, load a Txt, RTF or Word file, set the line space, font, font color and background color, and export the text as RTF format to a local file.

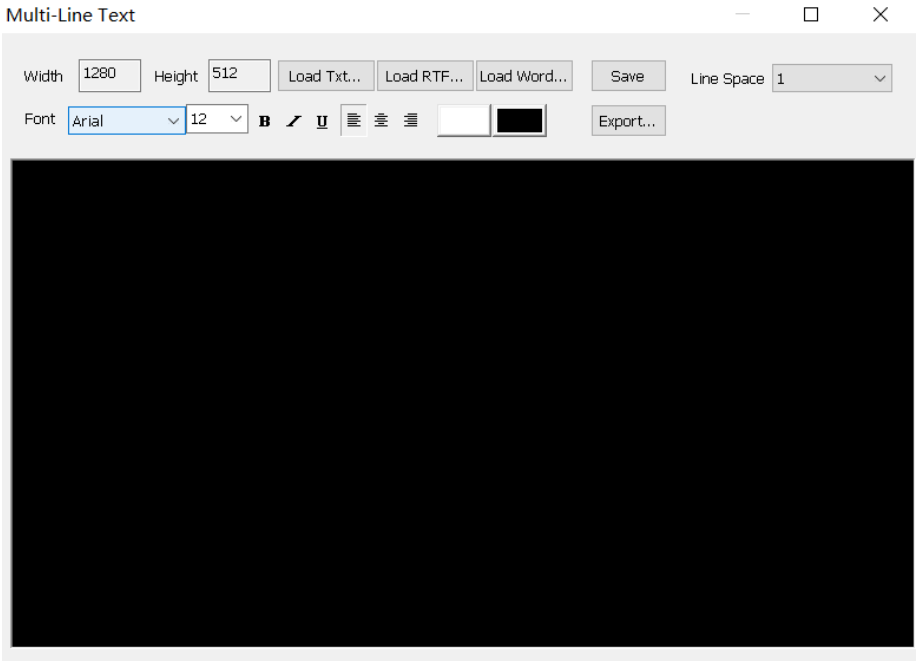


Figure 4.6-36Editing multi-line texts

Set the background color of the multi-line text window.

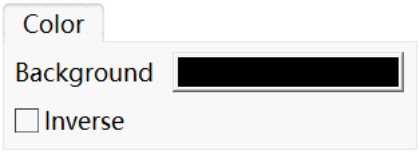


Figure 4.6-37Setting background color of multi-line texts

Select the **Move Up** check box to make the text move up continuously.

Clear the **Move Up** check box to achieve page-turning effect (default).

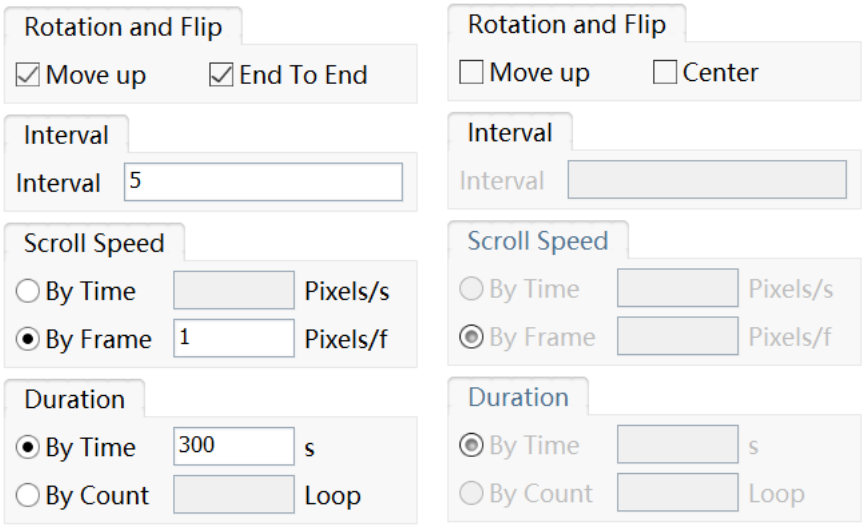


Figure 4.6-38Setting display effect of multi-line texts

Global Weather

The global weather window displays the real-time weather information of a city in the globe. The window can normally display the weather information only when the terminal is connected to the network.

In the **City** field, enter a city name, select a city in the drop-down list, and then click **Get** to get the weather information of the selected city.

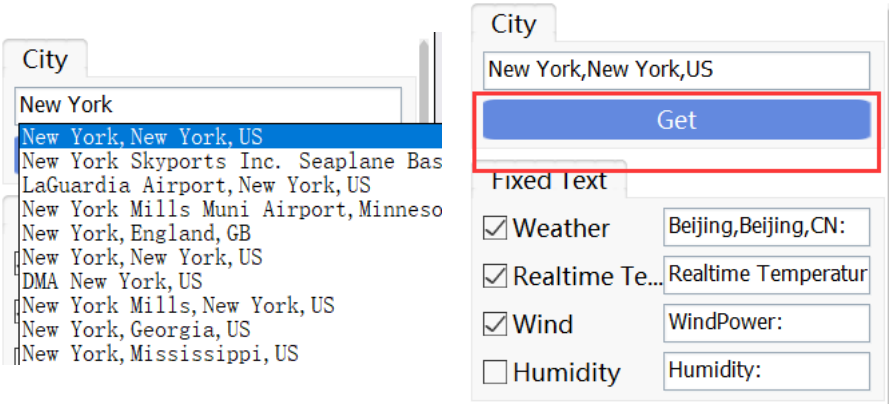


Figure 4.6-39Searching for a city

Select displayed information: **Weather**, **Realtime Temperature**, **Wind** and **Humidity**. You can also modify the fixed text.

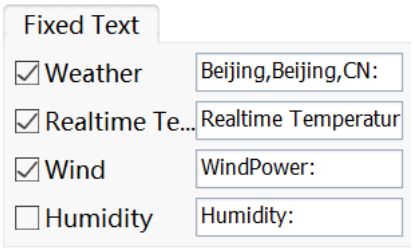


Figure 4.6-40Setting displayed information

Set **Font** and **Background**.

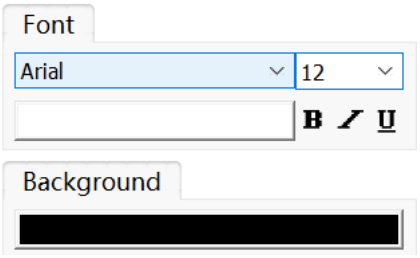


Figure 4.6-41Setting font and background of global weather information

Set **Duration** and **Move Type**.

If you select the **Multi-Line** check box, you can choose **Page** or **Move Up** to set the display effect, and click **By Time** or **By Frame,** and then enter a value of pixels to control the scrolling speed.

If you clear the **Multi-Line** check box, you can choose **Page** or **Move Left** to set the display effect, and enter a value in the **Speed** and **Stay** field to control the scrolling speed.

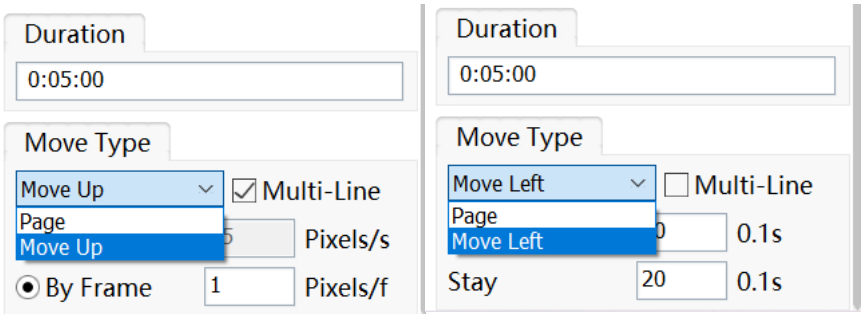


Figure 4.6-42 Setting display effect of global weather information

Environment

The environment information window has 5 types: **Temperature**, **Humidity**, **Smoke**, **Noise** and **Air**. The window can normally display environmental data only when the terminal is connected to the related sensor.

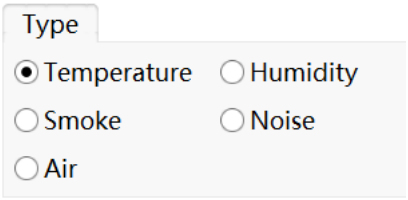


Figure 4.6-43Type of environment window

You can select a type of environment window, and set **Duration**.

- **Temperature**

  The temperature window displays the real-time ambient temperature. You can set **Font**, **Color** and **Fixed Text**, and select or clear the **Show as Fahrenheit** check box to change the unit of temperature.

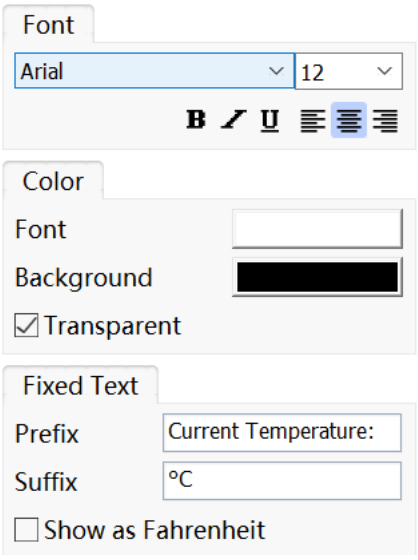


Figure 4.6-44Temperature window

- **Humidity**

  The humidity window displays real-time ambient humidity. You can set **Font**, **Color** and **Fixed Text**.

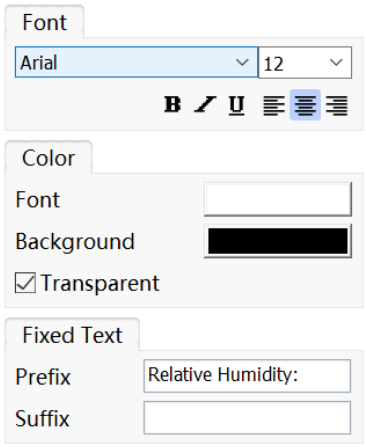


Figure 4.6-45Humidity window

- **Smoke**

  The smoke window displays the smoke value of the environment. You can set **Font**, **Color**, **Threshold**, **Over threshold display**, **Not over the threshold display**.

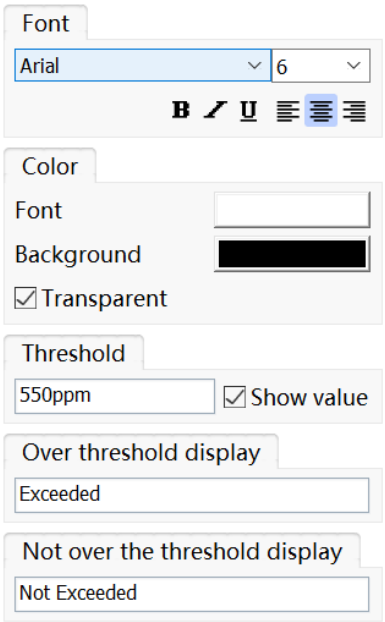


Figure 4.6-46Smoke window

- **Noise**

  The noise window displays the value of real-time ambient noise. You can set **Content**, **Text Position**, **Fixed Text**, **Font**, and **Color**.

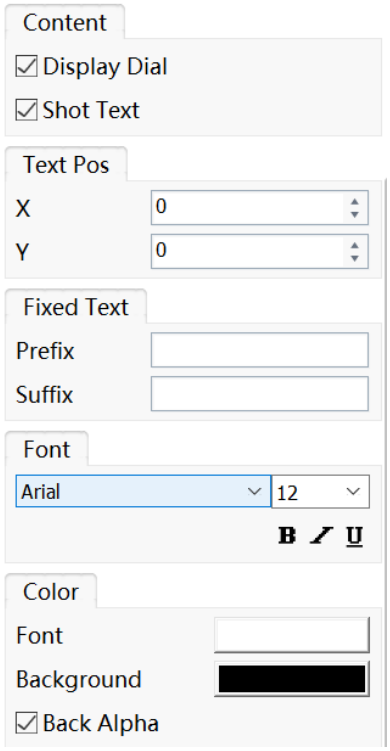


Figure 4.6-47Noise window

- **Air**

  The air window displays the information of air quality. You can set **Font**, **Color** and **Fixed Text**.

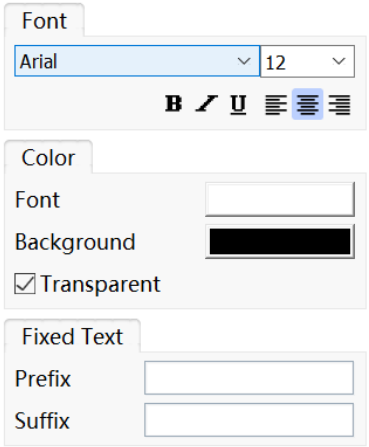


Figure 4.6-48Air window

Analog Clock

The analog clock window stimulates the clock to display time.

You can set **Time Zone**, **Duration**, **Background**, **Hour Scale**, **Minute Scale**, **Hour Color**, **Fixed Text**, **Date** and **Week** of the clock.

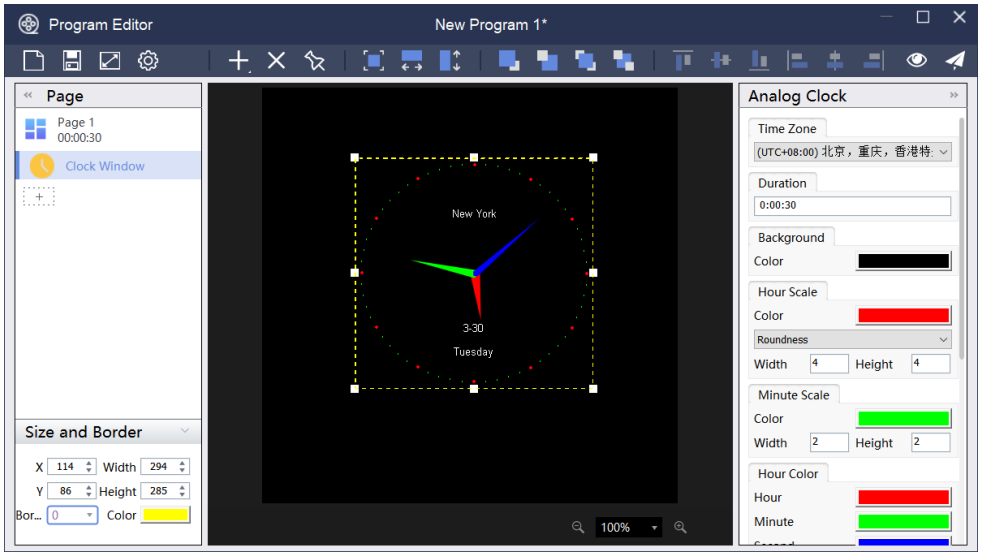


Figure 4.6-49Analog clock window

Digital Clock

The digital clock window can display the time in various forms.

You can set **Clock Format**, **Time Zone**, **Duration**, **Background**, **Show Content**, **Fixed Text**, **Clock Style**, **Year Style** and **Style** of the clock.

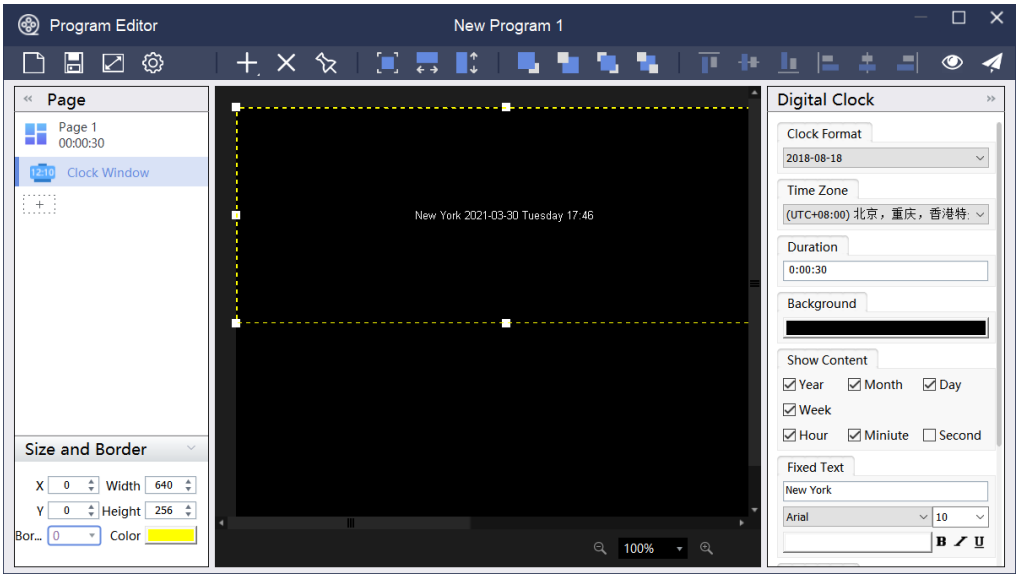


Figure 4.6-50Digital clock window

Timer

The timer window has two timer styles: **Count Up**, **Count Down**.

- **Count Up**

  You can set **Duration**, **Background**, **Fixed Text**, **Start Time**, **Style**, **Font**, and **Content** of the timer.

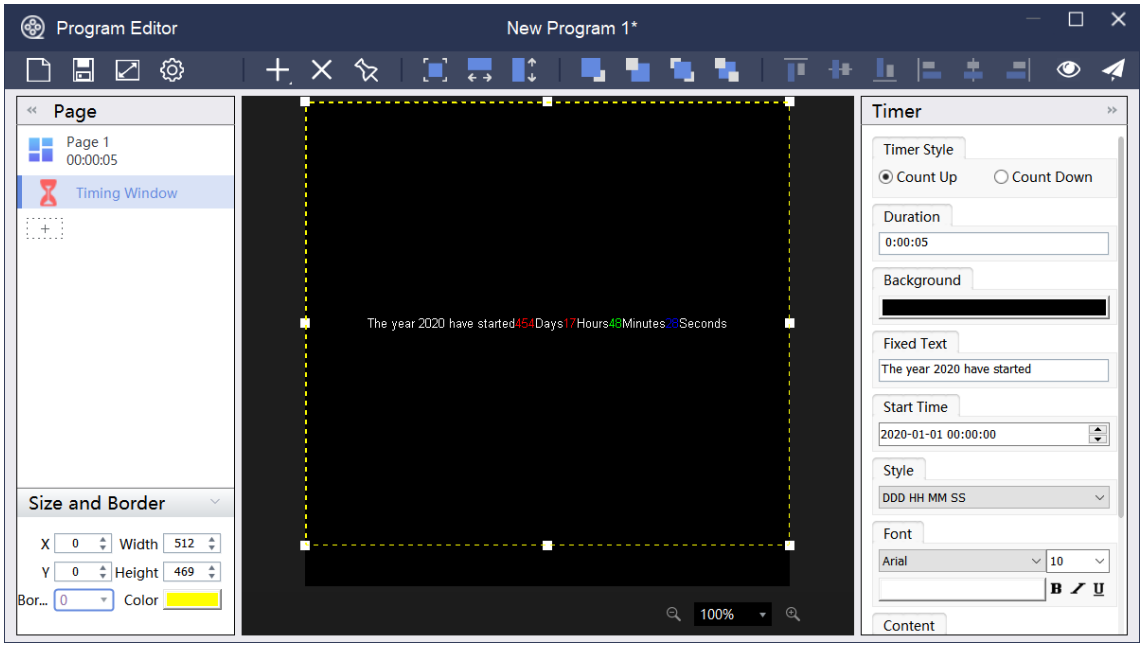


Figure 4.6-51 Count Up window

- **Count Down**

  You can set **Duration**, **Background**, **Fixed Text**, **End Time**, **Style**, **Font** and **Content** of the timer.

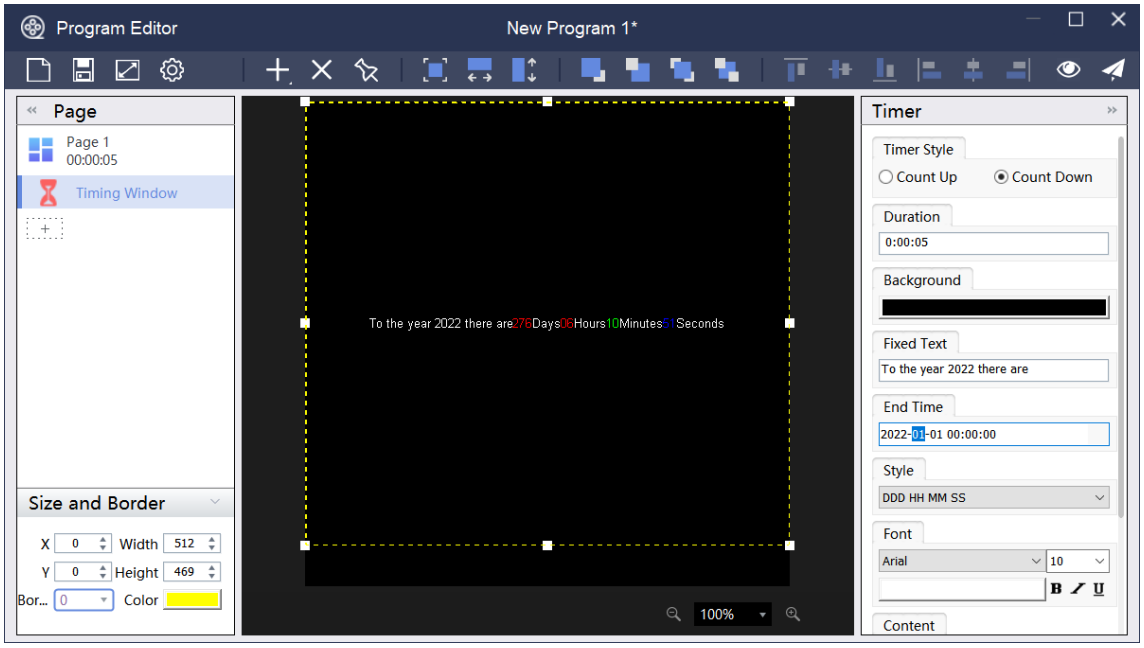


Figure 4.6-52Count Down window

Webpage

The webpage window can normally display a webpage only when the terminal is connected to the network.

Set **Duration** of the webpage, enter a website address in the **URL** field, and then click **Goto**. The webpage can be normally played after being sent to the terminal.

Figure 4.6-53Webpage window

Stream Video

The stream video window can normally display a streaming video only when the terminal is connected to the network.

Set **Duration** of the video, enter the steaming video address in the **URL** field, and then click **Goto**. The streaming video can be normally played after being sent to the terminal.

RSS

The RSS window can display news only when the terminal is connected to the network.

Enter the RSS path in the **URL** field, and then click **Goto.** The news can be

normally played after being sent to the terminal.

You can set **Content**, **Font**, **Background**, **Duration** and **Speed** of the news.

Video Capture

The video capture window can display the video captured by the external camera connected to the terminal. You can set **Duration** of the video.

4.7 Schedule

On the **Schedule** page, you can view, add, delete, edit and publish schedules. (LAN-based schedules are supported by terminals of which the version is 1.63.3 or above.)

4.7.1 Program Schedule

You can add, edit, delete and publish program schedules.

Click Program to enter the program schedule page.

Program Schedule List

In this list, you can view the information of program schedules: **Name**, **Source**, and **Last Edit Time**, and perform the following operations: **Edit**, **Publish** and **Delete**.

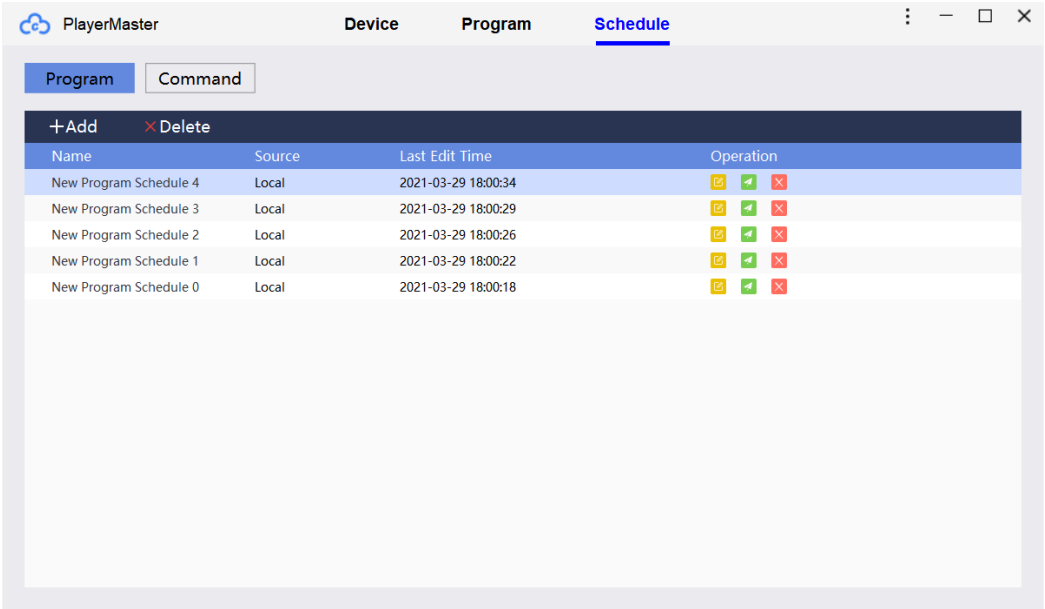


Figure 4.7-1 Program schedule

Click to edit the program schedule.

Click to publish the program schedule to a terminal or a terminal group.

Click to delete the program schedule.

In Cloud mode, program schedules can only be sent to a terminal group; in LAN mode, program schedules can be sent to a terminal or a terminal group.

Renaming Program Schedules

Select the program schedule, and right-click the name to rename the schedule.

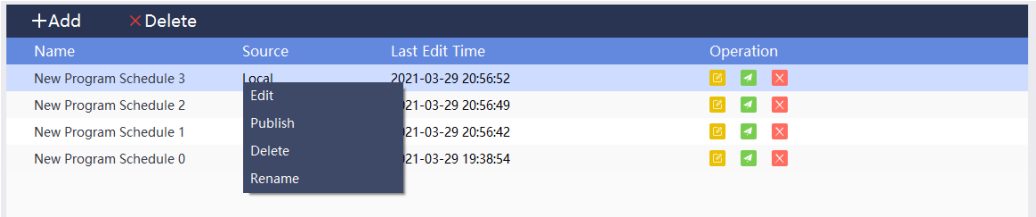


Figure 4.7-2 Renaming program schedules

Adding/Editing Program Schedules

Click +Add to add program schedules. In Cloud mode, you can click **Local** or **Cloud** to choose program source.

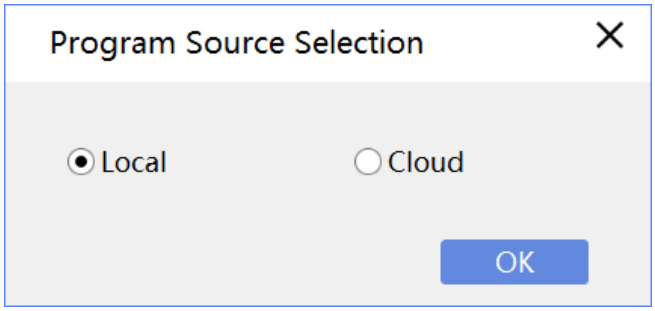


Figure 4.7-3 Adding program schedules

In the pop-up dialog box, you can add **Spot**, **Rotation** and **Spare** programs.

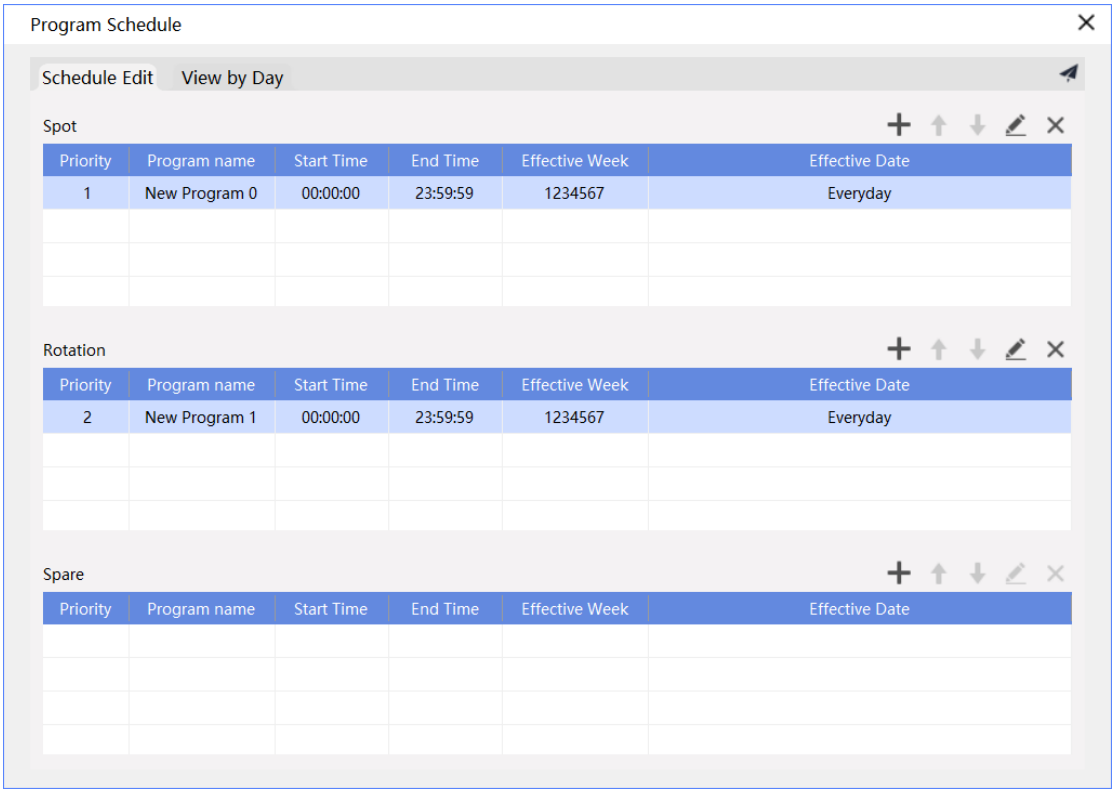


Figure 4.7-4 Editing program schedules

Click ＋. In the pop-up dialog box, click Choose to select a program, and set **Expiration Time**, **Expiration Date** and **Expiration Week**, and then click **Confirm**.

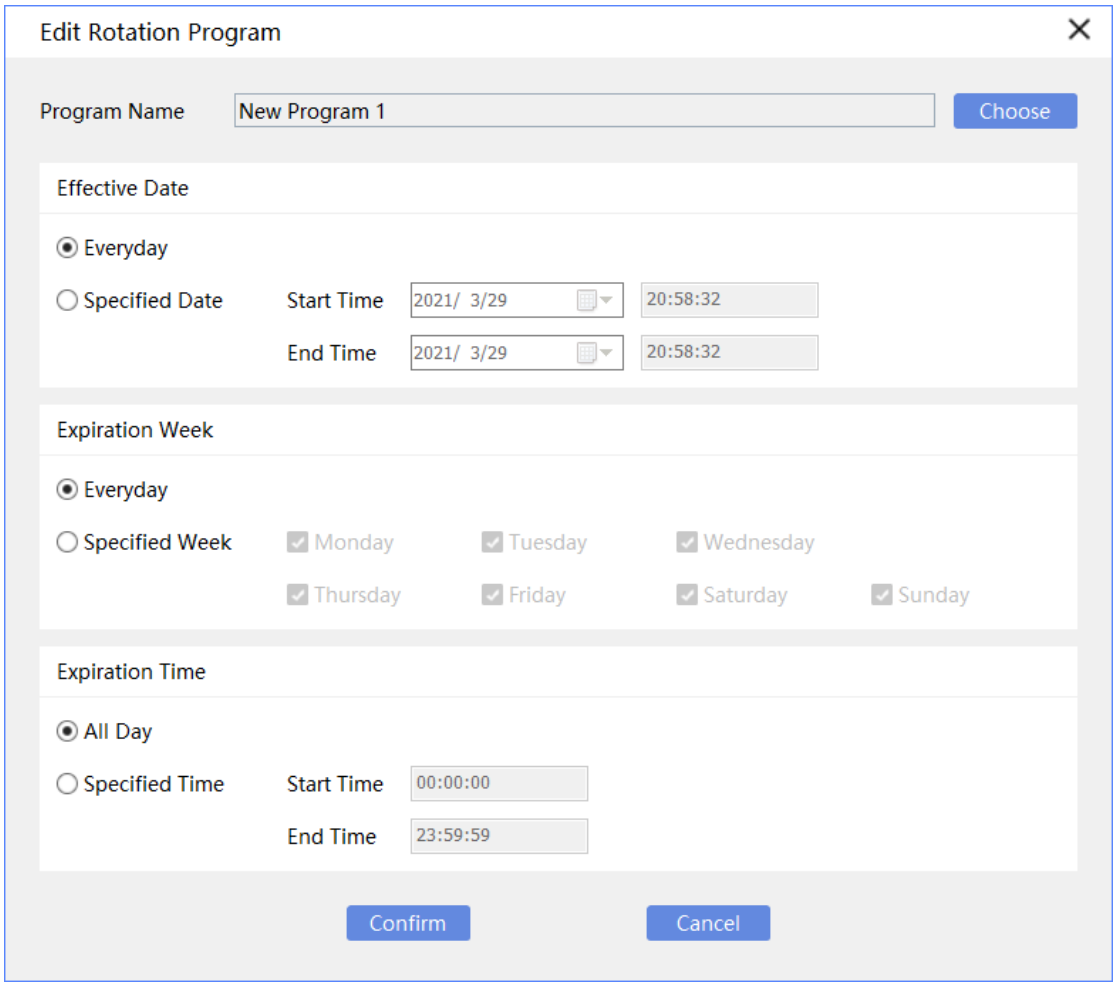


Figure 4.7-5 Program settings

Programs are played according to the following order:

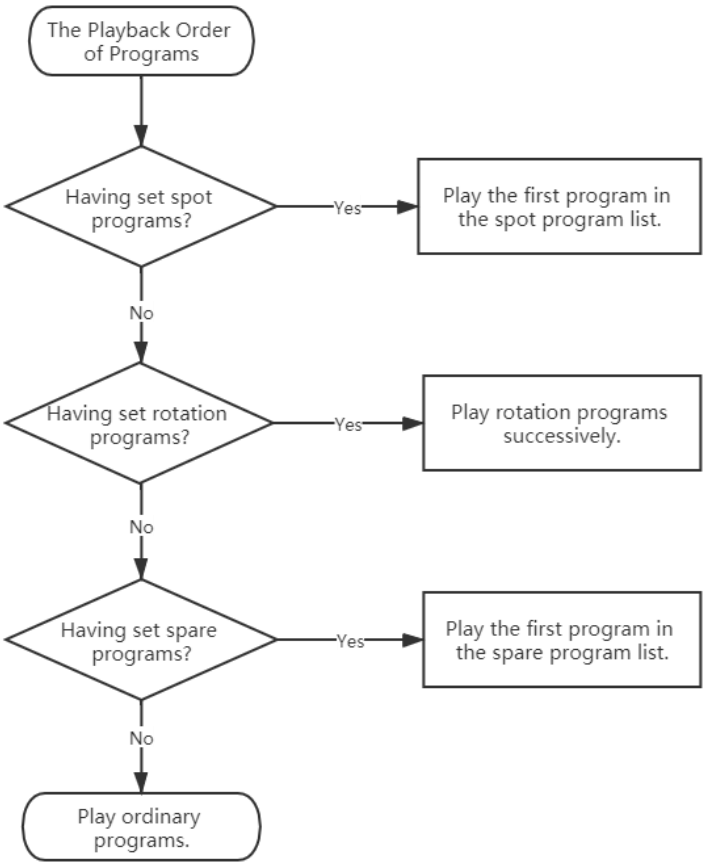


Figure 4.7-6 The playback order of programs

Click to move up the program to change its playback order.

Click to move down the program to change its playback order.

Click to edit the schedule of the program.

Click to delete the schedule of the program.

Viewing Schedules

Click **View by Day** to view the execution time of program schedules.

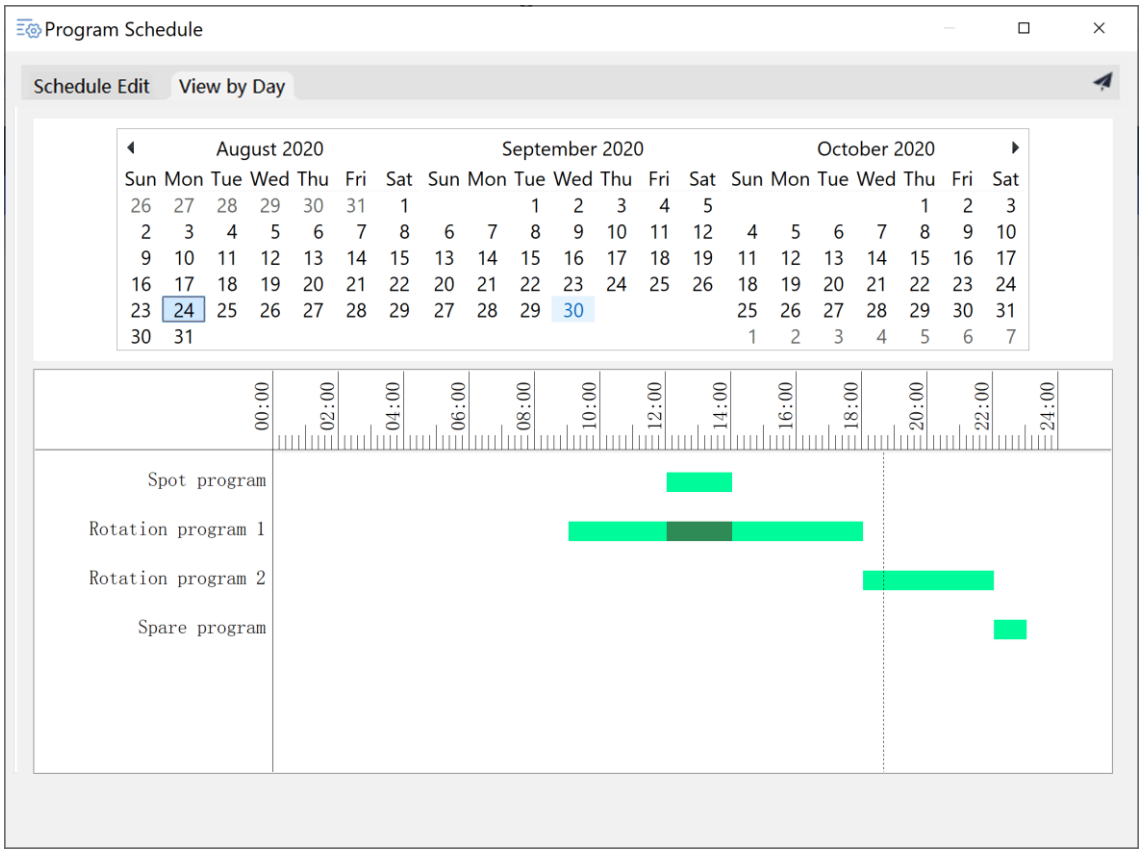


Figure 4.7-7 Viewing program schedules

4.7.2 Command Schedule

You can add, edit, delete and publish command schedules.

Click Command to enter the command schedule page.

Command Schedule List

In this list, you can view the information of command schedules: **Name**, **Included Commands**, and perform the following operations: **Edit**, **Publish**, **Delete**.

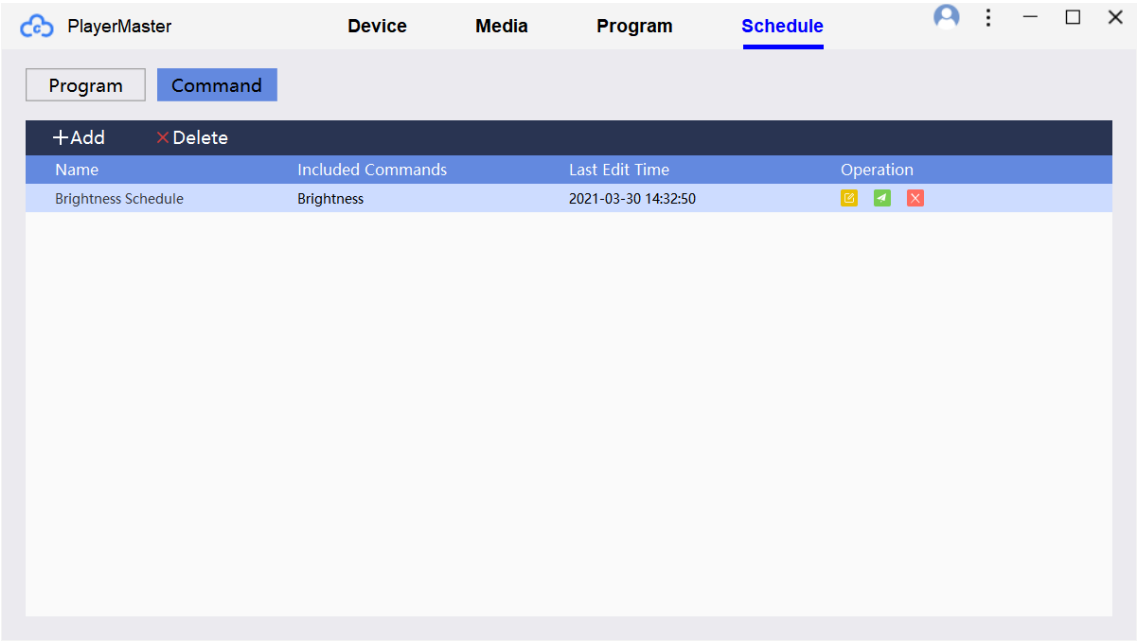


Figure 4.7-8 Command schedules

Click to edit the command schedule.

Click to publish the command schedule to a terminal or a terminal group.

Click to delete the command schedule.

In Cloud mode, command schedules can only be published to a terminal group; in LAN mode, command schedules can be published to a terminal or a terminal group.

Renaming Command Schedules

Select the command schedule, and right-click the name to rename the

schedule.

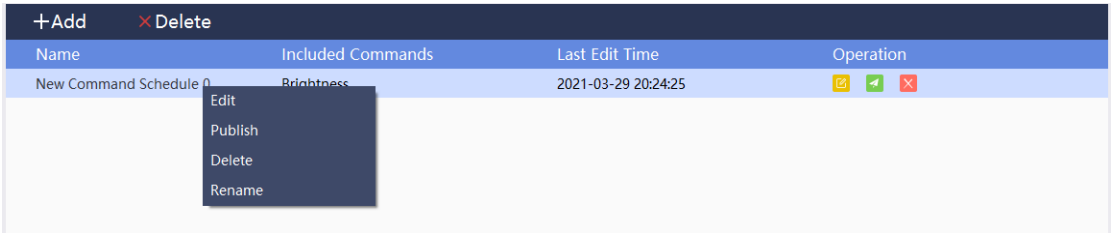


Figure 4.7-9 Renaming command schedules

Adding/Editing Command Schedule

Click +Add to add new command schedules.

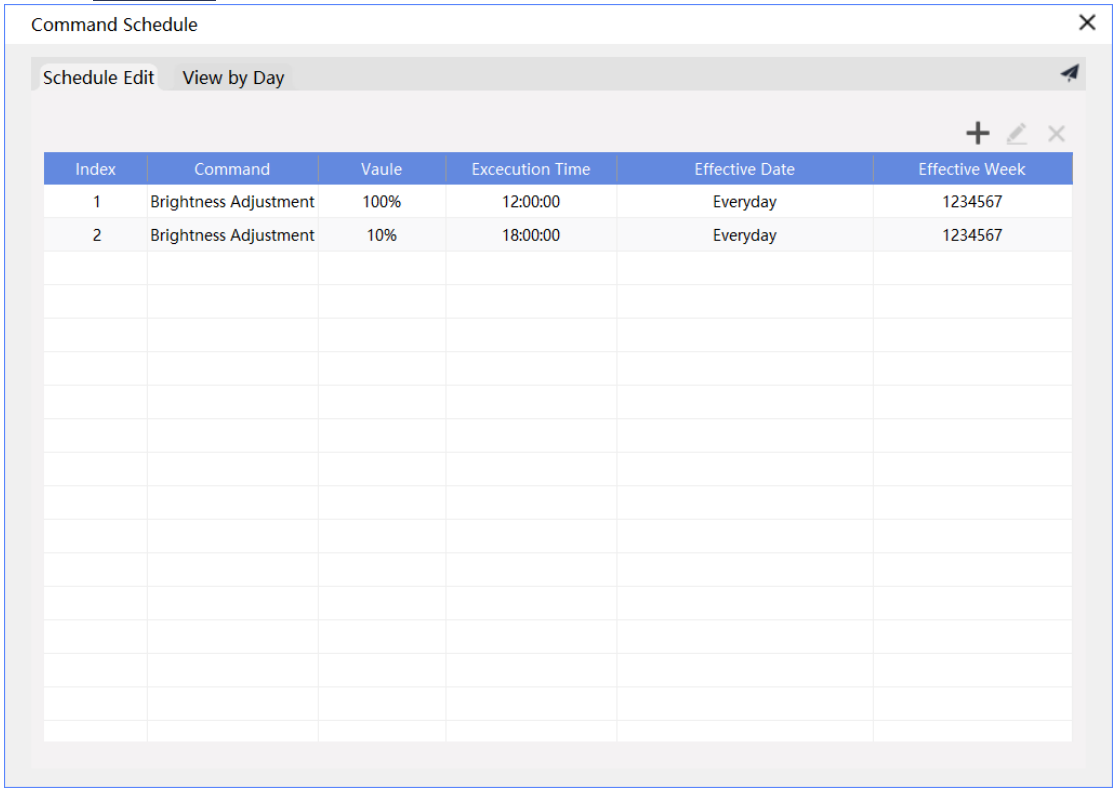


Figure 4.7-10Editing command schedules

Click + . In the pop-up dialog box, set **Command**, **Running Time**, **Expiration Date**, **Expiration Week**, and then click **Confirm**.

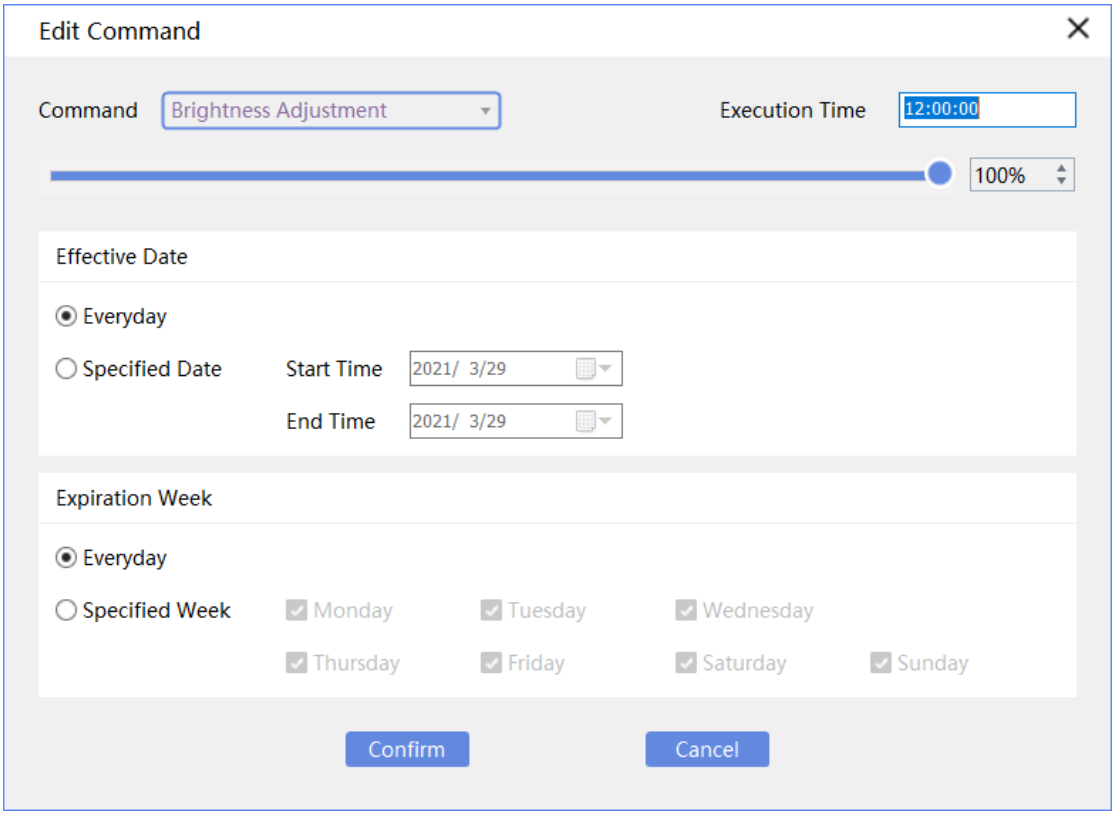


Figure 4.7-11Editing commands

Command	Function
Sleep	Turn off the terminal at execution time. (Must be used with the Wakeup command.)
Wakeup	Wake up the terminal at execution time. (Must be used with the Sleep command.)
Reboot	Reboot the terminal at execution time.
Brightness Adjustment	Adjust screen brightness at execution time.
Media Volume	Adjust media volume at execution time.
Switch to Sync Signal	Switch to sync signal at execution time.
Switch to Async Signal	Switch to async signal at execution time.

Click to edit the command.

Click to delete the command.

Viewing Schedules

Click **View by Day** to view the execution time of command schedules.

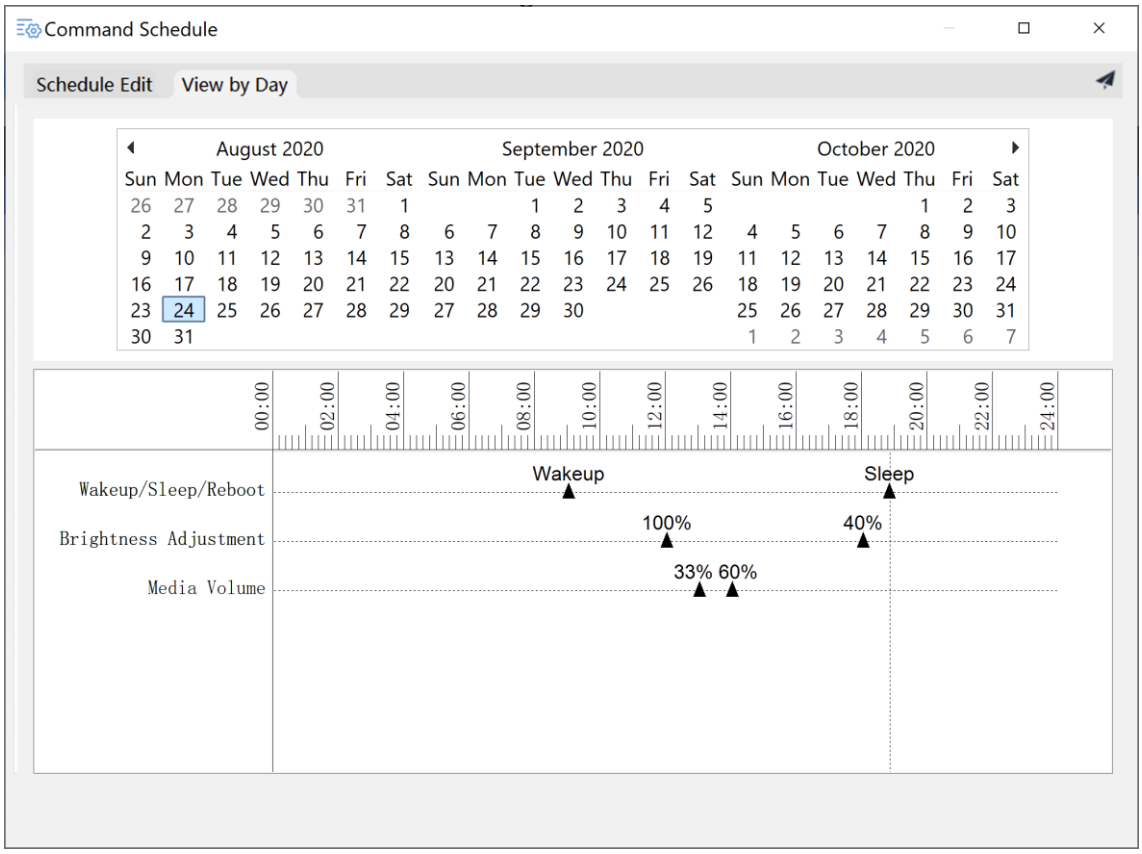


Figure 4.7-12Viewing command schedules

Visual Future

Colorlight Cloud Tech Ltd

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