

PlayerMaster

Display Content Publishing Management System for PC

Async Mode User Manual

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2 Installation

2.1 Installation

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

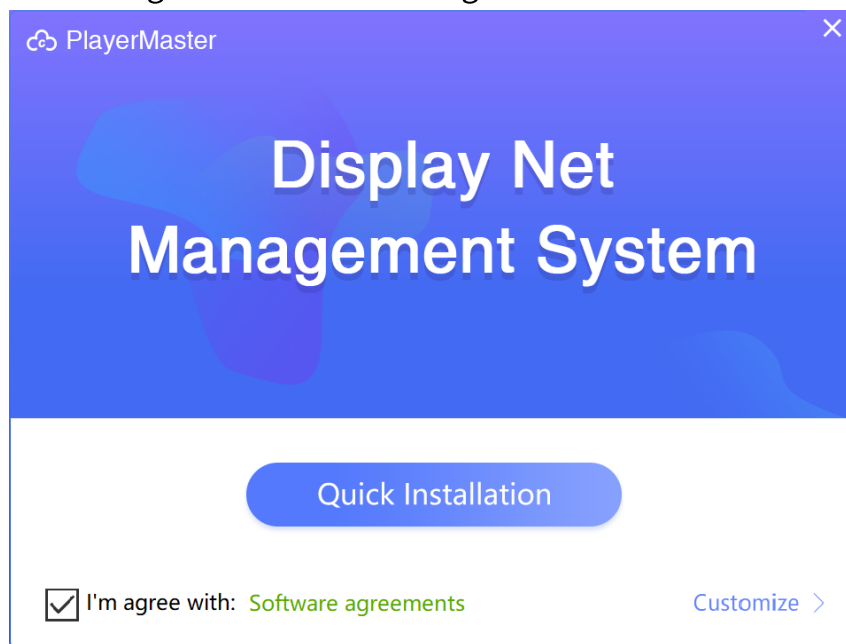


Figure 2.1-1 Installation

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

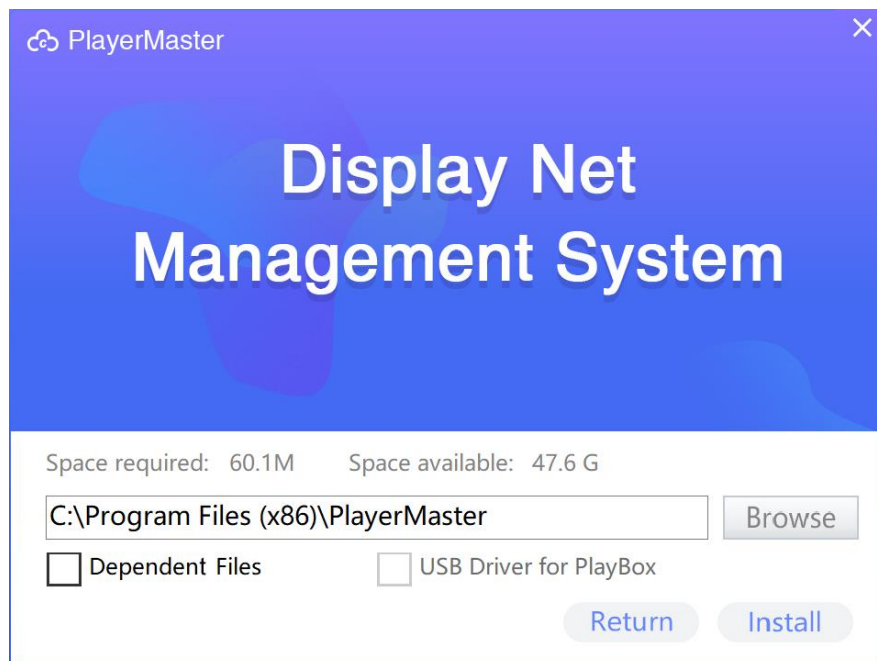


Figure 2.1-2 Customized installation settings

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

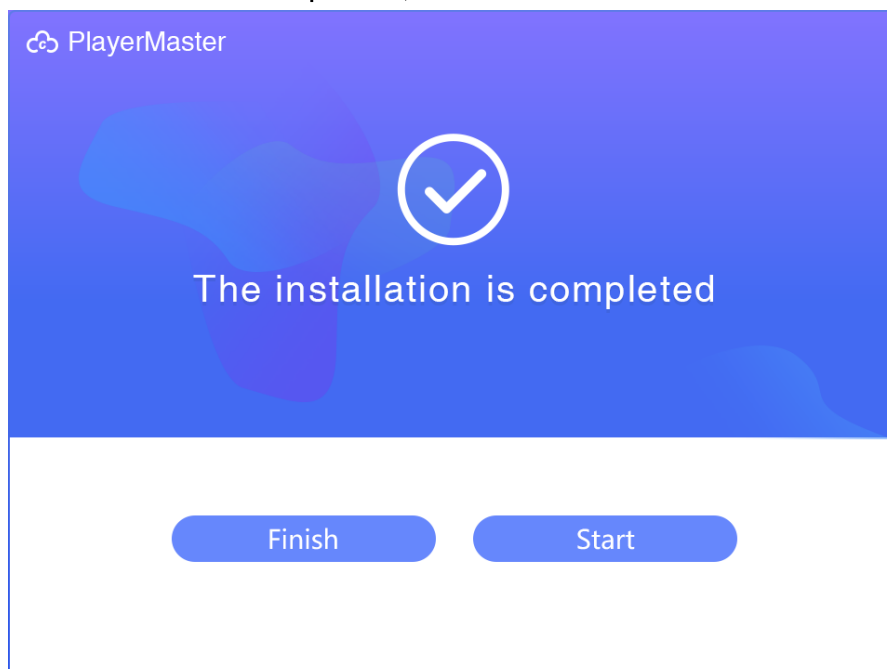


Figure 2.1-3 Installation completed

3 Quick Start Guide (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**

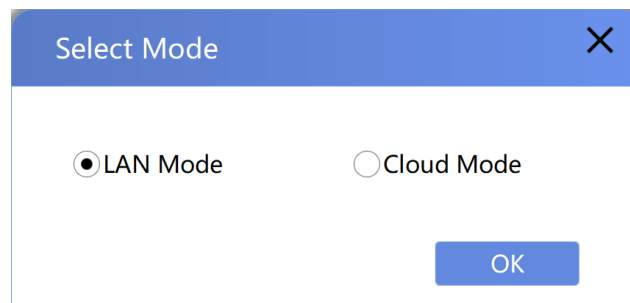


Figure 3.1-1 Application mode selection

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

3.2 Software Interface

- If **LAN Mode** is selected, you can directly enter the main interface;

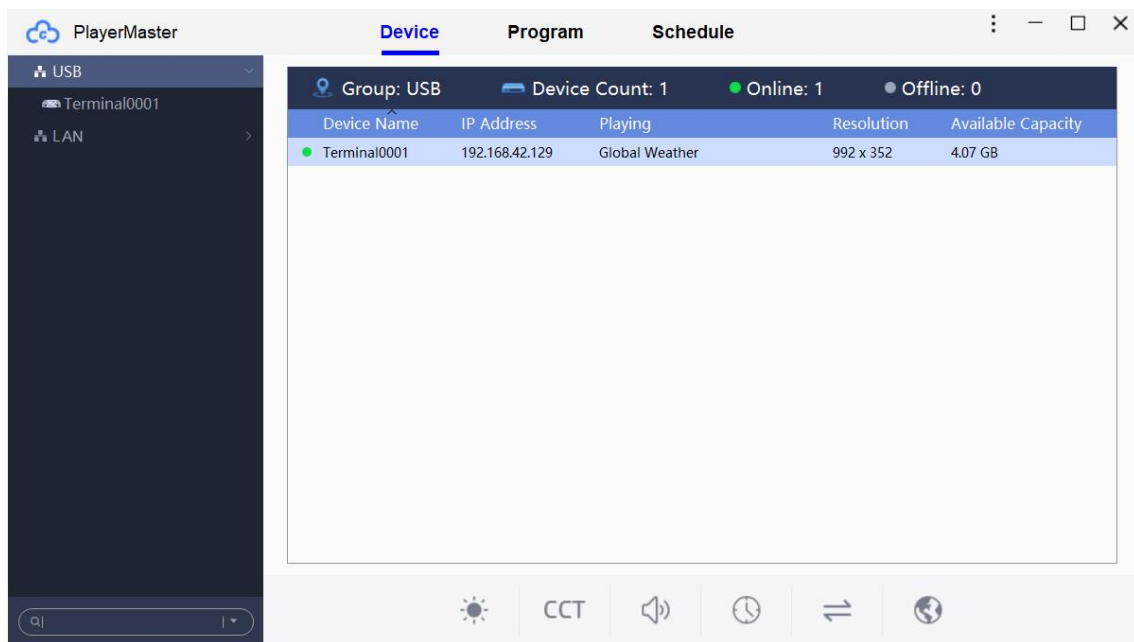


Figure 3.2-2 Main interface

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.

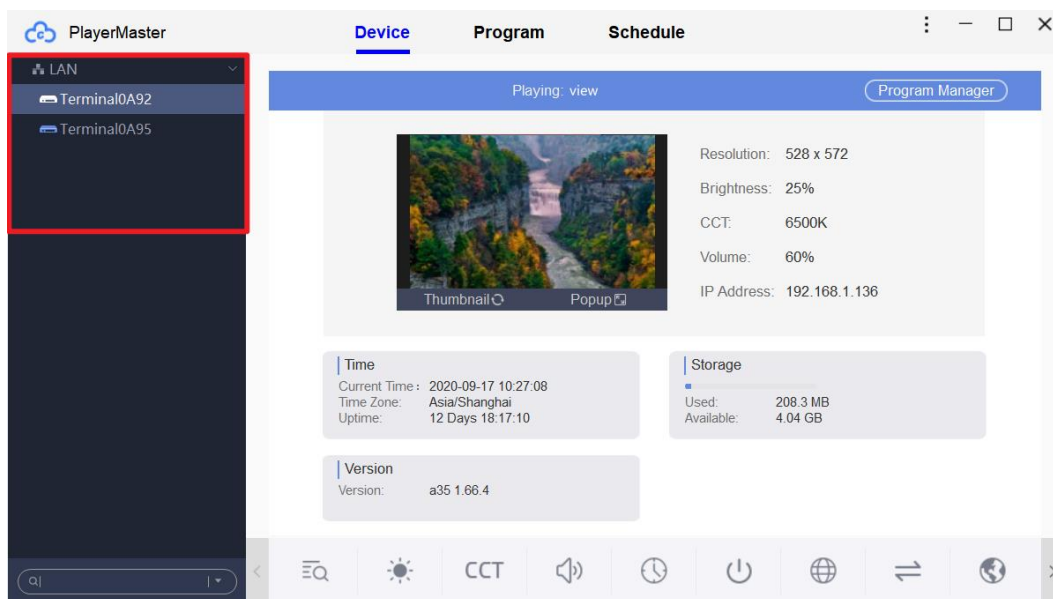


Figure 3.3-1 Terminal tree

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.

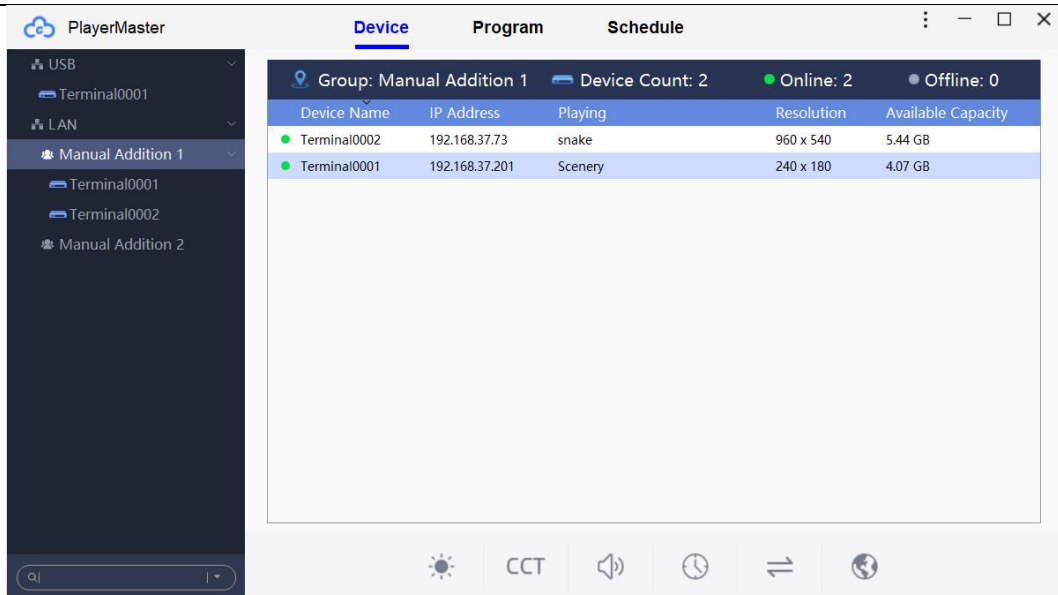


Figure 3.3-2 Terminal list

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.

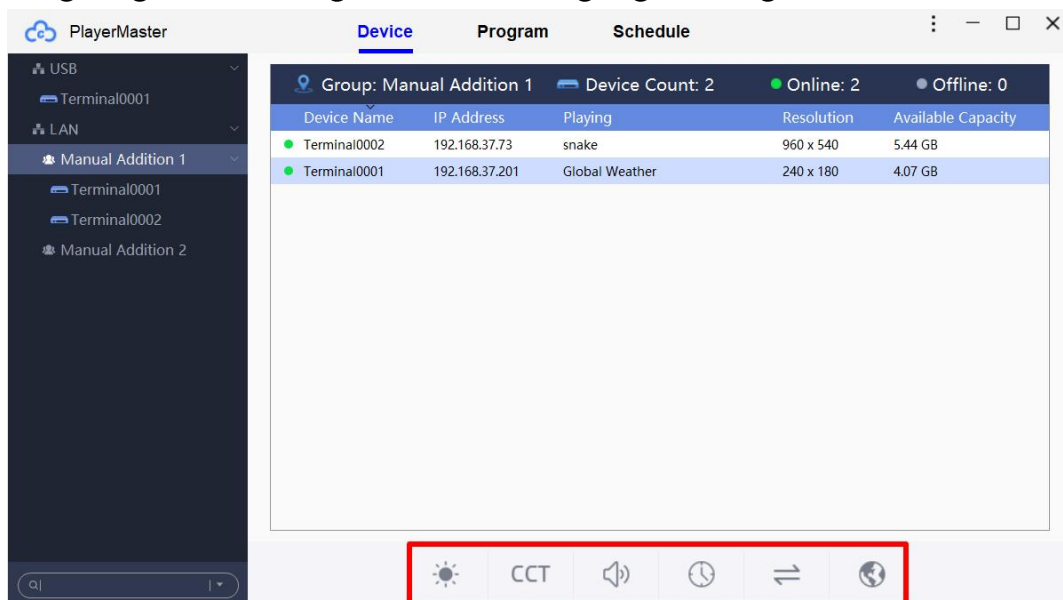


Figure 3.3-3 Terminal group control

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.

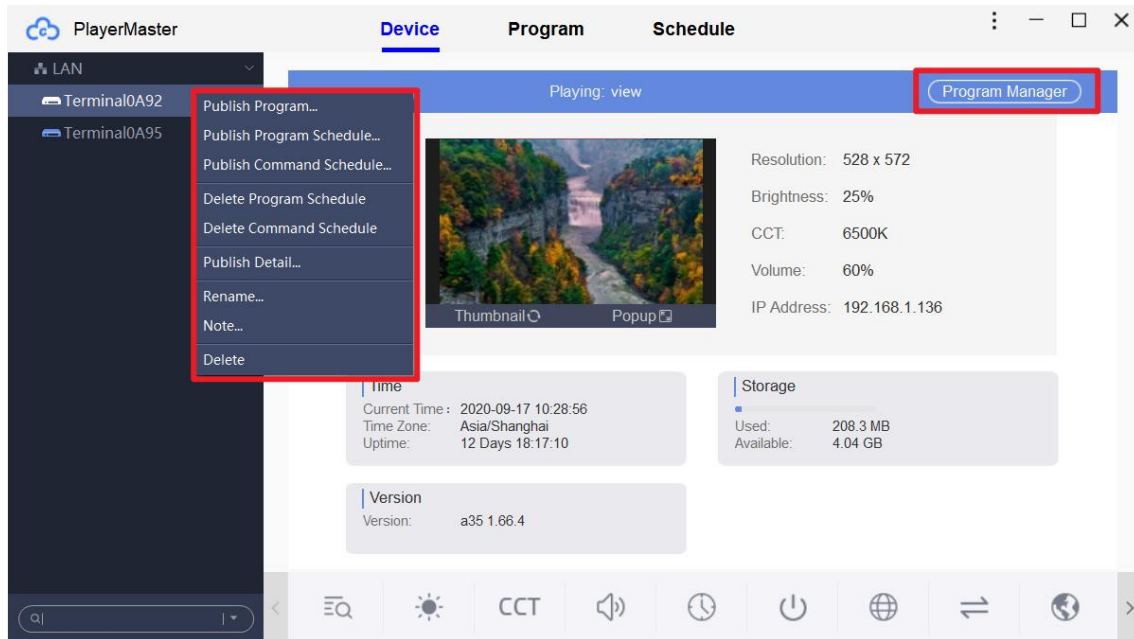


Figure 3.3-4 Terminal information

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.

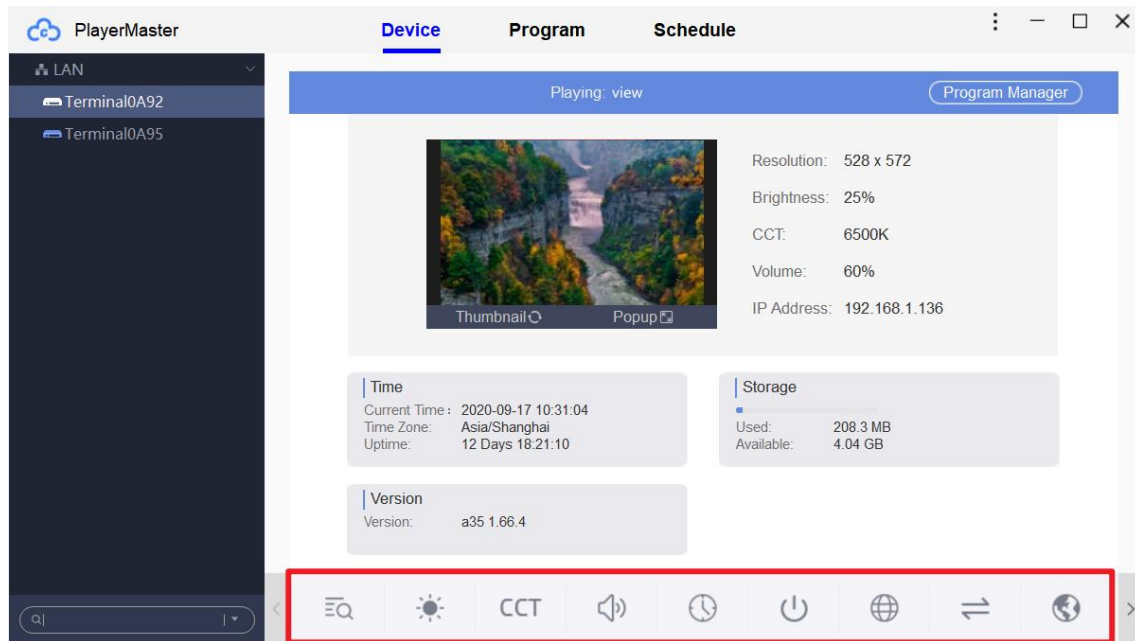


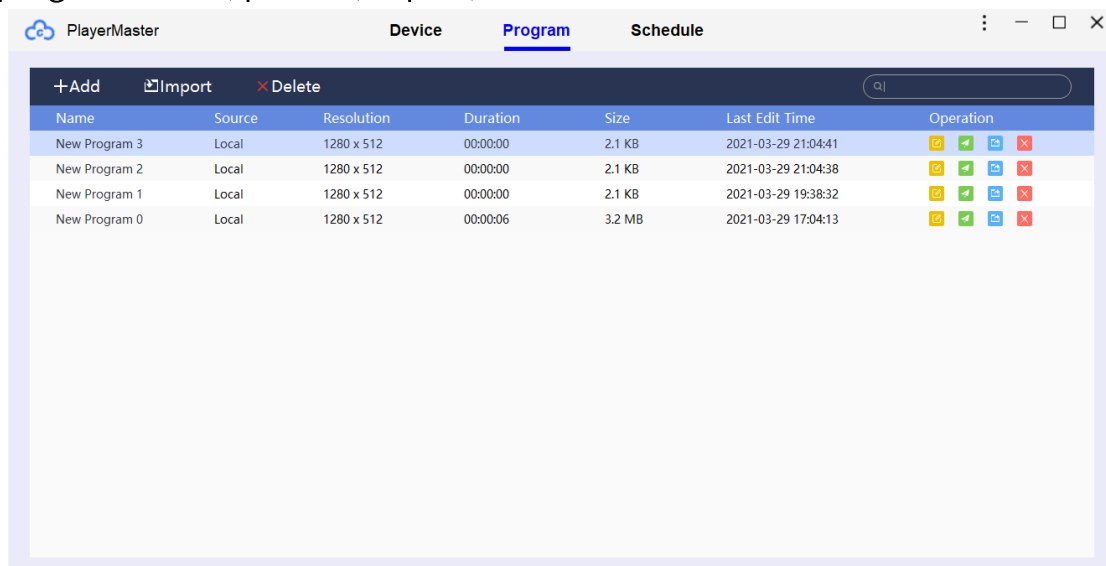
Figure 3.3-5 Terminal control

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.



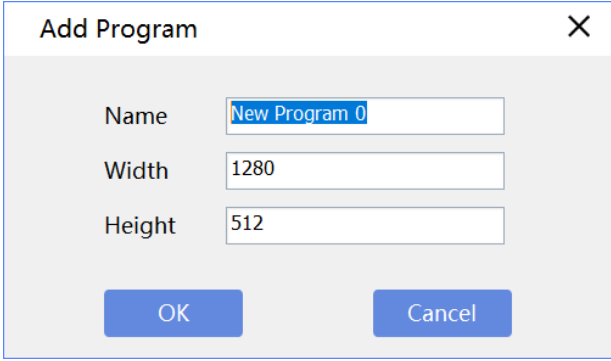
Name	Source	Resolution	Duration	Size	Last Edit Time	Operation
New Program 3	Local	1280 x 512	00:00:00	2.1 KB	2021-03-29 21:04:41	[Edit] [Publish] [Export] [Delete]
New Program 2	Local	1280 x 512	00:00:00	2.1 KB	2021-03-29 21:04:38	[Edit] [Publish] [Export] [Delete]
New Program 1	Local	1280 x 512	00:00:00	2.1 KB	2021-03-29 19:38:32	[Edit] [Publish] [Export] [Delete]
New Program 0	Local	1280 x 512	00:00:06	3.2 MB	2021-03-29 17:04:13	[Edit] [Publish] [Export] [Delete]

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.



The 'Add Program' dialog box is a light gray window with a title bar containing the text 'Add Program' and a close button (X). Inside the dialog, there are three text input fields: 'Name' with the value 'New Program 0', 'Width' with the value '1280', and 'Height' with the value '512'. At the bottom of the dialog, there are two buttons: 'OK' and 'Cancel'.

Figure 3.4-2 Adding programs

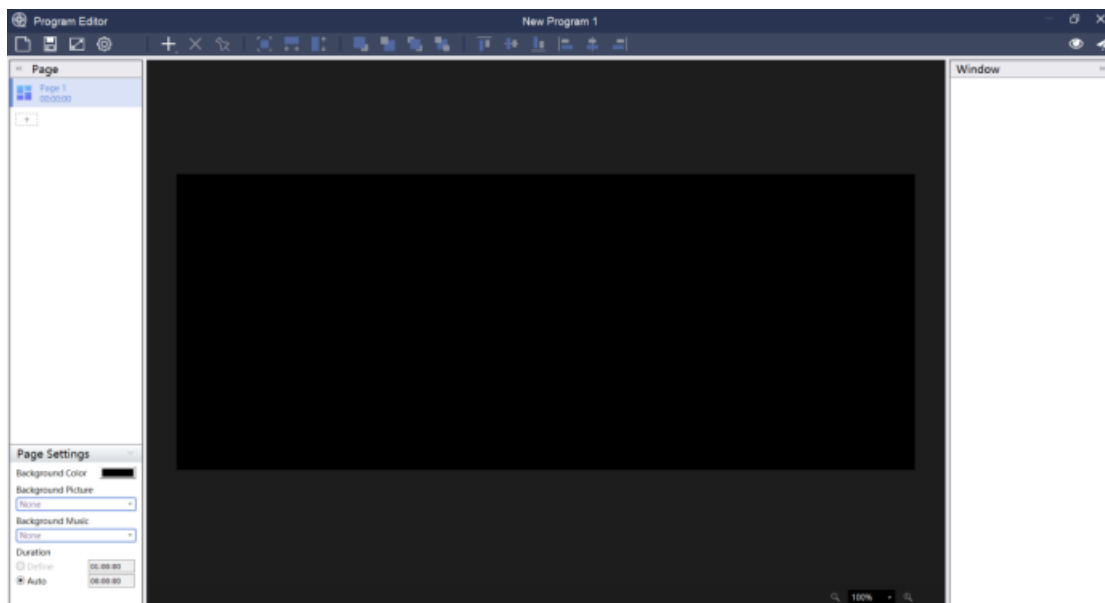



Figure 3.4-3 Program Editor page

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.

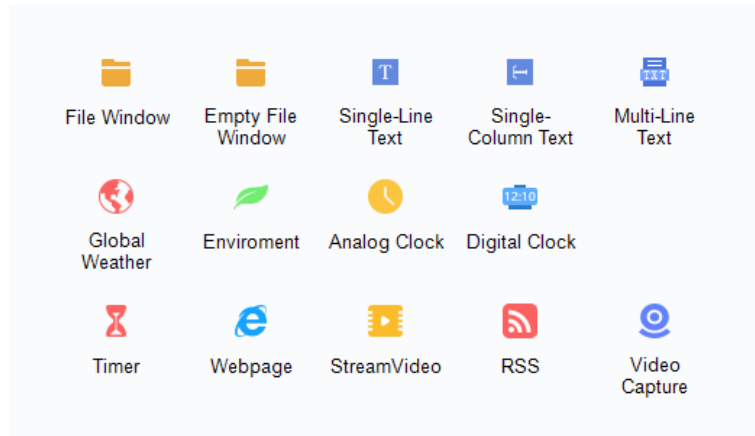


Figure 3.4-4 Program window type

- **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.

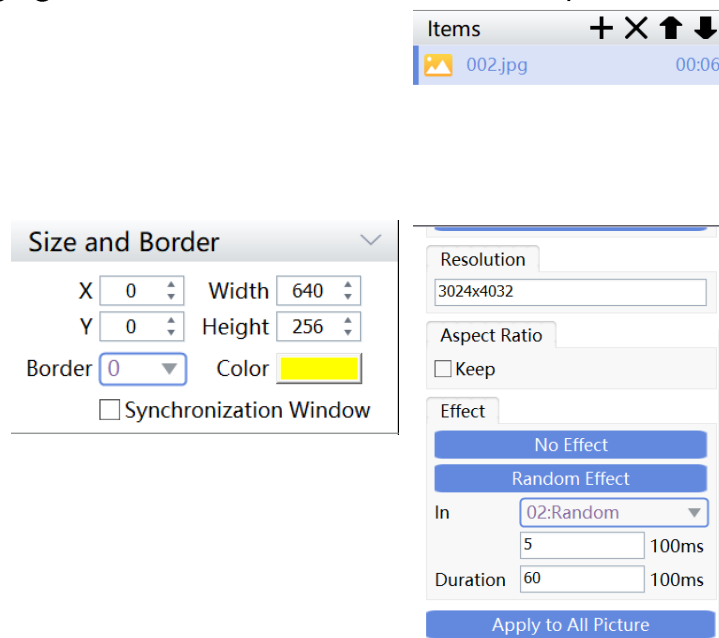




Figure 3.4-5 Window settings

- **Saving Programs**

Click  to save the currently edited program.

- **Publishing Programs**

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

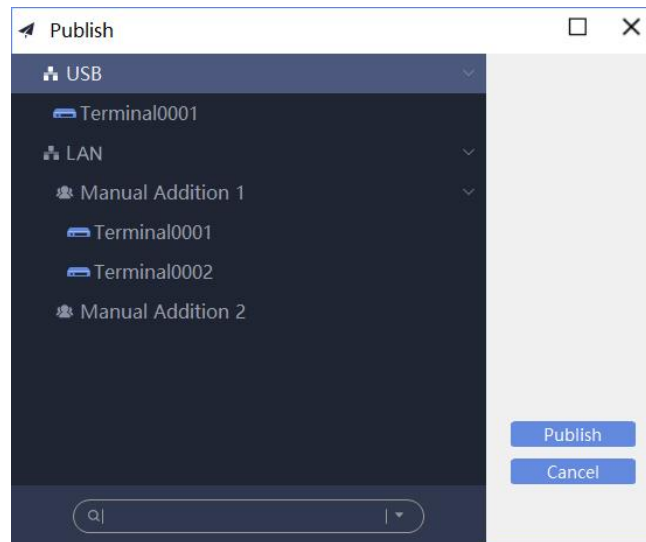


Figure 3.4-6 Publishing programs

3.5 Schedule

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

3.5.1 Program Schedule

Click  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**.

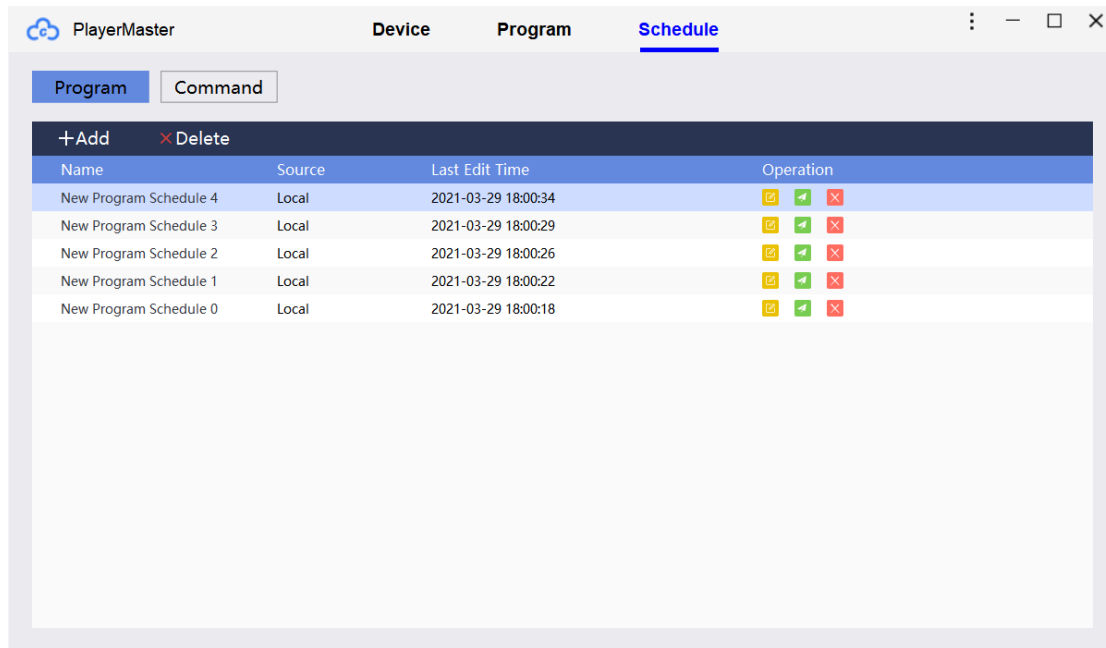


Figure 3.5-1 Program schedule operation page

- **Adding Program Schedules**

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



The screenshot shows a 'Program Schedule' dialog box with a close button (X) in the top right corner. It has two tabs: 'Schedule Edit' (selected) and 'View by Day'. The dialog is divided into three sections: 'Spot', 'Rotation', and 'Spare'. Each section has a table with columns: Priority, Program name, Start Time, End Time, Effective Week, and Effective Date. Each table also has a '+', up arrow, down arrow, edit (pencil), and delete (X) icons in the top right corner.

Spot

Priority	Program name	Start Time	End Time	Effective Week	Effective Date
1	New Program 0	00:00:00	23:59:59	1234567	Everyday


Rotation

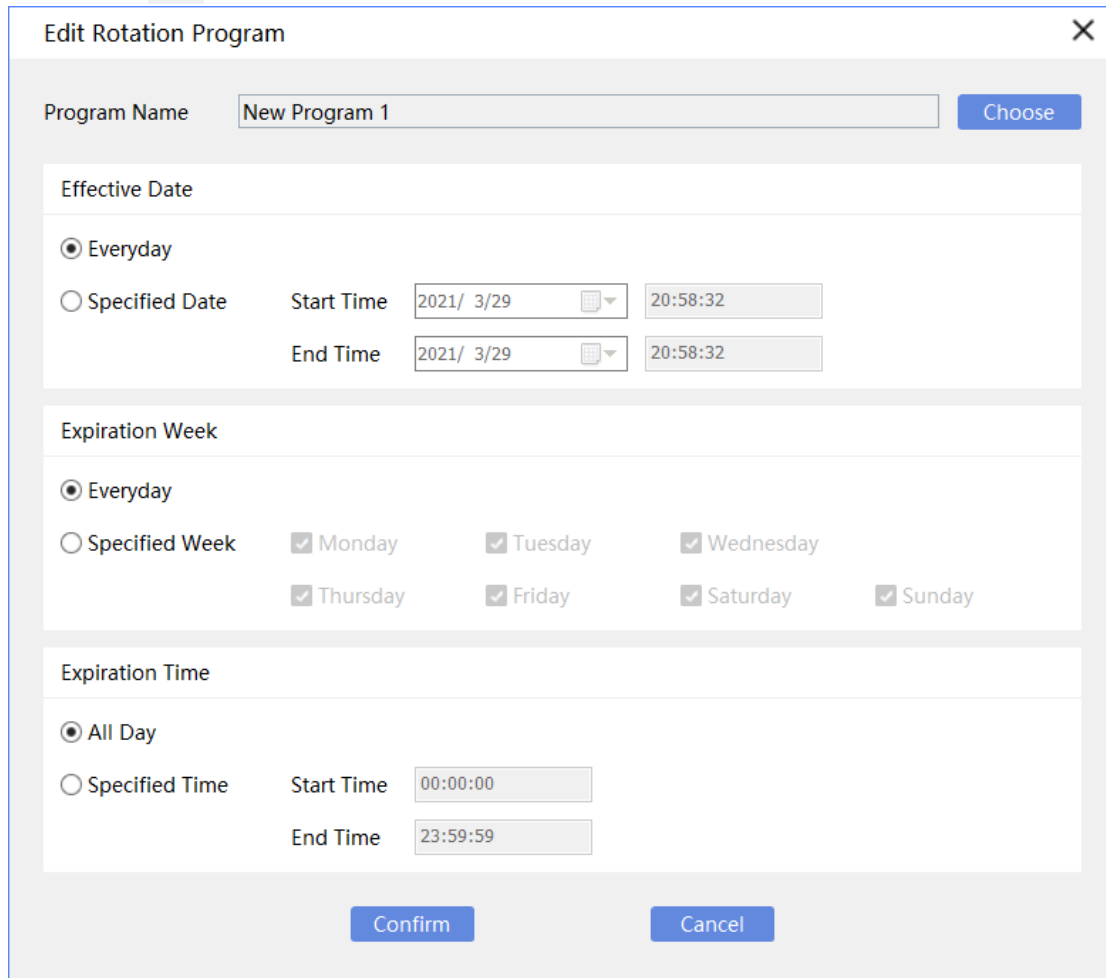
Priority	Program name	Start Time	End Time	Effective Week	Effective Date
2	New Program 1	00:00:00	23:59:59	1234567	Everyday

Spare

Priority	Program name	Start Time	End Time	Effective Week	Effective Date

Figure 3.5-2 Adding program schedules

Click  to add a program and set its play time.



Edit Rotation Program [X]

Program Name: Choose

Effective Date

☒ Everyday

☐ Specified Date

Start Time:

End Time:

Expiration Week

☒ Everyday

☐ Specified Week

☒ Monday ☒ Tuesday ☒ Wednesday

☒ Thursday ☒ Friday ☒ Saturday ☒ Sunday

Expiration Time

☒ All Day

☐ Specified Time


Start Time:

End Time:

Confirm Cancel

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**.

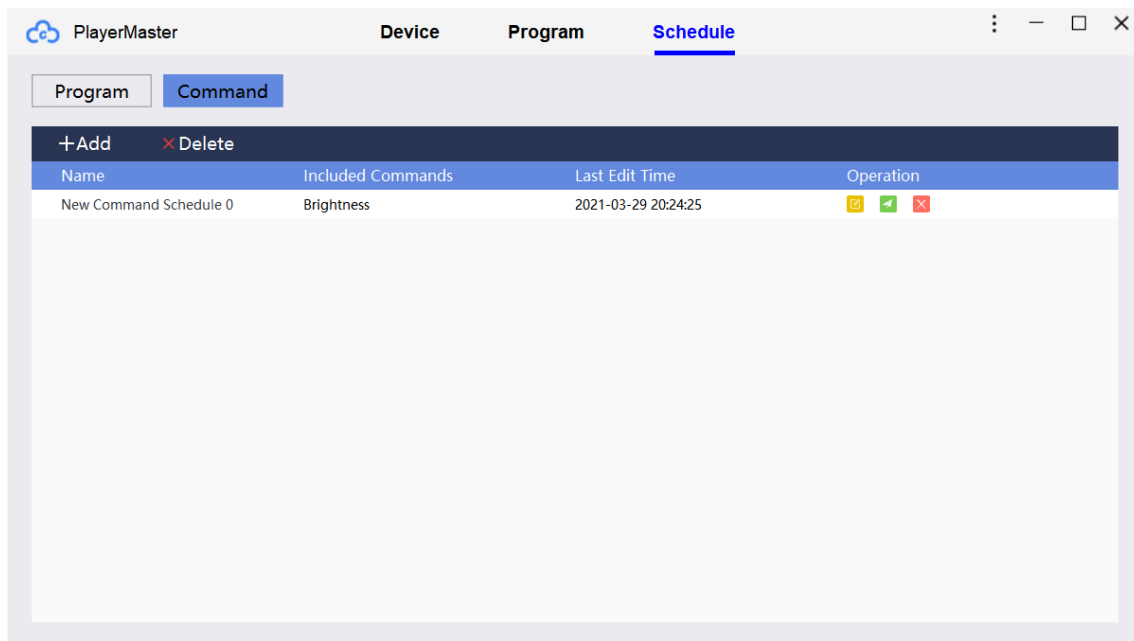


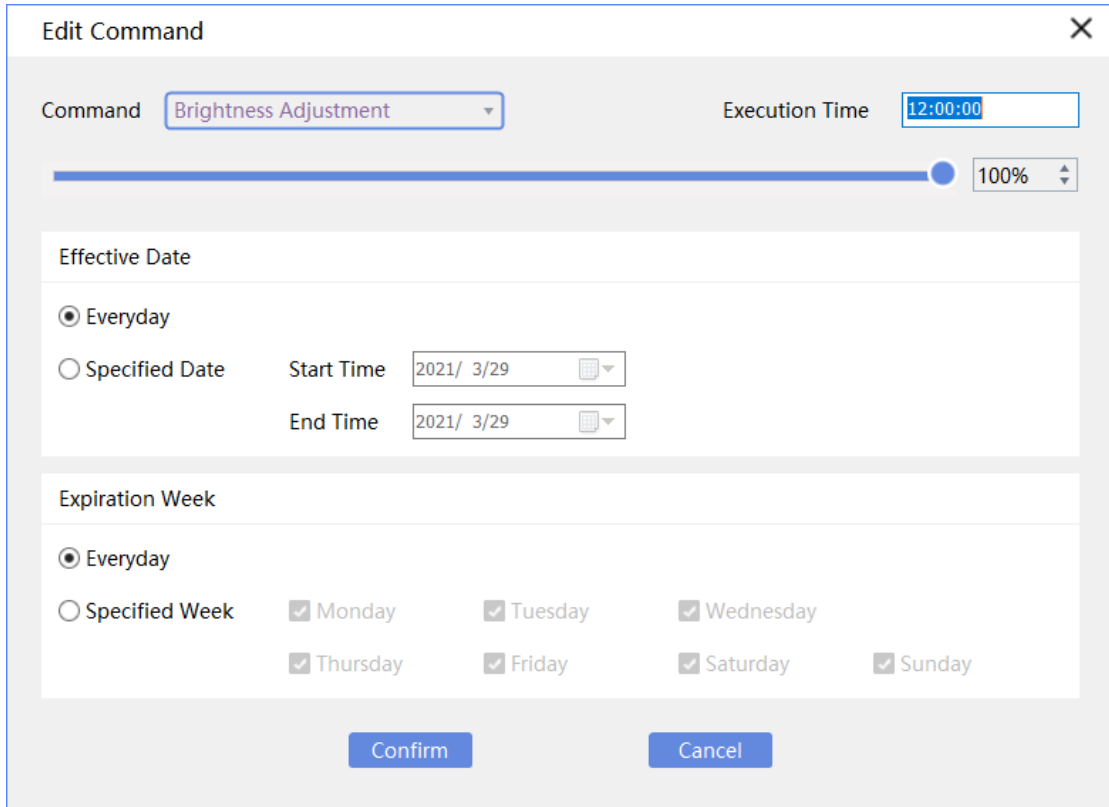


Figure 3.5-4 Command schedule operation page

- **Adding Command Schedules**


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



The "Edit Command" dialog box is shown. It has a title bar with a close button (X). Inside, there's a "Command" dropdown menu set to "Brightness Adjustment" and an "Execution Time" text box set to "12:00:00". Below these is a horizontal slider bar with a blue knob at the 100% mark. Underneath the slider is a section titled "Effective Date" with two radio buttons: "Everyday" (selected) and "Specified Date". The "Specified Date" option has "Start Time" and "End Time" text boxes, both set to "2021/ 3/29". Below that is a section titled "Expiration Week" with two radio buttons: "Everyday" (selected) and "Specified Week". The "Specified Week" option has checkboxes for each day of the week: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday, all of which are checked. At the bottom are "Confirm" and "Cancel" buttons.

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**.

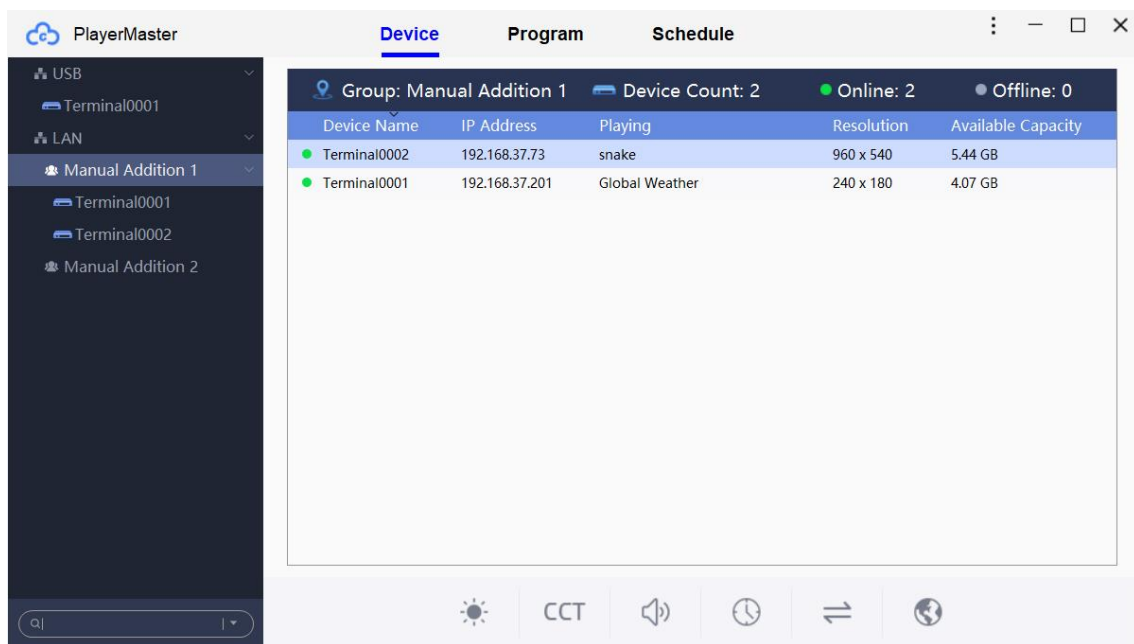


Figure 4.1-1 Main interface

4.2 Device

4.2.1 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.

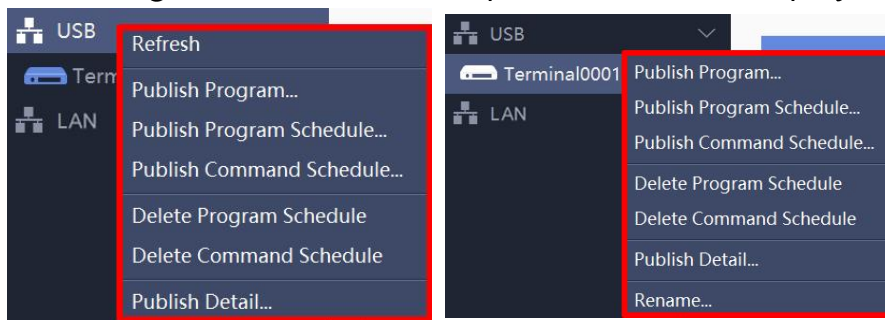


Figure 4.2-1 Right-click menu

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.

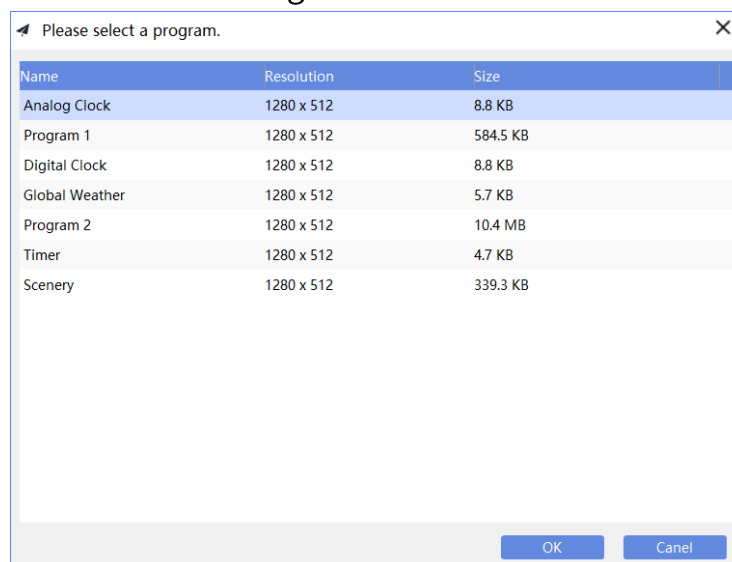


Figure 4.2-2 Publishing programs

- **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.

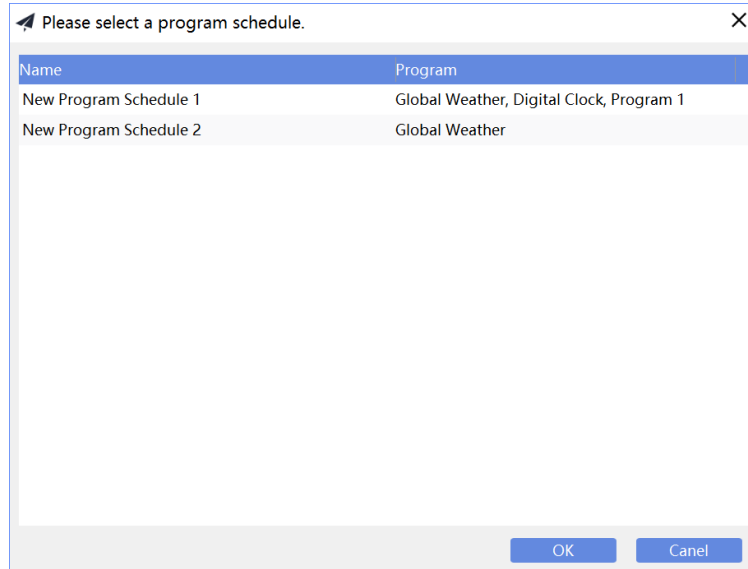


Figure 4.2-3 Publishing program schedules

- **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.

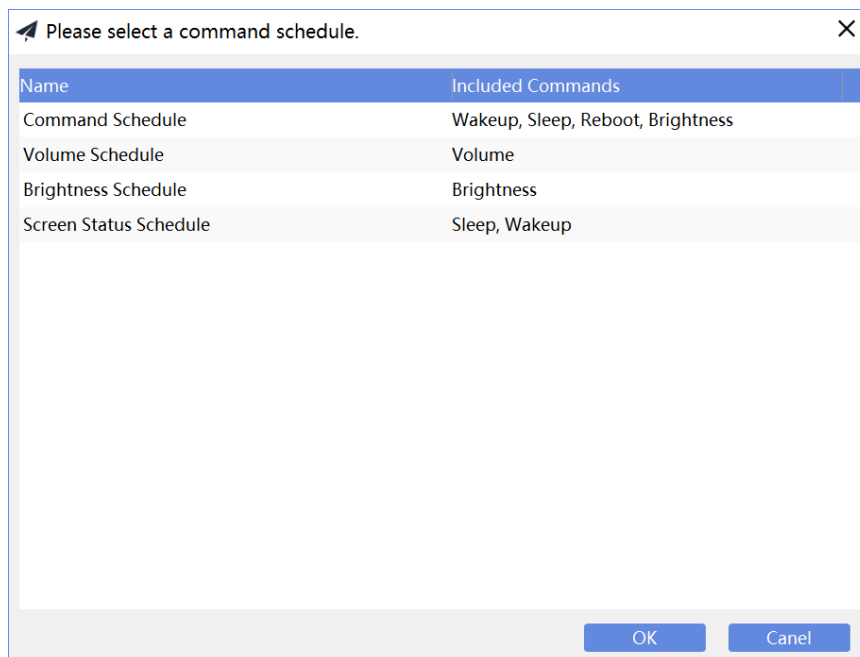
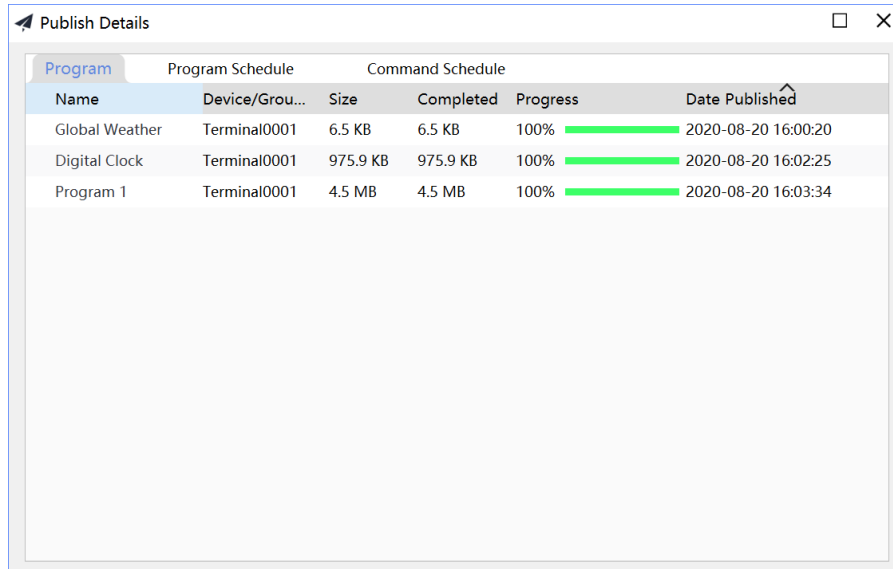


Figure 4.2-4 Publishing command schedules

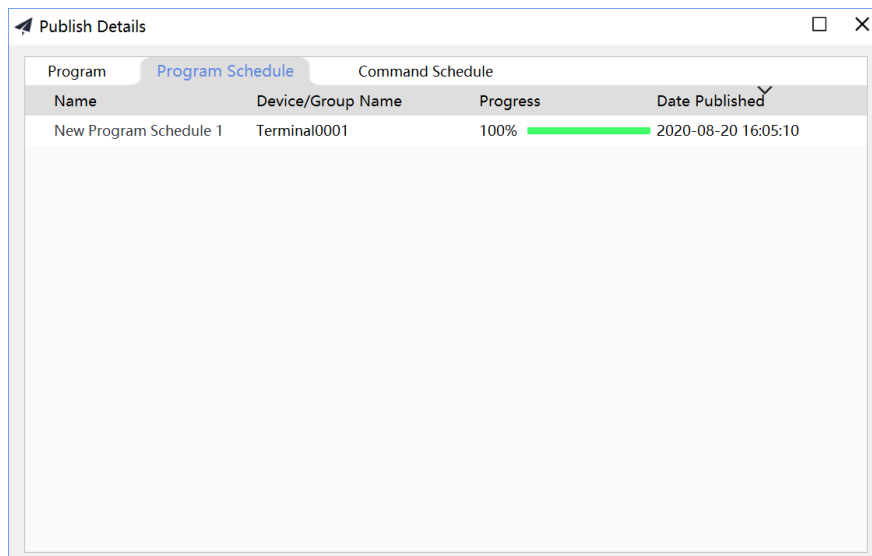
- **Publish Detail**

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.



Publish Details						
Program		Program Schedule		Command Schedule		
Name	Device/Grou...	Size	Completed	Progress	Date Published	
Global Weather	Terminal0001	6.5 KB	6.5 KB	100%	<div></div>	2020-08-20 16:00:20
Digital Clock	Terminal0001	975.9 KB	975.9 KB	100%	<div></div>	2020-08-20 16:02:25
Program 1	Terminal0001	4.5 MB	4.5 MB	100%	<div></div>	2020-08-20 16:03:34

Figure 4.2-5 Details of published programs



Publish Details			
Program	Program Schedule	Command Schedule	
Name	Device/Group Name	Progress	Date Published
New Program Schedule 1	Terminal0001	100%	<div></div> 2020-08-20 16:05:10

Figure 4.2-6 Details of published program schedules

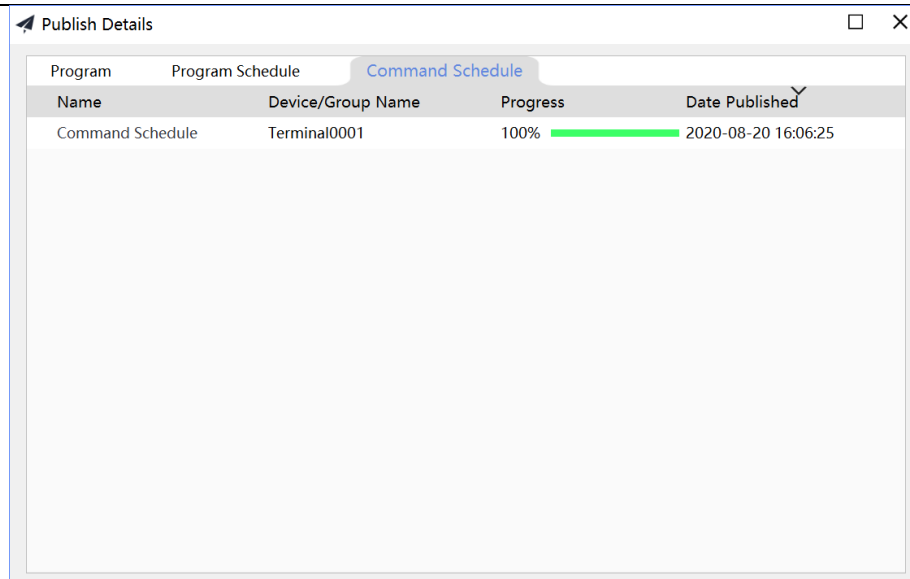


Figure 4.2-7 Details of published command schedules

LAN

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

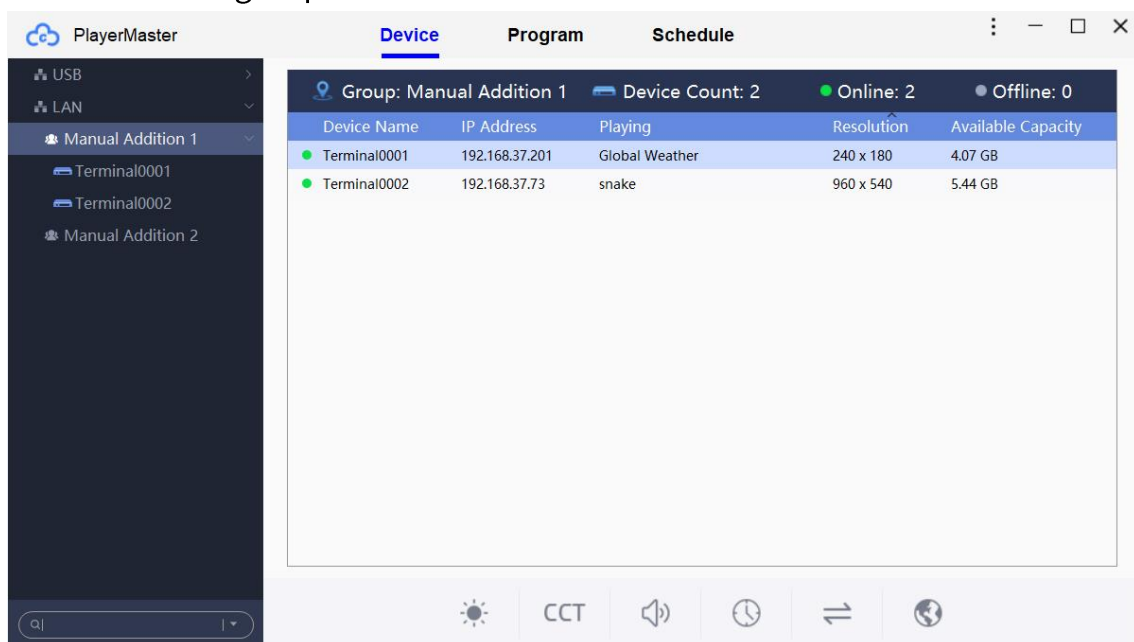


Figure 4.2-8 LAN mode

- **Terminal Group in the LAN**

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

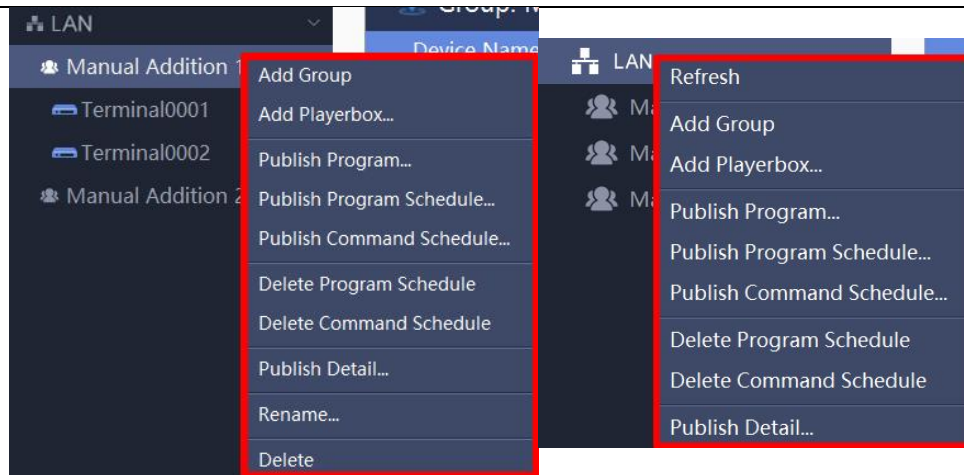


Figure 4.2-9 Right-click menu

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.

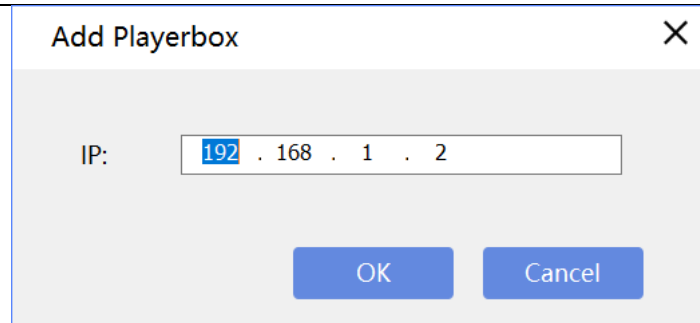


Figure 4.2-10 Manually adding terminals

- **Terminal in the LAN**

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

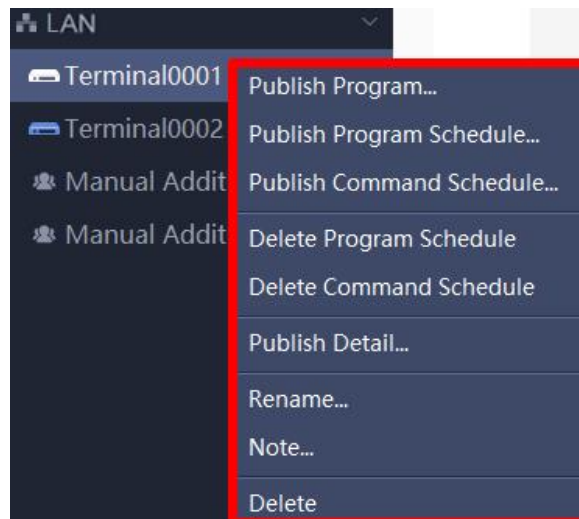


Figure 4.2-11 Right-click menu

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.

Search

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

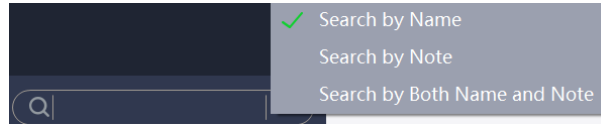


Figure 4.2-12 Terminal tree search

4.2.2 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**.

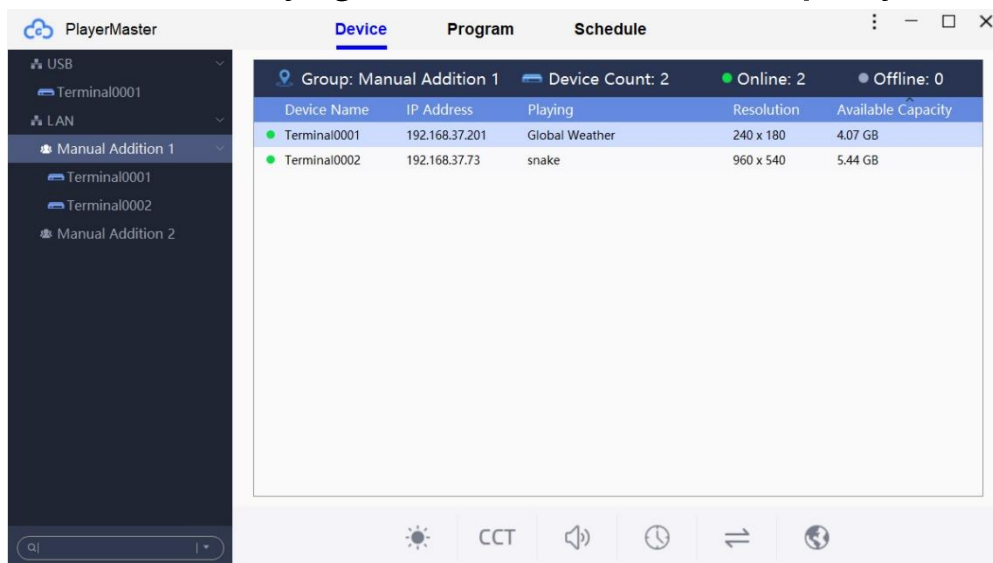


Figure 4.2-13 Terminal list

● Terminal Group Control

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



Figure 4.4-17 Terminal 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.
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.

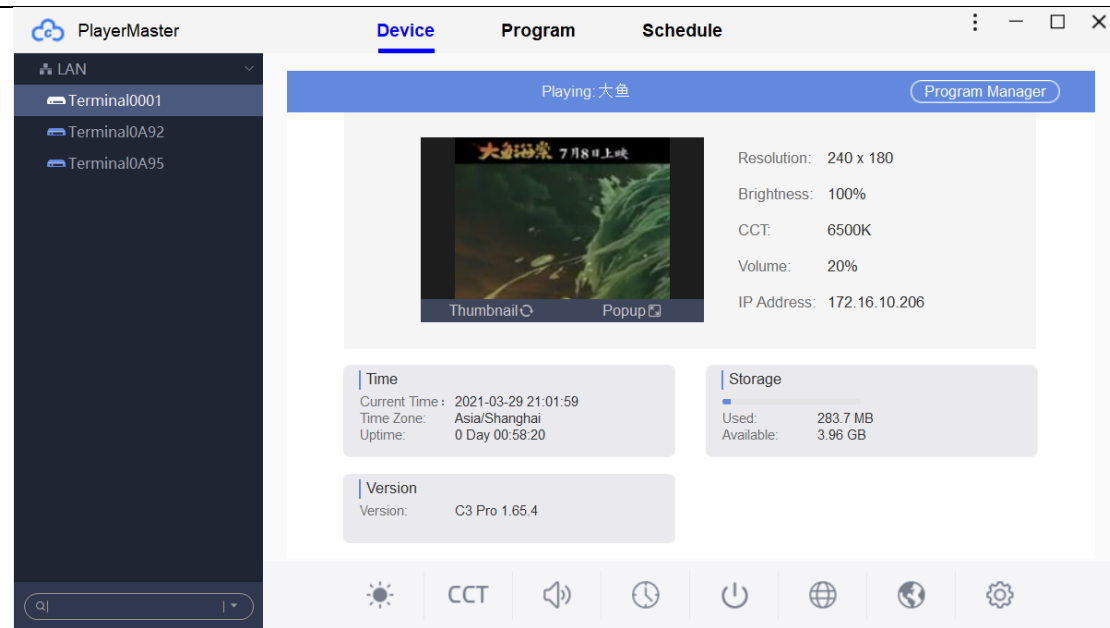


Figure 4.2-14 Terminal information

● 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.

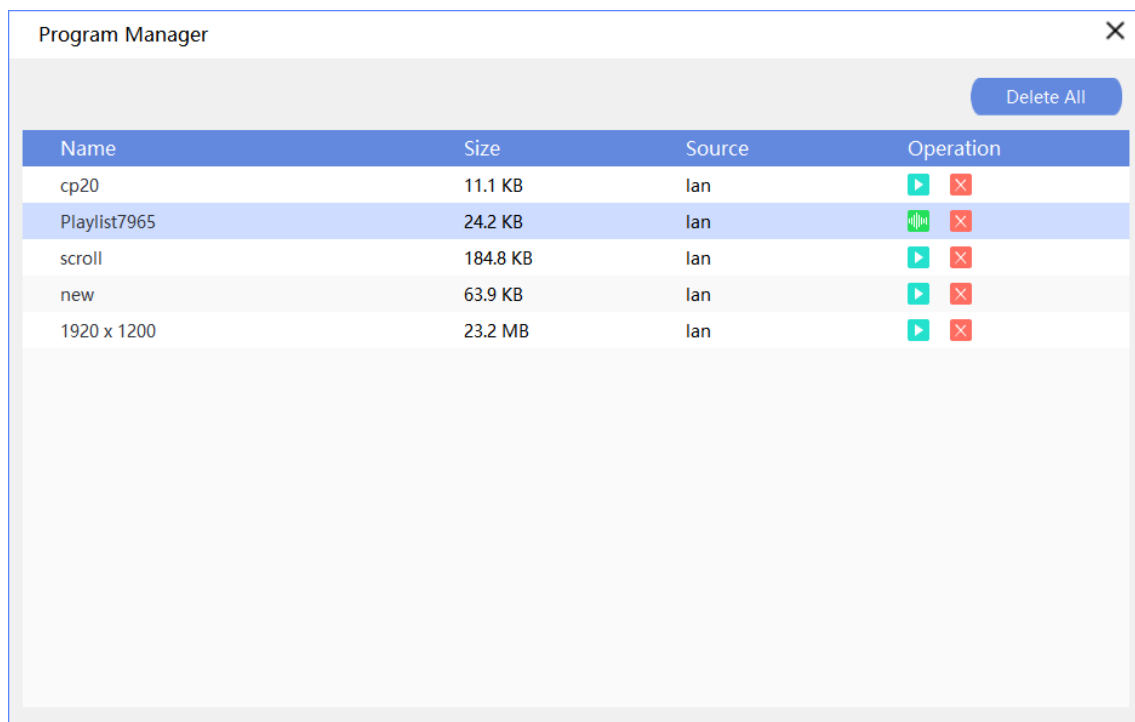


Figure 4.2-15 Terminal program management

- **Viewing Screenshot**

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



Figure 4.2-16 Screenshot

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.

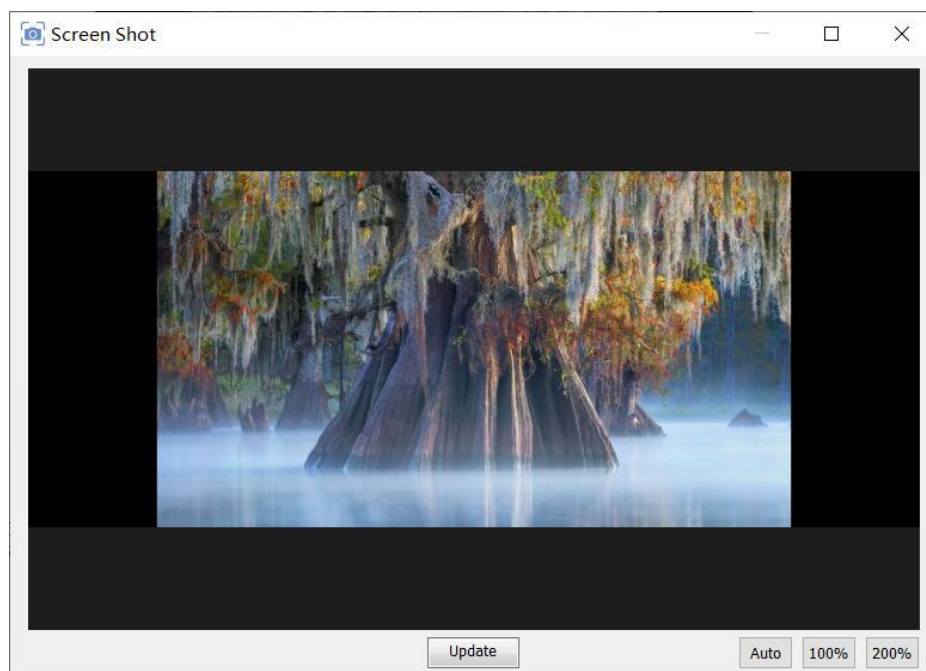


Figure 4.2-17 A larger version of screenshot

4.2.3 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.

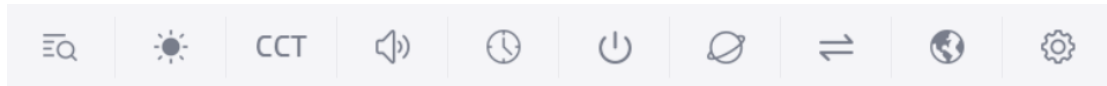



Figure 4.2-18 Terminal control toolbar

Viewing Schedules

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

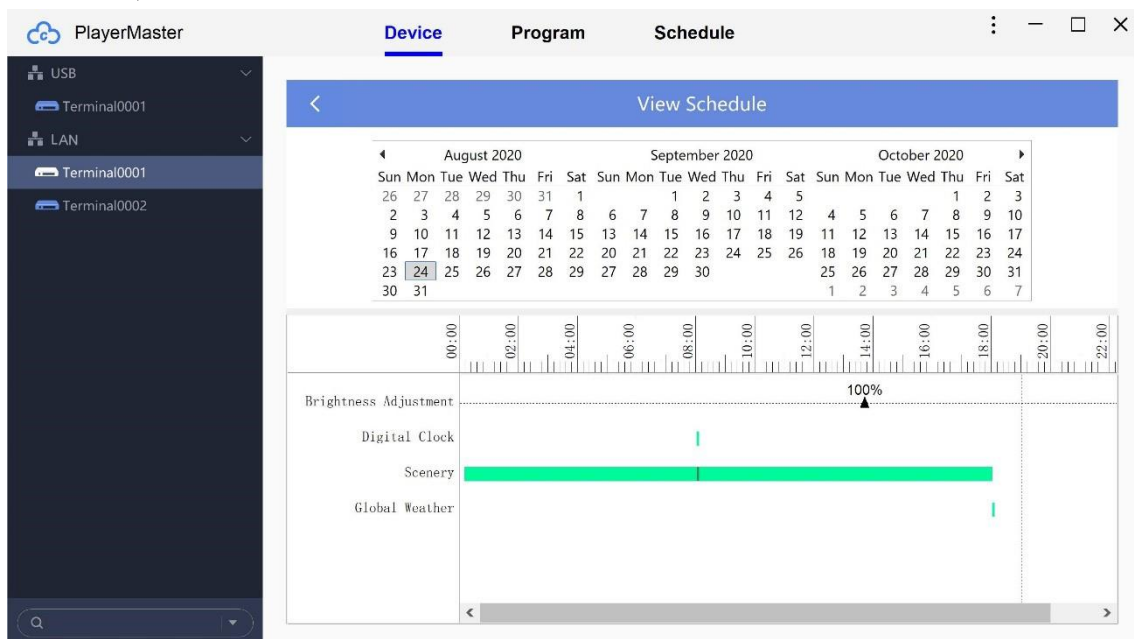

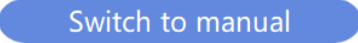


Figure 4.2-19 Viewing schedules

Brightness Settings

Click  to set screen brightness.

- **Manual Brightness Adjustment**

Click , and drag the slider to adjust screen brightness.

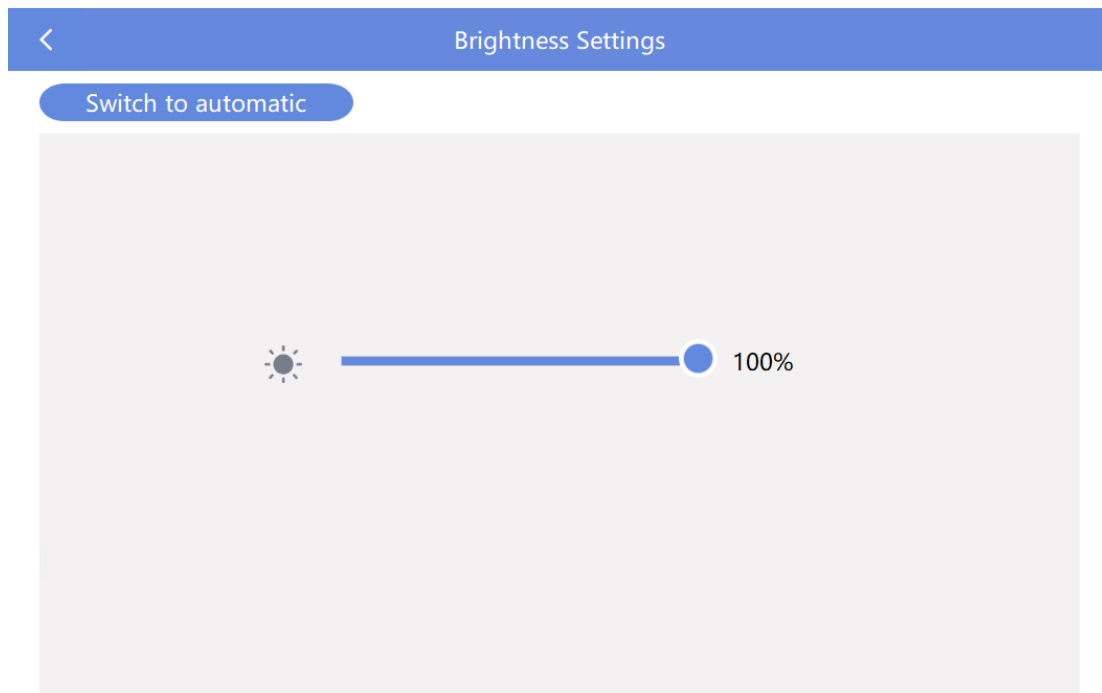


Figure 4.2-20 Brightness settings

● 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.

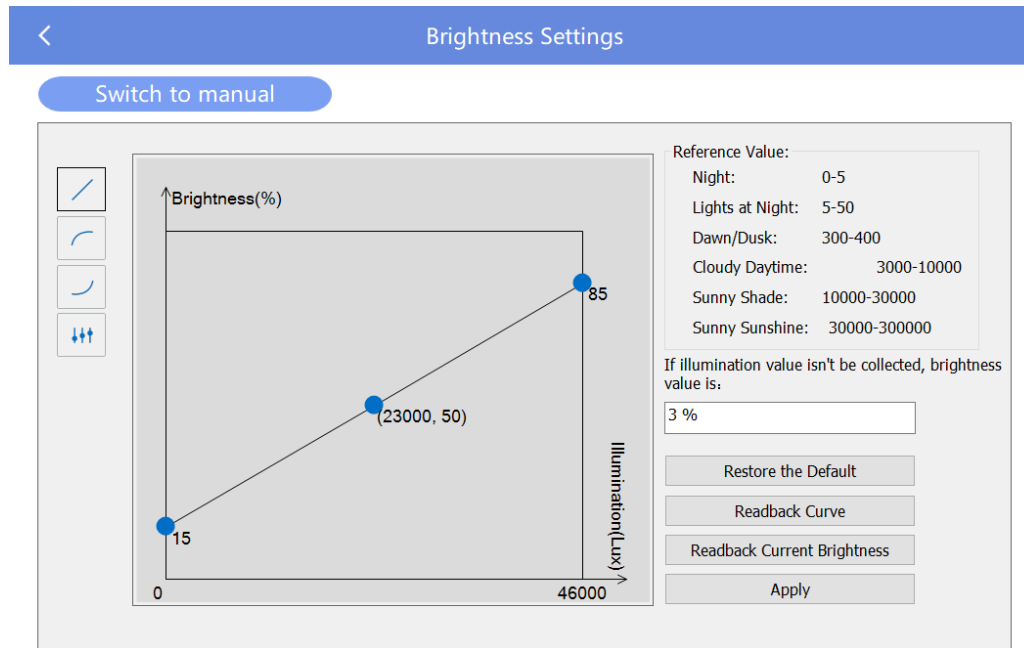


Figure 4.2-21 Automatic brightness adjustment

Setting	Function
Automatic Brightness Mode	You can select Linear, Gamma, Anti-Gamma or Custom mode.
Brightness Coordinate System	<p>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.</p> <p>In linear mode, you can adjust the minimum value, intermediate value and maximum value of the illumination to set the brightness curve.</p> <p>In gamma and anti-gamma mode, you can adjust the minimum value and maximum value of the illumination to set the brightness curve.</p> <p>In custom mode, you can set the brightness in different range.</p>
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 sensor, 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.

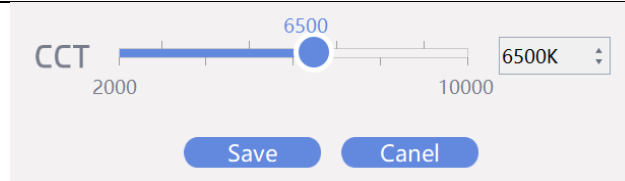


Figure 4.2-22 Color temperature adjustment

Volume Settings



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



Figure 4.2-23 Volume 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**.

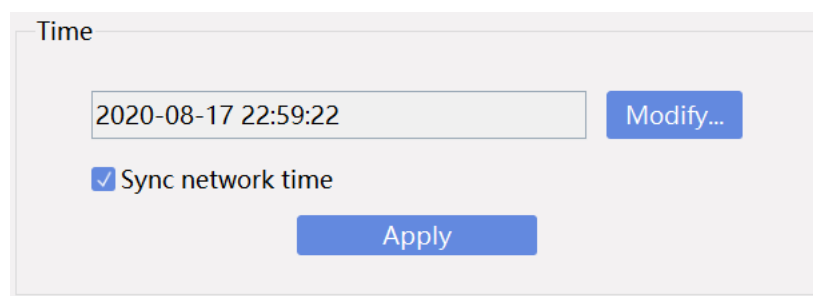


Figure 4.2-24 Time setting

● Time Zone Setting

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

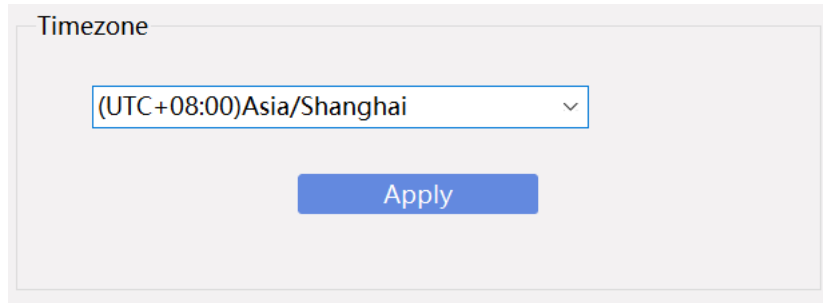


Figure 4.2-25 Time zone setting

Power Settings

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

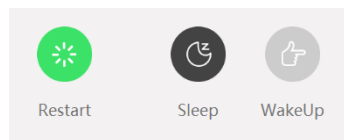



Figure 4.2-26 Power control

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.

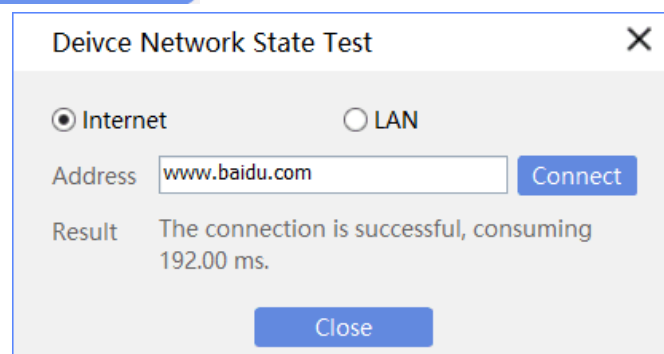



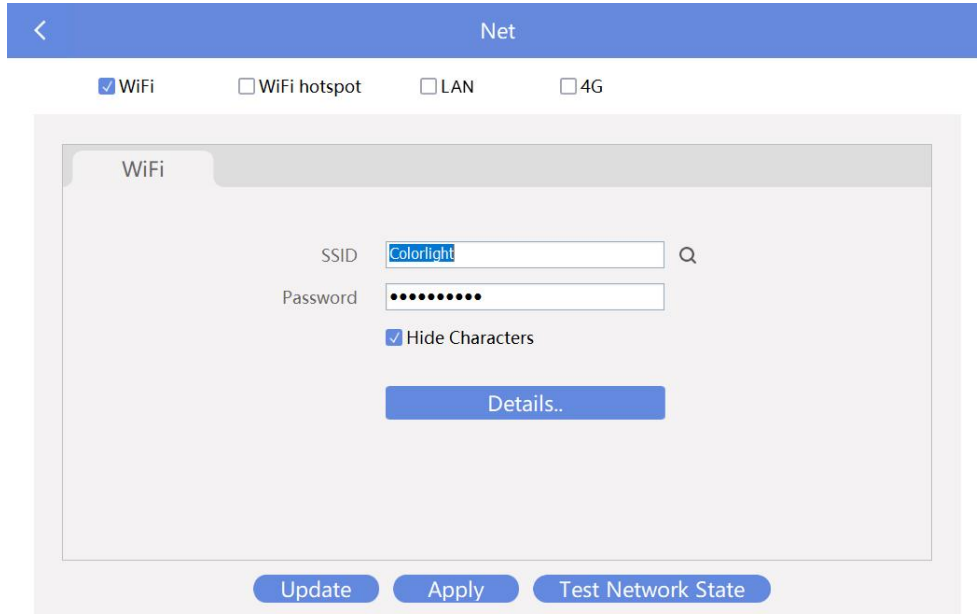
Figure 4.2-27 Checking network state

Click **Update** to refresh the network state of the terminal.

After setting, click **Apply**.

- **Wi-Fi**

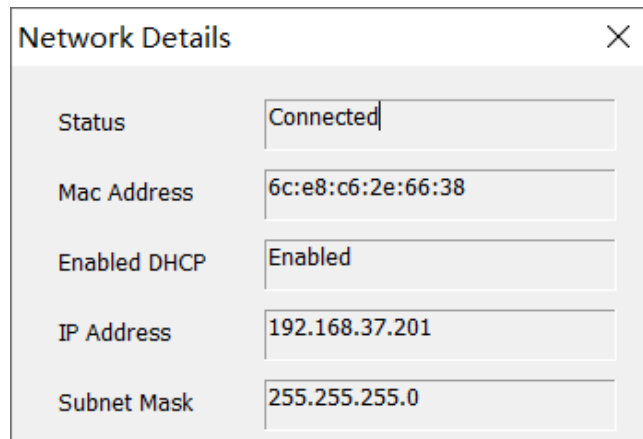
Click  to search for networks, and double-click the name of a network. Then enter the password, and click **Apply**.



The image shows a 'Net' settings screen with a blue header. Below the header are four checkboxes: ☒ WiFi, ☐ WiFi hotspot, ☐ LAN, and ☐ 4G. The 'WiFi' tab is selected. Inside the WiFi settings area, there is a 'SSID' field with the text 'Colorlight' and a search icon to its right. Below the SSID field is a 'Password' field filled with dots, and a checked checkbox labeled 'Hide Characters'. A blue 'Details..' button is positioned below the password field. At the bottom of the screen are three buttons: 'Update', 'Apply', and 'Test Network State'.

Figure 4.2-28 Wi-Fi settings

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



The image shows a 'Network Details' dialog box with a close button (X) in the top right corner. It contains a table of network information:

Status	Connected
Mac Address	6c:e8:c6:2e:66:38
Enabled DHCP	Enabled
IP Address	192.168.37.201
Subnet Mask	255.255.255.0

Figure 4.2-29 Viewing 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**.

The screenshot shows the 'Net' settings page with a blue header bar containing a back arrow and the title 'Net'. Below the header, there are four radio button options: 'WiFi', 'WiFi hotspot' (which is selected), 'LAN', and '4G'. The 'WiFi hotspot' section is expanded, showing fields for 'SSID' (a35-9001), 'Password' (masked with dots), a checked 'Hide Characters' checkbox, 'Band' (radio buttons for 2.4G and 5G, with 2.4G selected), and 'Channel' (a dropdown menu showing 1). At the bottom of the section are three buttons: 'Update', 'Apply', and 'Test Network State'.

Figure 4.2-30 Wi-Fi hotspot settings

- **LAN**

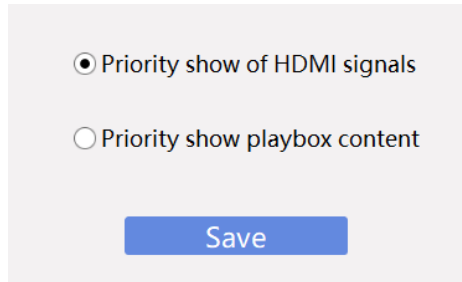
Click **Automatically Obtain IP Address**, or click **Use Following IP Address** and enter correct IP information, and then click **Apply**.

The screenshot shows the 'Net' settings page with the 'LAN' radio button selected. The 'LAN' section is expanded, showing two options: 'Automatically Obtain IP Address' (selected) and 'Use Following IP Address'. A 'Details...' button is next to the 'Use Following IP Address' option. Below these are input fields for 'IP Address' (192 . 168 . 1 . 123), 'Subnet Mask' (255 . 255 . 255 . 0), 'Gateway' (192 . 168 . 1 . 1), 'Primary DNS' (192 . 168 . 1 . 1), and 'Secondary DNS' (0 . 0 . 0 . 0). At the bottom are three buttons: 'Update', 'Apply', and 'Test Network State'.

Figure 4.2-31 LAN settings

Signal Switching

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

A light gray rectangular dialog box containing two radio button options. The first option, 'Priority show of HDMI signals', is selected with a filled circle. The second option, 'Priority show playbox content', is unselected with an empty circle. Below the options is a blue rectangular button with the word 'Save' in white text.

☒ Priority show of HDMI signals

☐ Priority show playbox content

Save

Figure 4.2-32 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**.

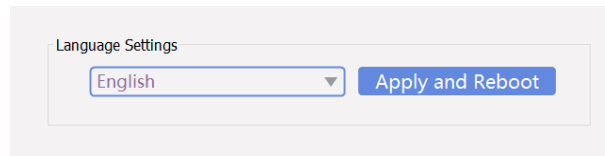



Figure 4.2-33 Language settings

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**, and **Other**

- **Screen Settings**

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

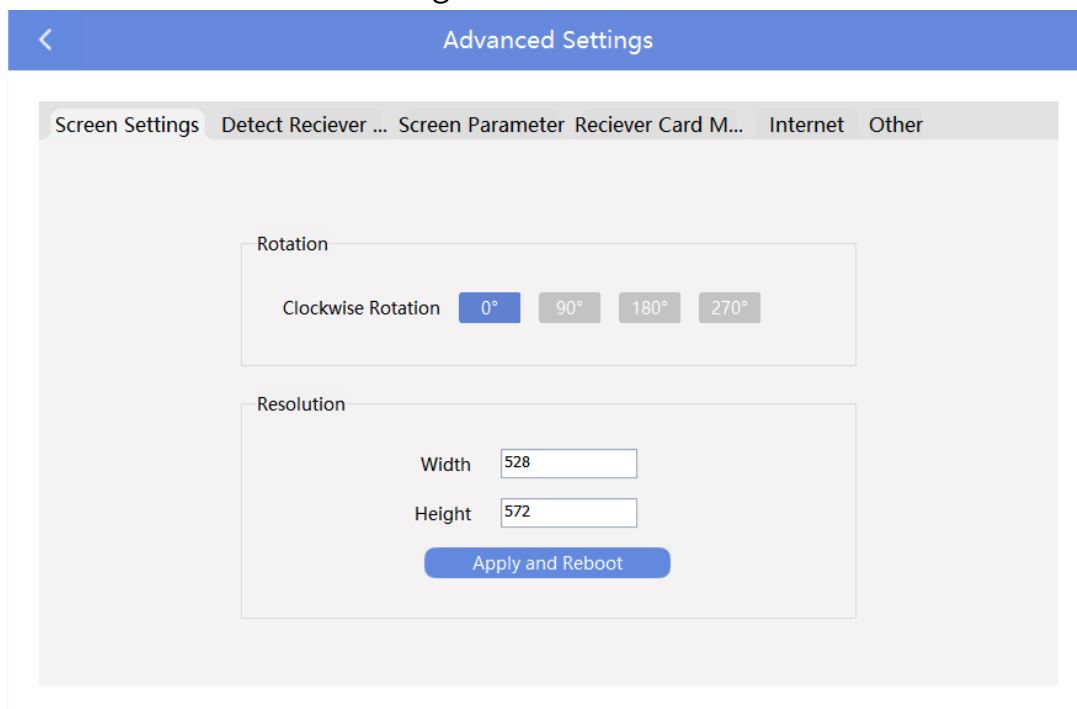
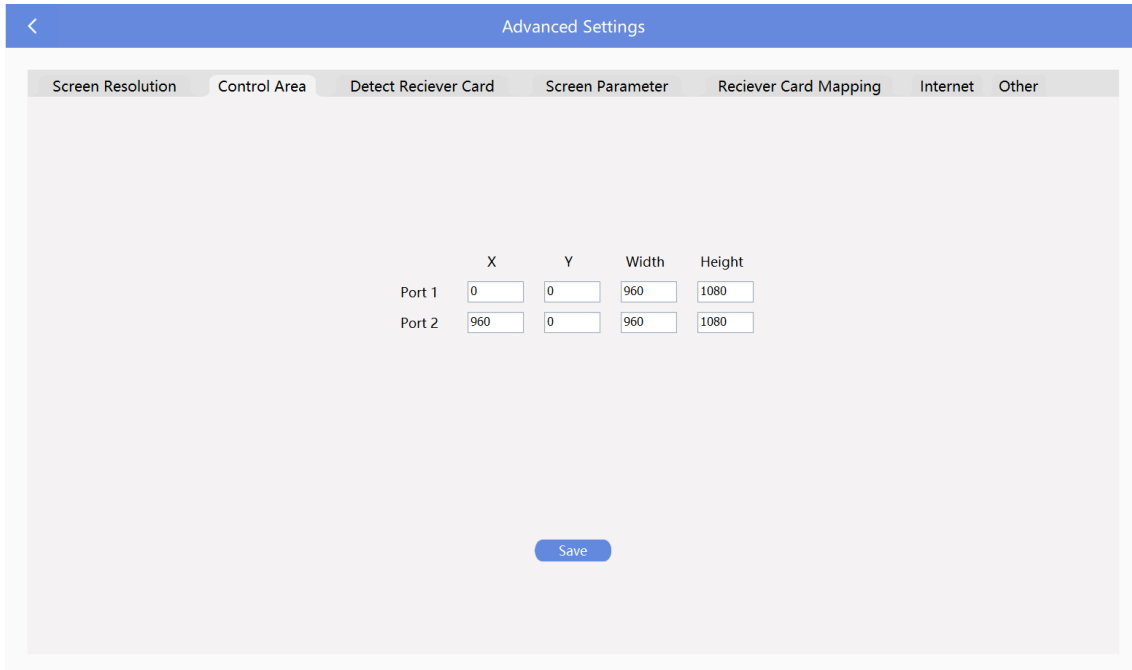


Figure 4.2-34 Screen parameter settings

- **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**.



Advanced Settings

Screen Resolution Control Area Detect Receiver Card Screen Parameter Receiver Card Mapping Internet Other

	X	Y	Width	Height
Port 1	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="960"/>	<input type="text" value="1080"/>
Port 2	<input type="text" value="960"/>	<input type="text" value="0"/>	<input type="text" value="960"/>	<input type="text" value="1080"/>

Figure 4.2-35 Control area settings

● Screen Parameter

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

The screenshot displays the 'Advanced Settings' web interface. At the top, there is a blue header bar with a back arrow and the title 'Advanced Settings'. Below this is a horizontal menu with tabs: 'Screen Settings', 'Control Area', 'Detect Reciever Card', 'Screen Parameter' (which is selected), 'Reciever Card Map...', 'Internet', and 'Other'. The main content area is divided into three sections:

- Receiver Card Parameter:** Contains two blue buttons: 'Read Screen Parameter' and 'Save Screen Parameter'.
- HDMI Input Resolution (EDID):** Contains input fields for 'Width' (set to 1920) and 'Height' (set to 1080). Below these is a 'Frame Rate' dropdown menu set to '60Hz'. A blue 'Send' button is located at the bottom of this section.
- Advanced Parameter:** Contains two unchecked checkboxes: 'Low light and high gray' and 'The connection relatio...'.

Figure 4.2-36 Screen 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.

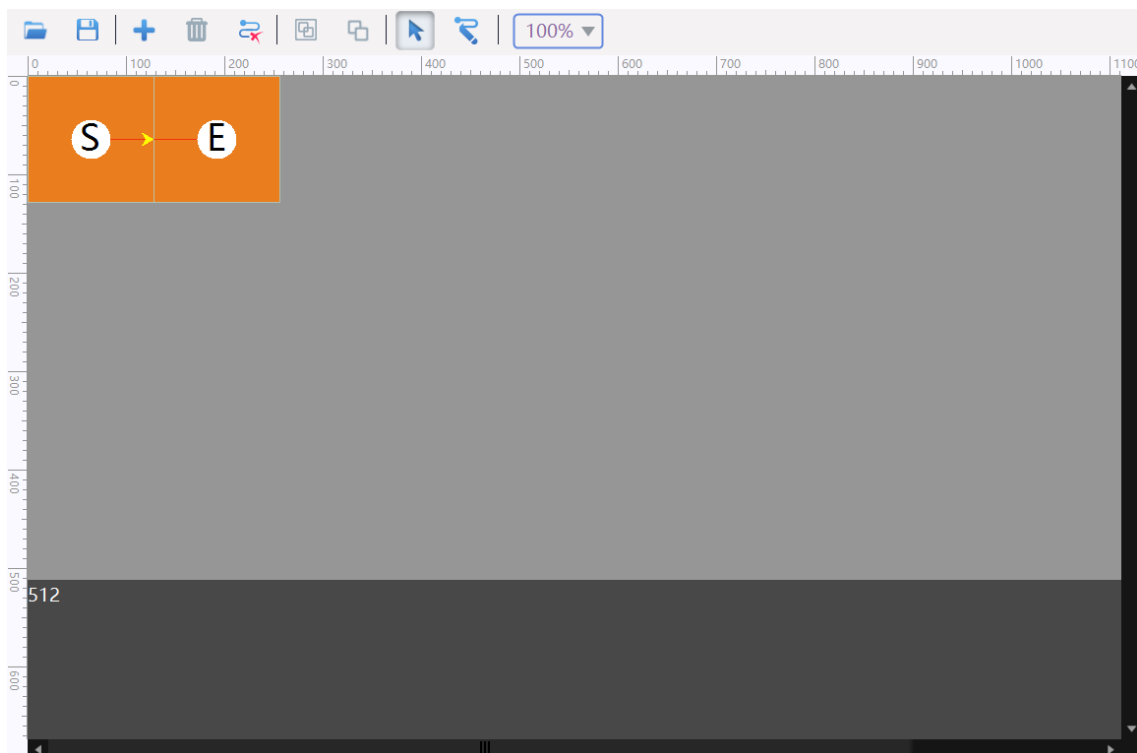
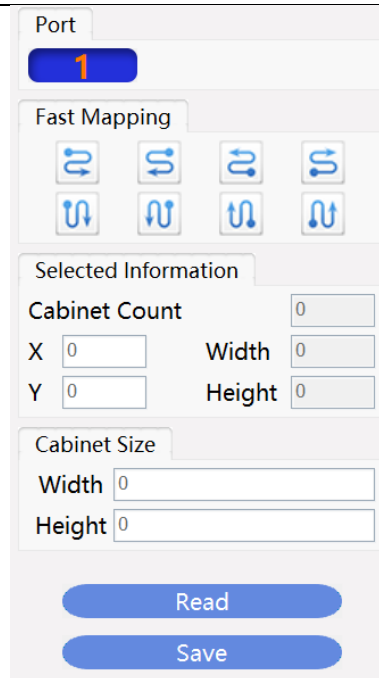


Figure 4.2-37 Mapping - Painting Area

You can change the position and size of the cabinets.



The screenshot shows a web-based configuration interface for PlayerMaster. It features several sections: a 'Port' section with a dropdown menu set to '1'; a 'Fast Mapping' section with eight icons representing different mapping patterns; a 'Selected Information' section with input fields for 'Cabinet Count' (0), 'X' (0), 'Y' (0), 'Width' (0), and 'Height' (0); and a 'Cabinet Size' section with input fields for 'Width' (0) and 'Height' (0). At the bottom, there are two blue buttons labeled 'Read' and 'Save'.

Figure 4.2-38 Mapping - cabinet settings

Figure 4.2-39 Internet account settings

- **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.

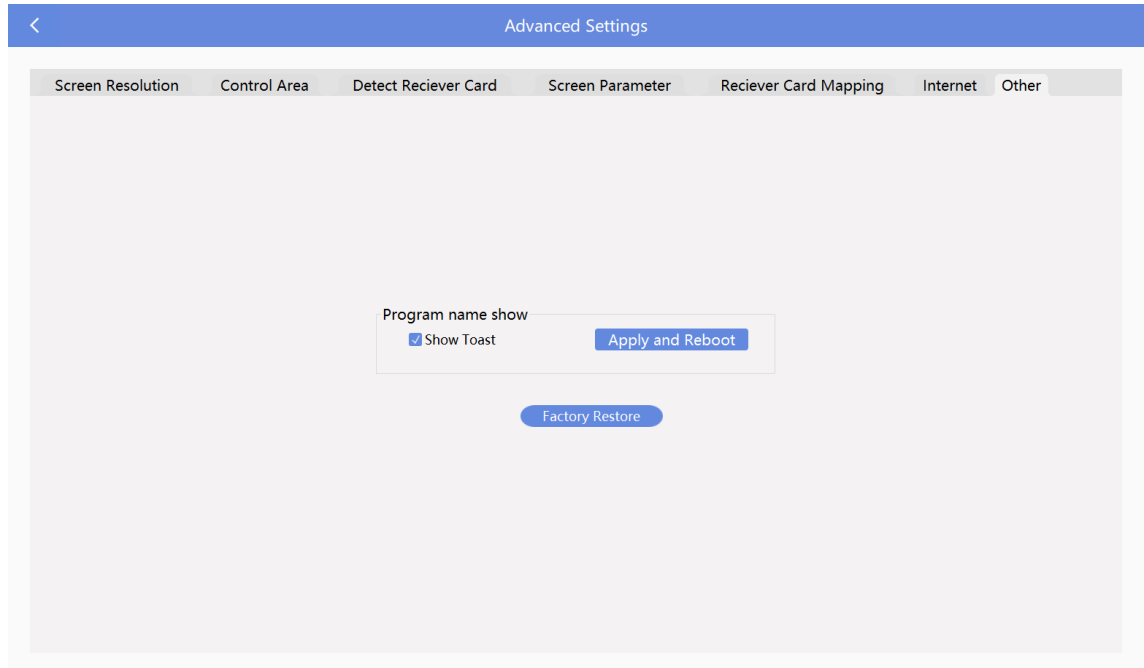


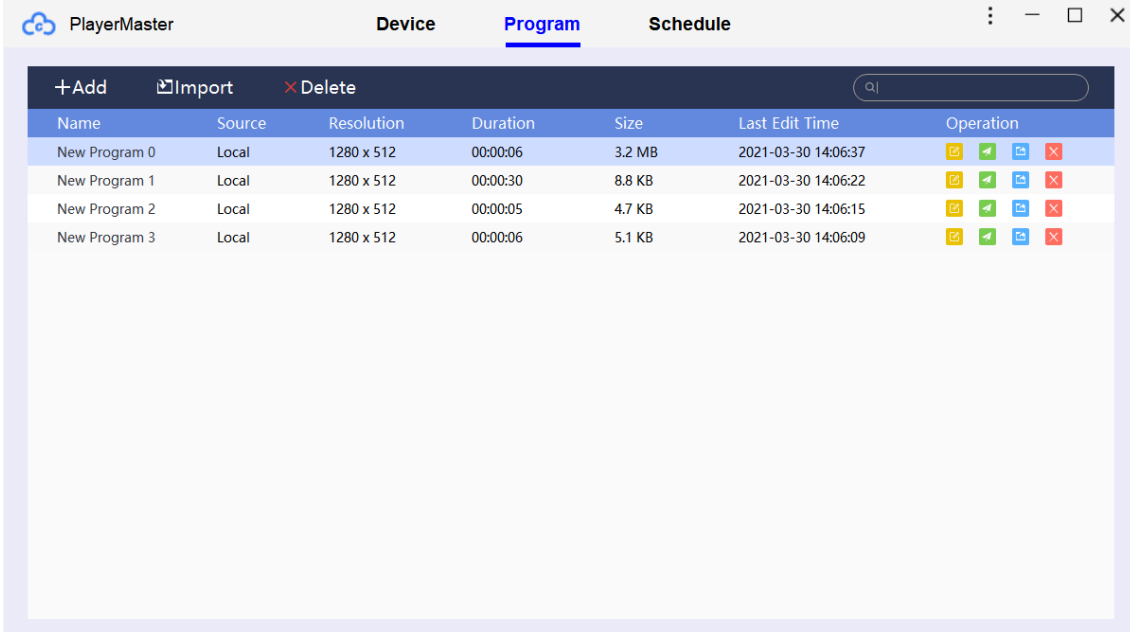
Figure 4.2-40 Advanced Settings - other settings

4.3 Program

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

4.3.1 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**.




Name	Source	Resolution	Duration	Size	Last Edit Time	Operation
New Program 0	Local	1280 x 512	00:00:06	3.2 MB	2021-03-30 14:06:37	[Edit] [Publish] [Export] [Delete]
New Program 1	Local	1280 x 512	00:00:30	8.8 KB	2021-03-30 14:06:22	[Edit] [Publish] [Export] [Delete]
New Program 2	Local	1280 x 512	00:00:05	4.7 KB	2021-03-30 14:06:15	[Edit] [Publish] [Export] [Delete]
New Program 3	Local	1280 x 512	00:00:06	5.1 KB	2021-03-30 14:06:09	[Edit] [Publish] [Export] [Delete]

Figure 4.3-1 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.

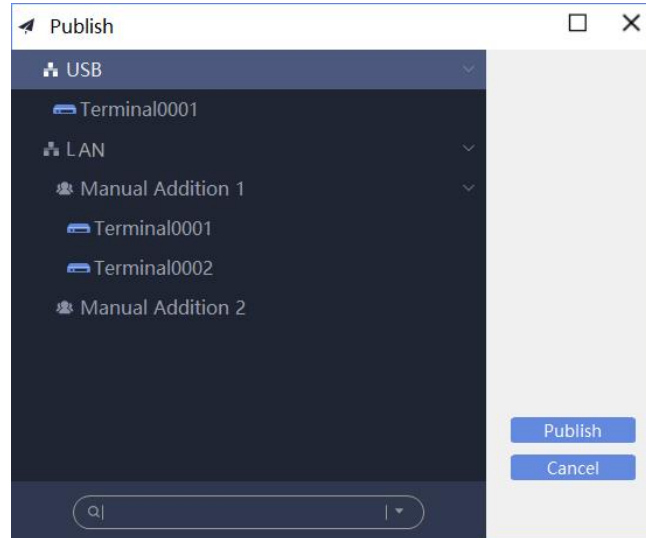



Figure 4.3-2 Publishing programs

● Exporting Programs

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

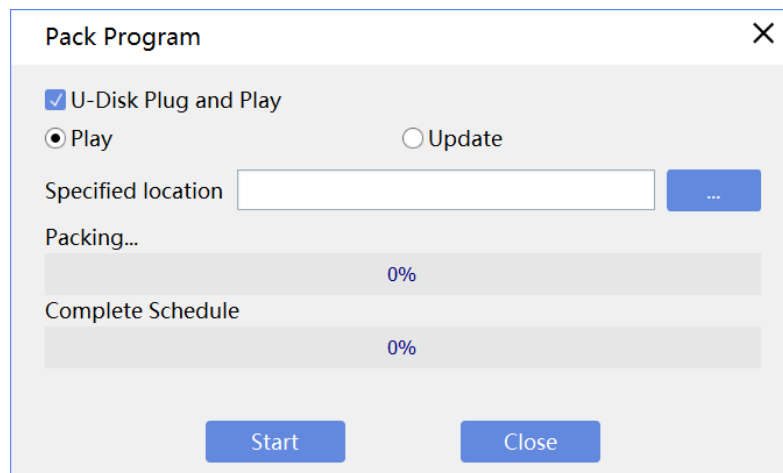




Figure 4.3-3 Program packing

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.

















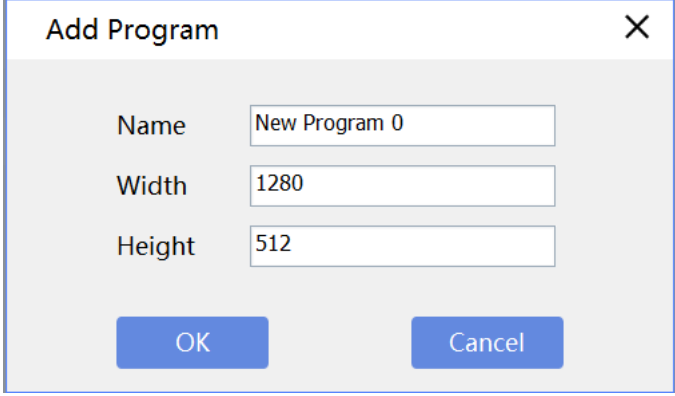
Name	Source	Resolution	Duration	Size	Last Edit Time	Operation
New Program 3	Local	1280 x 512	00:00:00	2.1 KB	2021-03-29 21:04:41	   
New Program		1280 x 512	00:00:00	2.1 KB	2021-03-29 21:04:38	   
New Program	Publish	1280 x 512	00:00:00	2.1 KB	2021-03-29 19:38:32	   
New Program	Export	1280 x 512	00:00:06	3.2 MB	2021-03-29 17:04:13	   
	Delete					
	Rename					

Figure 4.3-4 Renaming programs

4.3.2 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.



The 'Add Program' dialog box is a light gray window with a title bar containing the text 'Add Program' and a close button (X). Inside the dialog, there are three text input fields: 'Name' with the value 'New Program 0', 'Width' with the value '1280', and 'Height' with the value '512'. At the bottom of the dialog, there are two blue buttons: 'OK' and 'Cancel'.

Figure 4.3-5 Adding programs

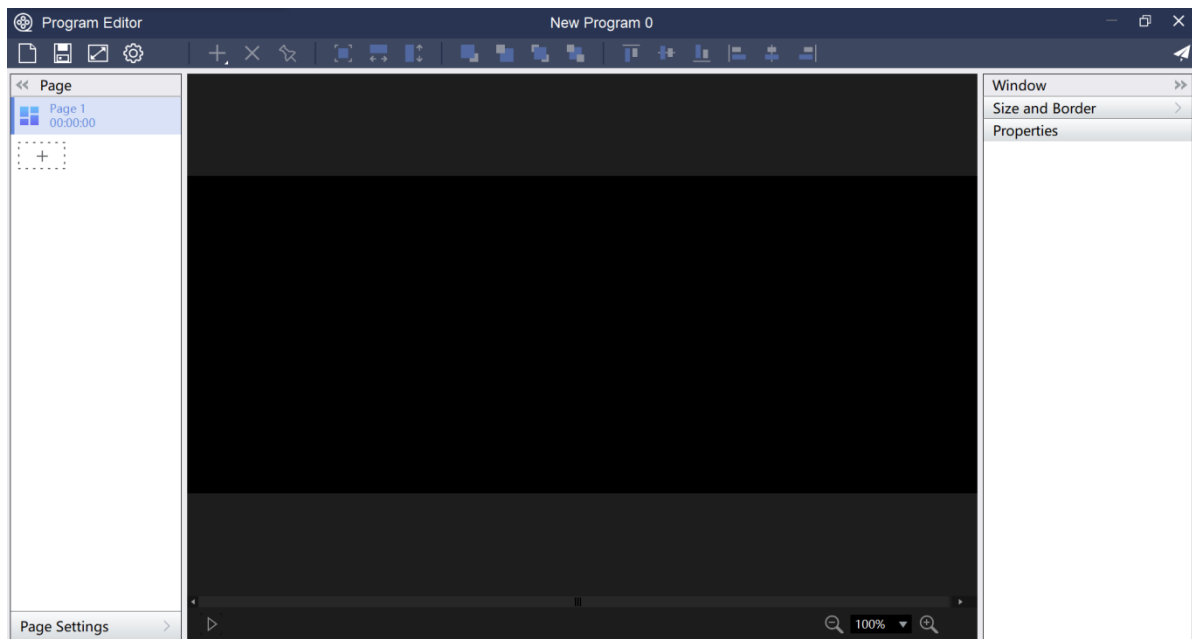


Figure 4.3-6 Editing programs

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

- **Importing Programs**

Click  **Import** to import a local program.


4.3.3 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.

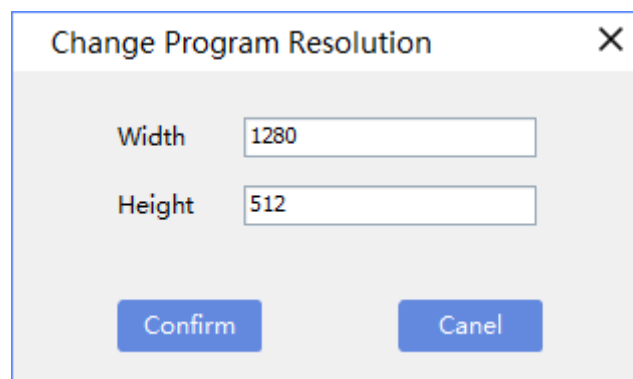



Figure 4.3-7 Setting program resolution


- **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.

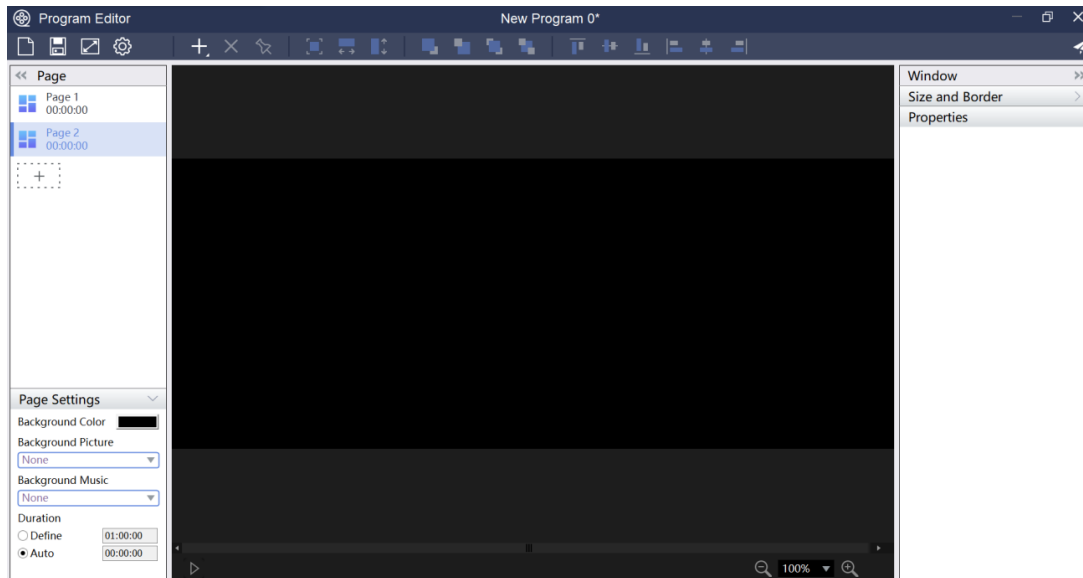


Figure 4.3-8 Program page window

- **Program Page**

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

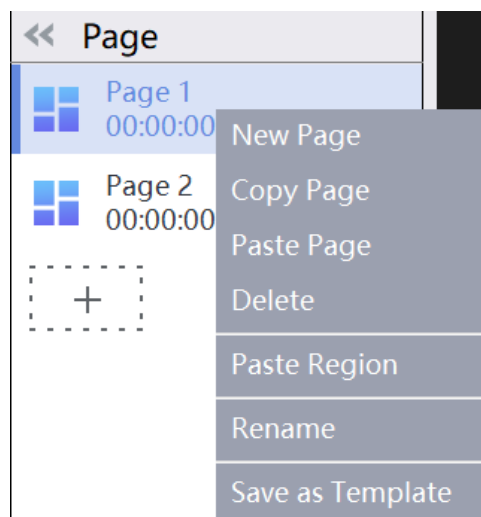



Figure 4.3-9 Right-click menu

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.

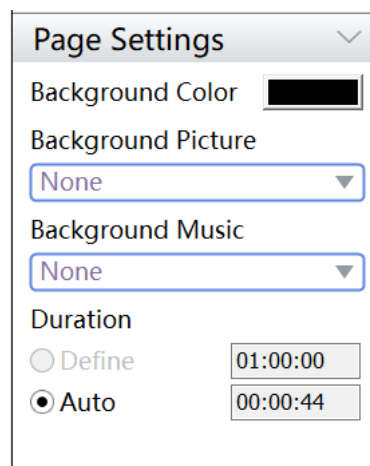


Figure 4.3-10 Page settings

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.

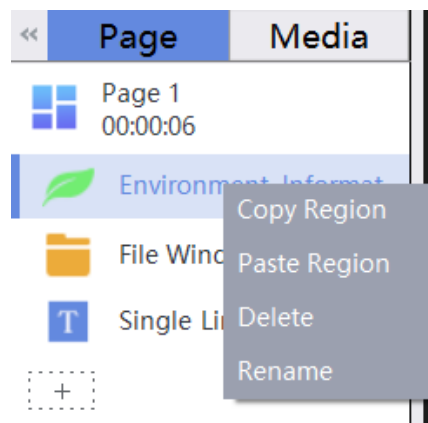


Figure 4.3-11Right-click menu

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.

Canvas

You can edit and preview the program on the canvas.

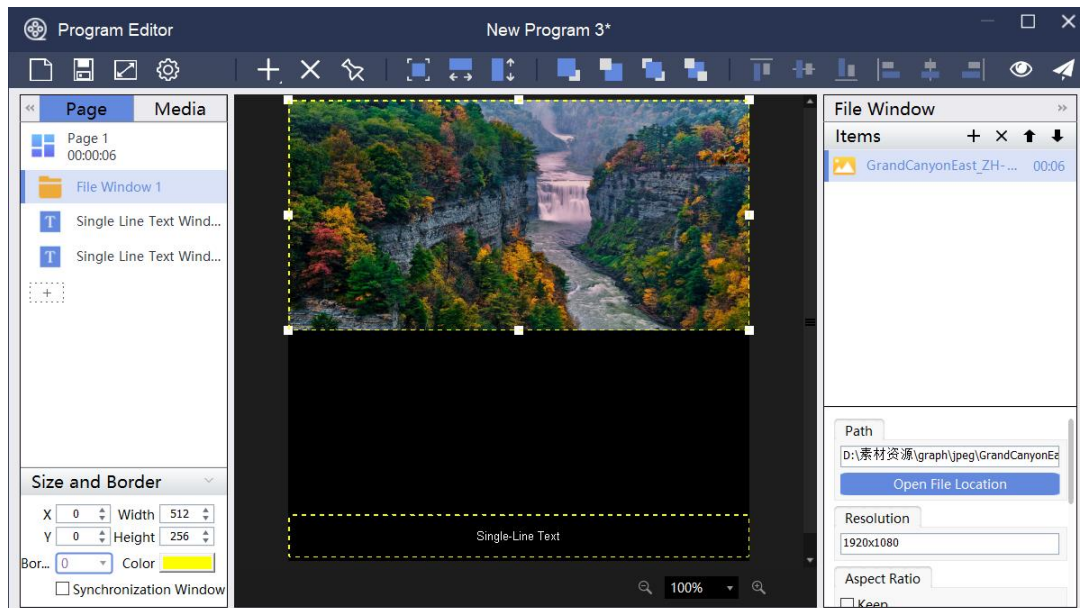



Figure 4.3-12 Canvas

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

Window Settings

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

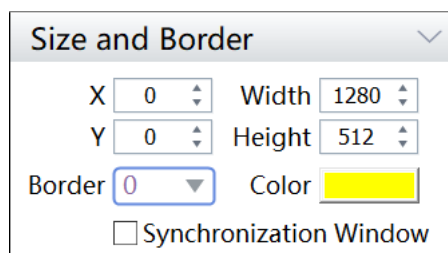


Figure 4.3-13 Window settings

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.

4.3.4 Program Window

You can create different types of program window.

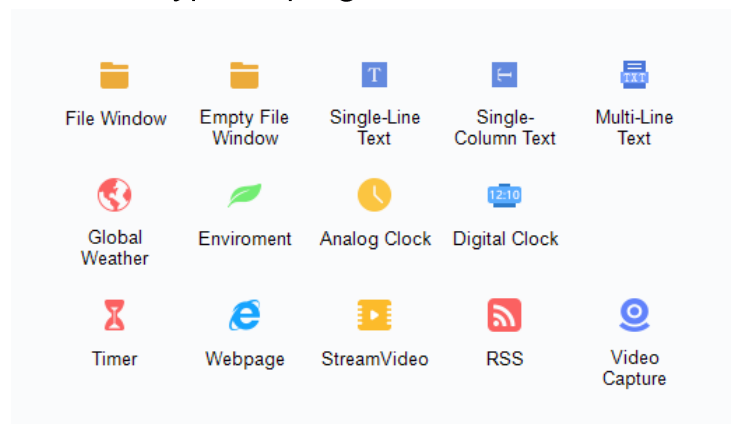


Figure 4.3-14 Type of program window

File Window

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

4.4 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.)

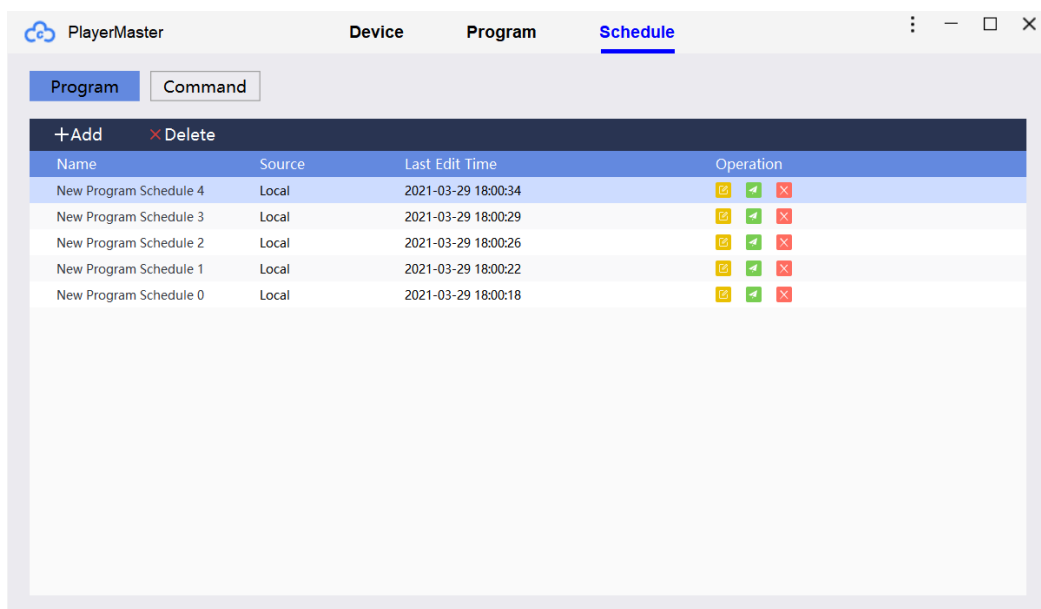
4.4.1 Program Schedule

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**.




Name	Source	Last Edit Time	Operation
New Program Schedule 4	Local	2021-03-29 18:00:34	[Add] [Publish] [Delete]
New Program Schedule 3	Local	2021-03-29 18:00:29	[Add] [Publish] [Delete]
New Program Schedule 2	Local	2021-03-29 18:00:26	[Add] [Publish] [Delete]
New Program Schedule 1	Local	2021-03-29 18:00:22	[Add] [Publish] [Delete]
New Program Schedule 0	Local	2021-03-29 18:00:18	[Add] [Publish] [Delete]

Figure 4.4-1 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.

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.

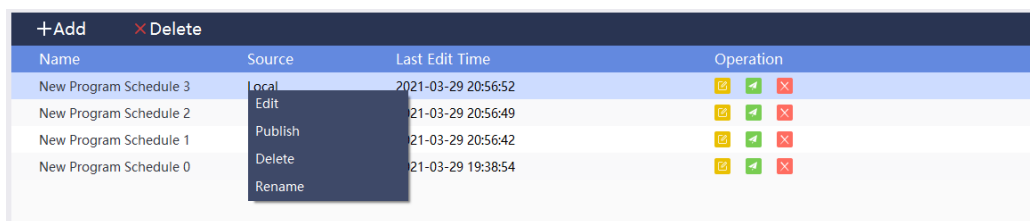


Figure 4.4-2 Renaming program schedules

Adding/Editing Program Schedules

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

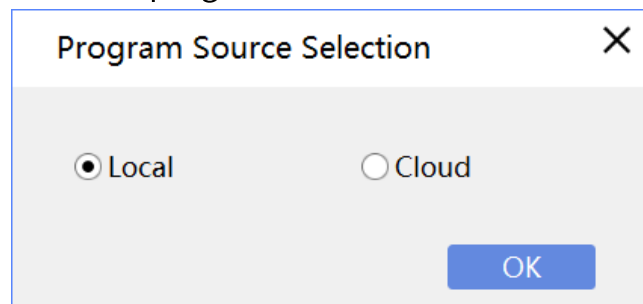


Figure 4.4-3 Adding program schedules

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

Program Schedule

Schedule Edit

View by Day

Spot

Priority	Program name	Start Time	End Time	Effective Week	Effective Date
1	New Program 0	00:00:00	23:59:59	1234567	Everyday


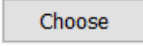
Rotation

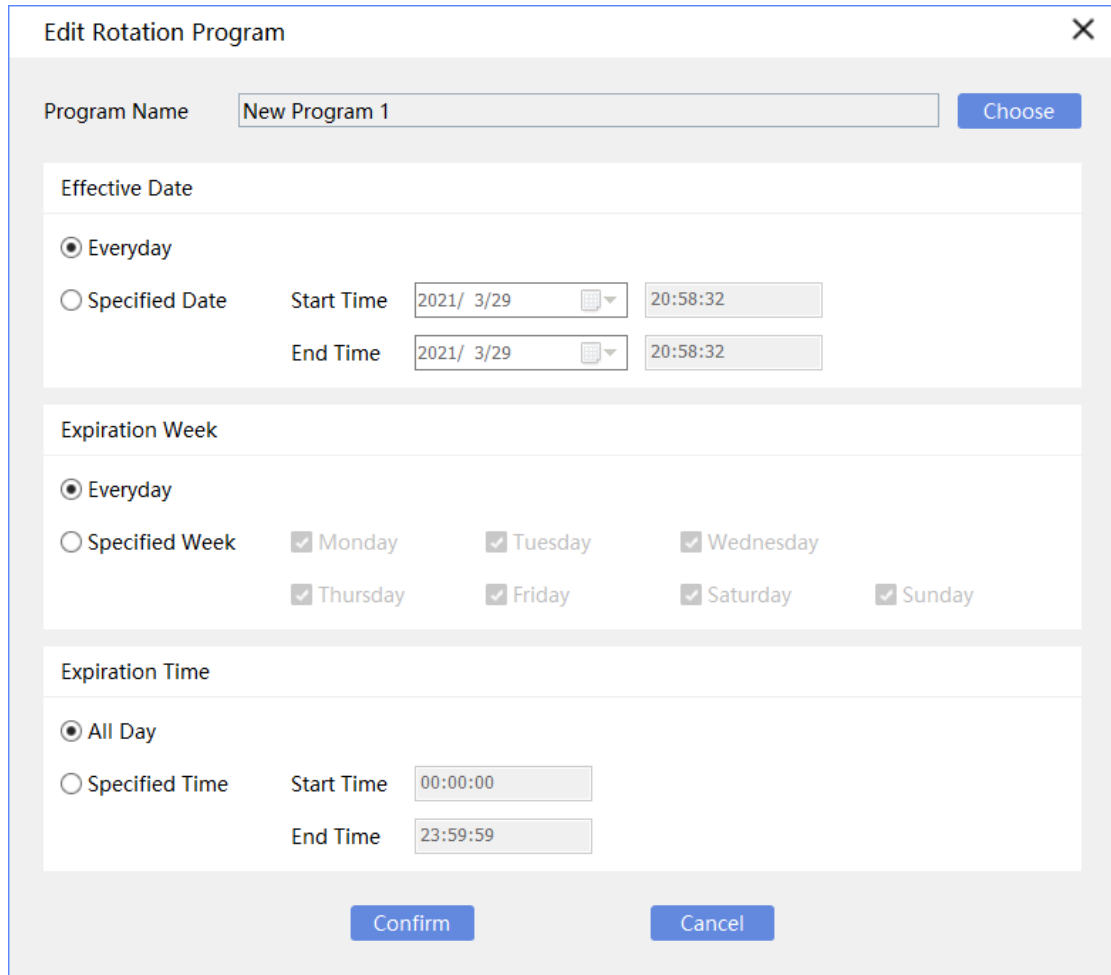
Priority	Program name	Start Time	End Time	Effective Week	Effective Date
2	New Program 1	00:00:00	23:59:59	1234567	Everyday

Spare

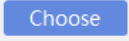
Priority	Program name	Start Time	End Time	Effective Week	Effective Date

Figure 4.4-4 Editing program schedules

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



Edit Rotation Program

Program Name: 

Effective Date

☒ Everyday

☐ Specified Date

Start Time:

End Time:

Expiration Week

☒ Everyday

☐ Specified Week

☒ Monday ☒ Tuesday ☒ Wednesday

☒ Thursday ☒ Friday ☒ Saturday ☒ Sunday

Expiration Time

☒ All Day

☐ Specified Time

Start Time:

End Time:



 

Figure 4.4-5 Program settings

Programs are played according to the following order:

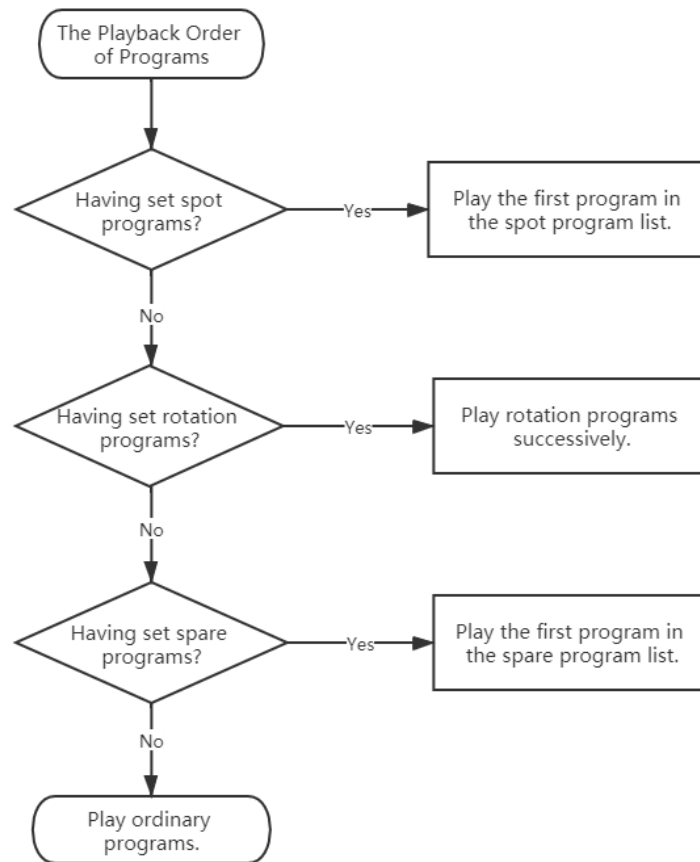






Figure 4.4-6 The playback order of programs

- 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.

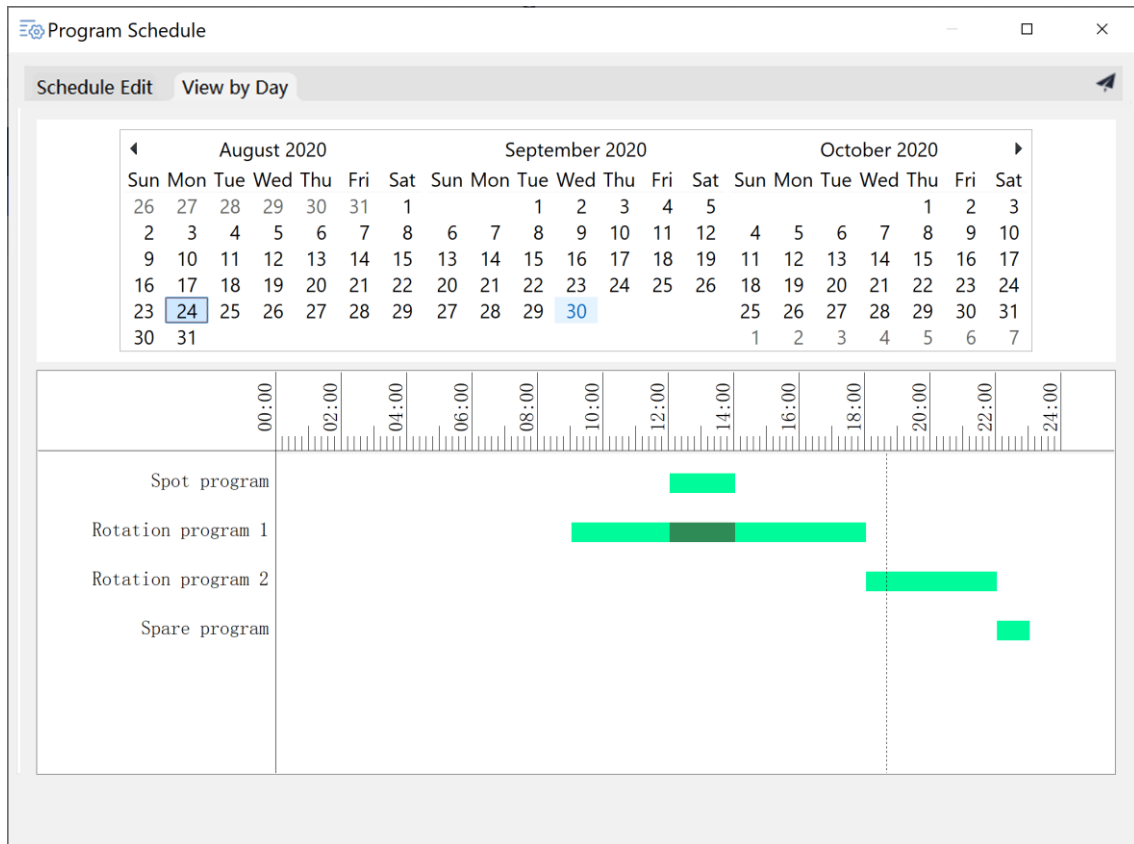


Figure 4.4-7 Viewing program schedules

4.4.2 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**.

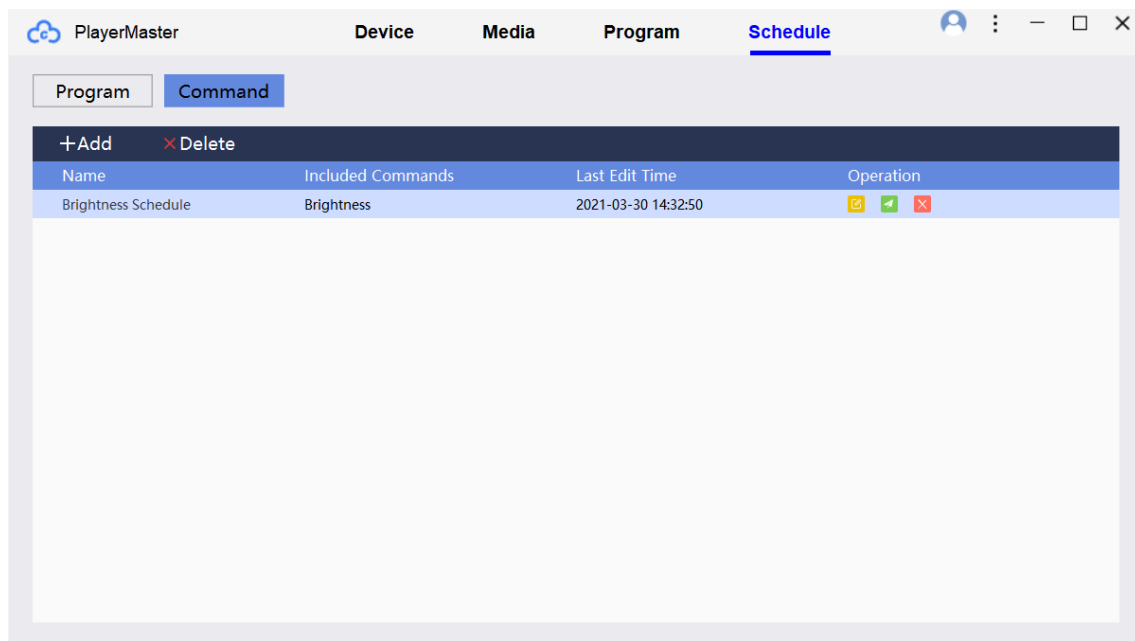




Figure 4.4-8 Command schedules

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.




+Add ✕Delete			
Name	Included Commands	Last Edit Time	Operation
New Command Schedule 0	Brightness	2021-03-29 20:24:25	  


Figure 4.4-9 Renaming command schedules

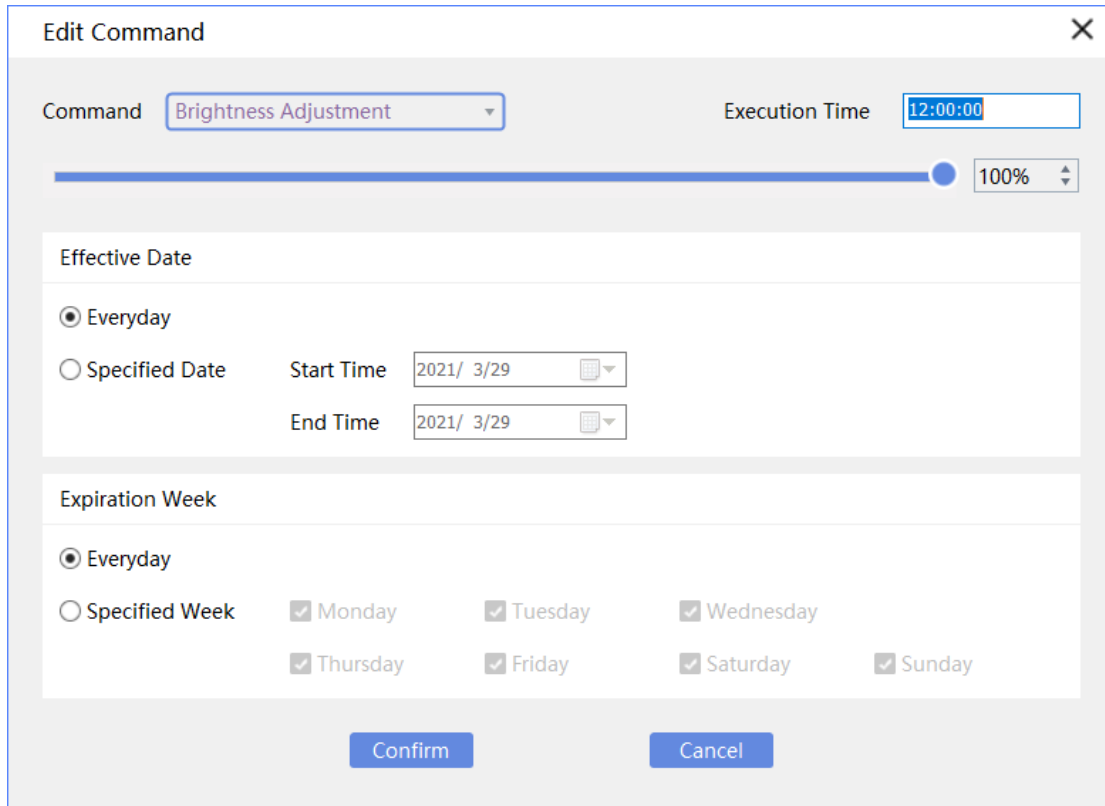
Adding/Editing Command Schedule

Click **+Add** to add new command schedules.

[illegible]

Figure 4.4-10 Editing command schedules

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



The "Edit Command" dialog box is shown with the following fields and options:

- Command:** A dropdown menu with "Brightness Adjustment" selected.
- Execution Time:** A text input field with "12:00:00" entered.
- Progress Bar:** A horizontal bar with a blue slider and a "100%" label.
- Effective Date:**
 - ☒ Everyday
 - ☐ Specified Date
 - Start Time:** 2021/ 3/29
 - End Time:** 2021/ 3/29

- Expiration Week:**
- ☒ Everyday
- ☐ Specified Week
 - ☒ Monday
 - ☒ Tuesday
 - ☒ Wednesday
 - ☒ Thursday
 - ☒ Friday
 - ☒ Saturday
 - ☒ Sunday
- Buttons:** "Confirm" and "Cancel" at the bottom.

Figure 4.4-11 Editing 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.

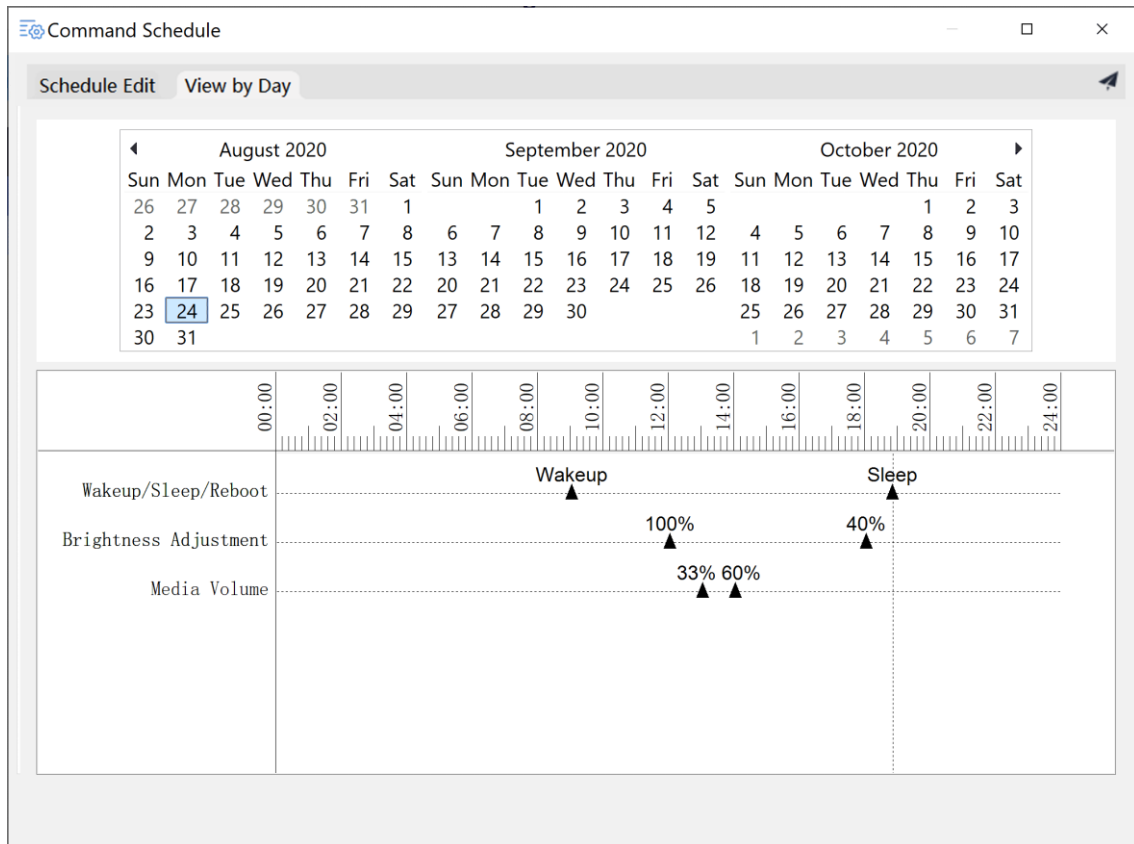


Figure 4.4-12 Viewing command schedules