Media Publish System User’s Manual

V2.00

Table of Contents

CYBERSECURITY RECOMMENDATIONS IV

Cybersecurity Recommendations iv

1 PRODUCT OVERVIEW 1

1.1 Introduction 1

1.2 System Requirement 1

2 LOGIN 2

3 SYSTEM SETTINGS 4

3.1 Business Setup 4

3.2 Area Manager 4

3.3 Department Manager 6

3.4 Role Manager 7

3.5 User Manager 8

3.6 Log Manager 9

3.7 Resolution Manager 10

4 MATERIAL 11

4.1 Material Manager 11

4.2 Video 12

5 PROGRAM 14

5.1 Program Manager 14

5.2 Notice 17

5.3 Logo 18

5.4 Release Plan-Normal Plan 19

5.5 Release Plan-Instant Plan 21

6 DEVICE MANAGER 22

6.1 Device Manager 22

6.2 Device Monitor 23

6.3 Device Version 23

6.4 Materials on Device 24

7 REPORT 26

7.1 Device Online Statistics 26

7.2 Play Statistics 26

7.3 Download Statistics 27

7.4 Play Overview 28

7.5 Abnormal Record 28

7.6 Material Content Statistics 29

7.7 Device Offline and Offline Statistics. 29

7.8 Device Plan Statistics 30

Cybersecurity Recommendations

Cybersecurity Recommendations

Mandatory actions to be taken towards cybersecurity

1. Change Passwords and Use Strong Passwords:
The number one reason systems get “hacked” is due to having weak or default passwords. It is recommended to change default passwords immediately and choose a strong password whenever possible. A strong password should be made up of at least 8 characters and a combination of special characters, numbers, and upper and lower case letters.

2. Update Firmware
As is standard procedure in the tech-industry, we recommend keeping NVR, DVR, and IP camera firmware up-to-date to ensure the system is current with the latest security patches and fixes.

“Nice to have” recommendations to improve your network security

1. Change Passwords Regularly
Regularly change the credentials to your devices to help ensure that only authorized users are able to access the system.

2. Change Default HTTP and TCP Ports:
● Change default HTTP and TCP ports for systems. These are the two ports used to communicate and to view video feeds remotely.
● These ports can be changed to any set of numbers between 1025-65535. Avoiding the default ports reduces the risk of outsiders being able to guess which ports you are using.

3. Enable HTTPS/SSL:
Set up an SSL Certificate to enable HTTPS. This will encrypt all communication between your devices and recorder.

4. Enable IP Filter:
Enabling your IP filter will prevent everyone, except those with specified IP addresses, from accessing the system.

5. Change ONVIF Password:

On older IP Camera firmware, the ONVIF password does not change when you change the system's credentials. You will need to either update the camera's firmware to the latest revision or manually change the ONVIF password.

6. Forward Only Ports You Need:

● Only forward the HTTP and TCP ports that you need to use. Do not forward a huge range of numbers to the device. Do not DMZ the device's IP address.

● You do not need to forward any ports for individual cameras if they are all connected to a recorder on site; just the NVR is needed.

7. Disable Auto-Login on SmartPSS:

Those using SmartPSS to view their system and on a computer that is used by multiple people should disable auto-login. This adds a layer of security to prevent users without the appropriate credentials from accessing the system.

8. Use a Different Username and Password for SmartPSS:

In the event that your social media, bank, email, etc. account is compromised, you would not want someone collecting those passwords and trying them out on your video surveillance system. Using a different username and password for your security system will make it more difficult for someone to guess their way into your system.

9. Limit Features of Guest Accounts:

If your system is set up for multiple users, ensure that each user only has rights to features and functions they need to use to perform their job.

10. UPnP:

● UPnP will automatically try to forward ports in your router or modem. Normally this would be a good thing. However, if your system automatically forwards the ports and you leave the credentials defaulted, you may end up with unwanted visitors.

● If you manually forwarded the HTTP and TCP ports in your router/modem, this feature should be turned off regardless. Disabling UPnP is recommended when the function is not used in real applications.

11. SNMP:

Disable SNMP if you are not using it. If you are using SNMP, you should do so only temporarily, for tracing and testing purposes only.

12. Multicast:

Multicast is used to share video streams between two recorders. Currently there are no known issues involving Multicast, but if you are not using this feature, deactivation can enhance your network security.

13. Check the Log:
If you suspect that someone has gained unauthorized access to your system, you can check the system log. The system log will show you which IP addresses were used to login to your system and what was accessed.

14. Physically Lock Down the Device:
Ideally, you want to prevent any unauthorized physical access to your system. The best way to achieve this is to install the recorder in a lockbox, locking server rack, or in a room that is behind a lock and key.

15. Connect IP Cameras to the PoE Ports on the Back of an NVR:
Cameras connected to the PoE ports on the back of an NVR are isolated from the outside world and cannot be accessed directly.

16. Isolate NVR and IP Camera Network
The network your NVR and IP camera resides on should not be the same network as your public computer network. This will prevent any visitors or unwanted guests from getting access to the same network the security system needs in order to function properly.

If there is any uncertainty or controversy, please refer to the final explanation of us.

- Please visit our website for more information.

1 Product Overview

1.1 Introduction

Media Publish System is a platform controls device, releases information, plays advertisement and etc. This platform shall be used together with Dahua internal devices for accurate control and information release and it can record detailed operation steps. MPS is applicable for shopping center, community, station, supermarket and etc.

Highlights:

1. Leading overall design and user experience.
2. Imported middleware device manager server, may support a large quantity of device operation.
3. Imported file cloud server.
4. Delicate layout of advertisement.

1.2 System Requirement

Parameter	Note
Processor	Core 2 dual core 3.0
Memory	DDR3 2GB
HDD	Space over10GB
OS	Microsoft Windows XP SP3 （32 bit）， Microsoft Windows 7
Browser	Google Chrome 3.0，released version 31.0.1650.63
Resolution	Recommend 1920×1080 Hardware supports DirectX9.0 and higher

Chart 1-1

2 Login

You can follow these steps to login MPS.

Step 1. In Google Chorme enter http://IP:9080 (IP is static IP of server), and press Enter. See Figure 2-1.

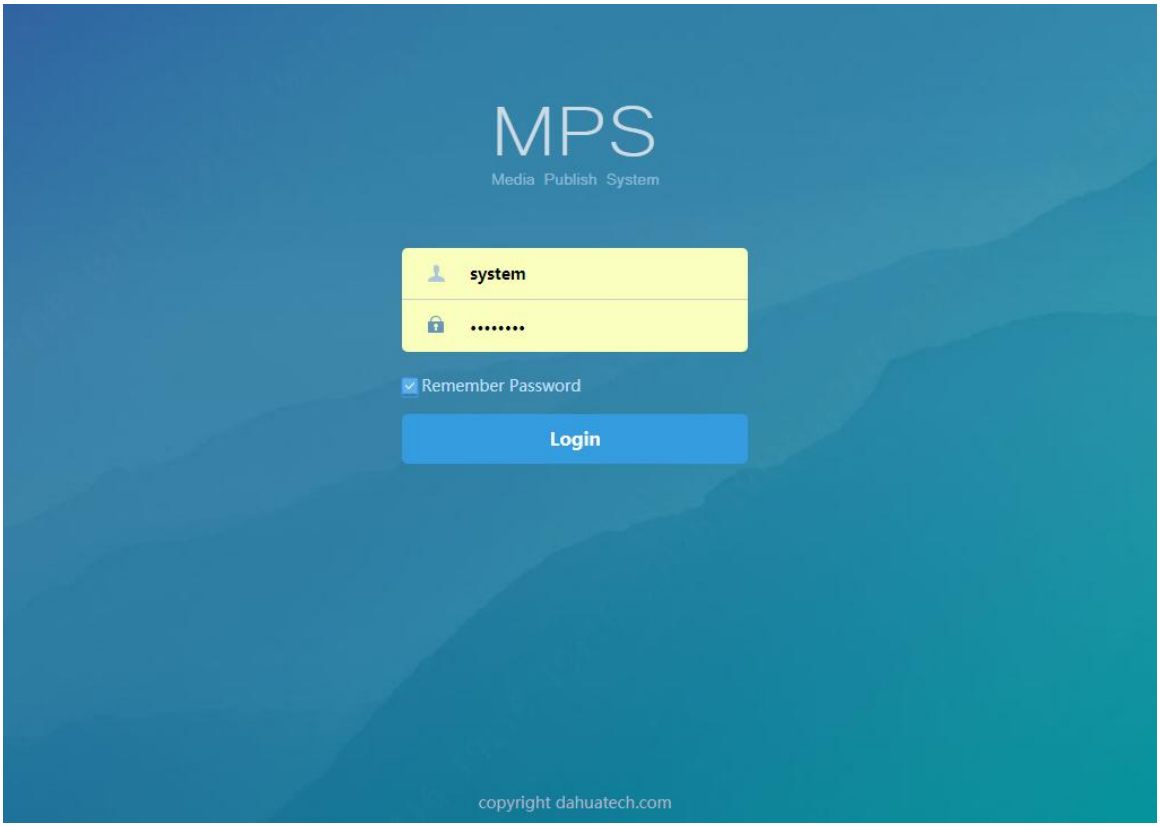


Figure 2-1

Step 2. Enter username and password.

System admin is system by default and its default password is 123456. Please change password after you log in for the first time.

Step 3. Click Login, see Figure 2-2.

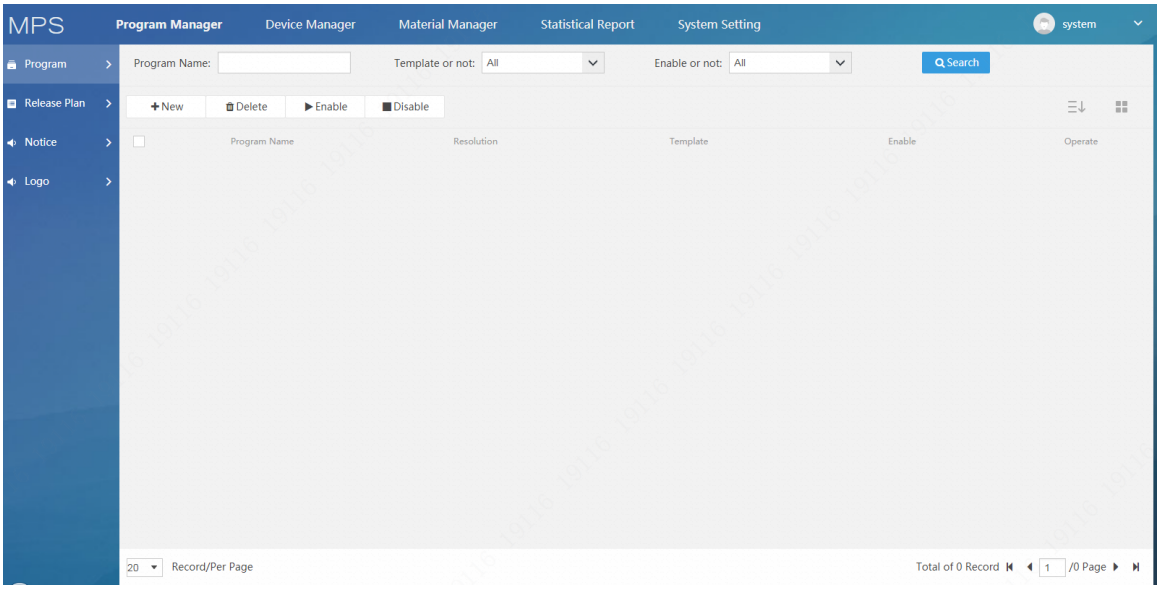


Figure 2-2

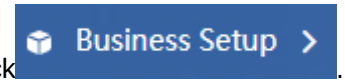
Note:

- Click username at the upper right corner to change password.
- Click Logout next to your username, and click OK in the pop-up box to exit.

3 System Settings

Comprehensive settings tab includes business setup, location manager, department manager, role manager, user manager, log manager and resolution manager.

3.1 Business Setup

Step 1. Click 

. Business setup includes publish setup and register setup.

Step 2. Select publish setup tab, see Figure 3-1.

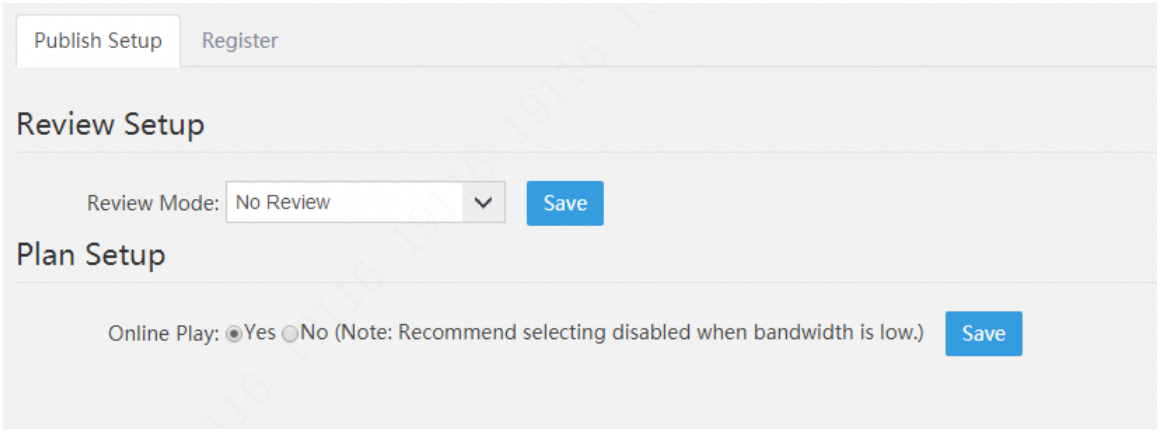


Figure 3-1

Step 3. Set review setup.

Note:

- Review mode includes no review, level 1 review and level 2 review. After play plan setup is complete, it will determine if review is necessary. User can enter review mode only if this user has corresponding review right.
- See Ch 3.5.

Step 4. Set plan setup and select if online play.

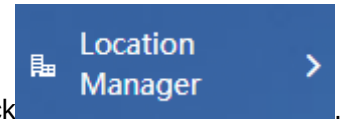
Note:

- Plan setup: you shall download video resource you want to play, and then you can play at scheduled time. Night or before dawn is recommended.
- Online play: Do not play when bandwidth is low.

Step 5. Click Save.

3.2 Area Manager

The system support to manually add location, such as: specific store. You can set device below location, see steps below:

Step 1. Click 

. System shows location manager interface.

Step 2. Click Add, see Figure 3-2.

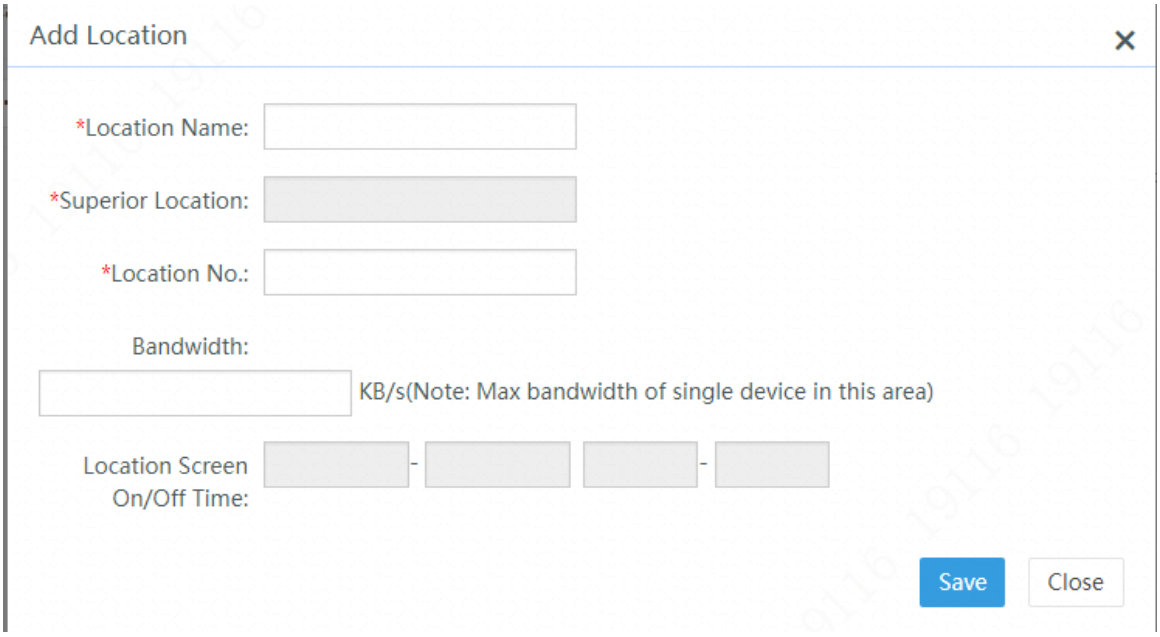


Figure 3-2

Parameter	Note
Location Name	Set current location name.
Superior Location	Click input box next to superior location and select location.
Location No.	Used to mart current location.
Bandwidth	Set max bandwidth of single device in this area.
Location Screen ON/OFF Time	Set On time of this location, during other time it is OFF.

Chart 3-1

Step 3. Set parameter of location.

Step 4. Click Save, see Figure 3-3.

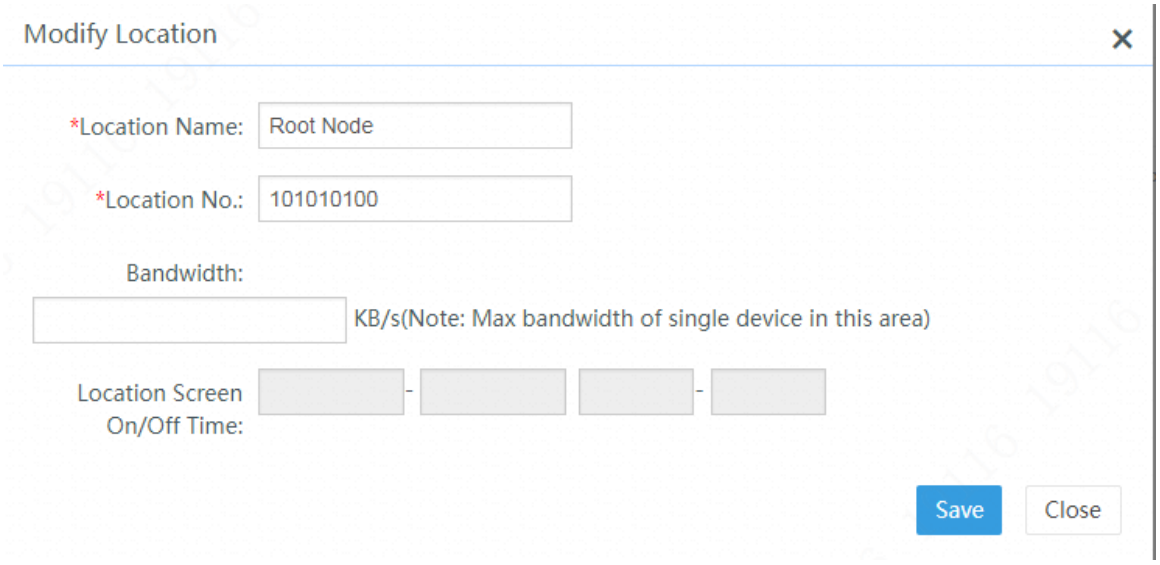


Figure 3-3

- Click to modify location info.
- Click to view location info.
- Click to delete location.
- Enter keyword to filter location, and click Search to search out matched results.

3.3 Department Manager

Department's corresponding business organization allow you to set user and device. One user can only see devices under a same department.

Step 1. Click Department Manager.

Step 2. Select root department, click New. See Figure 3-4.

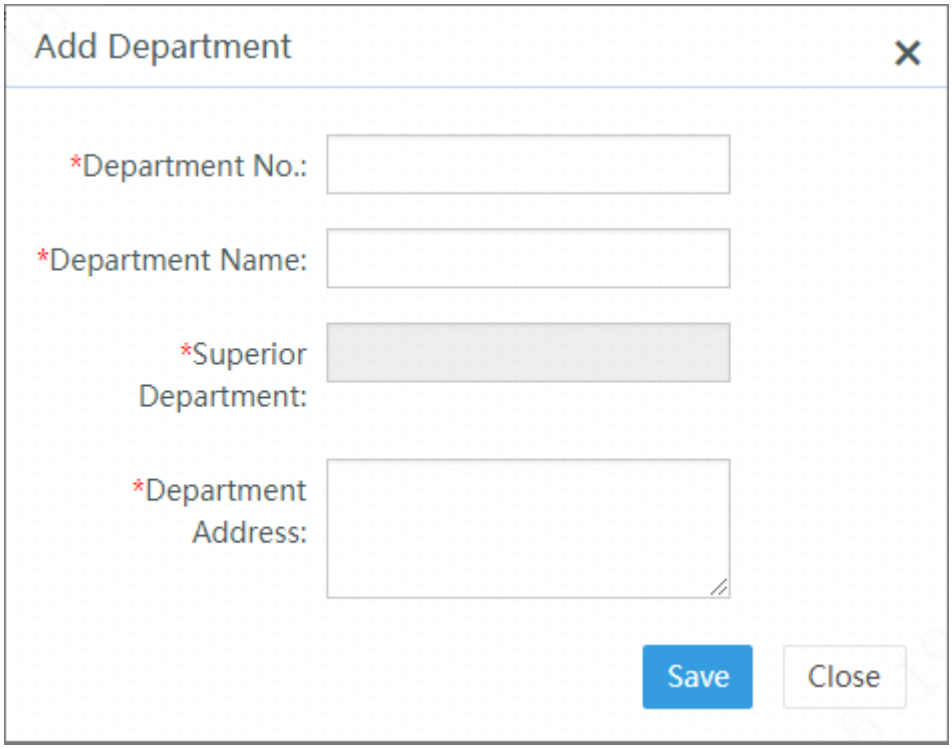


Figure 3-4

Step 3. Set department no., department name, superior department, department address and etc.

Step 4. Click Save. You can modify, delete existing department, or continue to add more departments.

3.4 Role Manager

Before setting role, you shall set role and authorize the role with right.

Step 1. Click

.

Step 2. Click Add, see Figure 3-5.

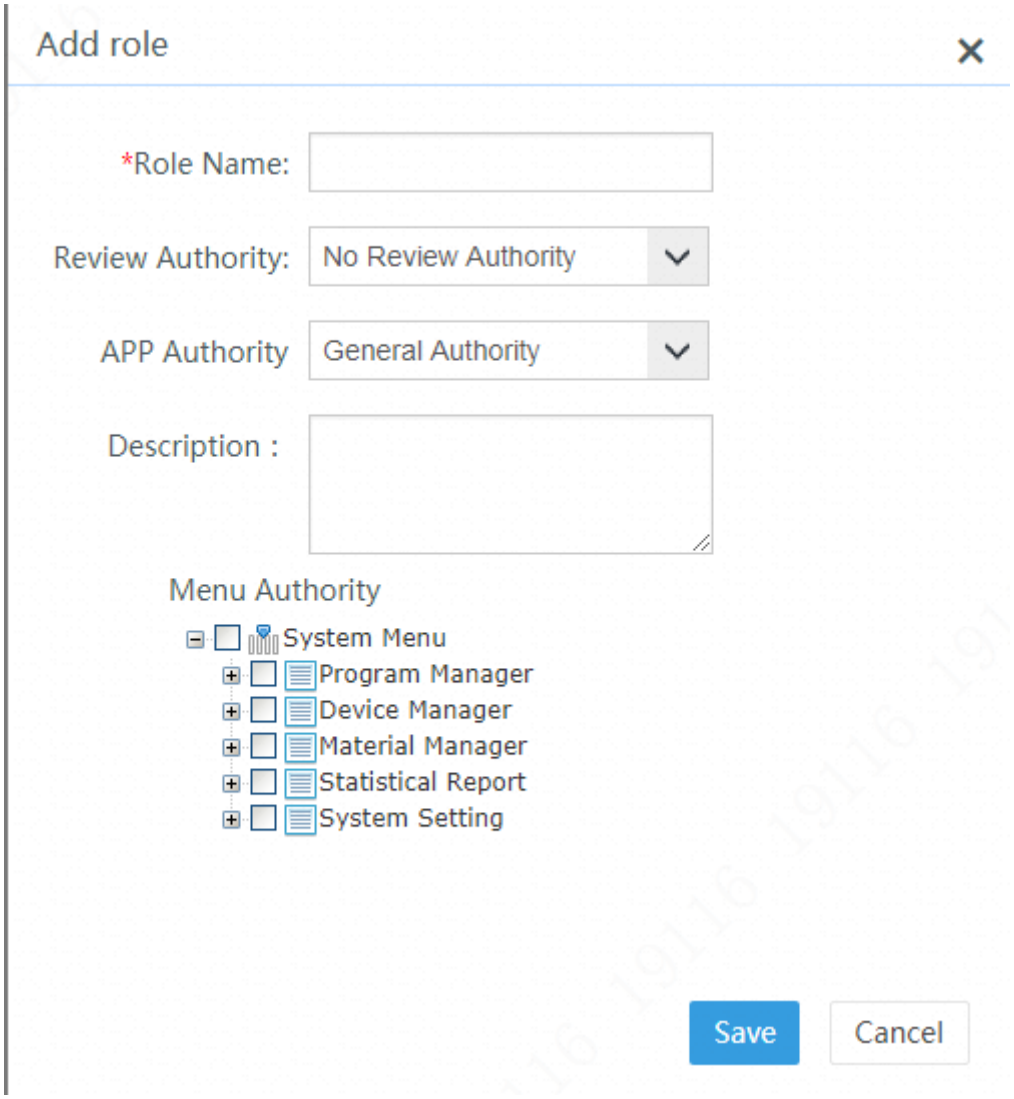


Figure 3-5

Step 3. Enter role name, select review right, APP right.

Note:

App right is to modify right of APP on the device. In general, APP user shall enter APP password before he/she can modify APP user password; super APP users do not need to enter APP user password.

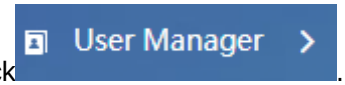
Step 4. In menu right tab, select corresponding right.

Step 5. Click Save.

You can modify and delete existing role.

3.5 User Manager

If you have added user department and role, you can add user of this department or role.

Step 1. Click 

.

Step 2. Select department, click Add, see Figure 3-6.

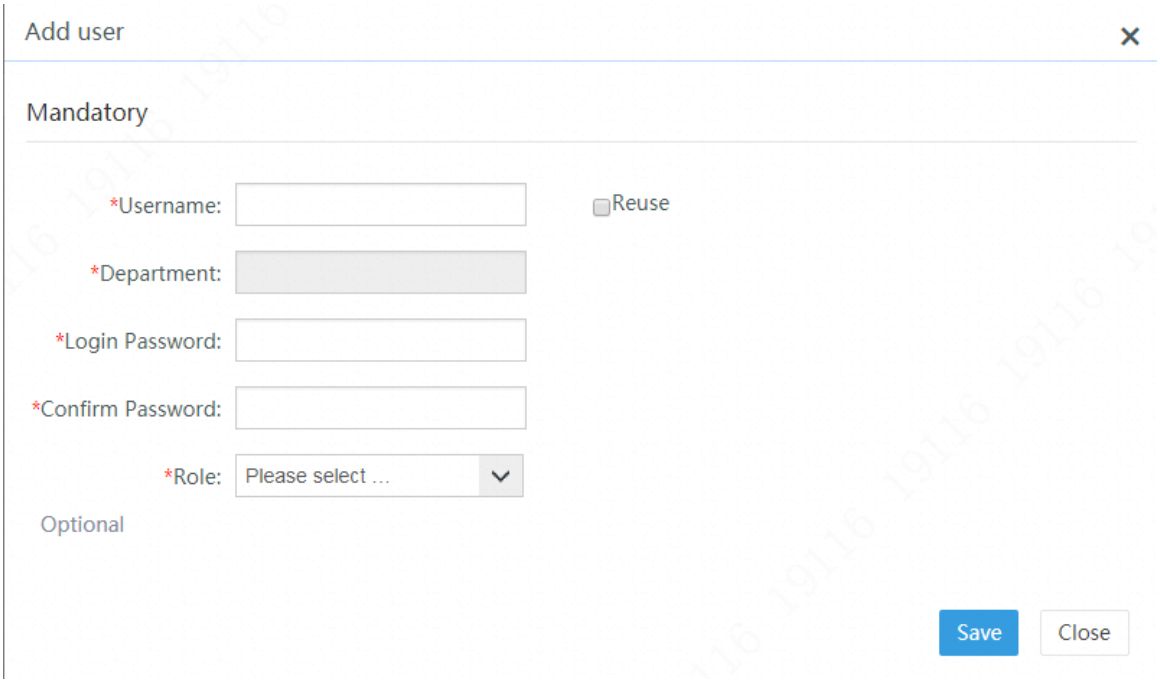


Figure 3-6

Step 3. In Mandatory area, enter username, password and confirm password. Select department and role.

Note:

If you check Reply next to username, then more than one user can login with this same username.

Step 4. Click Optional, set name, ID no., email, and other info of this user.

Step 5. Click Save.

You can modify user, reset password and delete password.

3.6 Log Manager

In Log Manager, you can select module, operation, user, start time, end time and etc. to filter log. See Figure 3-7.

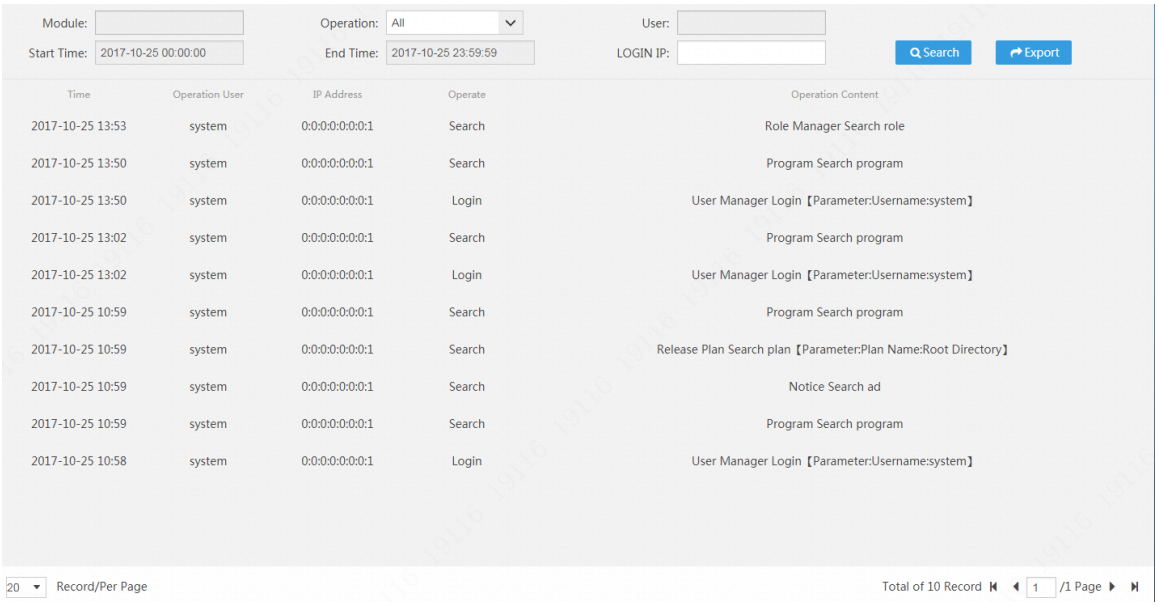
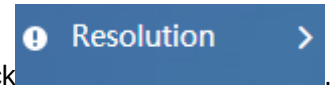


Figure 3-7

3.7 Resolution Manager

Resolution is the resolution of device.

Step 1. Click 

.

Step 2. Click Add, see Figure 3-8.

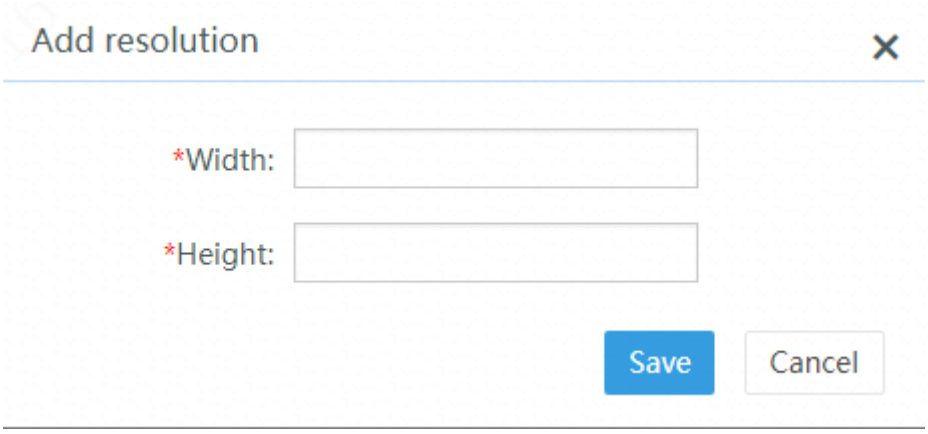


Figure 3-8

Step 3. Enter width and height, which shall match hardware.
Step 4. Click Save.

4 Material

The system supports material manager, which support picture, video, office file to be uploaded and projected on device.

4.1 Material Manager

Step 1. Click

.The system shows material manager interface and

menu by dedault. The user can only see matrial uploaded by himself and shared by others, see Figure 4-1.

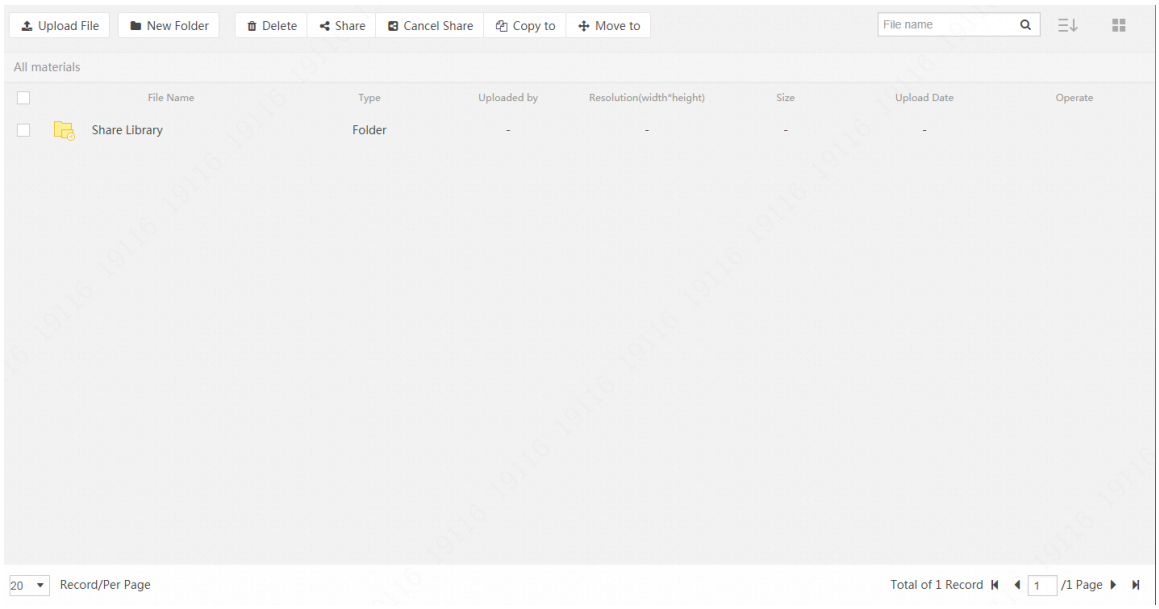


Figure 4-1

Step 2. Double click list, to open file. See Chart 4-1.

Parameter	Note
Upload File	Upload picture, video, file and other material to server.
New Folder	New folder.
Delete	Delete material.
Share	Check material to share, or you can place mouse at row of material, click to share material. Other user can view shared material.
Cancel Share	Cancel sharing of material, or you can place mouse at row of material, click to cancel.
Copy to	Check material, copy material to other folder.

Move to	Check material, move material to other folder.
	Place mouse at row of picture, click to download.
	Place mouse at row of picture, click to modify.
	You can move, copy, rename, or delete picture or folder.
	Click at upper right ocrner, to show folder and picture.
	Click at upper right ocrner，to show folder and picture thumbnail, and you can directly view picture.

Chart 4-1

4.2 Video

Step 1. Click Monitor Device, see Figure 4-2.

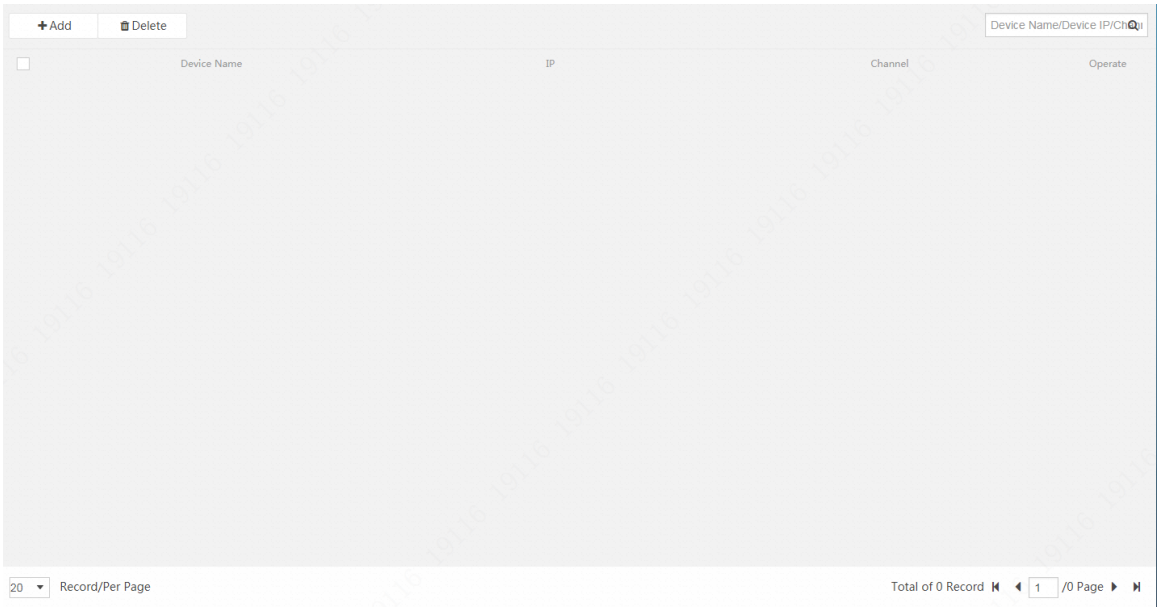


Figure 4-2

Button instructions are in Chart 4-2.

Parameter	Note
Add	Create new monitor device.
Delete	Select monitor device record, to delete device.

Chart 4-2

Step 2. Click New button, see Figure 4-3.

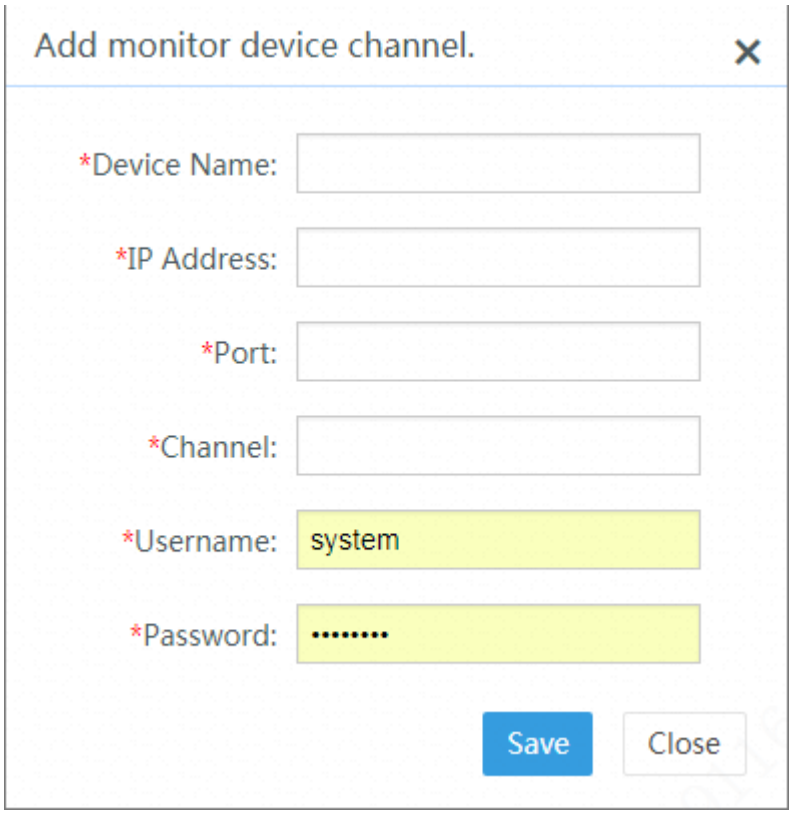


Figure 4-3

5 Program

Before MPS release info, you can add new program and set it as template.

5.1 Program Manager

To add program:

Step 1. Click Program Manager. System shows program interface.

Step 2. Click + New. See Figure 5-1.

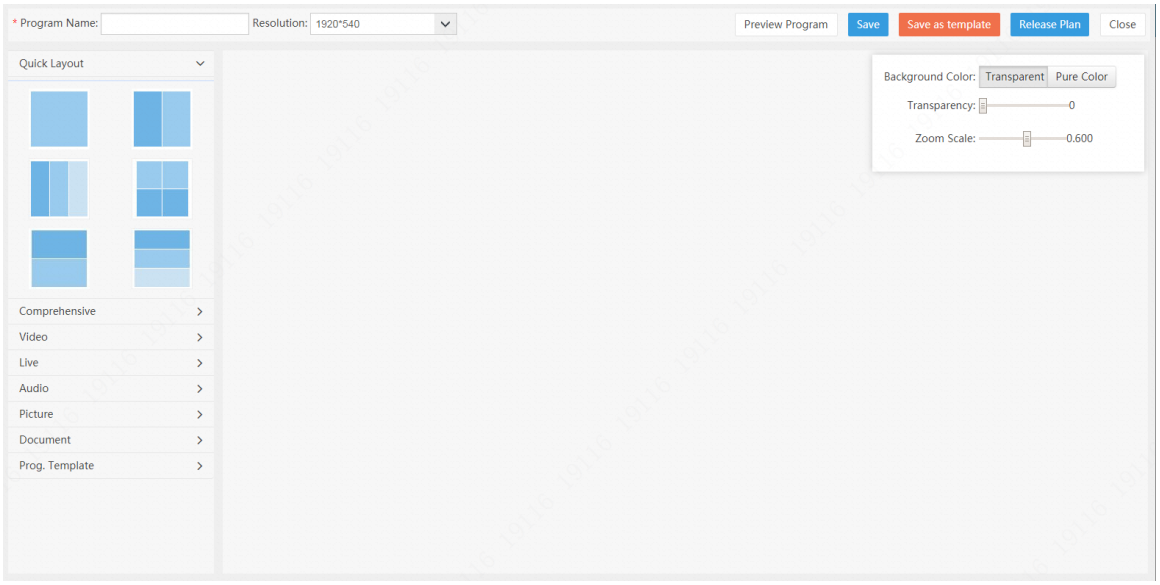


Figure 5-1

Step 3. Enter program name, select resolution. Here resolution is device resolution.

Step 4. On the left, select screen split template, so screen splits accordingly on device. For example: click to select 2-split, then on the right you can see split config. See Figure 5-2.

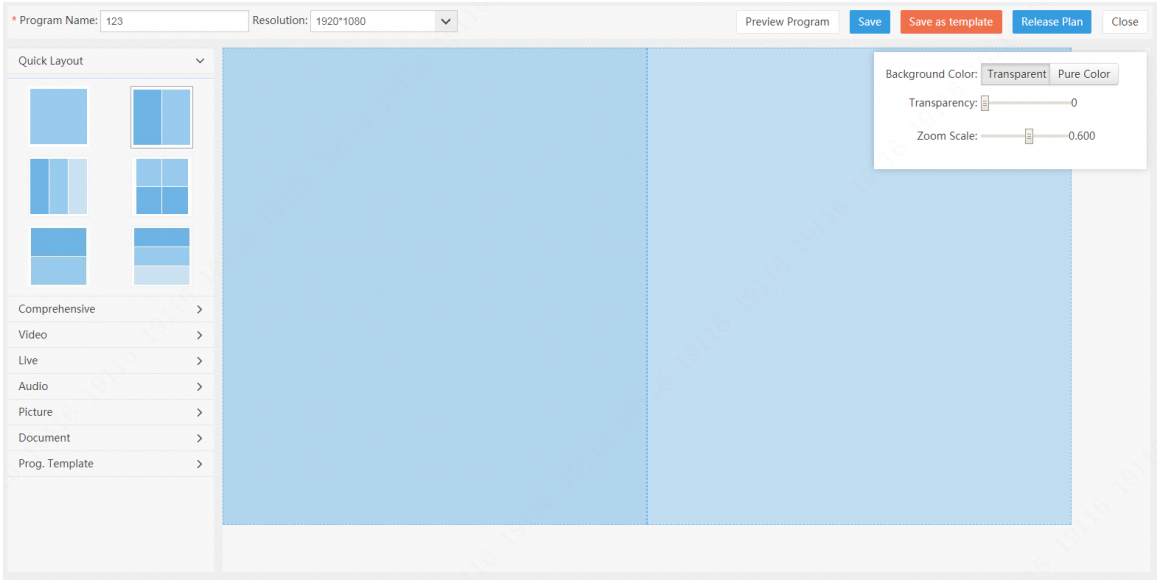


Figure 5-2

On the left, select comprehensive, video, live, audio, picture, document and etc., double click it to add into center, and you can adjust on the right.

For example to add video.

1. Click Video.
2. Click folder directory, double click video file, as to add video into center on screen. You can add more than one video, see Figure 5-3.

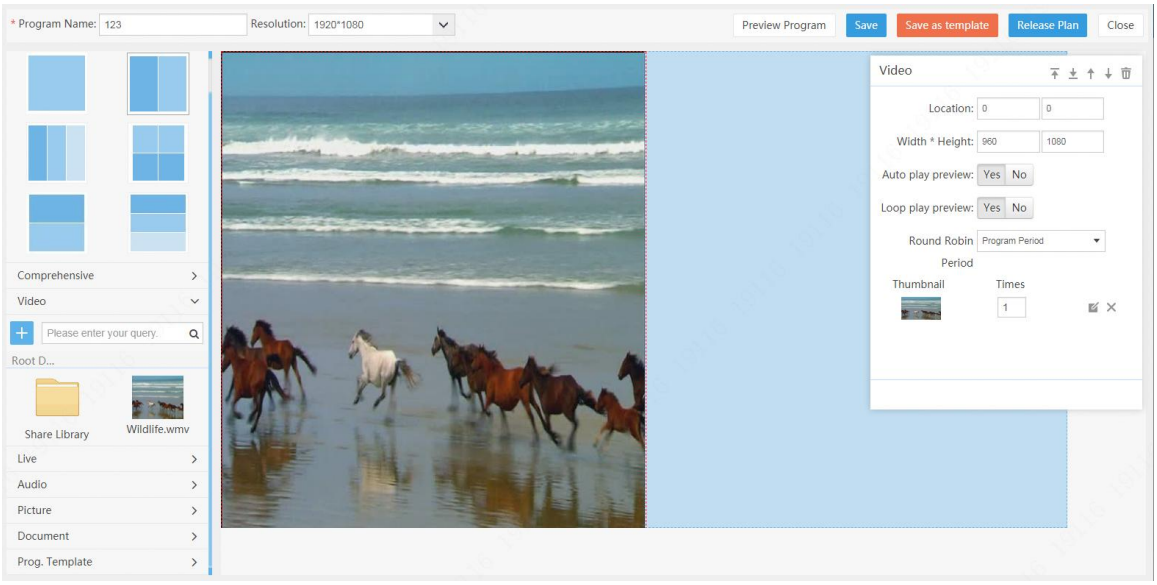


Figure 5-3

3. On the right, see times of play of each video, as 1, 2, 3.

- In round robin period on the right, when you set program period, select three videos for round (by rule, 1-video 2-video 3-video 2-video 3-video is sequence). Then loop play by this sequence.
- When you set plan period in round robin period, then it is relative to play plan time, such as in program release plan, for a new plan, select 8AM to 8PM, then during this 12-hour period, it plays three videos by sequence, and other time it play spacer video.
- When you set round robin period to custom, :"1 hour" means to play three videos during one hour. Times of interval are relatively even in accordance with this video as video 1-video 2-video 3-video 2-video 3- video 3. During other remaining interval, of has configured spacer video, it will play spacer video. If not configured, screen will be black.

4. After video program is added, click Live to view video.
5. Click Save to save program, see Chart 5-1.

Parameter	Note
Example	Add text to be shown on device, you can set font color and size.
Placeholder	Add placeholder, you can fill text, video or picture in placeholder and adjust placeholder size. Save placeholder only as template.
Web Page	Add web page link, and fill in URL on the right.
Weather	Add weather, set weather refresh frequency and get device local weather condition.
Live	Add video monitor device, to get device live video.

Picture	Add picture to be shown. You can add more than one picture. Set display time, times, cycle, period, spacer picture.
Video	Add video you want to display, you can also add more than one video. Set display time, cycle, period, spacer video.
Document	Add office format document, PDF document, and you can set flip page speed, page effect.
Prog. Template	Select saved program template for direct use.

Chart 5-1

Add program interface is in Figure 5-4.

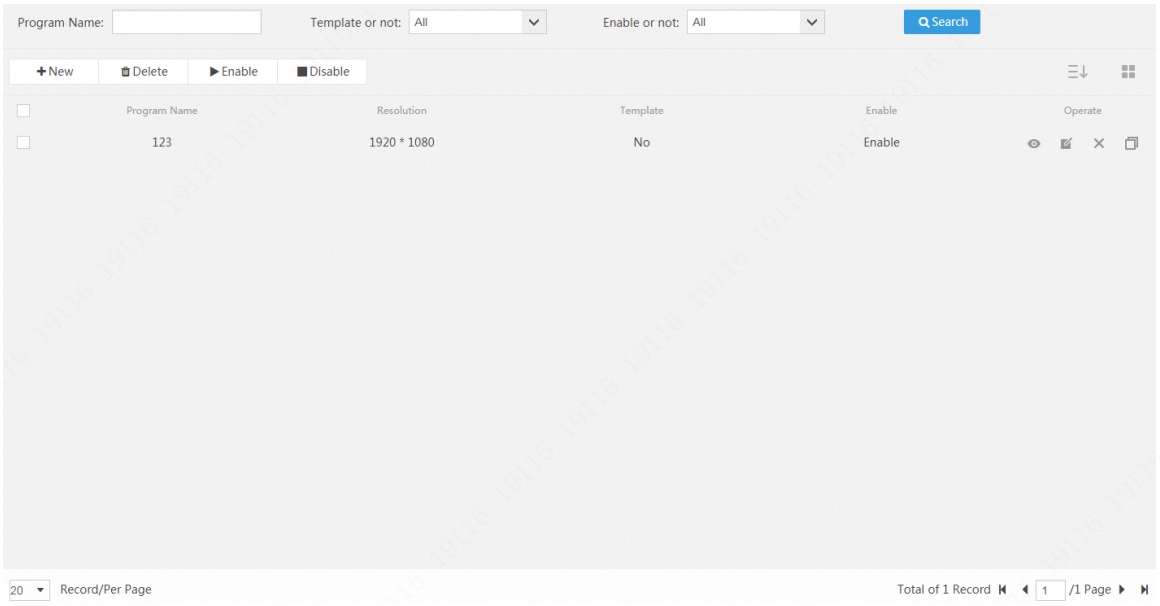
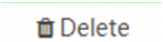


Figure 5-4

- Click to preview program.
- Click to edit program.
- Click to delete program. You cannot delete program in progress.
- Click to copy program.
- enable program.
- disable program.l
-  delete program.

5.2 Notice

Media publish system supports to publish notice on device.

Step 1. Click

.

Step 2. Click

, see Figure 5-5.

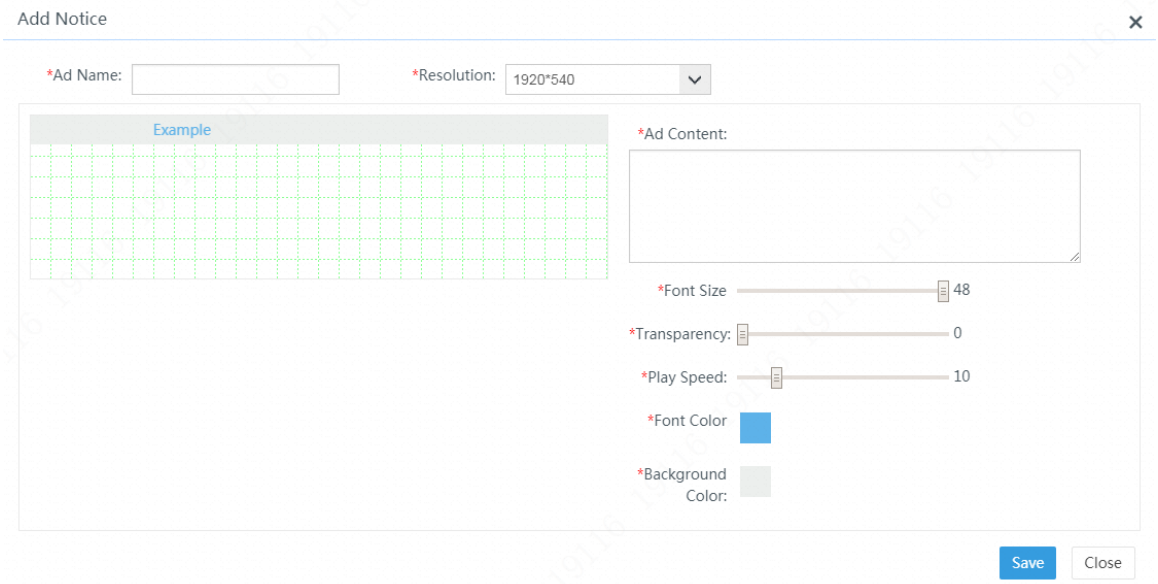


Figure 5-5

Step 3. Set ad name, ad content, font size, transparency, play speed, font color and etc. You can drag ad position.

Step 4. Click Save. See Figure 5-6.

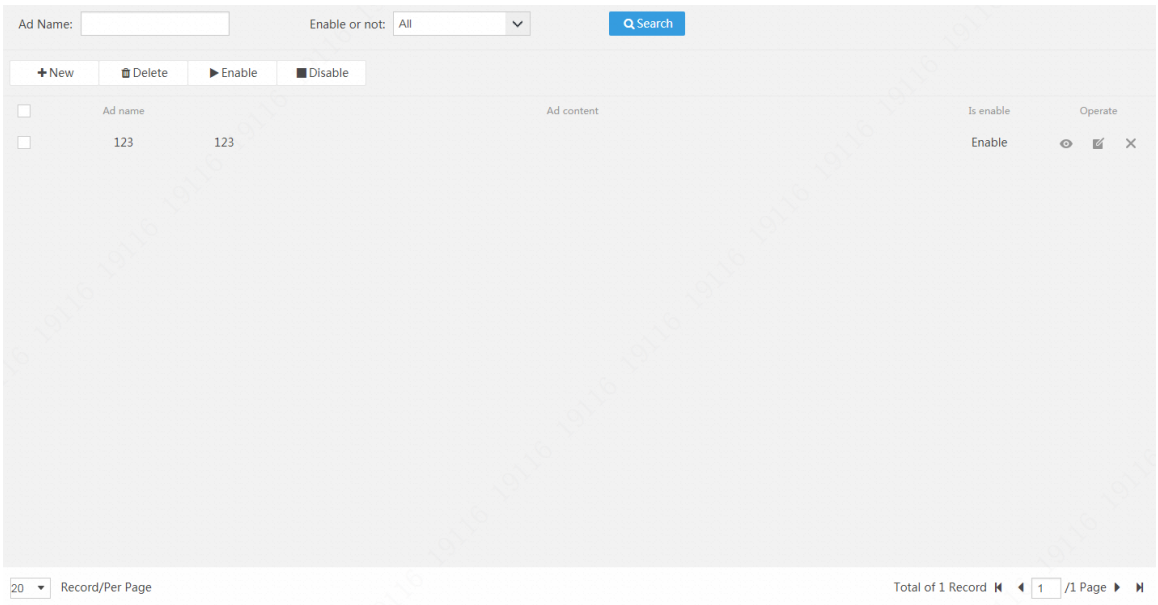


Figure 5-6

- Click to preview ad, see Figure 5-7.

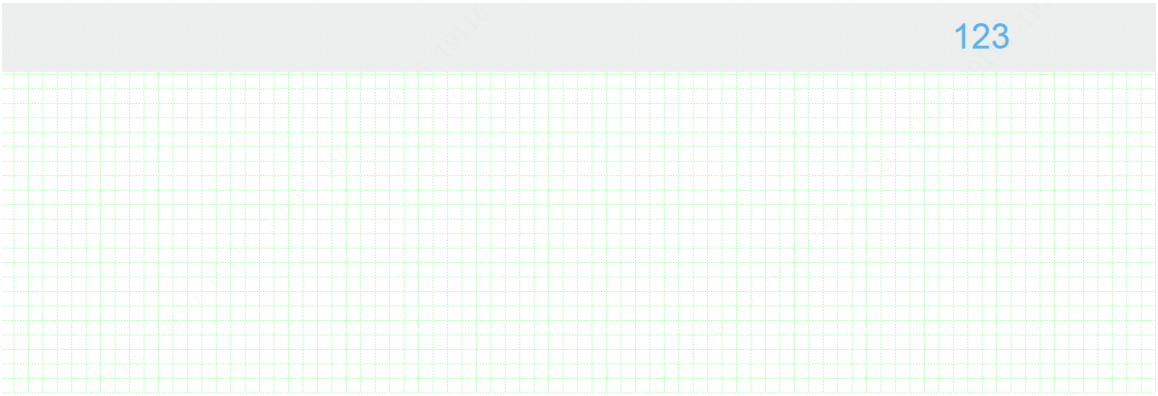
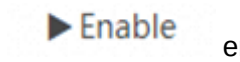
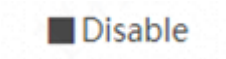
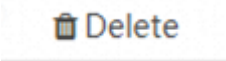


Figure 5-7

- Click to edit ad.
- Click to delete ad.
- 

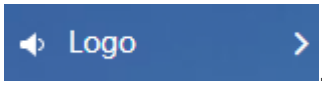
enable ad.
- 

disable ad.
- 

to delete ad.

5.3 Logo

Media publish system supports to publish logo in device.

Step 1. Click 

.

Step 2. Click

. See Figure 5-8.

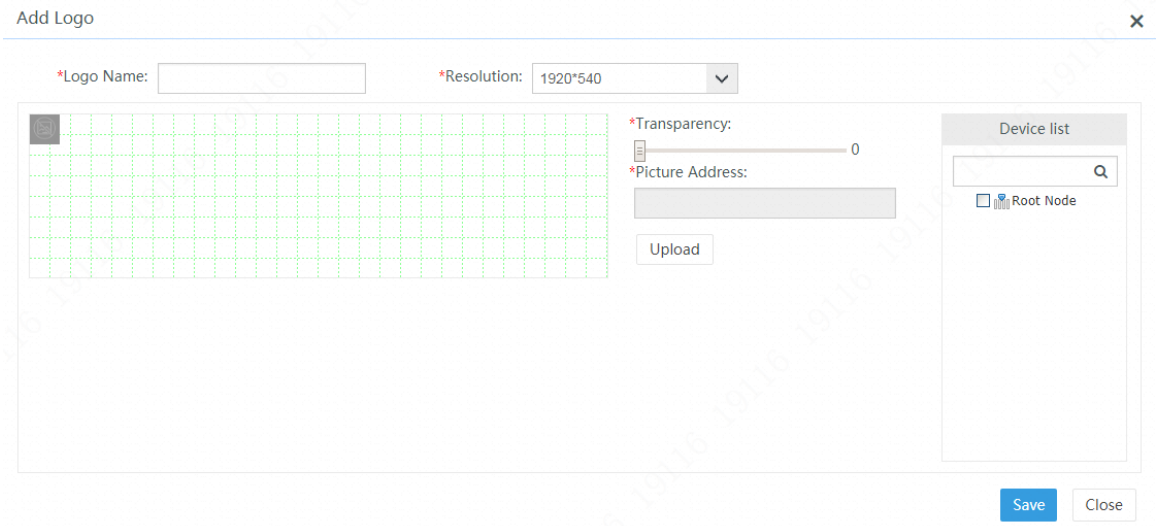
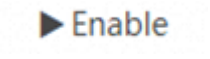
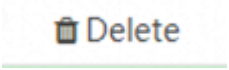


Figure 5-8

Step 3. Set logo name, resolution, transparency, and you can drag logo position. Select picture, click Upload. You can select corresponding device in device list.

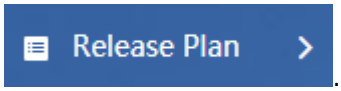
Step 4. Click Save.

- Click to preview logo.
- Click to review logo.
- Click to edit logo.
- Click to delete logo.
-  enable logo.
- disable logo.
-  to delete logo.

5.4 Release Plan-Normal Plan

After you add program, you can set play plan. When the set time is reached, the device will play the corresponding program.

There are two types of plan: normal and instant.

Step 1. Click  . System shows normal plan interface.

Step 2. Select normal plan tab, click add, see Figure 5-9.

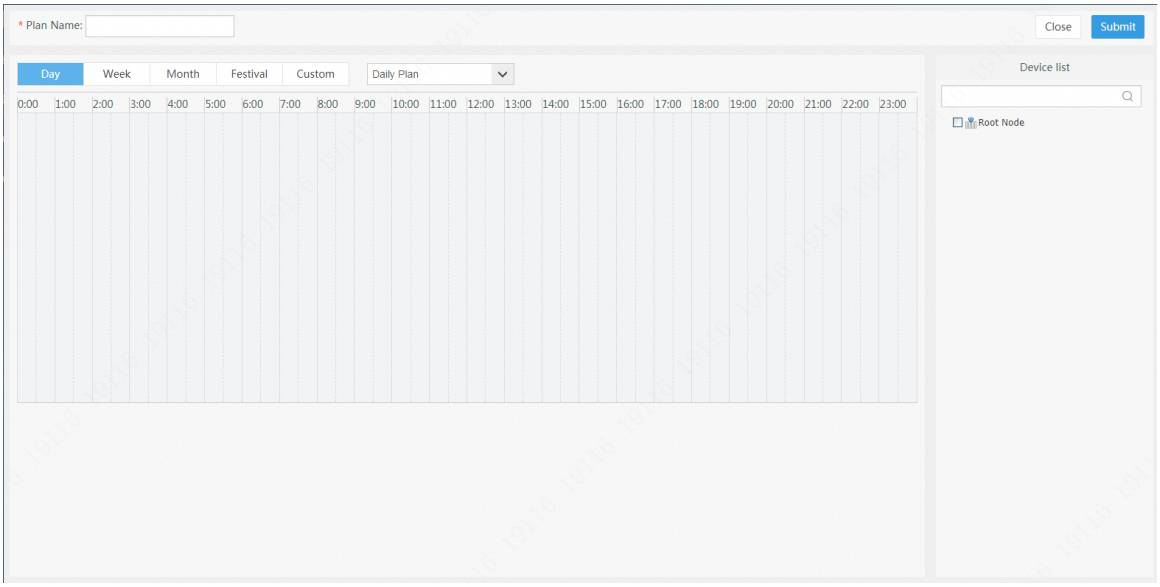


Figure 5-9

Element	Note
Plan	Set
Period	Set “day”, “week”, “month”, “festival” and “custom” and set period. If in the same period, device set more than one mode, then device will play by priority. Ranking of priority is “Custom>Month>Week>Day. “
Plan Type	Daily plan：normal program release. Ad plan：Ad and logo release. Spacer plan：Place spacer program when no other daily program to play.
Select Program	After you set play time, you can see program menu below. Select one program, and you shall add program in management.

Chart 5-2

Step 3. Enter plan name, set play period of ad plan, spacer plan and set play period. Default is by day, and you can set period, select program. On the right, you can select device in list.

Step 4. Click Submit. See Figure 5-10.

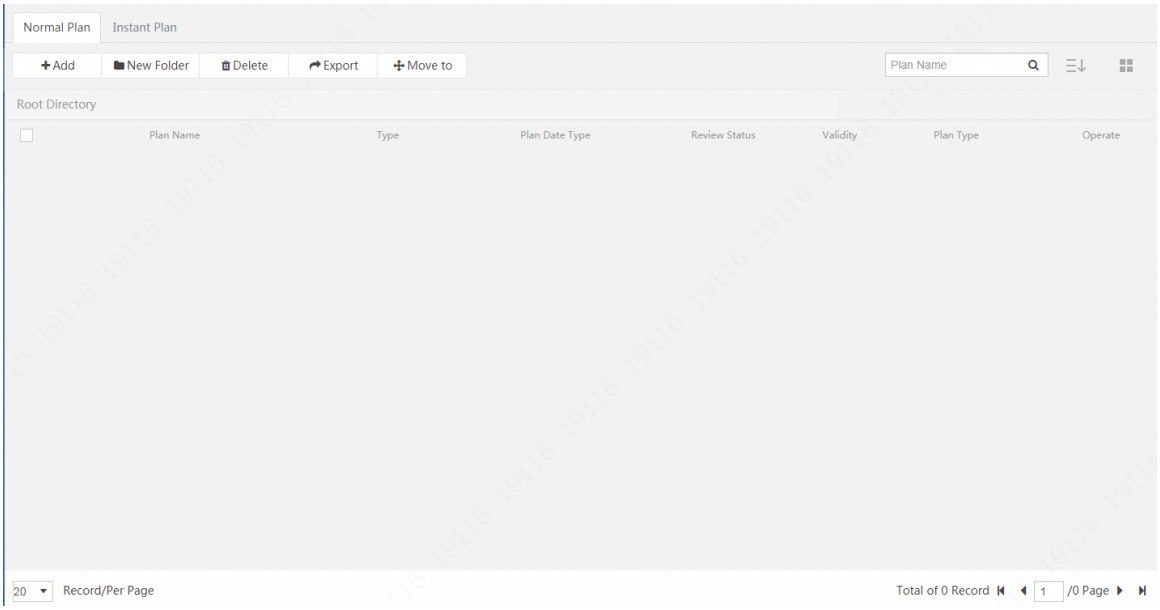


Figure 5-10

In System Setting-Business Setup-Publish Setup, set review setup to be level 1 review or level 2 review. New program plan is shown as “not reviewed”. If not to be reviewed, then it shows approved, so program could be published without review.

- Log in system with user who has review right, click , select review status, enter comment, click Save.
  If level 2 review is required, then user will level 2 review right are required.
- Click to modify plan.
  If review is set to level 1 or level 2 and after you modify and submit plan, release plan status is changed to not reviewed while1 device goes back to the last published plan.

If review is set to no review, and after you modify and submit plan, release plan status is still approved, so you can start to play the plan.

- Click to delete release plan, mean time device goes back to the last published plan.
- Click Export, to export plan and you can insert USB stick to import release plan.

5.5 Release Plan-Instant Plan

Media publish system supports to release instant plan on device. Instant play has higher priority than normal plan, so when an instant plan is released, it will be effective immediately regardless of normal plan.

Step 1. Click

. System shows release plan interface.
Step 2. Select instant plan tab, click add, see Figure 5-11.

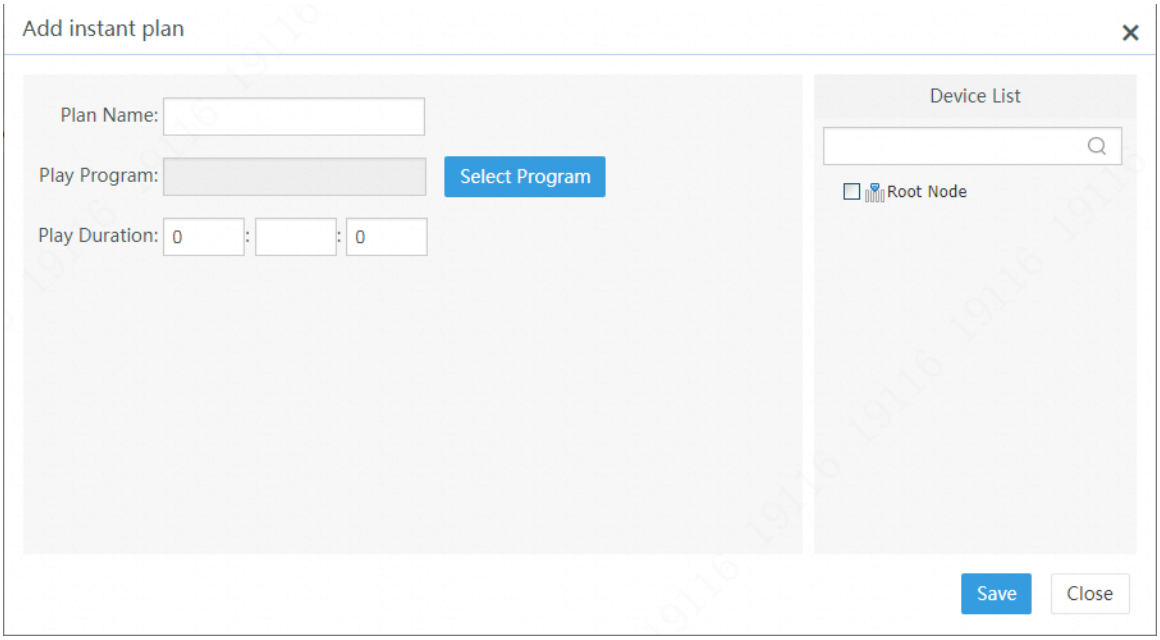


Figure 5-11

Step 3. Set plan name, play duration, select program and select device from list.
Step 4. Click Save.

- to preview plan info.
- to delete instant plan. Meantime, corresponding plan on device will be deleted and device goes back to the last published plan.

6 Device Manager

6.1 Device Manager

Step 1. Click Device Manager, see Figure 6-1.

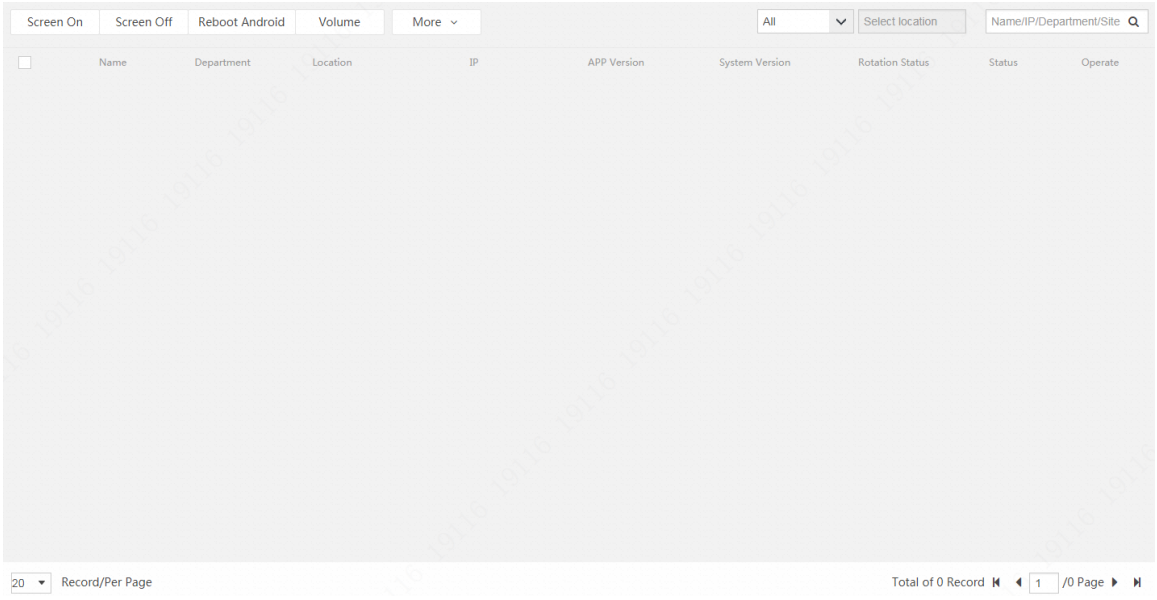


Figure 6-1

Step 2. You can filter out device by all, offline, online screen on, online screen off, and etc.

Instruction of each button is in

Element Type	Note
Screen On	Turn on screen.
Screen Off	Turn off screen.
Reboot Android	Reboot Android.
Volume	Adjust volume during a certain device period.
Hot Spot	Modify device WIFI hot spot name and password.
Reset	Clear all play plan and config info on device.
Screen On/Off	You can set day, week, custom ON/OFF screen time.
System Update	Update Android system, including Android update pack higher than version of the device.
APP Update	Update play APP，including APP update pack higher than APP version of the device.

Modify Password	Modify device manager interface login password.
Navigation Control	Show/Hide navigation bar.
Owner Setting	Set device department and location.
Delete	Delete device data.

Chart 6-1

- : preview device details.
- : modify device name, department, location.
- : delete device.

6.2 Device Monitor

Step 1. Click Device Monitor, system shows Device Monitor interface.
Step 2. Click a device in device tree, and the device will snapshot, see Figure 6-2.

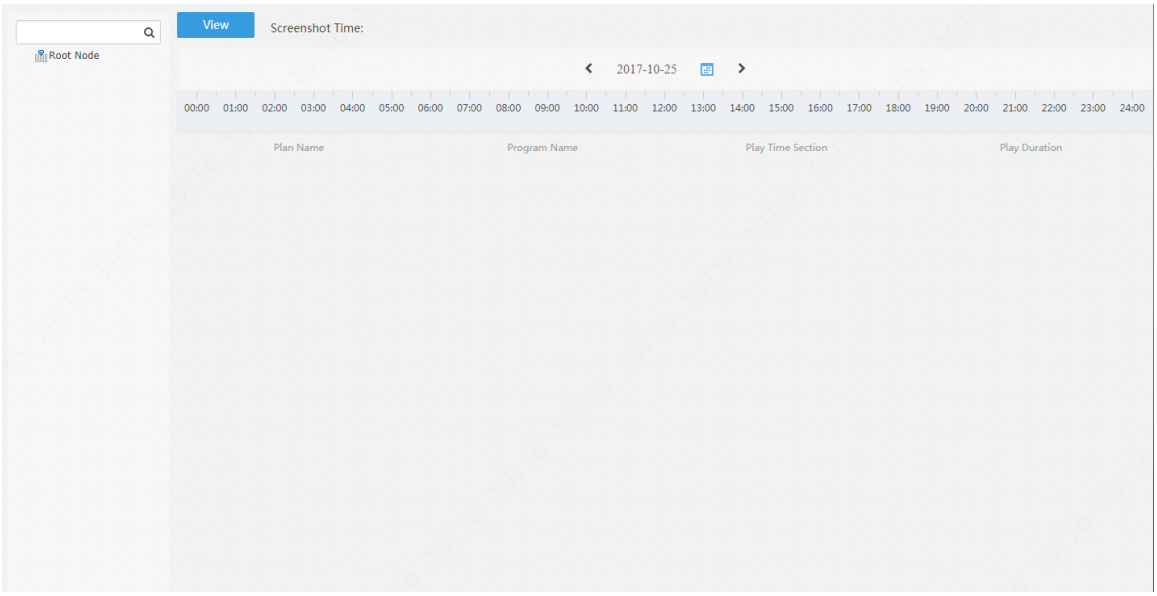


Figure 6-2

Step 3. Click View to see snapshot.

6.3 Device Version

MPS supports to upload APK and Android OS pack, by setting valid parameter, you can upgrade device to return its version to any version.

Step 1. Click Device Version.

Step 2. Click Add, see Figure 6-3.

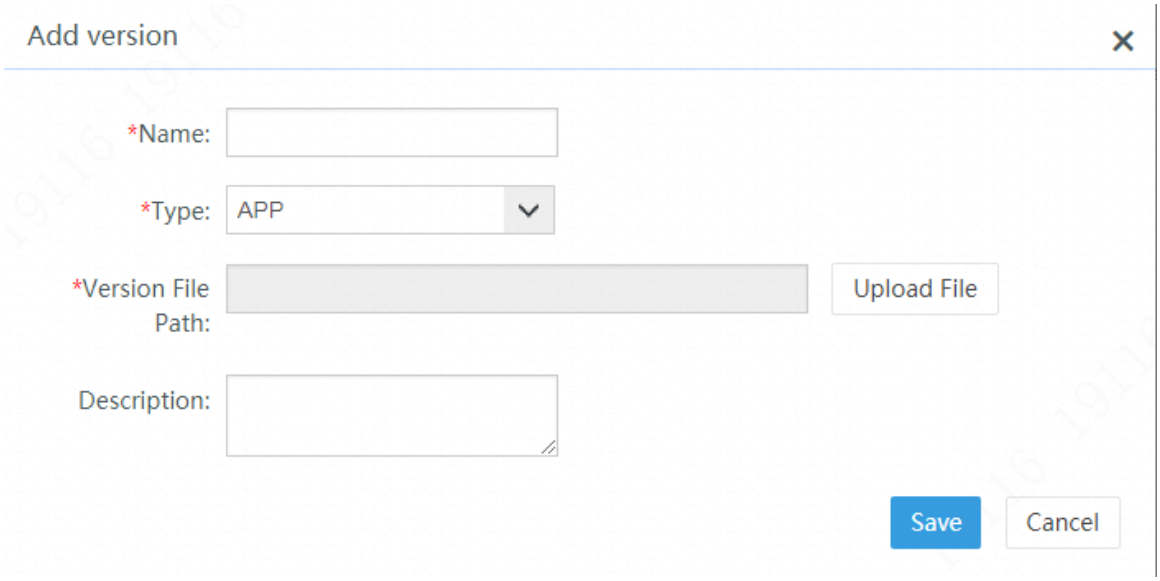


Figure 6-3

Step 3. Enter name, select type, upload version file, click Save.

Type includes APP and Android OS.

- Click , support to set any version to be valid version, and upgrade device. Each type supports only one version.
- Click , delete version file.

6.4 Materials on Device

Step 1. Click Materials On Device, system shows Materials on Device interface.

Step 2. Click a device in device tree to search all materials under this device. See Figure 6-4.

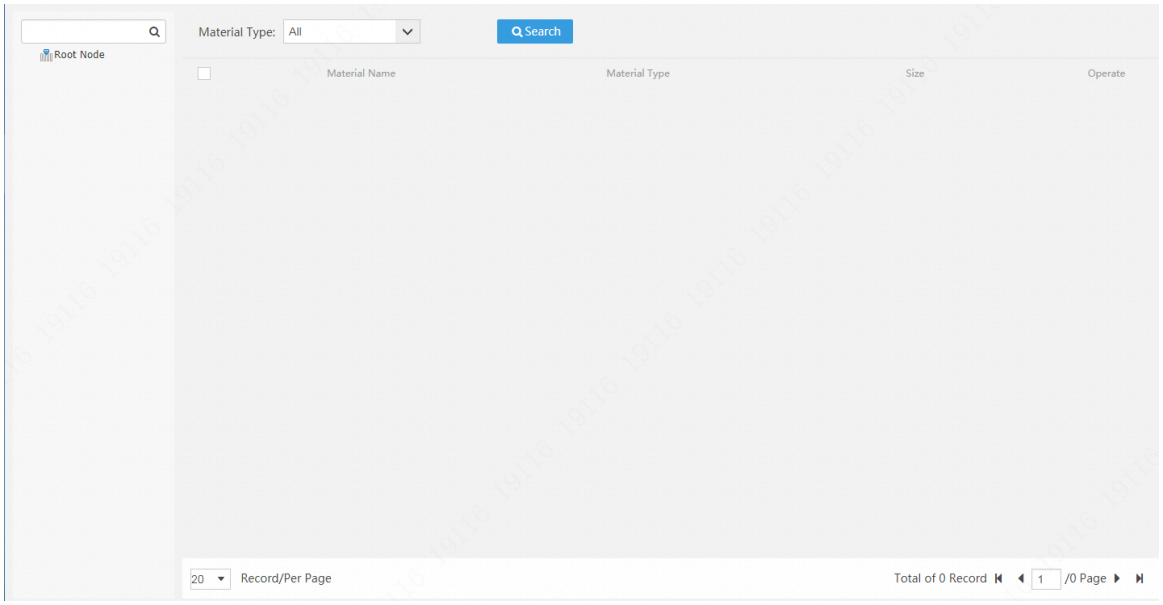


Figure 6-4

- preview materials on device.
- delete materials on device.

7 Report

The system supports to search and export device online statistics, material play statistics, material download statistics and etc.

7.1 Device Online Statistics

Step 1. Click

.

Step 2. Set device no., online rate, offline rate and other filters, click Search. See Figure 7-1.

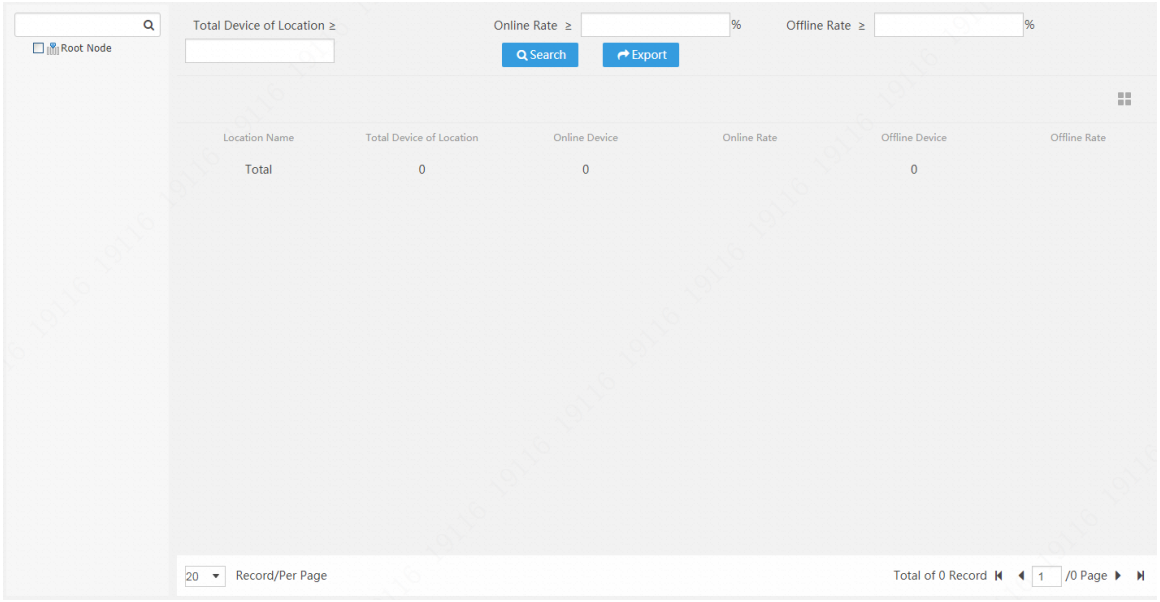


Figure 7-1

The system supports to show in list and diagram. In a diagram interface, it shows data diagram and save it as picture.

Step 3. Click

to export searched data.

7.2 Play Statistics

This function makes statistics of play length, play total times, play total length and etc,

Step 1. Click

.

Step 2. Set material name, start/end time, total play time, location and etc. Click Search, see Figure 7-2.

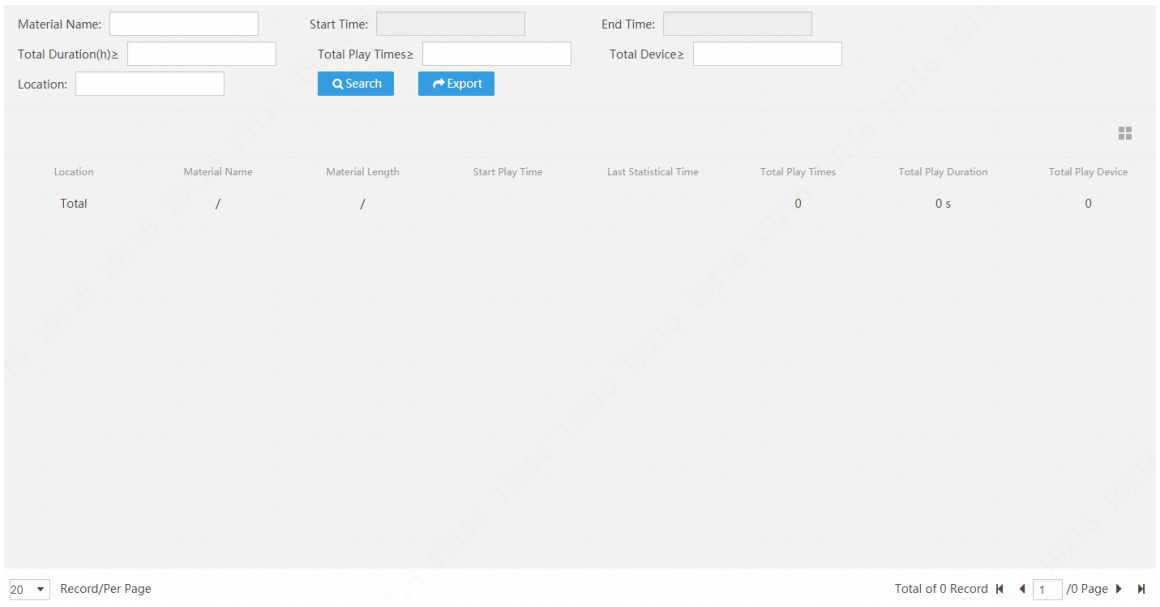


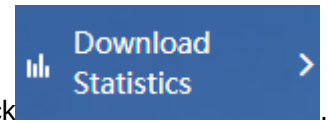
Figure 7-2

The system supports to show in list and diagram. In a diagram interface, it shows data diagram and save it as picture.

Step 3. Click

to export searched data.

7.3 Download Statistics

Step 1. Click 

.

Step 2. Set material name, start/end time, download status and other filters, click Search. See Figure 7-3.

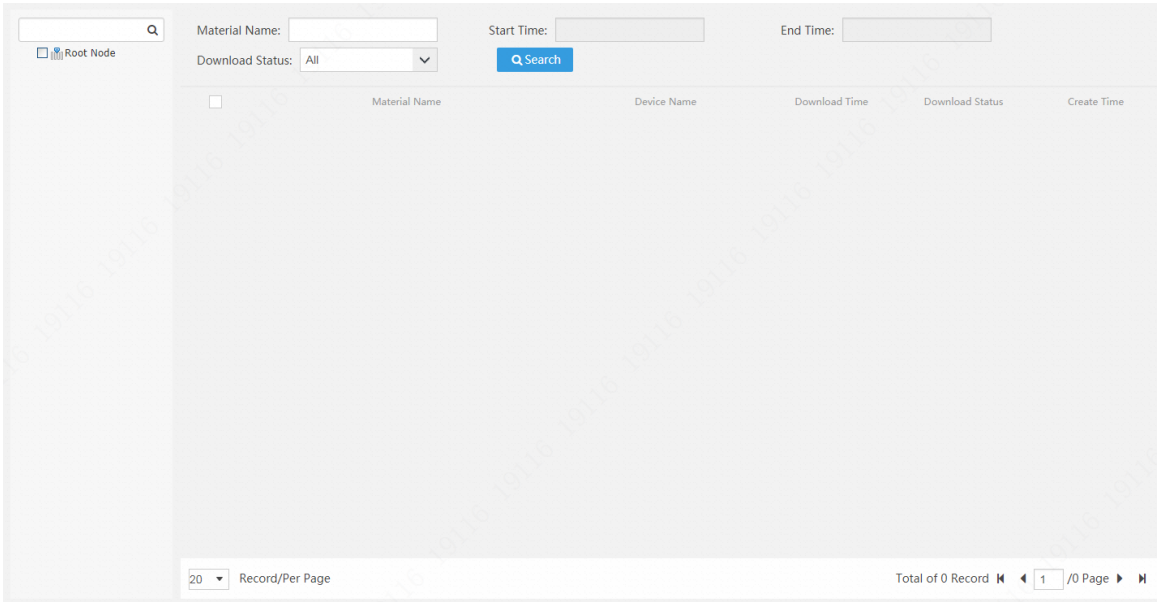
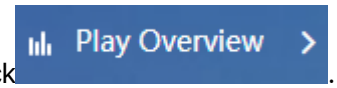


Figure 7-3

7.4 Play Overview

Step 1. Click 

.

Step 2. Set play plan, start/end time and other filters, click Search.

See Figure 7-4.

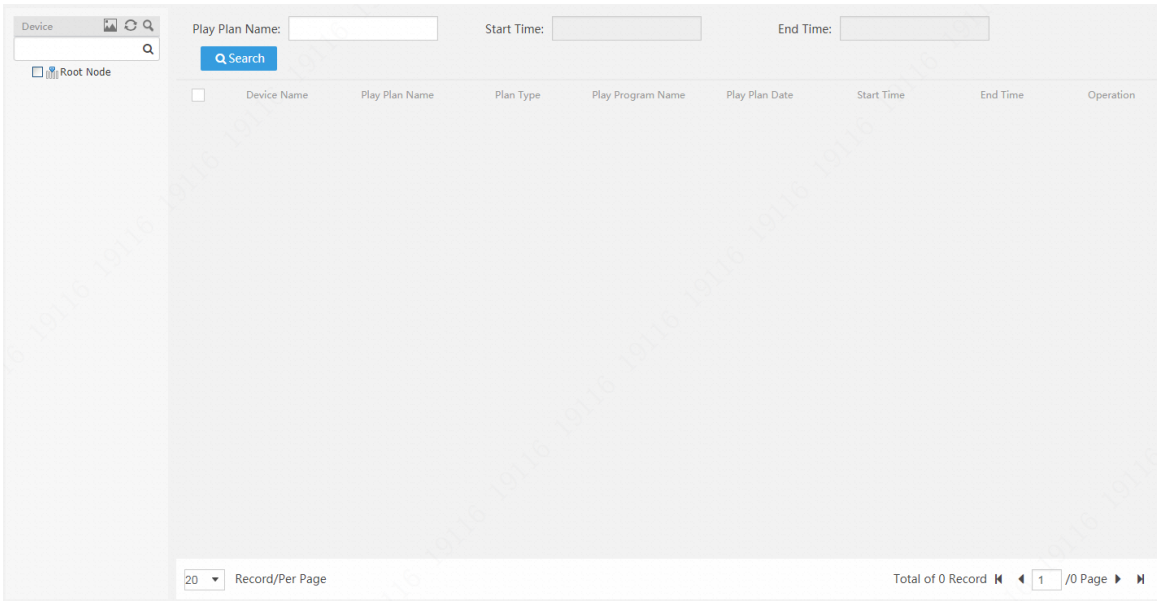


Figure 7-4

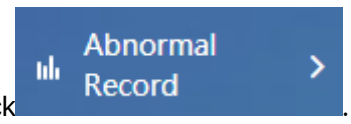
Step 3. Click , to preview program.

Step 4. Select device, and click at the upper left corner, to snapshot playing video.

Step 5. Click after you successfully snapshot.

Step 6. Snapshot is shown on the right, you can click it to zoom in.

7.5 Abnormal Record

Step 1. Click 

.

Step 2. Set device code, device name, device status and etc. Click Search, see Figure 7-5.

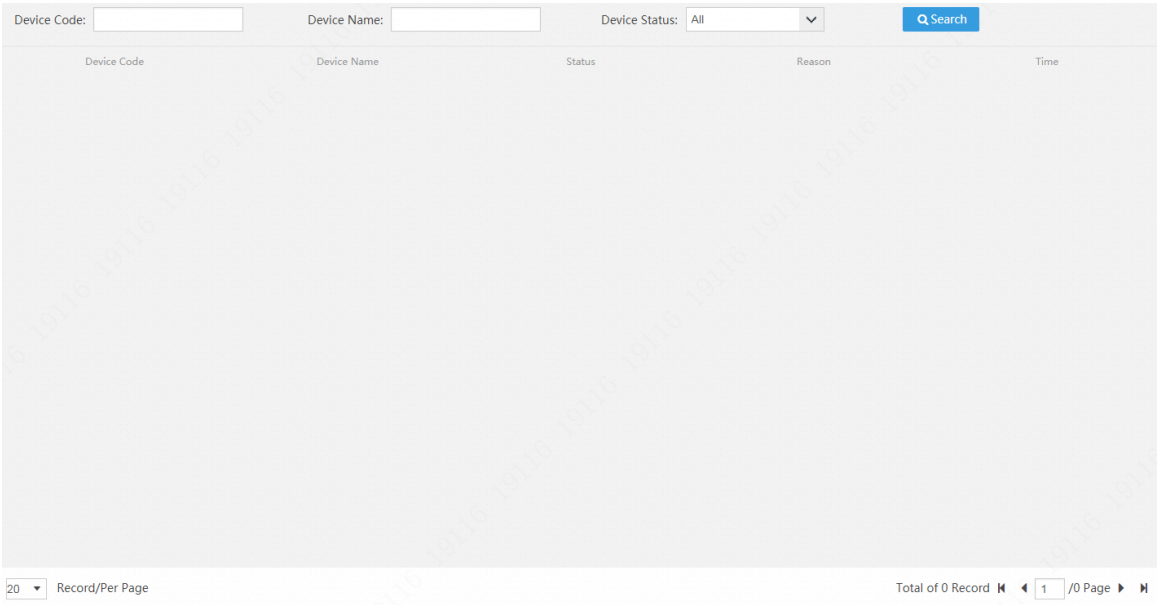


Figure 7-5

7.6 Material Content Statistics

Step 1. Click

, see Figure 7-6.

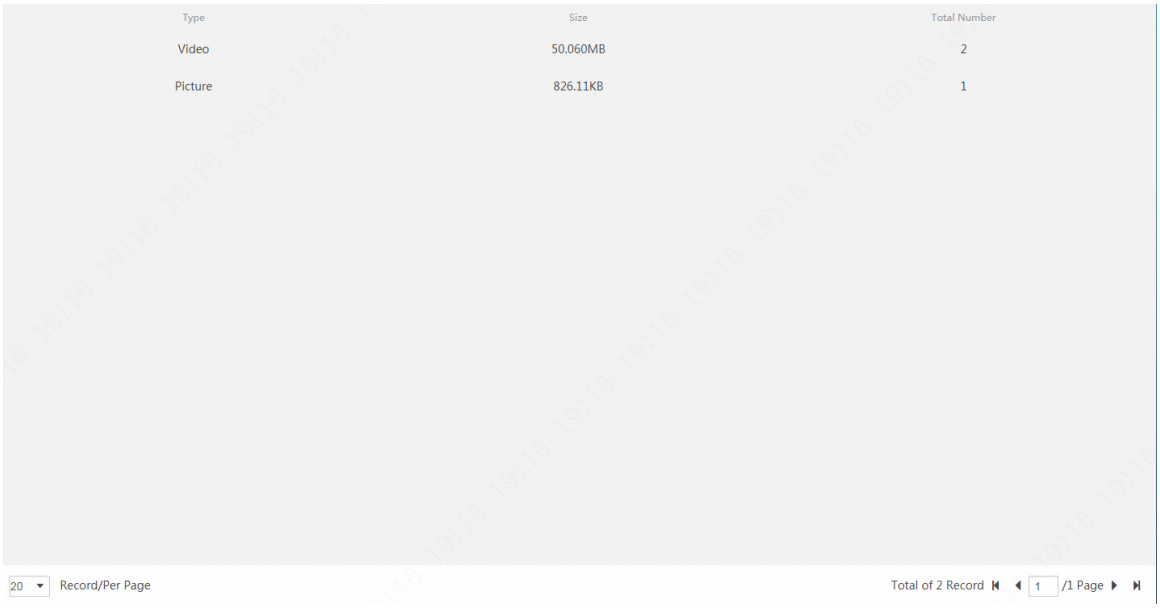


Figure 7-6

7.7 Device Offline and Offline Statistics.

Step 1. Click

.

Step 2. According to device code, device name, device status and etc., you can search offline record.

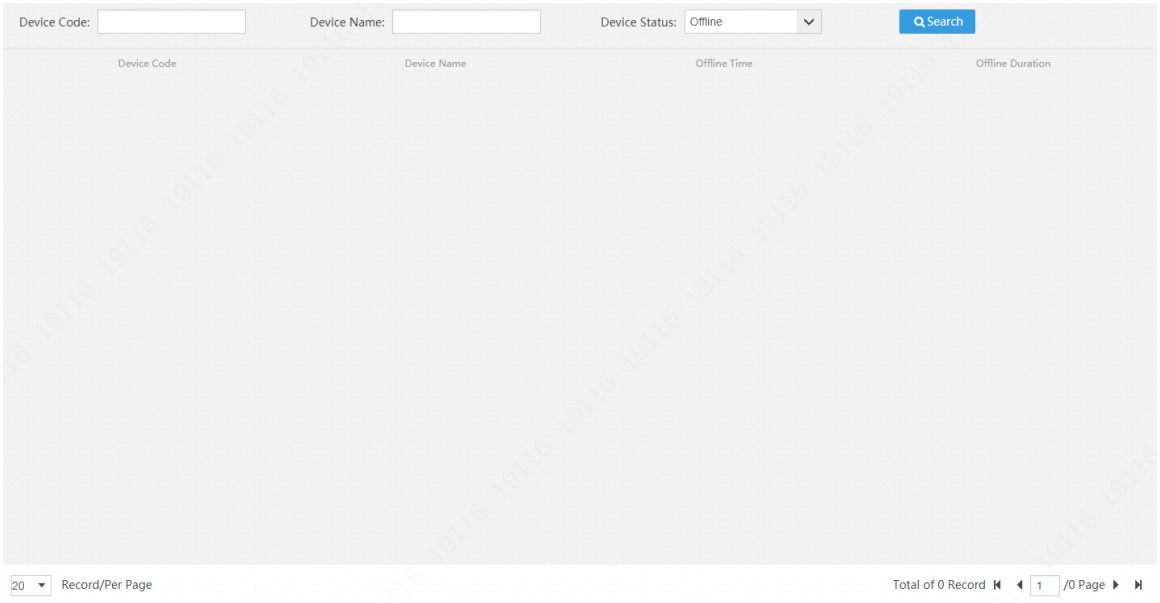
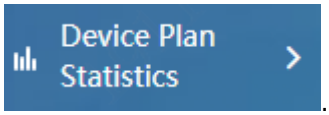


Figure 7-7

7.8 Device Plan Statistics

Step 1. Click 

.

Step 2. According to plan name, issue status and etc., you can search device plan.See Figure 7-8.

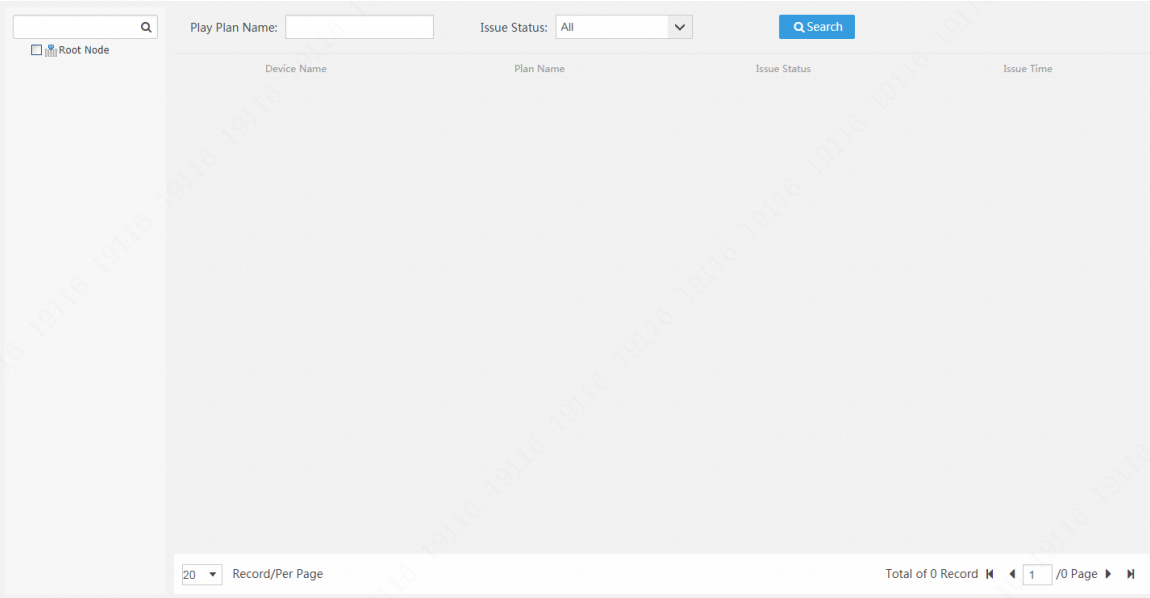


Figure 7-8

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