

Title:	How to Deploy Hikvision's Density Control Solution on Digital Signage	Version:	V3.0.0 build 20200529	Date:	5/30/2020
Product:	Digital Signage and Focsign Lite			Page:	1 of 23

Preparation

How to Deploy Hikvision's Density Control Solution on Digital Signage

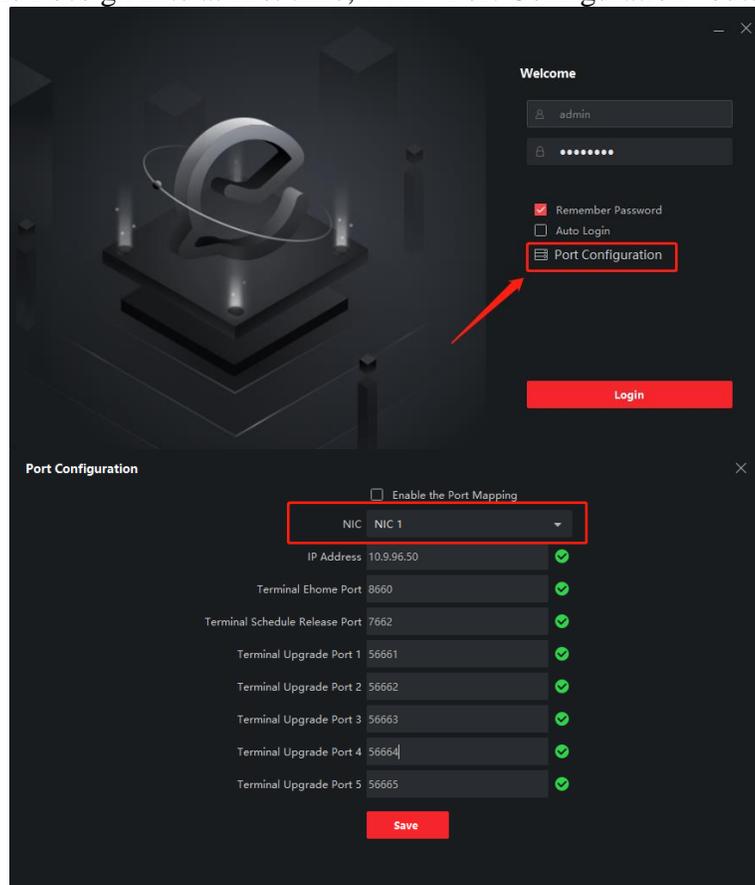
1. Installation of Focsign Lite Client

1) Install Focsign Lite Client

The newest version : **V1.1.0.50 build200527**

The language of the client will be adapted to system's language. Now we support these language: Chinese, English, French, Germany, Spanish, Italian, and Polish.

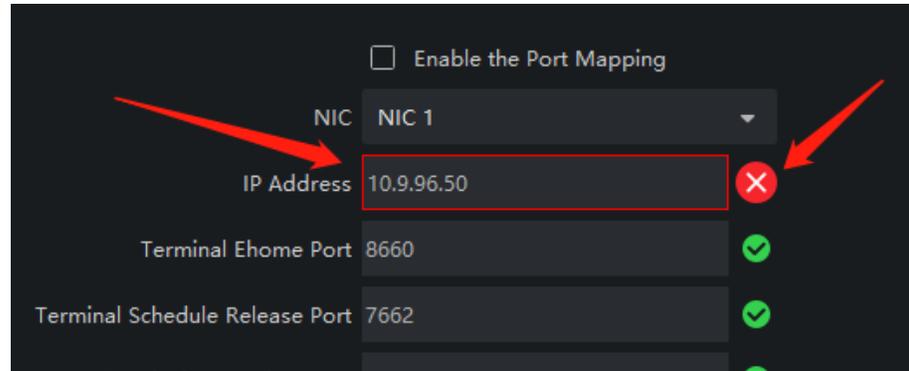
2) When you open the Focsign Lite at first time, click "Port Configuration" button.



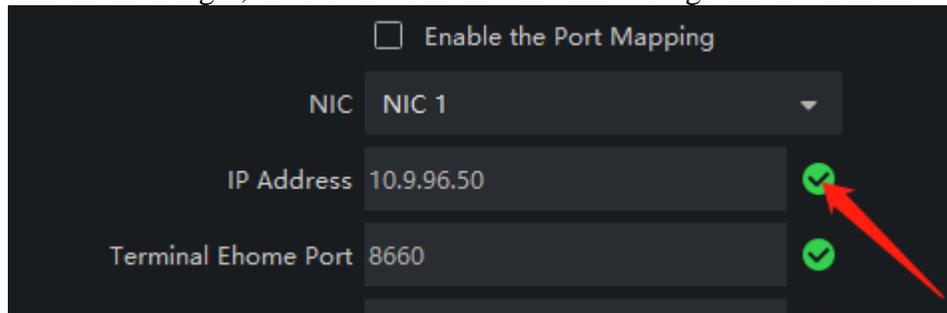
Choose the NIC that is in same network with the digital signage. You need to be sure of all the icon were green check mark.

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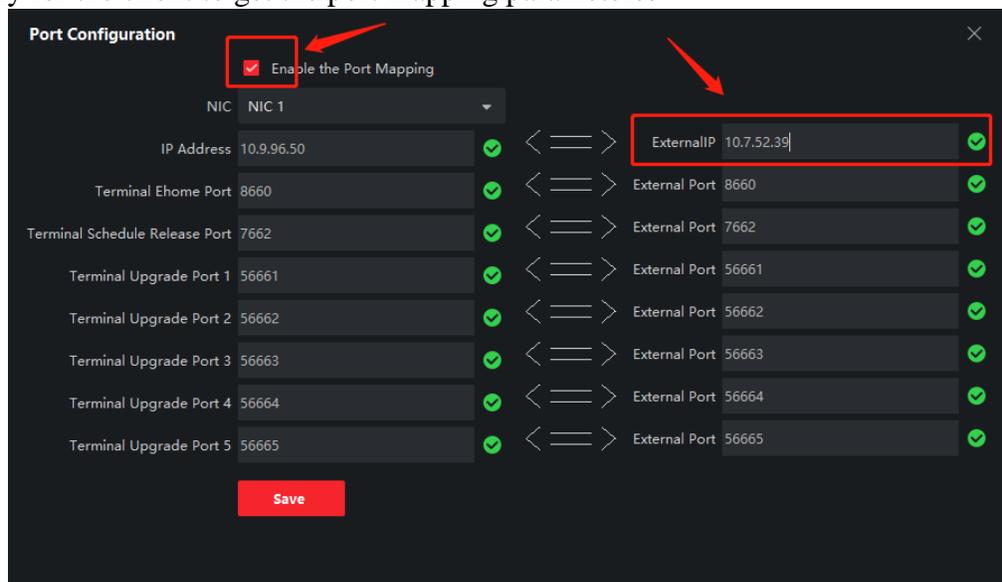
If the IP address is not correct, it will show like this:



Please input the IP address manually (Your PC's IP must be in same network with signage). When the IP is right, the red cross mark will turn to be green check mark.

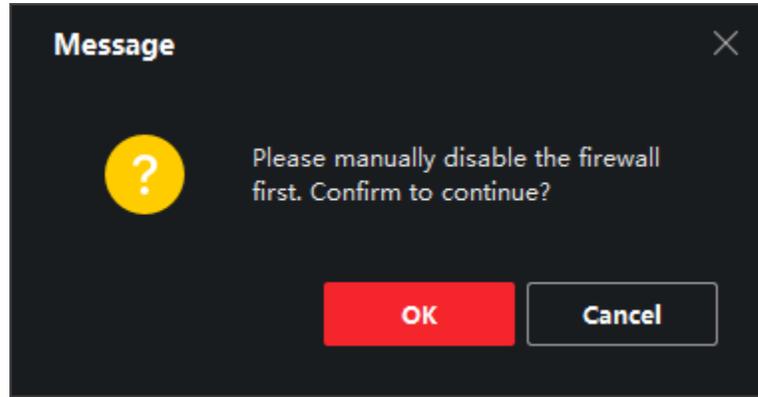


If you need to do the port mapping, click “Enable the Port Mapping”. Follow the actually setting, input the external IP and ports (Note: You still need to do the port mapping in the router. This part is only for the client to get the port mapping parameters)



After that, click the save button. It will show a firewall warning. Please disable all the firewall in the system. After checking, login into the client.

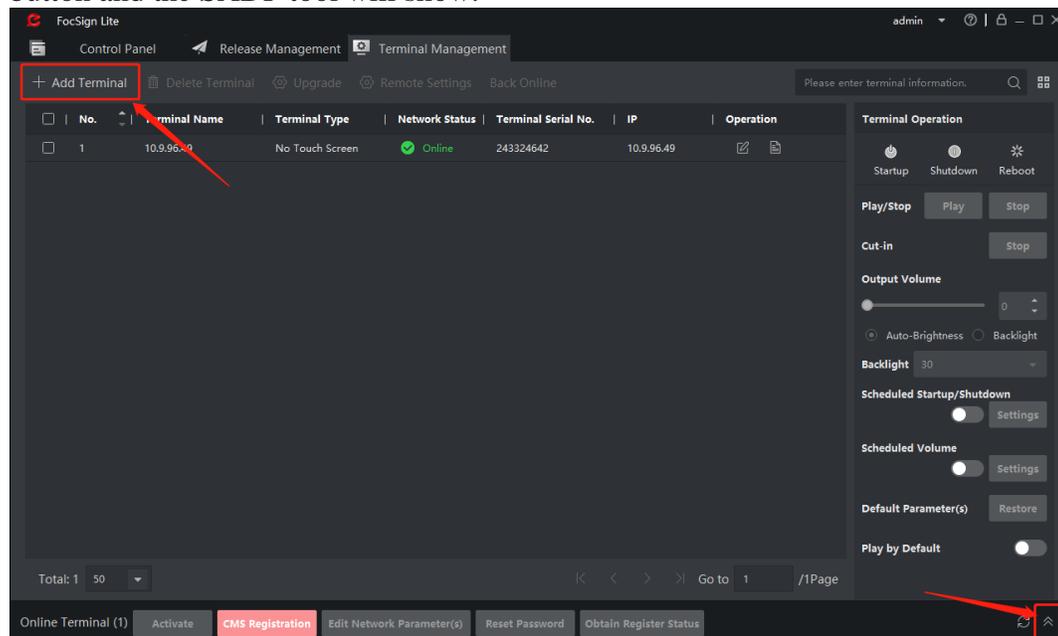
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2. Terminal Management

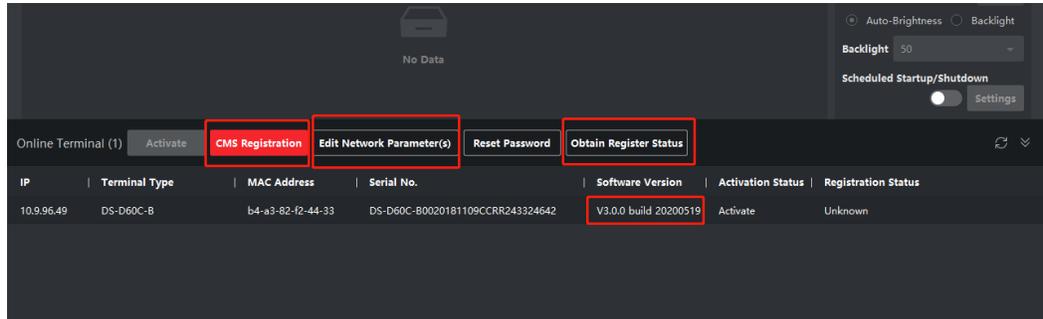
- 1) Add the terminal in local network

Click terminal management tag. There is a unfold button at right bottom corner. Click the button and the SADP tool will show.

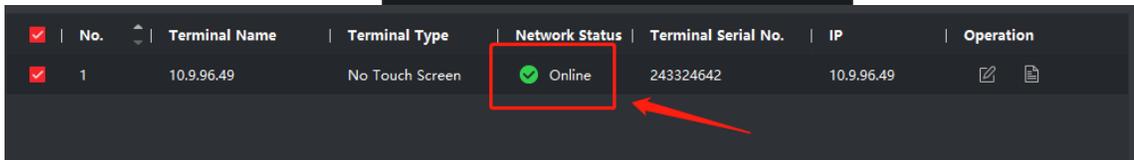
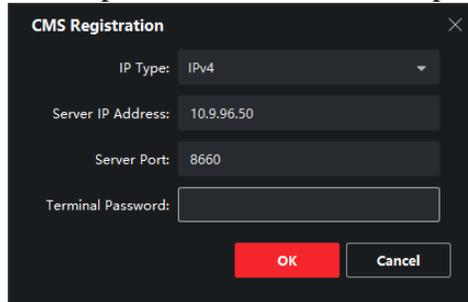


You can see all of the device in local network. You can see all the information of the terminal. It also have “CMS Registration”, “Edit Network Parameter” and “Obtain Register Status” functions.

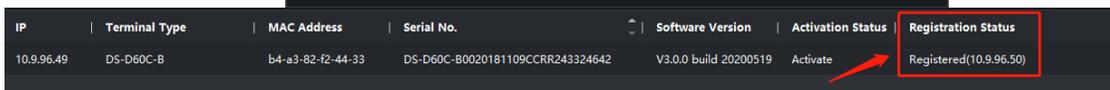
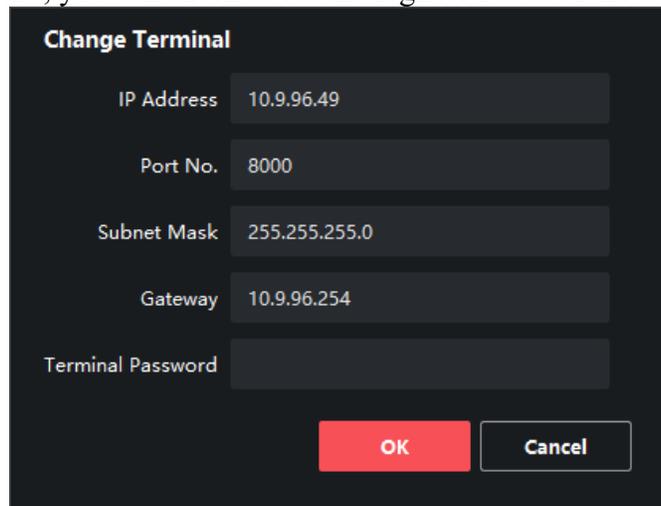
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Choose the terminal in local network and click “CMS Registration”. Input the password and the device will auto show at top. (This process needs some time, please wait for 1-2 minutes)



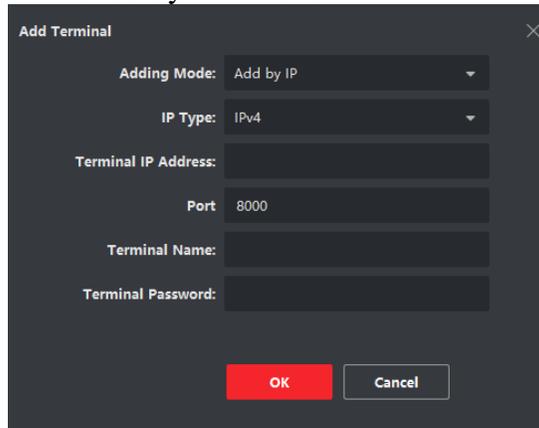
Click “Edit Network Parameter”, you can change all the network parameter of the device. Click “Obtain Register Status”, you can check about the register status of the device.



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2) Add terminal in different network segments

Click the add button at right top corner. There are two ways to add the terminal in different network segments: add by IP and add by terminal SN.



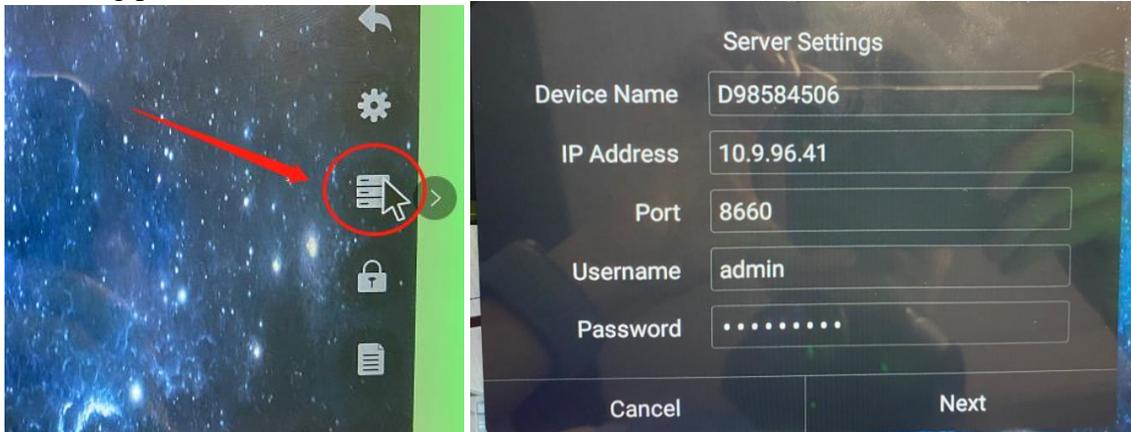
I: Add by IP

Input the IP address of device. The default port should be 8000. Input the name and password to add the device.

II: Add by SN

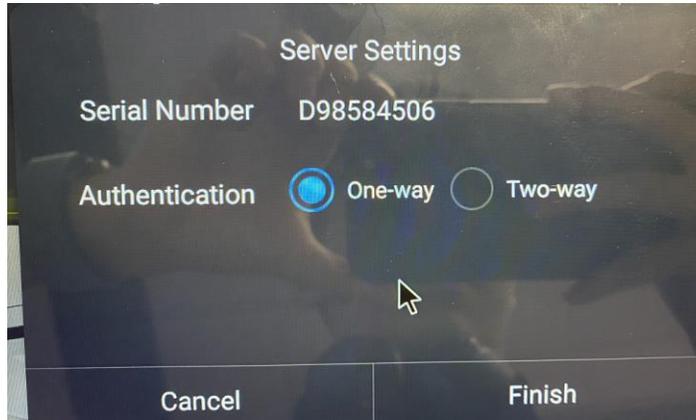
This way is usually used to public network solution. You need to input the server's information in the terminal first. Follow these steps:

Click right middle edge of screen in Focsign Player. Click the server information button like following pictures.

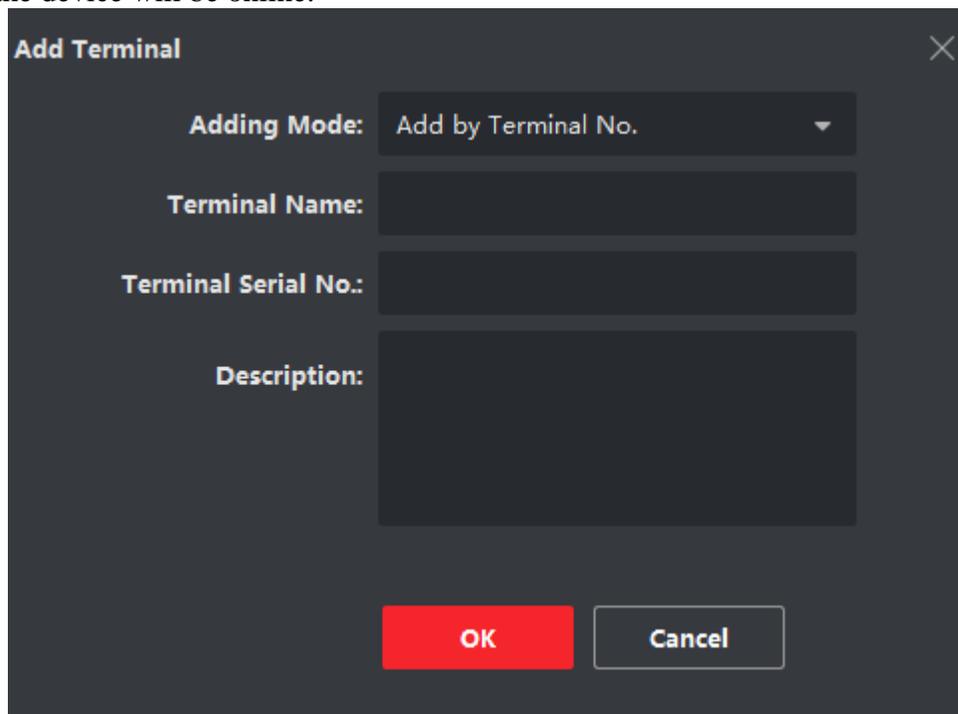


Input the **PC's IP address** at the "IP Address" box. The default port should be 8660. The username and password should be **Lite client's**. Click Next, and choose One-way.

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Choose “Add by Terminal NO.” mode, input terminal name and terminal’s SN. Wait for some time and the device will be online.

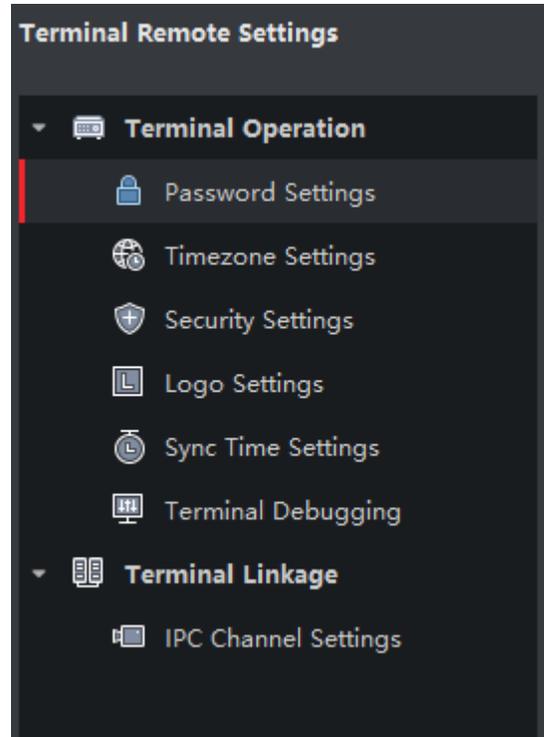
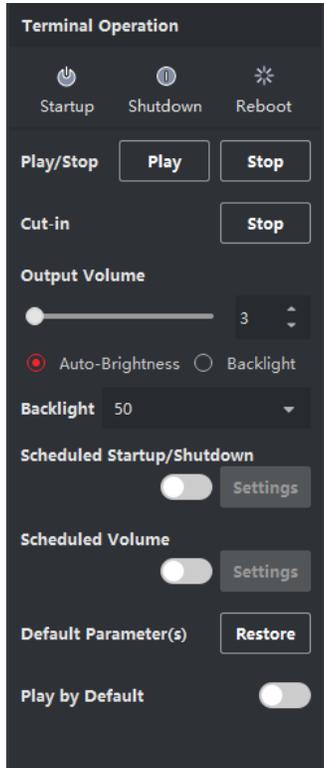


3. Device Configuration

1) Basic Configuration

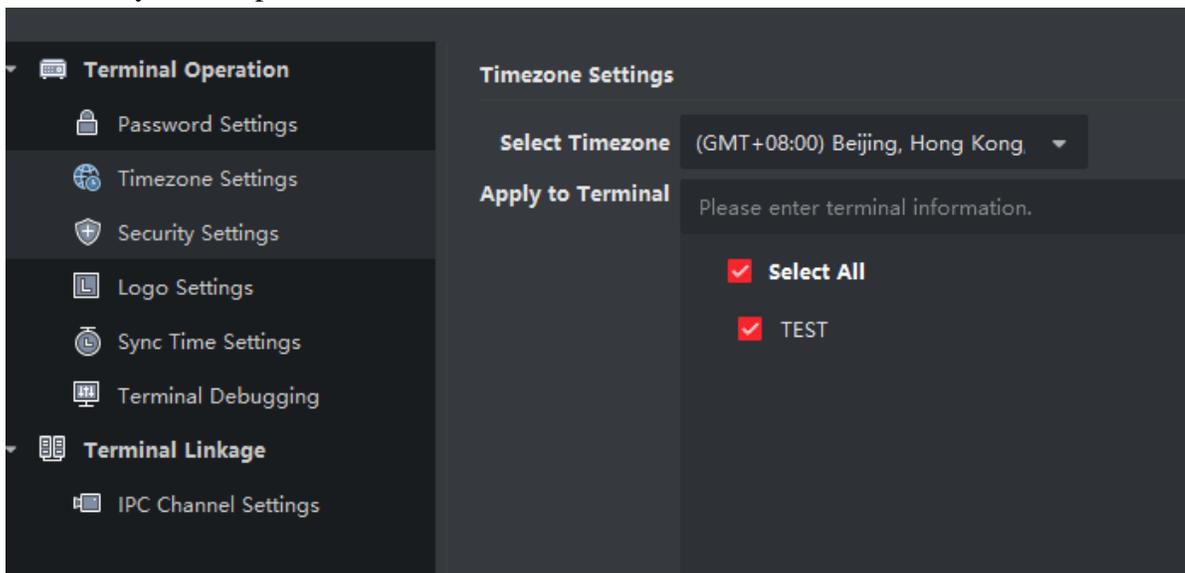
In the right of device list, there is a configuration menu for terminal. There are some functions: Device Startup and Shutdown, Reboot, Play Control, Volume Control, Backlight Control and others.

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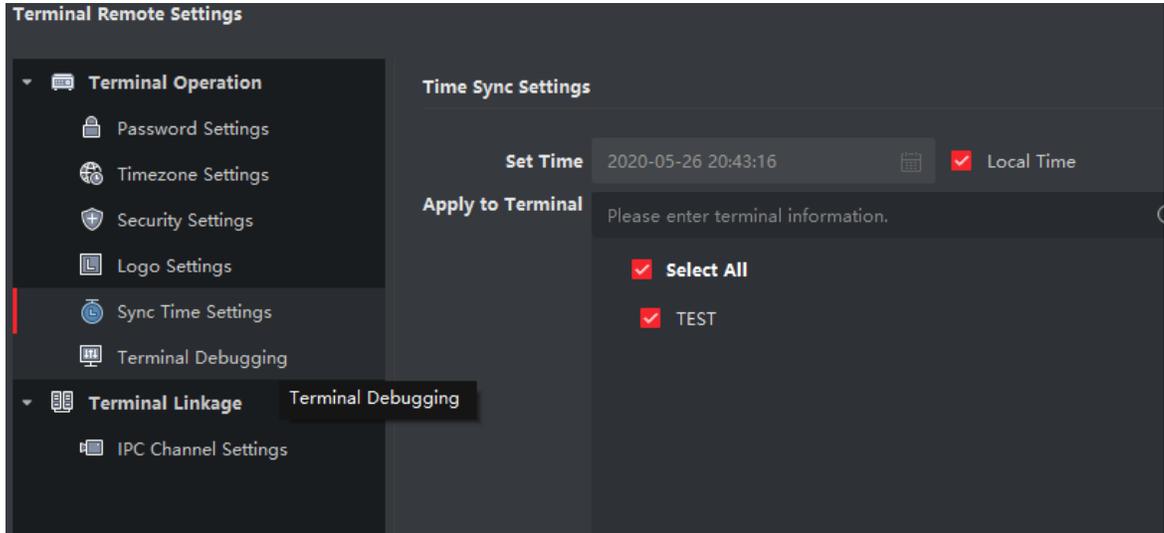


2) At terminal management interface, choose device and click remote configuration. You can change password, synchronize time and set time zone of device. Here are some examples.

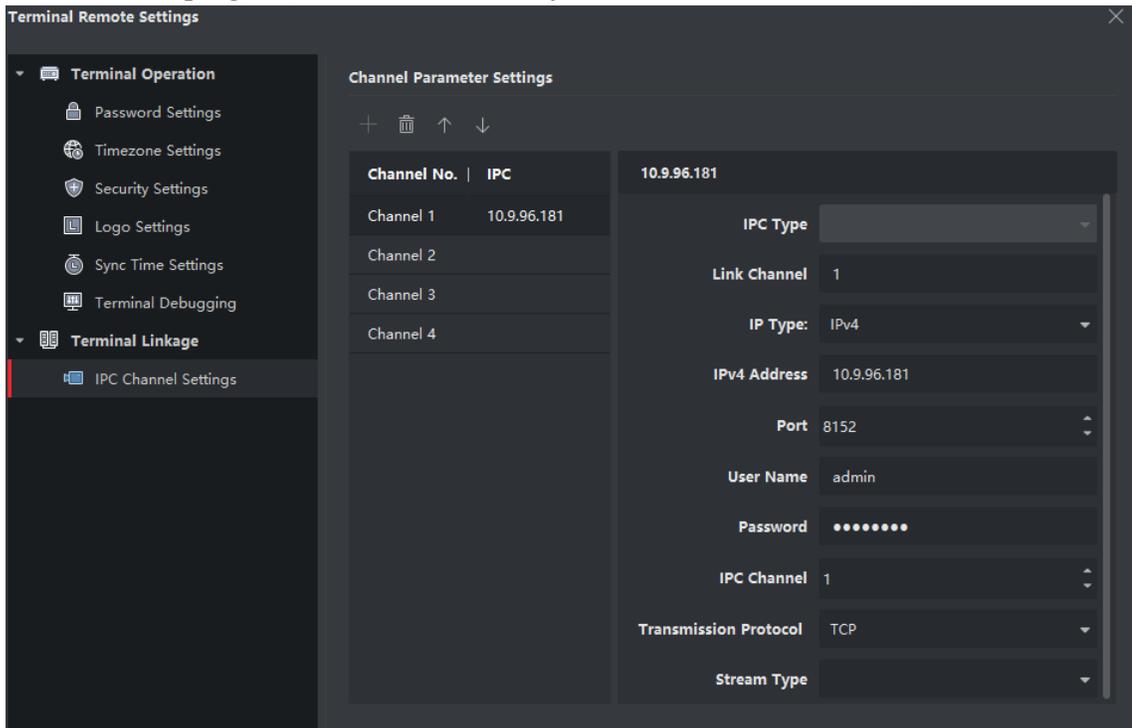
I: Time zone setting: New device need to set up the correct time zone first and synchronize the time with your computer.



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II: IPC Channel Setting: These four channels will be linked with the terminal. When you drag IPC1-4 in the program, it will automatically choose these four channels,



- 3) Check Terminal Status: Click the icon in the following picture; You can see information of the terminal and the content which displayed at the terminal in real time.

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The screenshot shows a management interface with a table of terminals. A red box highlights the 'Operation' column for the first terminal, which contains a document icon. Below the table, the 'View Terminal Details' section is displayed, showing various configuration parameters for the terminal 'TEST'.

No.	Terminal Name	Terminal Type	Network Status	Terminal Serial No.	IP	Operation
1	TEST	No Touch Screen	Online	243324642	10.9.96.49	[Document Icon]

View Terminal Details

- Terminal Name: TEST
- Resolution: 1920*1080
- Installation Type: Landscape Mode
- Serial No.: 243324642
- Software Version: V3.0.0 build 20200519
- Hardware Version: 70173
- System Version: A6.0.1
- Registration Time: 2020-05-26 20:37:31

4. Device Update

1) Remote Upgrading

You need to download the OTA file first. Please follow this request:

D60C-B: [ML_NEU_2.4.1_20200601_RH_8_OTA_SX.zip](#)

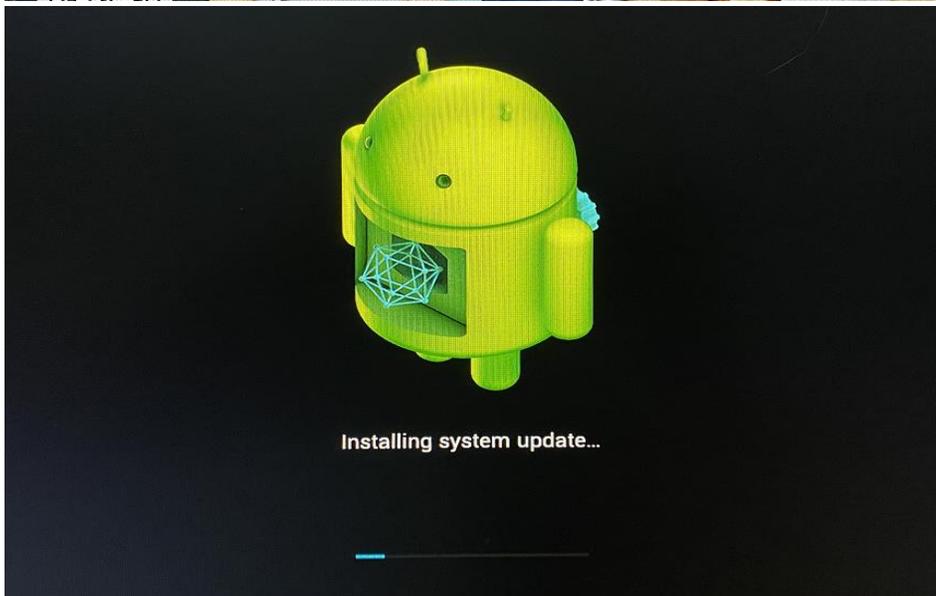
Other type: [ML_NEU_2.4.1_20200601_R_8_OTA_SX.zip](#)

After downloading, unzip the OTA file to "update.zip". Click "Remote settings", choose the right zip file and click "OK". It will show this warning on the terminal. Waiting for some minutes, the terminal will reboot automatically. After reboot, the upgrading process is finished.

The screenshot shows the 'Terminal Upgrade' dialog box. The 'Upgrade File' field is set to 'C:/Users/wujiehao/Desktop/update.zip'. A red box highlights the three-dot menu icon next to the file path. Below the dialog, a table shows the progress of the upgrade for terminal 1.

No.	Terminal Name	Upgrade Progress	Upgrade Result
1	192.168.1.200	0%	

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You can check the software version in the device management interface.



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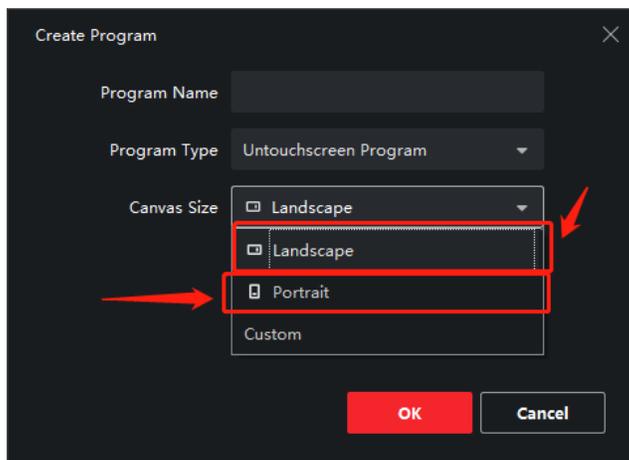
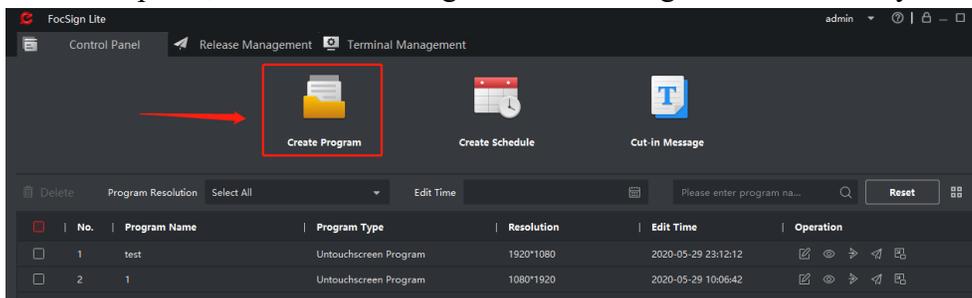
2) Local Update

You need a USB disk with FAT32 format. Unzip the OTA file to “update.zip”, and put the zip file to the root path of USB disk. Insert the USB disk to device, it will remind you to upgrade the device. The process is same as remote upgrading.

5. Create Program

1) Program Panel

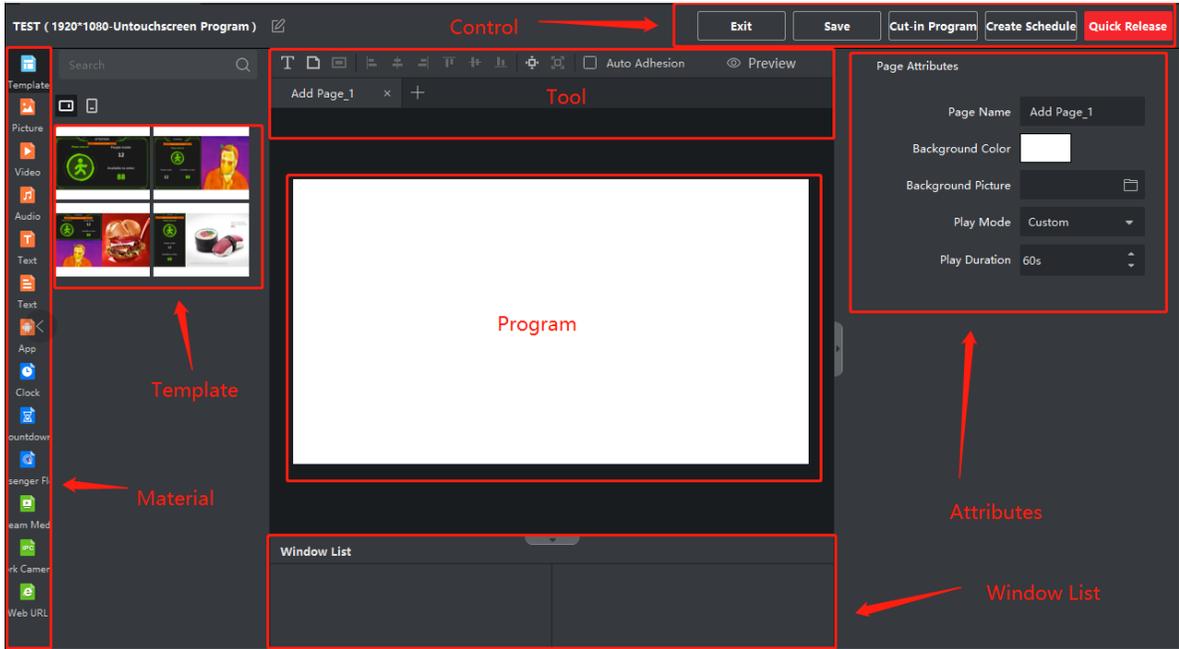
In control panel, click “Create Program”. Choose right canvas size of your device.



In left side, you can see a material bar. The material library is at the right of the bar. In the top side, there are control bar and tool bar. The program preview interface is in the middle. The right side is parameter-setting menu of playing. The bottom side is window list and material list. If you need to change the

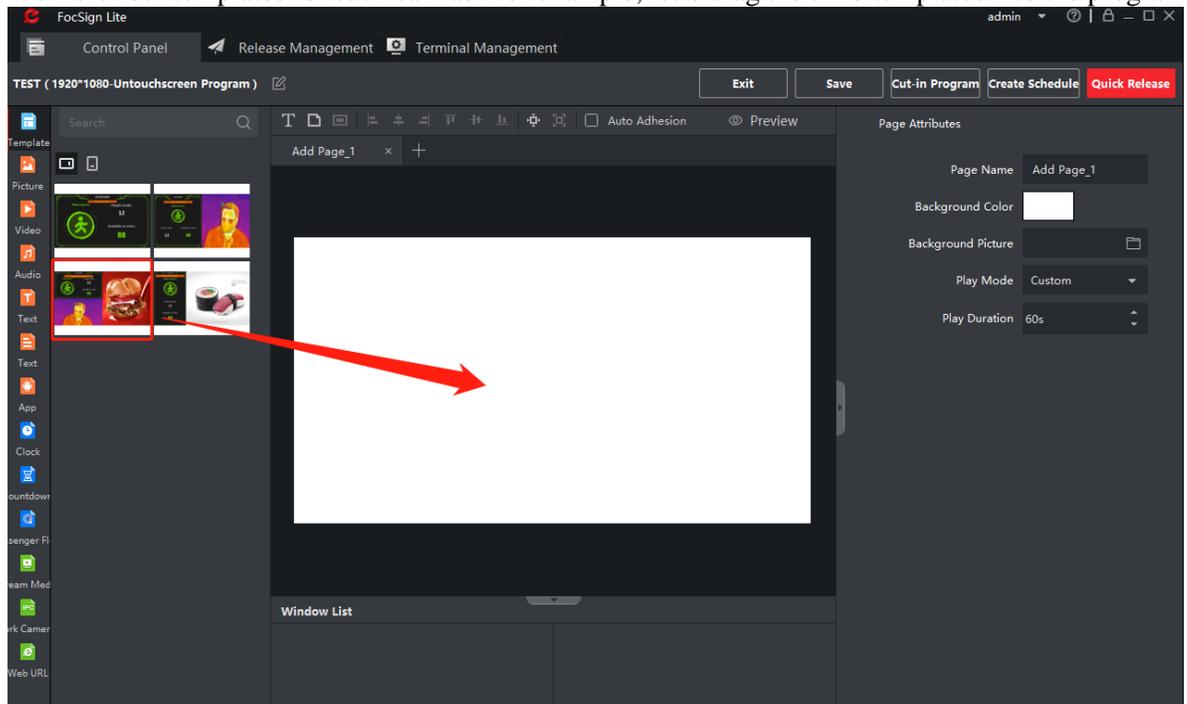
canvas of the program, you can click the button  at right side of the program's name.

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2) Template

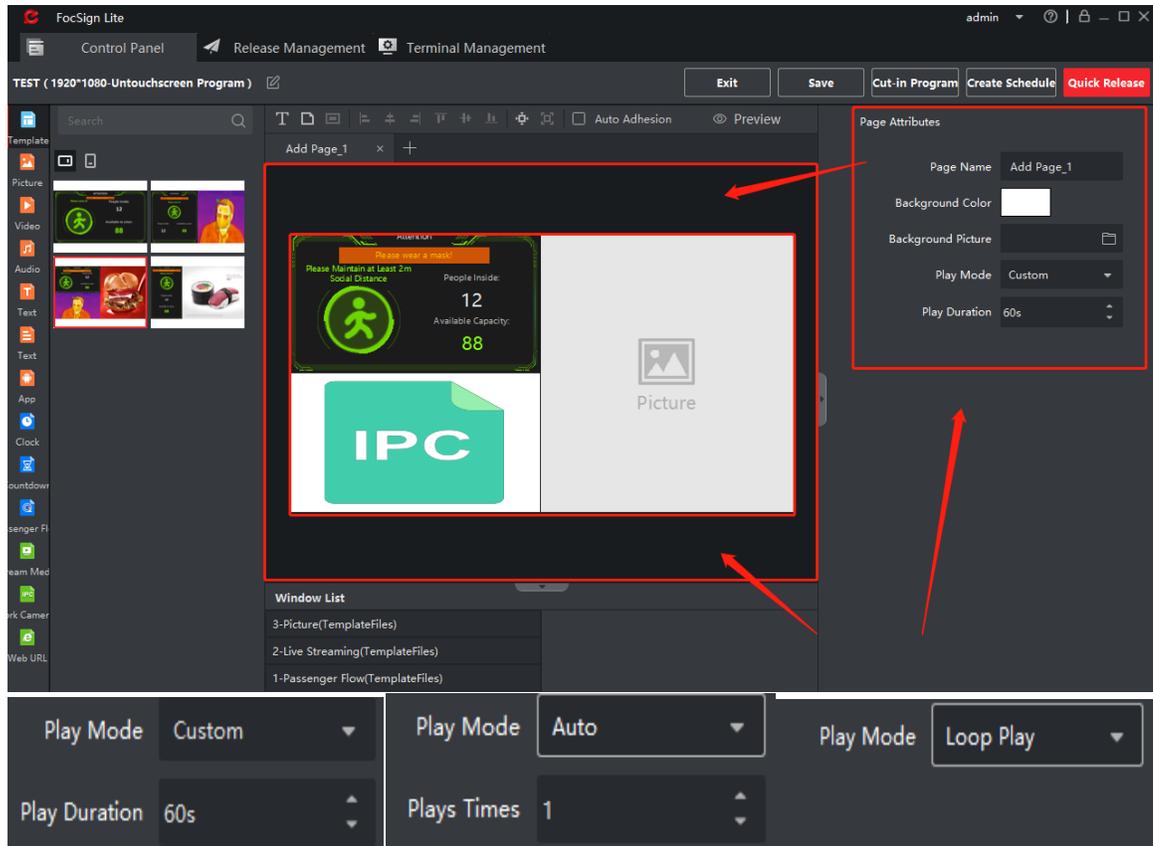
We have four templates for each canvas. For example, let's drag the third templates into the program.



3) Page Attribution

Click the black area around the canvas. You can change all attributions of the page at right side.

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There are three modes for pages: Custom, Auto and Loop Play.

Custom: You can set the play duration of the page. After this time, the program will turn to next page. If there are only one page in your program, the page will refresh after this time. **(Note : After the page changed or refreshed , the people counting data will be cleared)**

Auto: You can set the play times of this page. The play duration is depended on the maximum time of the materials. After those times, the program will turn to next page. If there are only one page in your program, the page will refresh. **(Note : After the page changed or refreshed , the people counting data will be cleared)**

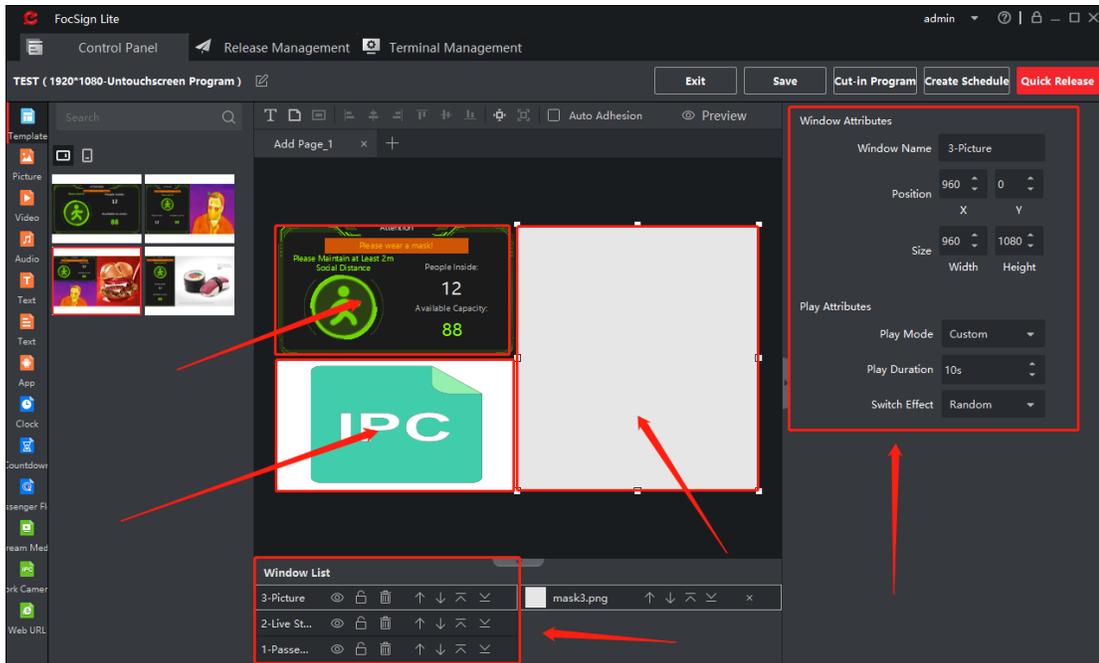
Loop play: Loop this page. The page won't change or refresh. **(For this solution, this mode is most recommended)**

4) Window and Material Attributions

***Note:** You can't change the size of the window at first time after you create the program. You can save the program and re-edit it. Then you can change the size of the windows.

Click the window in the canvas or the window's name in window list, you can change the attributions of windows and materials. The playtime's priority of the pages higher than the material's. That means if the playtime of the page is exhausted, it will change the page or refresh the page no matter the material's time is ended or not.

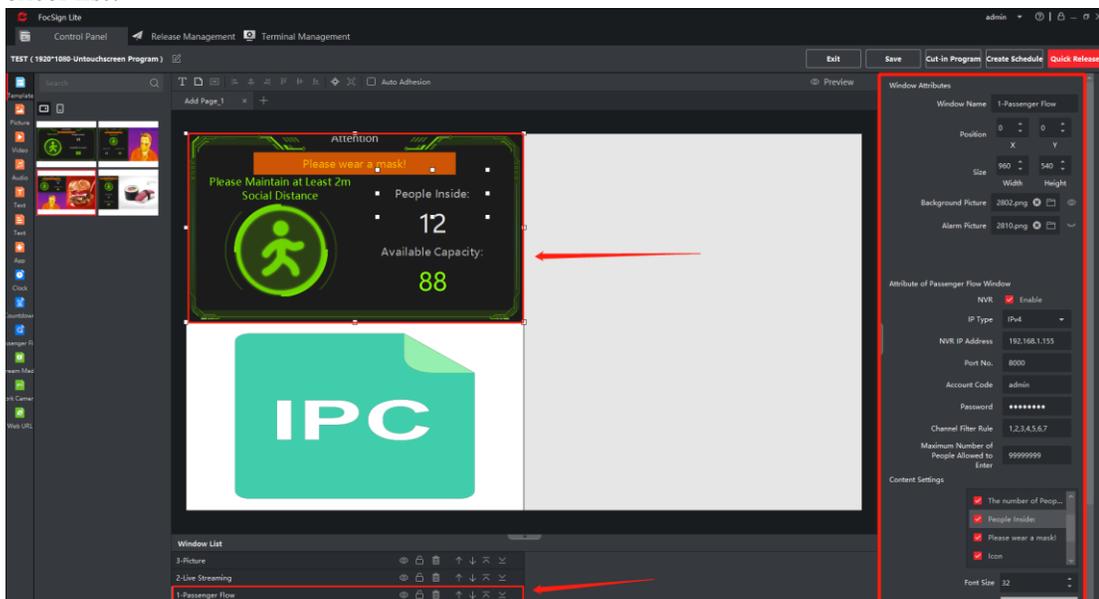
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5) Flow Control Window Attributions (With NVR)

*The flow control window support 256 channels in total. These channels can be people counting camera or mask detection camera.

Click the flow control window; you can change the attributions of it at right side. (The NVR need to enable the linkage of “Notify Surveillance Center”. You can check the supported models of NVR in the excel list)



You can change the size and background picture of the windows. (Note: We don't recommend you to change the size of flow control window, it may cause some UI problem.)

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Enable the NVR function in attribution interface. Input all the parameter of the NVR. In channel filter rule box, you can input the channel ID in the NVR (You can check the channel ID in the website of NVR). You can divide the ID channels with “,”. The channel's maximum number is 256. You can also set the maximum number of people. (The maximum number is 99999999)

In content setting, you can change the color and size of flow control window's UI.

The image displays three overlapping screenshots from the Hikvision configuration interface:

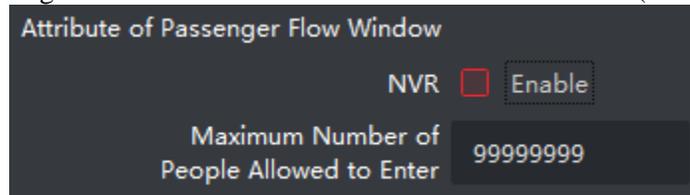
- Window Attributes:** Shows settings for a window named "1-Passenger Flow". The position is set to X: 0 and Y: 0. The size is set to Width: 960 and Height: 540. The background picture is "2802.png" and the alarm picture is "2810.png".
- Attribute of Passenger Flow Window:** Shows NVR settings. The NVR is enabled. IP Type is IPv4. NVR IP Address is 192.168.1.155. Port No. is 8000. Account Code is admin. Password is masked with dots. Channel Filter Rule is 1,2,3,4,5,6,7. Maximum Number of People Allowed to Enter is 99999999.
- Content Settings:** Shows a list of content items with checkboxes: "The number of Peop...", "People Inside:", "Please wear a mask!", and "Icon", all of which are checked. Below the list, font settings are shown: Font Size is 32, Font Color is a light gray, Position is X: 544 and Y: 105, and Size is Width: 313 and Height: 134.

6) Flow Control Window Attributions (Directly Connect to IPC)

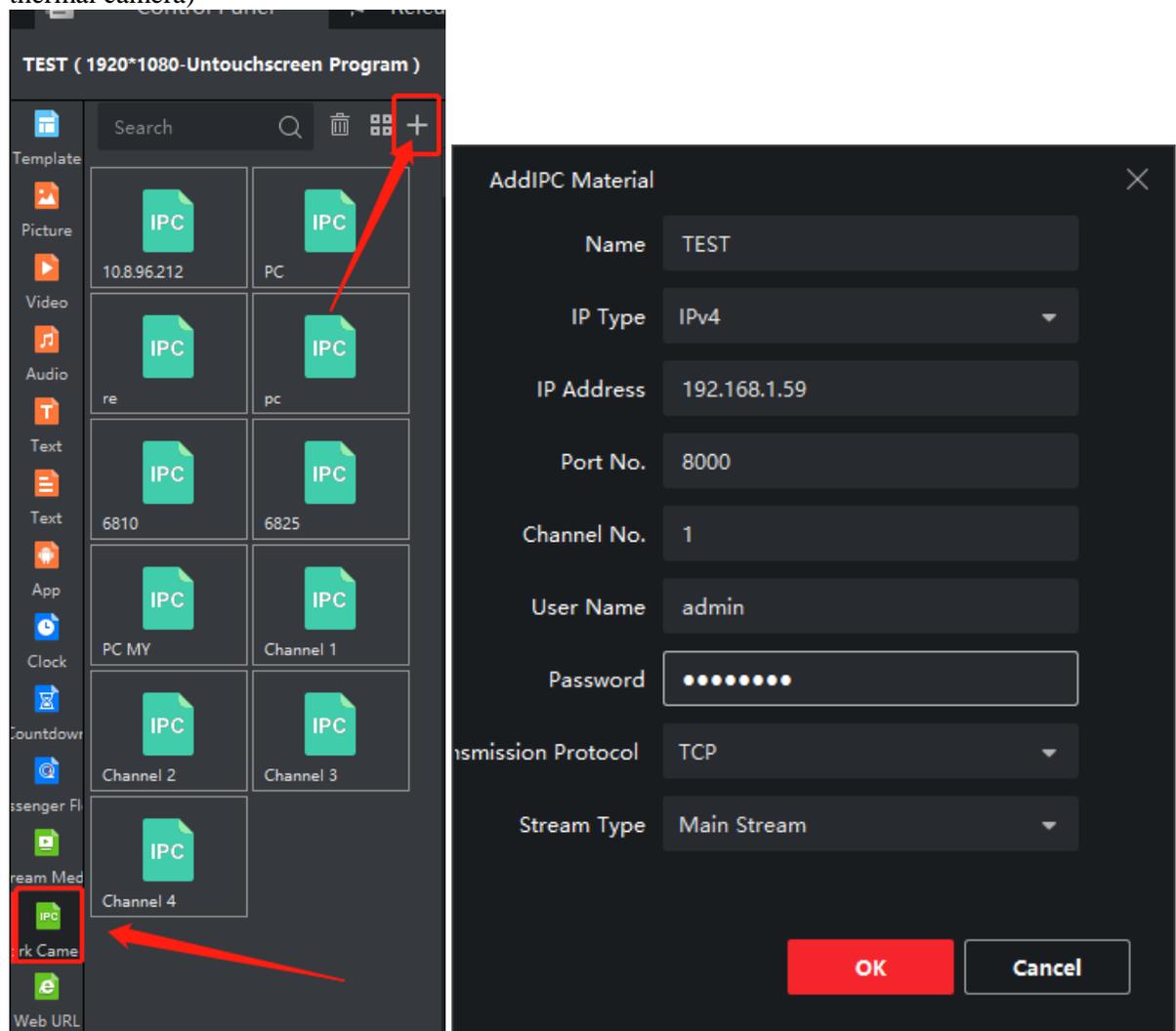
* The flow control window support 256 channels in total. These channels can be people counting camera or mask detection camera.

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Click the flow control window; you can change the attributions of it at right side. Disable the NVR function. The other setting are same as "Flow Control Window Attributions (with NVR)".

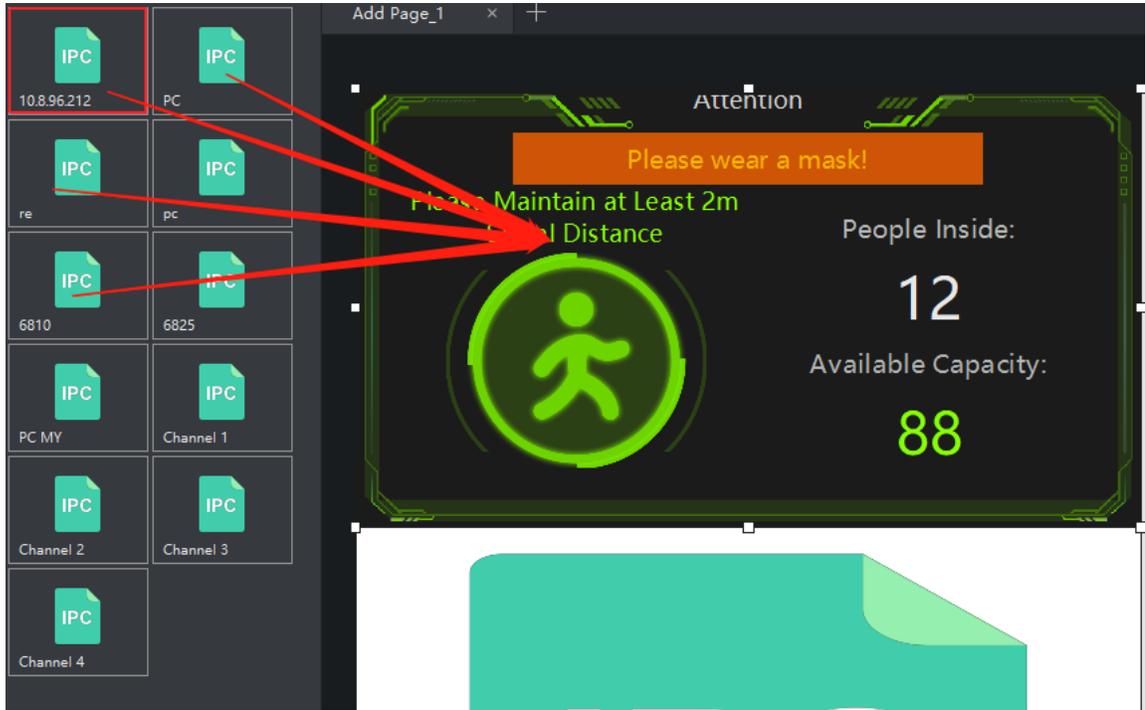


Click the network camera button at material bar. Click  to add the cameras. You can use channel number to choose different channel of IPC. (For example: thermal channel and optical channel of thermal camera)



After adding cameras, drag the camera to flow control window. **Note: Channel 1-4 are the camera which you added in the remote configuration.**

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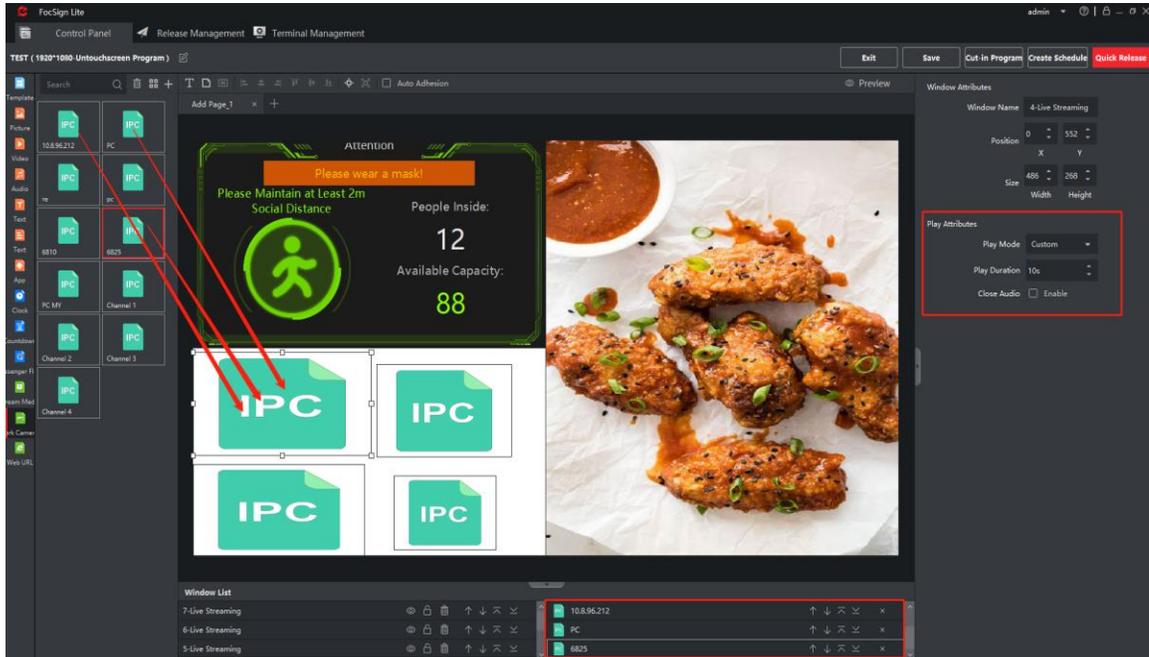
7) Live View of IPC

***Note: The device's decoding ability is only four 1080P channels in same time. If you add video material in the program, it will also occupy the decoding resource.**

Drag the IPC to the program. Each page can only have four IPC windows in same time. You can change the size of windows. You can drag multiple cameras into the IPC window. You can set duration for each IPC. They will play in a loop. You can add 32 cameras in same window.

Note: You can't change the size of the window at first time after you create the program. You can save the program and re-edit it. Then you can change the size of the windows.

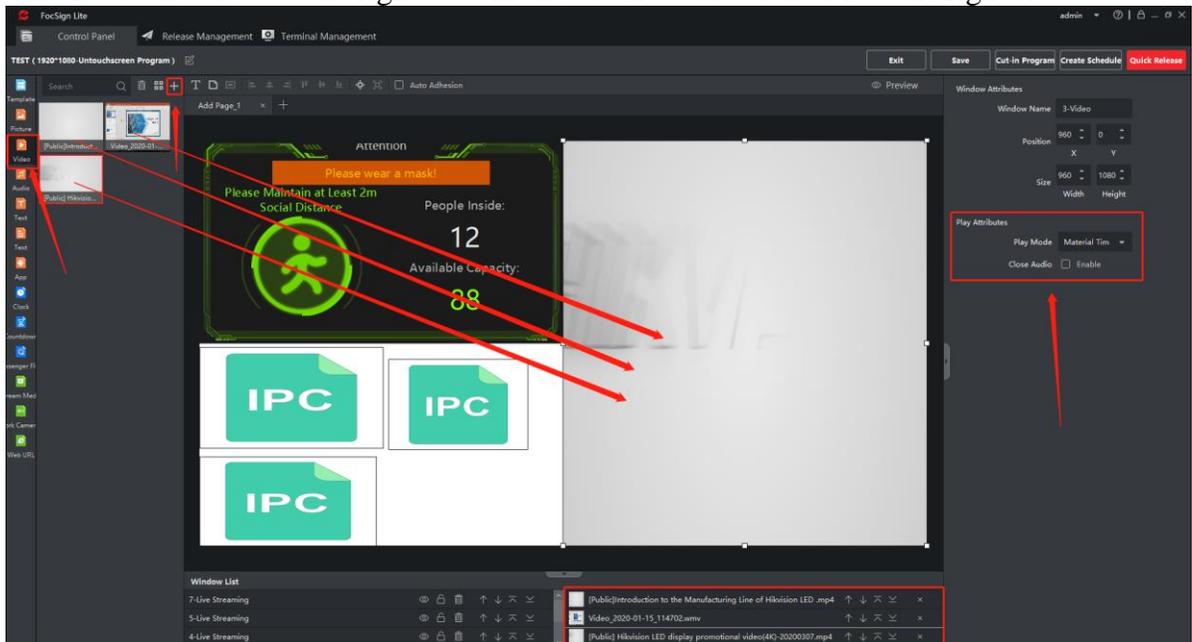
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8) Other Material Attribution

Every window can only add same type material. For example, you can't drag a video and picture into same window. And the maximum number of video window (include IPC window) is 4.

For example, click the video at the material bar. Click **+**, import the video material. Drag the video into the program. You can drag multiple videos to same window (Maximum 32). You can choose the video at the right bottom and set the attribution of it at the right side.



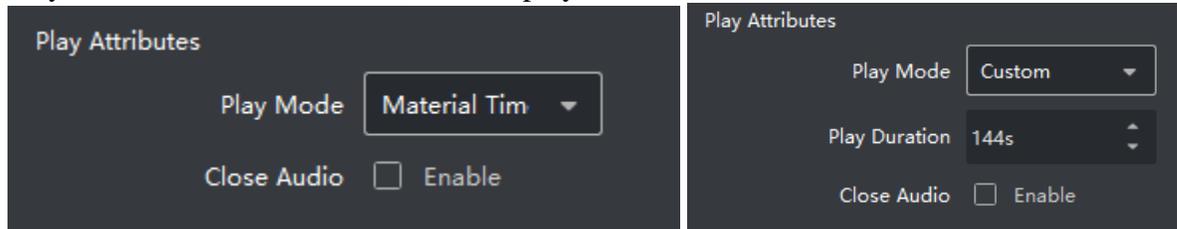
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There are two play modes for materials. You can also enable the audio of the video.

***Note: You can only enable one audio resource in same page.**

Material Time: Set the play time to the video's original time. After that time, it will turn to next video. If there is only one video in the windows, it will replay.

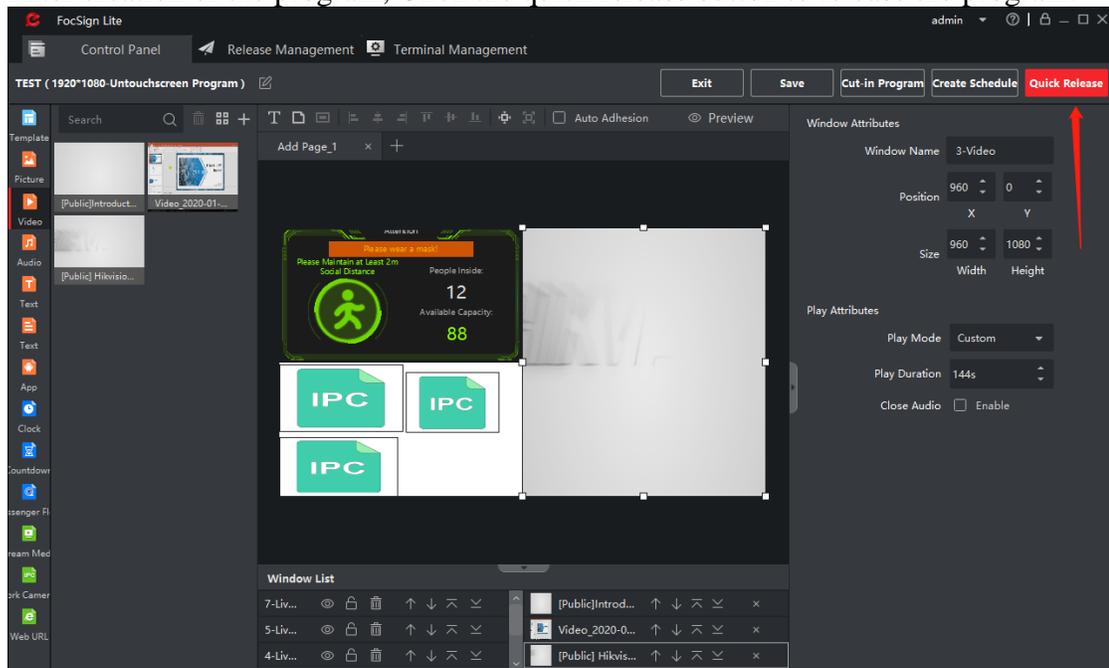
Custom: You can customize the play time. After that time, it will turn to next video. If there is only one video in the windows, it will replay.



6. Program Release

1) Quick Release

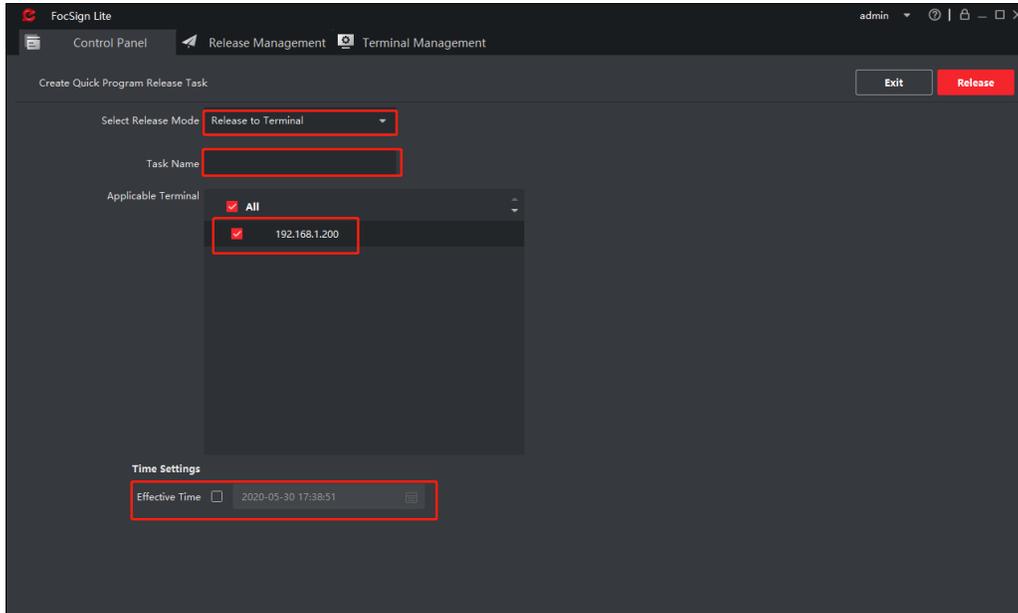
After creation of the program, Click the quick release button to release the program.



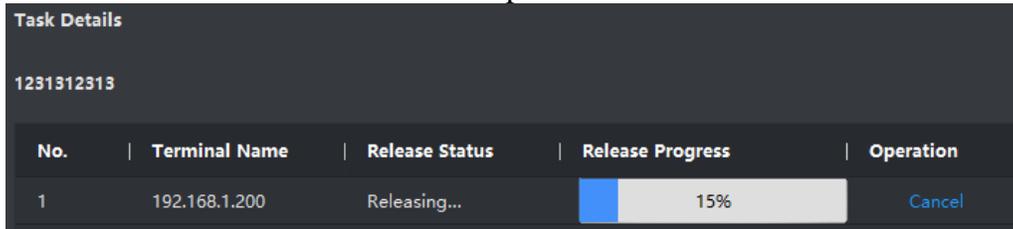
There are two release modes: Release to Terminal and Release to USB disk.

Release to Terminal: Input the task name and choose the terminal. You can set the effective time. If you don't enable effective time, it will effect immediately.

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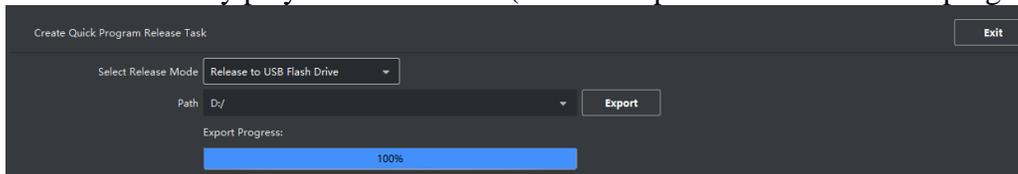


Click release button to start the release process.



After the release process, the program will show on screen.

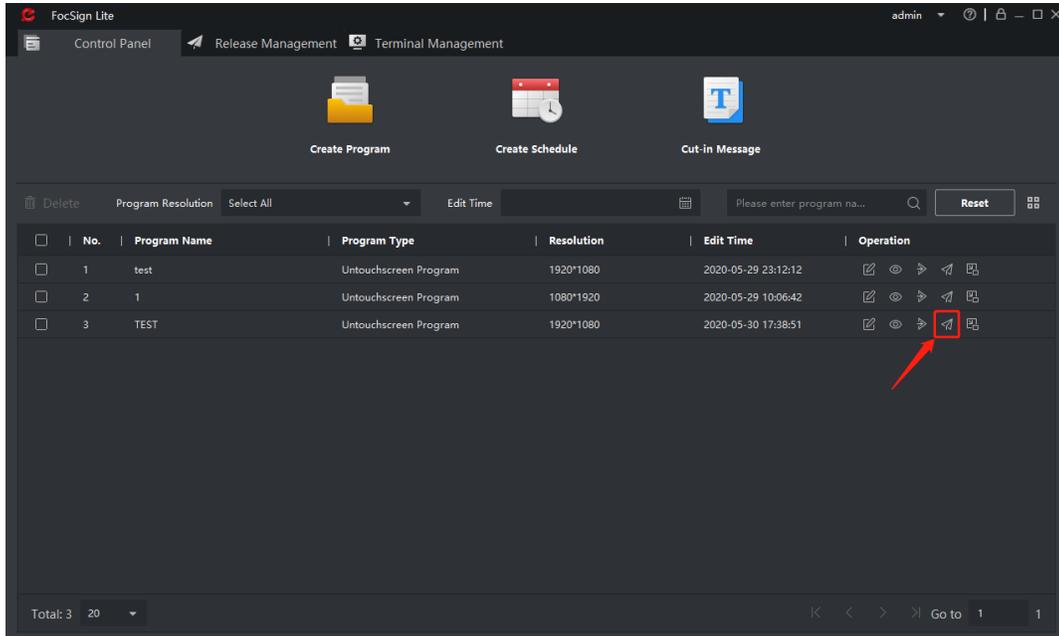
Release to USB Flash Disk: Choose the path for the program. Click export button to export the program to the USB disk. After that, you can insert the USB disk to the terminal. The program will automatically play in the terminal. (You can't pull the disk when the program is playing)



2) Normal Release

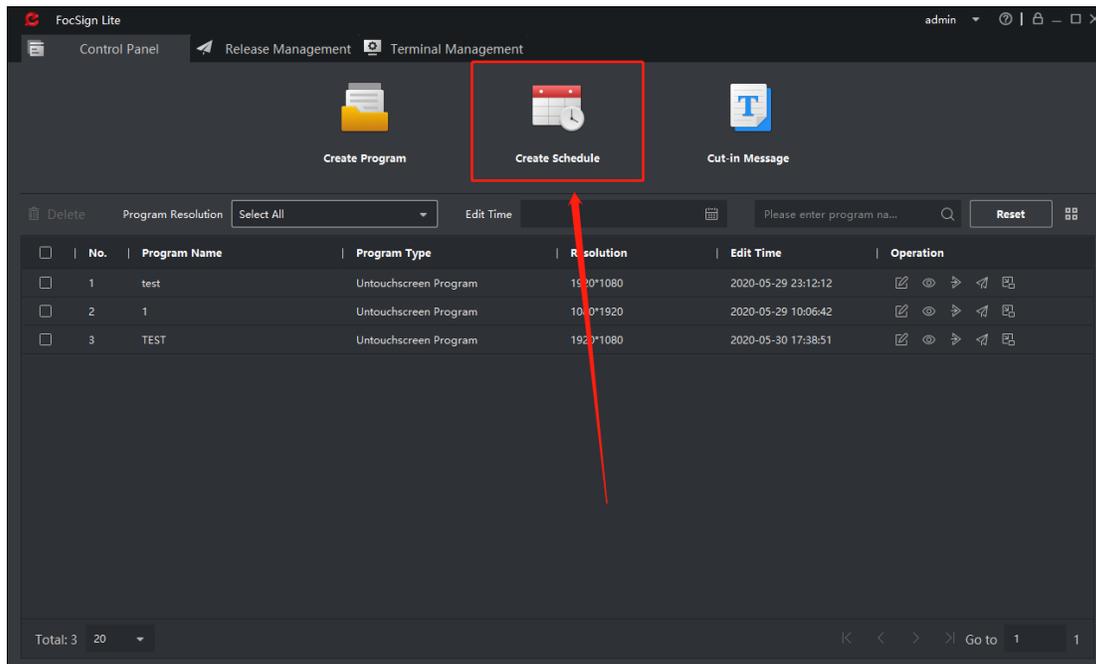
In the control panel, click  at right side to release the program. You can also edit the program and cut-in the program.

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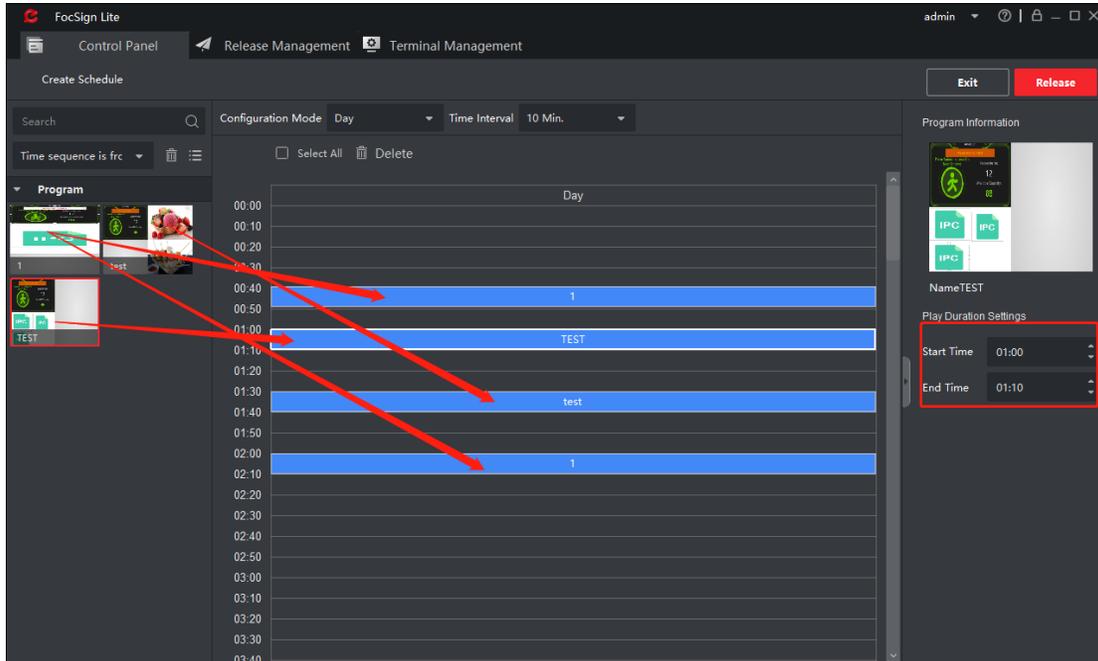


7. Schedule Release

Choose “Create Schedule” at control panel. Drag the programs into the schedule; you can set the schedule by daily/weekly/custom/loop. You can set the start time and end time for each program. Click release to release the schedule. (It will also release the program to the terminal) (You can also release the schedule to USB disk)



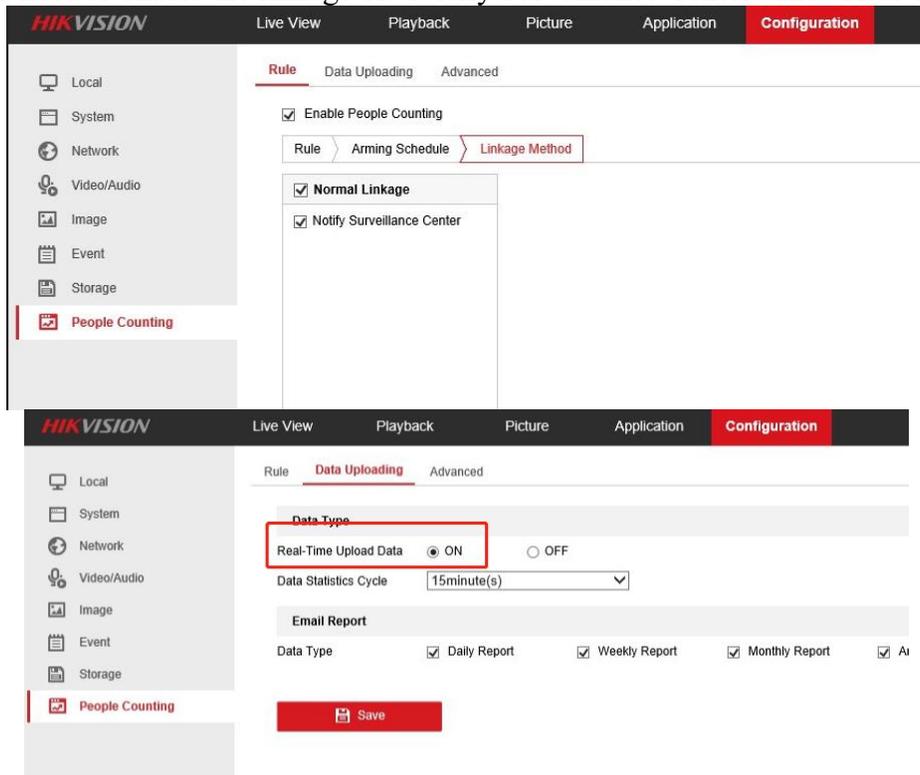
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8. Camera and NVR Setting

1) People Counting Camera

You need to enable the linkage of “Notify Surveillance Center” and “Real-Time Upload Data”.



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- 2) Mask Camera
You need to enable the linkage of “Notify Surveillance Center” and “No Mask Alarm”.
- 3) NVR
NVR need to enable the linkage of “Notify Surveillance Center” and “No Mask Alarm”. The people counting data will transparent transmit to the terminal. NVR need to upgrade to 3 in 1 version.

更新信息:

时间	更新内容	版本	人员
2020/5/30	Creat	V1.0.0	Richard Wu
2020/6/1	Update the Version Info	V1.0.1	Richard Wu

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