# HIKVISION

Title:	How to Deploy Hikvision's Density Control Solution on Digital Signage	Version:	V3.0.0 build 20200529	Date:	<b>5/</b> 30 <b>/2020</b>
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## 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.

			_ X
		Welcome	
		A	
		Remember Password	
		Port Configuration	
		Login	
			4
Port Configuration			×
	Enable the Port Mapping		
Nic	NIC 1	· ·	
IP Address	10.9.96.50	S	
Terminal Ehome Port	8660	♥	
Terminal Schedule Release Port		♥	
Terminal Upgrade Port 1		♥	
Terminal Upgrade Port 2			
Terminal Upgrade Port 3		S	
Terminal Upgrade Port 4	56664		
Terminal Upgrade Port 5			
	Save		

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:

	Enable the Port Mapping	
NIC	NIC 1	-
IP Address	10.9.96.50	8
Terminal Ehome Port	8660	⊘
Terminal Schedule Release Port	7662	⊘

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.

	Enable the Port Mapping	
NIC	NIC 1	-
IP Address	10.9.96.50	<b>e</b>
Terminal Ehome Port	8660	0

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)

Port Configuration	Enaple the Port Mapping					
NIC	NIC 1					
IP Address	10.9.96.50	0	$\langle = \rangle$	ExternalIP	10.7.52.39	0
Terminal Ehome Port	8660	$\odot$	$\langle = \rangle$	External Port	8660	0
Terminal Schedule Release Port	7662	0	$\langle = \rangle$	External Port		0
Terminal Upgrade Port 1	56661	0	$\langle = \rangle$	External Port	56661	0
Terminal Upgrade Port 2	56662	0	$\langle = \rangle$	External Port	56662	0
Terminal Upgrade Port 3	56663	0	$\langle = \rangle$	External Port	56663	0
Terminal Upgrade Port 4	56664	0	$\langle = \rangle$	External Port	56664	0
Terminal Upgrade Port 5	56665	0	$\langle = \rangle$	External Port	56665	0
	Save					

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.

🤔 FocSign Lite	admin 🔻 🖉   🖴 — 🗆 🗙
🧧 Control Panel 🖪 Release Management 🙋 Terminal Management	
+ Add Terminal 🗇 Upgrade 💿 Remote Settings Back Online Please e	nter terminal information. Q 🎛
🗌   No. 🗍 🔭 minal Name   Terminal Type   Network Status   Terminal Serial No.   IP   Operation	Terminal Operation
🗌 1 10.9.96.49 🗹 🖻	● ● 米 Startup Shutdown Reboot
	Play/Stop Play Stop
	Cut-in Stop
	Output Volume
	• • •
	Auto-Brightness O Backlight
	Backlight 30 👻
	Scheduled Startup/Shutdown
	Settings
	Scheduled Volume
	Settings
	Default Parameter(s) Restore
	Play by Default
Online Terminal (1) Activate CMS Registration Edit Network Parameter(s) Reset Password Obtain Register Status	S &

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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		No Data				Auto-Brightness     Backlight     So     Scheduled Startup/Shutdown     Settings
Online Terminal (1) Activate	CMS Registration	Edit Network Parameter(s)	Reset Password	Obtain Register Status		C ×
IP   Terminal Type	MAC Address	i Serial No.		Software Version	Activation Status	Registration Status
10.9.96.49 DS-D60C-B	b4-a3-82-f2-4	4-33 DS-D60C-B0020181	109CCRR243324642	V3.0.0 build 202005	19 Activate	Unknown

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)

	CMS Registration	×	
	IP Type: IPv4	-	
	Server IP Address: 10.9.96.5	)	
	Server Port: 8660		
	Terminal Password:		
		OK Cancel	
🔽   No. 🏮   Terminal Name   Termir	al Type   Network Status	Terminal Serial No.   IP	Operation
🗹 1 10.9.96.49 No Tou	uch Screen 🛛 🥑 Online	243324642 10.9.	96.49 🗹 🖹

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.

	Change Terminal			
	IP Address	10.9.96.49		
	Port No.	8000		
	Subnet Mask	255.255.255.0		
	Gateway	10.9.96.254		
	Terminal Password			
		ок	Cancel	ſ
IP   Terminal Type   MA	C Address   Serial No.	📮   Software Version	Activation Status	Registration Status
10.9.96.49 DS-D60С-B b4-	a3-82-f2-44-33 DS-D60C-B00201811	09CCRR243324642 V3.0.0 build 202005	19 Activate	Registered(10.9.96.50)

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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.

~			
Add Terminal			×
Adding Mode:	Add by IP		
ІР Туре:	IPv4		
Terminal IP Address:			
Port	8000		
Terminal Name:			
Terminal Password:			
	ок	Cancel	

#### 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.

P	Add Terminal				×
	Adding Mode:	Add by Termina	al No.	•	
	Terminal Name:				
	Terminal Serial No.:				
	Description:				
		ок	Cancel		

### 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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Terminal Remote Settings			
<ul> <li>m Terminal Operation</li> </ul>	Time Sync Settings		
Password Settings			
🍪 Timezone Settings	Set Time		🗹 Local Time
🐨 Security Settings	Apply to Terminal		C
Logo Settings		🗹 Select All	
i Sync Time Settings		M TEST	
🕎 Terminal Debugging			
🝷 🏥 Terminal Linkage 🛛 Terminal De	bugging		
💷 IPC Channel Settings			

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,

🔹 🥅 Terminal Operation	Channel Parameter Settings			
Password Settings	+ 茴 ↑ ↓			
🔀 Timezone Settings	demolate 1 ind	10.0.05 101		
🐨 Security Settings		10.9.96.181		
🔲 Logo Settings	Channel 1 10.9.96.181	ІРС Туре		-
Sync Time Settings	Channel 2	Link Channel		
🕎 Terminal Debugging	Channel 3			
👻 💷 Terminal Linkage	Channel 4	ІР Туре:	IPv4	
💷 IPC Channel Settings		IPv4 Address	10.9.96.181	
		Port	8152	
		User Name	admin	
		Password	•••••	
		IPC Channel		
		Transmission Protocol	ТСР	
		Stream Type		

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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	🗹   No. 🏮   Terminal Name 🛛   Terminal Type 🔤 Network Status   Terminal Serial No.	IP	Operation	
	🗹 1 TEST No Touch Screen 🤡 Online 243324642	10.9.96.49	r B	
	View Terminal Details			
	Terminal Name: TES	т		
	Resolution: 192	0*1080		
	Installation Type: Lan	dscape Mode		
	62 withe open	324642		
	38 Software Version: V3.	0.0 build 20200	0519	
	Hardware Version: 701	73		
	System Version: A6.	0.1		
	Registration Time: 202	0-05-26 20:37:3	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.

Termir	al Upg	rade				
Upgrad	le File	C:/Users/wujiehao/D	esktop/up	date.zip		
No.		Terminal Name	Up	grade 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.

🗯 FocSign Lite				admin 🔻 🛛 🛛 🛆 — 🗆 🗙
Control Panel	🛛 🖪 Release Management 🚇 Termina	I Management		
_	Create Program	Create Schedule	Cut-in Message	
🛱 Delete 🛛 Program Re	solution Select All 👻	Edit Time		rogram na Q Reset 🔡
🔲   No.   Program	n Name 🔰 Program Type	Resolution	Edit Time	Operation
1 test	Untouchscreen F	Program 1920*1080	2020-05-29 23:12:12	
2 1	Untouchscreen F	Program 1080*1920	2020-05-29 10:06:42	

Create Program		×
Program Name		
Program Type	Untouchscreen Program	-
Canvas Size	Landscape	- /
	Landscape	
	Portrait	
	Custom	
	ОК	Cancel

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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TEST (	1920*1080-Untouchscreen Program )			Exit	Save Cut-in Program	Create Schedule Quick Release
		T D 🗉 ⊨ ≠ =	〒 井 止 🌵 🖾 🗌 Auto Adhe	sion © Preview	Page Attributes	
Template		Add Page_1 $\times$ +			Page	Name Add Page_1
Video					Background	Color
					Background P	icture 🗋
Audio					Play	Mode Custom 🔫
Text	🥂 🖾 🗧 🗹				Play Du	ration 60s 🇘
E Text						
<u></u>			Program			
App						
Clock						
senger Fl					J '	
eam Med						
		Window List				
rk Camer						
Web URL						

#### 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)



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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.

		Attribute of Passenger Flow Wind	ow
		NVR	🔽 Enable
Window Attributes		ІР Туре	IPv4 🔫
Window Name	1-Passenger Flow	NVR IP Address	192.168.1.155
Position	o ‡ o ‡	Port No.	8000
	X Y	Account Code	admin
Size	960 540 Width Height	Password	•••••
Background Picture	2802.png 😢 📋 💿	Channel Filter Rule	1,2,3,4,5,6,7
Alarm Picture	2810.png 😢 🛅 😽	Maximum Number of People Allowed to Enter	99999999
	Content Settings Fo Font	<ul> <li>The number of Peop</li> <li>People Inside:</li> <li>Please wear a mask!</li> <li>Icon</li> <li>Icon</li> <li>Size</li> <li>32</li> <li>105</li> <li>X</li> <li>Y</li> <li>313</li> <li>134</li> <li>134</li> </ul>	

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)".

Attribute of Passenger Flow Window	
NVR	🔲 Enable
Maximum Number of People Allowed to Enter	99999999

Click the network camera button at material bar. Click it 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)

TEST (	1920*1080-Untou	chscreen Program )					
	Search	Q 💼 🎛 🕂					
Template			AddIPC Material				×
Picture	10.8.96.212	PC	Name	TEST			
Video			ІР Туре	IPv4		-	
Audio	re	рс	IP Address	192.168.1.5	59		
Text	IPC	IPC	Port No.	8000			
Text	6810	6825	Channel No.	1			
App C			User Name	admin			
Clock			Password	•••••	,		
Countdowr @	Channel 2	Channel 3	smission Protocol	тср		-	
ssenger Fl			Stream Type	Main Strea	m	-	
ream Med	Channel 4						
rk Came	-				ок	Cancel	
Web URL							

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.

Play Attributes	Play Attributes	
Day Mada Material Tim	Play Mode	Custom 🝷
	Play Duration	144s 🗘
Close Audio 🔲 Enable	Close Audio	🗌 Enable

### 6. Program Release

1) Quick Release

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

C	FocSign Lite						а	idmin 🔻 ?	
ē	Control Panel 🖪 Relea	ase Management 👱	Ferminal Management						
TEST (	1920*1080-Untouchscreen Program )				Exit	Save	Cut-in Program	Create Schedule	Quick Release
	Search Q 🛱 🎛 🕂	T 🗅 🖃 ⊨ 🕸		Auto Adhesion		Wind	low Attributes		
l emplate		Add Page_1 × -					Window Name	a 3-Video	
Picture Dicture Video	[Public]Introduct Video_2020-01						Position	960 ‡ 0 X	
D Audio	Martin -	Please w Please Maintain at Least 2n	ear a mask!				Size	960 10	80 🗘 🕴
Text		Social Distance	People Inside: 12 Available Capacity:			Play .	Attributes	Width F	leight
Text			88				Play Mod	e Custom	
C) App							Play Duratio	n 144s	
<u></u>		IPC	IPC			. P	Close Audi	o 🗌 Enable	
Clock									
ountdowi @		iPC			_	L			
senger H									
eam Med									
ork Camer									
e		7-Liv © 🗀 🛄	$\uparrow \downarrow \land \checkmark$	[Public]Introd 个					
		5-Liv © 🗄 🔟	$\uparrow \lor \land \succeq$	Video_2020-0 ↑	<u>↓ ∧ ⊻ ×</u>				
		_4-Liv ◎ ⊡ 🔟	$\uparrow \downarrow \land \succeq$	[Public] Hikvis 个					

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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💪 FocSign Lite				admin 🝷 🕐   台 — 🗆 🗙
🖬 Control Panel 🗖	Release Management 🙎 T	erminal Management		
Create Quick Program Release Tasl	ĸ			Exit Release
Select Release Mode	Release to Terminal	•		
Task Name				
Applicable Terminal				
	192.168.1.200			
Time Settings				
Effective Time				
Click release bu	itt <u>on to start t</u>	the release p	rocess.	
Task Details				
1221212213				
1231312315				
No Termi	nal Namo	Poloaco Statuc	Polosco Prograss	Operation

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

Releasing...

192.168.1.200

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)

15%

Create Quick Program Release Tas	k				Exit
Select Release Mode	Release to USB Flash Drive	•			
Path			Export		
	Export Progress:				
		100%			

#### 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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			i				L		1								
			Crea	te Program		Create Sc	hedule	c	ut-in M	essage							
n Delete		Program Resolution	Select All		Edit Time			Ē	1						Reset		
0 1	No.	Program Name		Program Type			Resolution		Edit	Time	Ope	ration					
0		test		Untouchscreen Prog	gram		1920*1080		2020	-05-29 23:12:12							
				Untouchscreen Prog	gram		1080*1920		2020	-05-29 10:06:42							
				Untouchscreen Prog	gram		1920*1080		2020	-05-30 17:38:51				-1			
Total: 3														io to			

### 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)

FocSign Lit	e						admin		0   A	– o ×
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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".

Ţ	Local	Rule Data	Uploading Advan	ced			
-	System	Enable P	eople Counting				
O	Network	Rule A	Arming Schedule	Linkage Method			
<u>Q.</u>	Video/Audio	V Normal	l Linkage				
1	Image	☑ Notify S	urveillance Center				
Ē	Event						
8	Storage						
	People Counting						
HI	KVISION	Live View	Playback	Picture	Application	Configuration	
HI	KVISION	Live View Rule Data U	Playback	Picture	Application	Configuration	
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HI III	KVISION Local System	Live View Rule Data U	Playback ploading Advanced	Picture	Application	Configuration	
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	KVISION Local System Network Video/Audio	Live View Rule Data U Data Type Real-Time Upto Data Statistics	Playback bloading Advanced bload Data  ON Cycle 15minut	Picture	Application	Configuration	
	KVISION Local System Network Video/Audio Image	Live View Rule Data Up Data Type Real-Time Upic Data Statistics Email Repo	Playback bloading Advanced bload Data  ON Cycle 15minut rt	Picture	Application	Configuration	
	KVISION Local System Network Video/Audio Image Event	Live View           Rule         Data Up           Data Type         Real-Time Upk           Real-Time Upk         Data Statistics           Email Repo         Data Type	Playback bloading Advanced bload Data ● ON Cycle 15minut rt ☑ Daily	Picture	Application	Configuration	V
	KVISION Local System Network Video/Audio Image Event Storage	Live View Rule Data Up Data Type Real-Time Upk Data Statistics Email Repo Data Type	Playback bloading Advanced bload Data  ON Cycle 15minut mt Daily 1	Picture	Application	Configuration	2

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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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