Visualization Intelligent Control Platform (Simplified Mode)

User Manual

Manual Version: V1.08

Disclaimer and Safety Warnings

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Network Security

Please take all necessary measures to enhance network security for your device.

The following are necessary measures for the network security of your device:

- Change default password and set strong password: You are strongly recommended to change the default password after your first login and set a strong password of at least nine characters including all three elements: digits, letters and special characters.
- Keep firmware up to date: It is recommended that your device is always upgraded to the latest version for the latest functions and better security. Visit Uniview's official website or contact your local dealer for the latest firmware.

The following are recommendations for enhancing network security of your device:

- Change password regularly: Change your device password on a regular basis and keep the password safe. Make sure only the authorized user can log in to the device.
- Enable HTTPS/SSL: Use SSL certificate to encrypt HTTP communications and ensure data security.
- Enable IP address filtering: Allow access only from the specified IP addresses.
- Minimum port mapping: Configure your router or firewall to open a minimum set of ports to the WAN and keep only the necessary port mappings. Never set the device as the DMZ host or configure a full cone NAT.
- Disable the automatic login and save password features: If multiple users have access to your computer, it is recommended that you disable these features to prevent unauthorized access.
- Choose username and password discretely: Avoid using the username and password of your social media, bank, email account, etc, as the username and password of your device, in case your social media, bank and email account information is leaked.
- **Restrict user permissions:** If more than one user needs access to your system, make sure each user is granted only the necessary permissions.
- **Disable UPnP:** When UPnP is enabled, the router will automatically map internal ports, and the system will automatically forward port data, which results in the risks of data leakage. Therefore, it is recommended to disable UPnP if HTTP and TCP port mapping have been enabled manually on your router.
- SNMP: Disable SNMP if you do not use it. If you do use it, then SNMPv3 is recommended.
- Multicast: Multicast is intended to transmit video to multiple devices. If you do not use this function, it is recommended you disable multicast on your network.
- Check logs: Check your device logs regularly to detect unauthorized access or abnormal operations.
- Physical protection: Keep the device in a locked room or cabinet to prevent unauthorized physical access.
 Isolate video surveillance network: Isolating your video surveillance network with other service networks helps prevent unauthorized access to devices in your security system from other service networks.

Learn More

You may also obtain security information under Security Response Center at Uniview's official website.

Safety Warnings

The device must be installed, serviced and maintained by a trained professional with necessary safety knowledge and skills. Before you start using the device, please read through this guide carefully and make sure all applicable requirements are met to avoid danger and loss of property.

Storage, Transportation, and Use

- Store or use the device in a proper environment that meets environmental requirements, including and not limited to, temperature, humidity, dust, corrosive gases, electromagnetic radiation, etc.
- Make sure the device is securely installed or placed on a flat surface to prevent falling.
- Unless otherwise specified, do not stack devices.
- Ensure good ventilation in the operating environment. Do not cover the vents on the device. Allow adequate space for ventilation.
- Protect the device from liquid of any kind.
- Make sure the power supply provides a stable voltage that meets the power requirements of the device. Make sure the power supply's output power exceeds the total maximum power of all the connected devices.
- Verify that the device is properly installed before connecting it to power.
- Do not remove the seal from the device body without consulting Uniview first. Do not attempt to service the product yourself. Contact a trained professional for maintenance.
- Always disconnect the device from power before attempting to move the device.
- Take proper waterproof measures in accordance with requirements before using the device outdoors.

Power Requirements

- Install and use the device in strict accordance with your local electrical safety regulations.
- Use a UL certified power supply that meets LPS requirements if an adapter is used.
- Use the recommended cordset (power cord) in accordance with the specified ratings.
- Only use the power adapter supplied with your device.
- Use a mains socket outlet with a protective earthing (grounding) connection.
- Ground your device properly if the device is intended to be grounded.

Contents

Disclaimer and Safety Warnings ······i
1 Introduction ······1
2 Log In to Software ······1
2.1 Software Login ······1
2.2 Interface Introduction ······3
3 Resource Management ······4
3.1 Resource ······5
3.2 Resource Group 10
3.2.1 Add Group
3.2.2 Manage Group 11
4 Video Wall Control 12
4.1 Video Wall Management ······ 12
4.1.1 Create Video Wall ······ 12
4.1.2 Video Wall Introduction 14
4.2 Window Management ······ 16
4.2.1 Open Window 16
4.2.2 Split a Window 18
4.2.3 Manage Window 18
4.3 Video Wall ······ 21
4.3.1 Video Channel ······ 21
4.3.2 Sequence Resource 30
4.3.3 Scene
4.3.4 Scene Sequence 37
4.3.5 Virtual LED
4.3.6 Background Image ······ 43
4.4 Screen Control ······ 45
4.4.1 Configure Screen Parameters ······ 45
4.4.2 Turn On/Off Screen Remotely 45
5 KVM Control 47
5.1 KVM Management······ 47
5.1.1 Create KVM

	5.1.2 KVM Introduction	19
	5.1.3 Manage KVM Group ······	50
5.2	KVM Screen	51
	5.2.1 Video Channel ······	51
	5.2.2 Pre-arranged Plan ······	54
6 User I	Management	56
6.1	Role	57
6.2	User	58
7 Resou	urce ID ······	59

Introduction

The visualization intelligent control platform (hereinafter referred to as "software") is mainly designed for decoders, video wall controllers, distributed video wall controllers and KVM console management system, and central control devices for unified management, so as to control the screen, audio, and environment.

This manual mainly introduces software operations in simplified mode to help you understand how to use it.

NOTE!

The interface and function operations may vary with software version.

2 Log In to Software

Check the following items before you log in to the software:

- The device to be managed runs normally.
- The device to be managed has a network connection to your PC.
- Please log in to the device's Web interface, set the running mode, and set the protocol to ONVIF.



The distributed output device can log in to the software via any protocol.

2.1 Software Login

1. Double-click to start the software, and the login page appears. Choose **Simplified Mode**.

Visualization Intelligent Control Platform	Simplified Mode 🔻	English 👻 🗙
	Current device address:	ک Auto Login

- 2. Click , enter the device's IP address and port, and then input the username and password.
 - Save Password: When enabled, the username and password of the currently logged-in device will be automatically filled in the next time you run the software.

If all devices log in to the software successfully and their passwords are saved, the login information of all devices will be saved automatically. When you click the **IP** drop-down list and choose another IP address, the username and password of the corresponding device are automatically fill in.

Auto Login: When enabled, the device will automatically log in to the software the next time you run the software.

Visualization Intelligent Control Platform	Simplified Mode 🦷	English 🔻 🗙
	IP Port Port	Co Auto Login
	Login	

3. Click **Login** to enter the software interface.

2.2 Interface Introduction

Control Ration BS Video Wall Image: Control C3 Resource A User Till Resource (D A KVM Control User Image: Autor Image: Autor <th>Keywords •</th>	Keywords •
Lyser + Adl © belete	Keywords •
Not Operator admin Admin	
admin Admin 🛞	
	0
	0.00.00.00.00.00
Server Advess Device Model DD43001 HH X Versa	1:

ltem	Description						
admin 🔽	 The currently logged-in user. Change password: Change the password of the currently logged-in user. Switch user: Switch to other user of the device. Return: Return to the login page. 						
	Lock: Lock th by entering t	ne current interface, and the interfa he user password.	ace cannot be operated until it is unlocked				
¢	Client Config	Client Config Client Config Auto Login Auto Login Username Password Selected window always on top Preview Stream Transmission Protoco Preview Stream Transmission Protoco Auto Login (Wall Client): Wh recent server will automatica Auto Login (Windows): Wh password of your Windows automatically after the comp If Auto Login (Wall Client) will automatically log in to Windows.	Wall Client Windows UDP OK Cancel OK Cancel OK Cancel OK Cancel UDP The menabled, start the client, and the most ally log in to the client. The menabled, enter the username and operating system, and the client starts uter enters Windows. is also enabled, the most recent server of the client after the computer enters				

Item	Description					
	 Selected window always on top: When enabled, click a window on the Video Wall page, and the window will be automatically displayed on the top (when multiple windows overlap). Preview Stream Transmission Protocol: Set the transmission protocol when you preview the video source. On the Screen Control or Operator Control page, you can click to preview the transmission protocol used by the video source. 					
	Exit Exit and close the software.					
0	Help. View the software's version information, operation video, etc.					
_ B X	Minimize, zoom out, close the software interface. The interface cannot be moved when maximized, and can only be moved when zoomed out.					
Resource	 Add IPC, NVR, and other resources on the same LAN to the software for unified management. See <u>Resource Management</u> for details. Note: This function is available to certain devices only. 					
Video Wall	Create and manage video walls based on the physical video wall layout and operate on the video wall, for example, play the video of IPC on the video wall. See <u>Video Wall</u> <u>Control</u> for details.					
KVM Control	Create and manage KVMs based on the actual KVM screen layout and operate on the KVM screen, for example, play the video of IPC on the KVM screen. See <u>KVM Control</u> for details. Note: This function is available to distributed output devices only.					
Screen Control	After connecting the managed device to the serial port of the screen, the screen can be turned on/off on the software. See <u>Screen Control</u> for details.					
User	Add users and assign permissions for classified management. See User Management for details. Note: This function is only available to the admin user of distributed output devices and certain video wall controllers.					
Resource ID	Display the ID of signal sources (IPC, NVR, etc.), video walls, and sequence resources. After the network keyboard connects to the display device, you can control the signal sources, video walls, and sequence resources via the corresponding resource ID with the keyboard. See <u>Resource ID</u> for details.					

3 Resource Management

Add IPC, NVR, and other resources on the same LAN to the software. You can import the added resources to different groups based on the actual networking and layout for unified management.

Device	۲	Added Device(0)	Q Auto Search	+ Add	前 Delete	C Refresh	🗠 Status	🚞 Sync Channel			
IPC/NVR		√ li	P Address	Device Na	me	Device Type		otocol	Device Model	Device Status	Operation
Input Node											
Output Node											
GROUPMANAGE	۲										

4

3.1 **Resource**

Added Device(0)	+ Add 📋 Delete	C Refresh	🖂 Status 🛛 🛁 Sync Chan	nel		
√ IP Address	Device Name	Device Type	Protocol	Device Model	Device Status	Operation



- NOTE!
- This function is available to certain devices only.
- The input node and output node tabs are available to distributed output devices only.
- The methods to add and manage resources are similar. The following takes IPC/NVR as an example.

1. Add Resource

You can add resources manually or by auto search.

If the username or password is incorrect, the resource can be added to the list, but it is offline and cannot be operated.

Auto Search

1. Click **Auto Search**, and the auto search page appears. The system automatically searches for resources on the same LAN with the managed device. You can perform the accurate search by setting the conditions including start and end IP address, status, and device type.

Auto Searc							×
+ Bat	ch Add	IP Address			0 . 0 . 0 Status All	Device Type All	▼
\checkmark	Added	IP Address	Port	Device Type	Device Model	Serial No.	Operation
	No		80	NVR	DS-7932N-R4	DS-7932N- R41620201209CCRRF24264403WC…	+
	No		80	IPC	DS-7808NB-K2	DS-7808NB- K20820181118CCRRC70525516WC…	+
	No		80	IPC	DS-2CD2687G2T-LZS	DS-2CD2687G2T- LZS20230922AAWRAH0254423	
	No		80	IPC	DS-2CD3646FWDA2/F-IZS	DS-2CD3646FWDA2/F- IZS20210222AACHF54331092	
	No		80	IPC	DS-2DE7430IW-A	DS-2DE7430IW- A20201112AACHF06695299W	
	No		80	IPC	DS-2CD2336WD-I	DS-2CD2336WD- I20181030AACHC63245154	
	No		80	IPC	DS-2CD1763G2-LIZSU	DS-2CD1763G2- LIZSU20231016AAWRAH9120297	
	No		80	IPC	DS-2XE3147FWD	DS-2XE3147FWD20221213AACHL0…	
	No		80	NVR	NVR304-32EP-B-DT	210235C2P13181000020	
	No		80	IPC	DS-2CD2336WD-I	DS-2CD2336WD- I20181030AACHC63245156	
	No		80	NVR	NVR-B200-R8@32-B	210235C2PS3188000019	
	No		80	NVR	NVR-S200-R16@64	210235C29XJ182000063	
	No		80	IPC	HIC5681-L-U	210235C293319C000003	
	No		80	IPC	HIC6881-X22IR@A-WS-GB	210235C2813187000005	
	No		80	IPC	IPC325LR3-VSPF28-D	210235C35RF188000275	

2. Add desired resources. You can add one by one or in batches. If the access protocol, username, and password of resources are the same, you can add them in batches.

Add one by one: Click to enter the Device Info window. Input the resource information, and click OK.

Device Info				×
Protocol	ONVIF			•
Transmission Protocol	тср			•
Device Type	IPC			-
Device Name	IPC-1			
IP				
Port	80			
Username	admin			
Password	••••	••		ትኆ
		ок	Can	cel

Item	Description
Protocol	 ONVIF: Open standard protocol, an international general protocol. GB28181: National standard protocol. Before use, configure the local server on the managed device's Web interface, and GB server on the resource's Web interface. Make sure the SIP server ID and IP address of the resource are the same as those of the managed device.
Transmission Protocol	Obtain live video via the TCP or UDP protocol. Compared with UDP, TCP provides higher quality image, but has higher network requirements.
	• TCP: Transmission control protocol, provides connection-oriented and reliable communication, with low transmission efficiency.
	• UDP: User datagram protocol, provides connectionless-oriented and unreliable communication, with high transmission efficiency.
Device Type	Resource type.
Device Name	Resource name, supports custom name.
IP/Port	Resource's IP address and port.
Username/Password	Used to log in to the resource's Web interface.

Add in batches: Select the resource(s) you want to add or click I to select all resources, click Batch Add, and then the Device Info window appears. Enter the resource information, and click OK.

Device Info		×
Protocol	ONVIF	-
Transmission Protocol	ТСР	•
Username	admin	
Password	•••••	ንተና
	ОК	Cancel

Add Manually

Click **Add**, and the **Device Info** window appears. Select the access protocol and device type as needed, enter the resource information, and click **OK**.

Device Info		×
Protocol	ONVIF -	
Device Type	IPC 💌	
Transmission Protocol	тср 🔻	
Device Name		
IP		
Port		
Username		
Password	<u>^</u>	
	OK Cancel	

Protocol	Description					
ONVIF	ONVIF: Open standard protocol, an international general protocol.					
GB28181	National standard protocol. Before use, configure the local server on the managed device's Web interface, and GB server on the resource's Web interface. Make sure the SIP server ID and IP address of the resource are the same as those of the managed device.					
RTSP	Real-time stream protocol. You can add resources one by one or in batches.					
	Device Info X					
	Protocol RTSP 💌					
	Device Type IPC *					
	Custom Protocol Custom6					
	Batch Add Off					
	Start IP					
	End IP					
	Port					
	Username admin					
	Password >\cdots Select Device					
	J Selected Dev dd Selected D Number of Chan Apply to All					
	√ Device No. IP Add or Not lumber of Channel					
	OK Cancel					
	• Select the device type.					
	When adding NVR resources one by one, some custom protocols support enabling PTZ control of the NVR channel, and then the PTZ camera can be controlled (It is available					
	for the device that connects to the NVR via the RTSP protocol, and the IPCs of the NVR					
are controllable PTZ cameras).						

Protocol	Description						
	• Select the existing custom protocol or customize other protocol, and click Edit to set						
	the protocol parameters. You can click 🖤 to view the prompts.						
	Protocol Name: The custom protocol name can be edited.						
	Transmission Protocol: Obtain live video via the TCP or UDP protocol. Compared with UDP, TCP provides higher quality image, but has higher network requirements.						
	 Port: Resource's port. Live View: Live view URL address, used to obtain the main stream and sub stream live view. 						
	IVe video.						
	 Flayback Playback ORL address, used to obtain the playback video. Channel Name: Channel name key used to obtain the channel name. 						
	* Protocol Name Custom6						
	Transmission Protocol UDP						
	* Port 0						
	Live View						
	* Main Resource URL rtsp:// <ip>:rt>/ ②</ip>						
	Sub Resource URL rtsp:// <ip>:rt>/</ip>						
	Playback						
	Resource URL rtsp:// <ip>:<port>/ ⑦</port></ip>						
	Channel Name						
	Channel Name Key						
	OK Cancel						
	• Enable or disable Batch Add . Click On , and you can add resources in batches. Click Off and you need to add resources one by one. The following takes adding resources						
	in batches as an example.						
	• Enter the start IP and end IP, and then the resources in the address segment will be automatically displayed in the list.						
	• Enter the username and password of the resource.						
	 Enter the channel number of resources. 						
	Enter one by one: Click the empty area of the Number of Channels column, and then enter the number of resource channels separately.						
	Enter in batches: If the number of channels is the same for all resources in the list, enter the number of channels, and click Apply to All to automatically fill in the number for all resources.						
	 If you do want to add resource(s) in the list, you can select the resource(s) and click Not Add Selected Device, or disable the Add or Not button for the resources one by one 						
	 Click OK, and the resources are added successfully. 						

2. Manage Resource

View and manage the added resources.

Addec	Device(4) 🛛 📿 Auto Search	+ Add 🔟 Delete	e 📿 Refresh 🛛	Status 📃 🚔 Sync Ch	annel		
\checkmark	IP Address	Device Name	Device Type	Protocol	Device Model	Device Status	Operation
		IPC-1	IPC	ONVIF	HIC3531-IR@D-IR1-F20-AU-VA	Online	2 û e 🛛
		IPC-2	IPC	ONVIF	IPC334S-IR3-PF36-DT	Online	2 🗓 e 🛛
							2 ū e 🛛
		NVR-1	NVR	ONVIF	NVR501-16B-DT	Online	2 û e 🛛

ltem	Description							
	You can delete resources one by one or in batches.							
Delete/	 Delete one by one: Select the resource you want to delete, and then click . Delete in batches: Select the resources(s) you want to delete or click for select all resources, and click Delete. 							
Refresh	Refresh all resource info	ormation.						
Status	View the running status of the resources. Click to view the status of all IPCs connected to the NVR. Device Name Device Type IP Address Status IPC-1 IPC-2 IPC-3 IPC-3 NVR-11 NVR-12							
Sync Channel	Sync the latest channel	information if	it is changed.					
1.	Edit the resource informatic. If the resource is offline of information, and then the	ation, includin due to the inc e resource wil	ng resource nar orrect usernam Il be online.	ne, IP address, username, password, ne or password, enter the correct user				
е	Go to the resource's We	b interface fo	r remote contro	bl.				
	Edit the channel name. modified. After modification, the c synchronously. Channel Edit Device Name NVR-1 ChannelNum: 2	The names of	f IPC and all ch channel name 2Channel Nam	e on other interfaces will be changed				

3.2 **Resource Group**

You can import the added IPCs, NVRs, and input nodes to various groups based on the actual networking and layout for unified management.

All IPCs will be assigned to the same group named as **IPC**. Every NVR will be assigned to an individual group, and the connected IPCs will be automatically imported to the corresponding NVR group.

NOTE!

This function is available to distributed output devices only.

+ 🖉 🔟	+	- Import Camera	🖉 Edit	🛍 Delete	💿 Configura	tion		Enter Keywords
- 200 NVR-1(2/2)	\checkmark	N	ame	IP A	ddress		Status	
		NVR-1_1				Online		
		NVR-1_2				Online		

3.2.1 Add Group

You can add groups, assign resources to different groups, and manage them by groups. A same resource can be imported to various groups.

1. Choose an existing group, and then click **III**. The **Group Info** page appears.

Group Info		□ ×
Name		
	Add	Cancel

2. Enter a name for the group, click Add, and the new group will be added to the existing group.

+		Import Camera	🥟 Edit	🛍 Delete	Configurat	ion		Enter Keywords	•
4 🖧 Group 1(0/0)		Nan	ne	IP /	Address		Status		
💑 Group 1-1									
- NIVD 1/2/2)									

Click Import Camera. The Group Management window appears.
 To add groups, click Add Group and then proceed to configure. In the Group area, choose a

group/resource, and then click ar into edit the group/resource name or delete it.

Group Management			□ ×
Encoding Device		Group	+ Add Group
Enter Keywords		Enter Keywords	۲
Signal Source		📥 Signal Source(0/0)	
Input Node		🏯 Group1(0/0) 🧪 🔟	
▶ □ = IPC		> 🛃 Input Node(3/3)	
NVR-1		▶ ♣ NVR-1(2/2)	
		▶ 📥 IPC(3/3)	
	Import Selected		
	Import All		

4. Select the resource(s) in the left list, select a group in the right list, click **Import Selected**, and the selected resources are imported to the specified group. To import all resources to a specified group, click **Import All**.

+	2 🗓	i +	- Import Camera 🖉 Edit	🛍 Delete 💿 Configura	ition		Enter Keywords
 Group 1(2/2) 			Name	IP Address		Status	
🗟 Group 1-1			IPC-1_1		Online		
NVR-1(2/2)			IPC-2_1		Online		

3.2.2 Manage Group

Edit

Delete

4 🖶 Root		Lette Configuration		Einer Reywords				
4 🛱 Group 1(2/2)	√ Name	IP Address	Status					
عظر Group 1-1	IPC-1_1	Online						
	IPC-2_1	Online						
Item	Description	Description						
D.	Edit the group name. The root name cannot be edited.							
何	Delete the group(s). The root group cannot be deleted.							

View and manage the added groups and resources of the groups.

Edit the channel name.

Delete the selected resource(s) from the group.

4 Video Wall Control

Create and manage video walls based on the actual wiring of managed devices (decoders, video wall controllers, distributed output-splicing nodes) and screens, and then operate them on the video wall, for example, play live video of IPCs added on the **Resource** tab on the video wall.

4.1 Video Wall Management

Create and manage video walls on the Video Wall tab.

4.1.1 Create Video Wall

1. Click **+ weekened** to enter the **Video Wall Info** page, and set the video wall parameters. By default, the video wall size is automatically generated based on the number of output channels, and the output channels are bound to the video wall.

video wali Info								
Name Video Wall 1	Size 1 X 3 LED Wall Output	Resolution 1920*1080/60Hz(1080P) 💌	Auto-Bind Output Channel					
Output Positioning ON OF	F When enabled, you can view the output channel nar							
Output Channel Splicing Node	Output Node-1_1	Output Node-2_1	Output Node-2_2					
			OK					
Item	Description	Description						
Name	Customize the video wall na	Customize the video wall name to be displayed on the top side the Video Wall tab.						
Size	 By default, the video wall size channels. You can also secorresponding video wall will LCD screen: Set the LEE arranged horizontally and LED screen: When using differ from others, you can each row and column. Configure all: Enter the test of the second second	 / default, the video wall size is automatically generated based on the number of output nannels. You can also set the layout based on the physical video wall, and the prresponding video wall will be displayed. LCD screen: Set the LED width and LED height according to the number of screens arranged horizontally and vertically on the video wall. LED screen: When using small pixel pitch LED screens, if some of the screen sizes differ from others, you can click LED Wall, and set the LED width and LED height for each row and column. Configure all: Enter the LED width and LED height, and click Apply To All. 						
	 Configure row and col rows and columns, ar 	lumns separately: Double-cli nd edit the parameters.	ck the resolution on video wall's					

Item	Description								
	Small Pixel Pitch LED								
	* Set the LED width and height and apply it to all the screens								
	LED Width LED Height								
	Apply To All								
	* Double-click the white area to		e screen resolution	20		1920	_		
	1920			,20		1920			
	1 Row 1 Column		1 Row 2 Column		1 Row 3 Column				
	1080 RowHeight:1080 ColumnWidth:1920		RowHeight:1080 ColumnWidth:192	0	RowHeight:108 ColumnWidth:19	0 920	1080		
	1920		19	920		1920			
						ОК	Cancel		
_	Output channel resol	ution. S	Set it based o	n the resolu	tion of the s	creen and so	ender card.		
	Only certain devices support customizing the resolution, including width, height, frame								
	rate, and advanced parameters.								
	Custom 🗆 🗙								
	Width 800 Hei				600				
	Frame Rate	ome Rate 60 💌							
Output Resolution	Advanced Parameters	💽 On	Off						
	Horizontal Effective Pix	cels	800	Vertical Effe	ctive Pixels	600			
	Total Horizontal Pixels		1056	Total Vertica	l Pixels	628			
	Horizontally Sync Widt	h [128	Vertically Sy	nc Width	4			
	Horizontally Sync From	t Porch	40	Vertically Sy	nc Front Porch	1			
	Horizontally Sync Polar	ity	+ •	Vertically Sy	nc Polarity	+	▼		
					ОК	Cance	٠l		
Auto Bind Output	It is enabled by defau	ult Whe	an vou create	a video wa	ll the availa	ble output ch	pannels will		
Channel	be automatically bou	nd to th	ne video wall.	a video wa	n, the availa				
Output Positioning	When enabled, the a helps to quickly bind	actual c the out	connected po put channel t	rts will be o the video	displayed o wall.	n the video	wall, which		
Output Channel	Each video output in bound to the video w device and then disp	terface all. The layed o	e of the devic videos of IP(on the video w	e correspo C, PC, and vall screens	nds to an o other resour through the	utput channe ces are deco video outpu	el, which is oded by the it interface.		
Ö	Unbind All: Cancel al	l bindin	igs between o	output chan	nels and wi	ndows.			
0	Bind All: Bind all the	availab	le output cha	nnels to the	windows o	n the video v	vall.		

2. Bind the output channels to the video wall screens according to the actual wiring.

- Bind: Drag an output channel to a window for binding; or click to bind all the available channels to the windows on the video wall.
- > Rebind: Drag an output channel to an already bound window for rebinding.
- ➢ Unbind: Click Imes in the upper right corner of the bound window to cancel the binding; or

click to cancel all bindings.

NOTE!

- Please bind the output channels to the windows on the video wall based on the actual wiring, otherwise the videos on the video wall may be disordered.
- Each output channel can only be bound to one video wall at the same time.
- 3. Click **OK**, and then the video wall is created.

4.1.2 Video Wall Introduction

	Group Management	€ i €8	NO.1 Video Wall 1 👻 🕂 💌			
P	Enter Keywords	۰		🚰 Right-click and drag to op	pen a vindov	
R	- Group 1(2/2)					
	Group 1-1(2/2)					
	PC-1_1					
_	Input Node(3/3)					
Ċ	- Dim Input Node-1_1					
	- Input Node-2_1					
	- Input Node-3_1					
	- NVR-1 1					
	■- 🔤 🚓 IPC(3/3)					
					. 	
						÷ + -
					No. Channel Na	me Stream
				Window		
lt	tem		Description			
L			'			

Item	Description
	Video channel. Display resources in groups including video channels and input nodes added on the Resource tab.
	Drag a video channel to a window to start its live video on the physical video wall.
	Sequence resources. Add and manage sequence resources.
	Save multiple video channels in the set order and time interval as a sequence resource.
	Scenes. Add and manage scenes.
Ĩ	Save the layout and video of the video wall as a scene. You can one-click to play the scene video on the video wall when needed.
	Scene sequence. Add and manage scene sequence plans.
	Save multiple scenes in the set order and time interval as a scene sequence plan.
Group Management	Click d , and import video channels to various groups for management. See <u>Resource Group</u> for details.

Item	Description
F	Select a video channel, a video channel of sequence resource, or a sequence resource, and play it in one window/split window on the video wall.
€ 8	Play multiple video channels in multiple windows/split windows on the video wall.
NO 2 Video Wall 2 💌	Video wall list. Click to select a video wall. The highlighted list in blue is the current video wall. Click , and choose to edit or delete the video wall.
+ -	Create a video wall. See Create Video Wall for details.
Video Wall Toolbar (upper side of the bottom toolbar)	 Control and manage all windows on the video wall. Save the current layout and video as a scene. Audio management. Set the video output channel of the video wall. Splice multiple windows to display one image. Open windows. Open windows on the video wall or on the existing window. Open a window by inputting the exact coordinates and size. Close all windows. Close all windows. Close all windows. Close live videos of the video channels in all the software windows. Close live videos of the video channels in all the software windows. Close live videos of the video channels in all the software windows. Close live videos of the video channels in all the software windows. Close live videos of the video channels in all the software windows. Close live videos of the video or sequence in all windows. Clock all windows. Start decoding to start live video or sequence in all windows. Close Renumber all windows according to the sequence from left to right and from top to bottom. Restore the original size after you zoom in or out on the video wall. Coom in on the window on the software. This operation does not affect the live video playing on the video wall. Zoom out on the window on the software after zooming in (to the original ratio of the video wall.
Window Toolbar (lower side of the bottom toolbar)	 Control and manage the selected window. Set the number and layout of split windows in the selected window, and operate the split windows. Playback: Play back video in the selected window. Close Window: Close the selected window. Close Window: Close the selected window. Start decoding to start live video or sequence in the selected window. Stop decoding to stop live video or sequence in the selected window. Stop decoding to stop live video or sequence in the selected window. The window will be displayed on the top.

Item	Description					
	• 🛂: The window will be displayed on the bottom.					
	• C: Lock the selected window, and the window position and size cannot be adjusted.					
	Inlock the selected window.					
	• 🔀: Magnify a selected window/split window to full screen, and play it on the					
	physical video wall. Click 述 to restore the original size.					
	Note:					
	Right-click the desired window and choose the operation from the pop-up toolbar, such as display the window on the top/bottom, lock the window, etc.					
	Overlay the virtual LEDs on the video wall. See <u>Virtual LED</u> for details.					
Virtual LED	Note:					
	This function is available to certain devices only.					
	Set the background image for the video wall. See <u>Background Image</u> for details.					
Background Image	Note:					
	This function is available to certain devices only.					

4.2 Window Management

All video operations on the video wall are performed based on windows.

A video wall that is not bound to any output channel cannot display videos.

Videos cannot be decoded on the video wall if the video wall is not bound to any output channel. If part of the video wall is bound to output channels, then bound windows will play videos, while the unbound windows will not play videos.

4.2.1 Open Window

When opening windows on a video wall, the window serial number will be automatically generated in the upper-left corner according to the order in which the windows are opened. You can open windows one by one or in batches.

Open a Window

• Press and hold the right mouse button and drag to open a window.

If the window you want to open is too small, it will be automatically magnified to the minimum window size (generally 174*144, may vary depending on the device).



• Open window by coordinates: Click , set the window coordinates and size on the **Window**

 $\label{eq:configuration} \mbox{ configuration page, and click } \mbox{OK} \mbox{ to open the window.}$

- > X/Y coordinate: The coordinates in the upper-left corner of the window.
- > Width/Height: The width and height of the window.

Window Configuration							
X Coordinate(px)							
Y Coordinate(px)							
Width(px)							
Height(px)							
	OK Cancel						

Open Windows in Batches

• Open Windows on Video Wall: Click E , choose an existing layout or click e to customize

a layout, and click **Open Windows on Video Wall**, then the windows will be opened on the whole video wall.

If there are existing windows on the video wall, opening windows in batches will close the existing windows and open new windows based on the set layout.

Open Wir	ndow by Or	ne-Click							×
		\blacksquare							
1	3								
					25	32	36	64	
10		13	16	17	25	32	36	64	
m×n									
Custom									
0	pen Windo	ws on Vide	o Wall					Cancel	

• Open Windows on Selected Window: Choose an existing window, click . , choose an

existing layout or click end to customize a layout, and click **Open Windows on Selected Window**, then the windows will be opened on the selected window.

If the window you want to open is too small, it will be automatically magnified to the minimum window size (generally 174*144, may vary depending on the device).

Visualization Intelligent Control Platform User Manual (Simplified Mode)

Open Wir	ndow by Or	ne-Click							×
		\blacksquare							
					25	32	36	64	
		13	16	17	25	32	36	64	
m×n									
Custom									
0	pen Windo	ws on Vide	o Wall	Open W	indows on	Selected W	/indow	Cancel	

4.2.2 Split a Window

Split a window into multiple windows to play different videos.

Select a window, choose a layout from

multiple windows. Or click to choose other layout.

If video is playing in a window, splitting the window will not close the video; it will continue to play in a split window.



4.2.3 Manage Window

ltem	Description		
Adjust window position and size	 Direct adjustment: Select the window and drag it to adjust the position. Move the mouse cursor to the window border until it changes to a two-way arrow, then click and drag the arrow to adjust the window size. Precise adjustment: Click and the upper-right corner of the window, and then the Window Configuration dialog box appears. Edit the coordinates and width/height, click OK, and the window will change in the set coordinates and size. 		

ltem	Description
	2 (X1:1920/1:0),(X2:3840,Y2:1080) Window Configuration × X Coordinate(px) 0 Y Coordinate(px) 0 Width(px) 1920 Height(px) 1080 OK Cancel
Lock window position and size	 Lock all windows: Click to lock all windows on the video wall. Click to unlock all windows. Lock a window: Choose a window, click , or right-click and choose Lock, and the window will be locked. To unlock it, click , or right-click and choose Lock.
Renumber windows	The windows are automatically numbered when created. Click 1 to renumber all the windows in accordance with the window positions, from left to right, from top to bottom.
Zoom in on the video wall on the software	 Zoom in on the video wall on the software for easy operation. This operation does not affect the display effect on the physical video wall. Zoom in on the video wall: Click , or press and hold Ctrl and scroll up the mouse wheel to zoom in on the video wall. Drag the slider on the bottom and right of the video wall to adjust its position. Zoom out on the video wall: After the video wall is magnified, click , or press and hold Ctrl and scroll down the mouse wheel to zoom out on the video wall. Restore video wall size: Click to restore the original size.
Overlay Windows	Set the window arrangement position when multiple windows overlay.

Item	Description							
	Click a window, and then click \$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							
	f you enable Selected window always on top on the Client Config window, click a window, and the window will be displayed on the top.							
	 Click a window/split window and then click : or double-click a window/split window; or right-click a window/split window and then choose Full to magnify the window/split window; click to restore the original size. The magnified effect depends on the window zoom in mode set in the device's Web interface. Magnify a window: Normal mode: The window will be magnified to fill the currently occupied output channel(s). 							
	bight-dlick mid drug to open a vinder → → → → → → → → → → → → → → → → → → →							
	1							
Magnify window/split window	Full screen mode: The window will be magnified to fill all output channels on the video wall.							
	È kight-Lick und drag te open a vieder ↓ ♪ ♪ ↓ Output Noderij, Output Noderij, Output Noderij,							
	• Magnify a split window: The split window will be magnified to fill the currently occupied window.							
	Splice multiple windows to display one image. Four methods are available to select windows.							
Splice windows	 Drag to select multiple windows. Click a window, press and hold the Shift key, and then click another window to select all the windows in between. Press and hold Ctrl, and click to select multiple windows. 							
	 Press <ctri+a> to select all Windows.</ctri+a> After selecting multiple windows, the Splice Screens page appears and displays the splicing effect. Click Splice to complete the screen splicing. 							

Item	Description							
	You can also click to e based on the four methods a	You can also click to enter the Splice Screens page, select multiple windows based on the four methods above, and then click Splice .						
	Splice Screens		- ×					
	HDMI_1	HDMI_2	HDMI_3					
	HDMI_4	HDMI_5	HDMI_6					
	HDMI_7	HDMI_8	НДМІ_9					
	Note: Press Ctrl or drag your mouse to sele		Splice Unsplice					
	To cancel the splicing, select Unsplice ; or select a split wi	t a split window on the vide indow on the Splice Scree	o wall, and right-click to choose ns page, and click Unsplice .					
	Note:							
	Only certain devices that doe windows.	es not support customizing t	he window layout allow to splice					
View window/split window information	Select a window or split wind	dow, and right-click to choo	se Window Info.					
Close window	 Close a window: Choose Close Window to close 	e a window, and click 🔀 in it	the upper right corner or click					
	Close all windows: Click	to close all the windo	ws on the video wall.					

4.3 Video Wall

Operate on the video wall, such as viewing live video, playing sequence resources, etc. The **Video Wall** page shows the name of video channels, and the corresponding video will be played on the physical video wall.

4.3.1 Video Channel

The left-side list shows resources in groups, including video channels and input nodes added on the **Resource** tab. Drag a video channel to a window to start its live video on the physical video wall.



1. Video Channel Management

Item	Description
Group management	Click , and import video channels to various groups for management. See <u>Resource</u> <u>Group</u> for details.
Preview	Choose a video channel, and click like to preview the live video. Note: This function is available to certain devices only. Group 1/2(2) FIC-1_1 CHARACTERS (COMPARENT) FIC-1_1 CHARACTER
Channel Management	 Choose a video channel, and click •••• to manage it. Edit Channel Name: Edit the name of the video channel. OSD Configuration: If the video channel is a distributed input node, you can configure the OSD content and style, and then the OSD content will overlay on the live video of the corresponding video wall or KVM screen.

Item	Description						
	 Display position each area. You the OSD position Overlay OSD Display Style: 	on: Se u can ion on Conte Set th	et the displa drag the C the left wir ent: Custom he OSD fon	ay posi)SD ar ndow. ize the t size a	ition of OSD. L ea box to adju OSD content. and color.	Jp to 1 OSD is st its position, a	allowed for and preview
	Configuration						×
			No. 1 2 3 4 5 6	Position	Overla	y OSD Content	
			Display S Color Font Size	tyle			
		ahan	nalia an ing			in lumut and an	nfiau ma it an
	 Audio: If the video the Web interface configured on the 	chan e of ti softw	hei is an ing he input no are. Suppo	out noc ode, a rts inde	nd then the au ependent audic	udio input and co udio input chan and HDMI auc	ntigure it on inel can be lio.
	Independent: independent a	Uses	the audio		ed from the a	udio input inter	face of the
	 HDMI audio: L 	Jses tl	he audio co	llected	l from the HDM	p. Il input interface) .
	Configure Resolution	tion: V	Vhen the vi	deo ch	annel is a local	signal source,	you need to
	configure the inpu Self-adaptive: local signal so and 720P. If the custom. 	It reso The N urce. (he res	video chani video chani Only certair solution is a	rding to nel aut n resolu n speci	o the actual sig omatically ada utions can be se al value, pleas	nal source size pts to the resol elf-adaptive, suc e set the resolu	ution of the ch as 1080P ition type to
	 Custom: Sup parameters. 	ports	customizin	ig the	resolution, fr	ame rate, and	l advanced
	Configure Resolution					□ ×	
	Input Resolution Type	Custom		•			
	Input Resolution	1920			× 1080		
	Frame Rate	60		•			
	Advanced Parameters	On	Off				
	Horizontal Effective Pixe	ls	1920	Vertical	Effective Pixels	1080	
	Total Horizontal Pixels		2200	Total Ve	rtical Pixels	1125	
	Horizontally Sync Width		44	Vertical	ly Sync Width	5	
	Horizontally Sync Front	Porch	88	Vertical	ly Sync Front Porch	4	
					ОК	Cancel	
	 Crop signal sourc can be cropped. size to be croppe the original signal 	e: Wh Enter d, clic sourc	en the vide the video r k OK , and ce.	o chan name a then tl	nel is a local si after cropping, he cropped vid	ignal source, the set the video p leo will be displ	e video size position and ayed below

Item	Description						
	 Start coordinate Width/Height: The second seco	X/Y: The co ne width and	oordinates i I height of t	n the upper-lef he video.	t corner of	the video.	
	ChnlCropCfg				×		
	Video Name						
	StarX(px) 0		StarY(px)	0			
	Width (px) 1920		Height(px) 1080			
			ОК	Cance	ł		
	After the cropped vi needed, and click determine the suital	deo is displa Apply to vi ble size, clic	ayed on the iew the cro k OK to cor	e window, you opped effect o mplete the sett	can edit th n the win ing.	ie video siz dow. After	e as you
	Group Management	🗐 🕄 NO.:	1 Video Wall 1	• + •			
	Enter Keywords	• 1					2
	Signal Source(10/10)						
	Board1_HDMI_1						
	■"Board4_HDMI_1	Chal					
	HDMI_Crop 🤌	Chnic 🛍	CropCfg				~
	Board4_HDMI_2						
	Board4_HDMI_3	Vid	leo Name HD	MI_Crop			
	Board4_HDMI_4	Sta	arX(px) 0		StarY(px)	0	
	Board4_HDMI_5	Wi	dth (px) 192	20	Height(px)	1080	
	Board4_HDMI_0						
	HDMI Board4 HDMI 8			Apply	ОК	Cancel	

2. Play Live Video on Video Wall

Select the video channel(s) to the window(s) and play the live videos on the physical video wall. Four methods are available.

• Drag video channel(s) to window(s): Select video channel(s), and drag to play it or them on video wall window(s).

If video channels are dragged to the position where the window is not opened, windows will be automatically opened according to the size of the output channel and play the video of the video channels. If the number of selected video channels is more than the number of windows or output channels, the redundant video channels are not displayed.

🐻 Group Management 🛛 🐔	NO.1 Video Wał… 👻 🕂 👻		
Enter Keywords 📀		Right-click and drag to open a window	
🖳 🚠 Group 1(2/2)			
- 🔄 🚓 Group 1-1(2/2)			
- 🔲 👽 IPC-1_1 💿 …	+▶		
	IPC-1_1	Output Node-2_1	Output Node-2_2
Input Node(3/3)			
- Input Node-1_1			
Input Node-2_1			
Input Node-3_1			
NVR-1(2/2)			
NVR-1_1			
■ 🚠 IPC(3/3)			
🔲 🖙 IPC-1_1			
🔲 🐨 IPC-2_1			
🕞 🖙 IPC-3_1			

- Click a window/split window to play:
 - Click a window, select a video channel, click , select the stream type, and then the video will be displayed on the selected window.

The stream type includes main stream, sub stream, and third stream, and the live video effect decreases in order. If you select **AutoStream**, the system will adaptively output the main or sub stream video based on the set window stream threshold, and the number of windows and split windows of the output channels.

Group N	lanagement	*] * 8	NO.1 Vi	deo Wal··· 🦷	+	-				
- Enter	Keywords	• 1								<i>й</i>
<u>-</u>	Group 1(2/2)									
	Group 1-1(2/2)									
-	✓ ♥♥IPC-1_1 ♥♥ ···									
	PC-2_1			Select Strea	m			C	⊐ ×	
	nput Node(3/3)									
	Input Node-1_1			Strea	ım Type	AutoS	tream	-		
	Input Node-2_1									
	Input Node-3_1									
<u>।</u> स्र	IVR-1(2/2)				OF	(Cancel			
	NVR-1_1									
	NVR-1_2									-
ं • 🗖 🛣।	PC(3/3)									
- 🗖 1	PIPC-1_1									
- 🗌 १	PIPC-2_1									
· 🔲 1	PIPC-3_1									
							_			

Click a split window, select video channel(s), click , select the stream type, and then the selected video(s) will be played on the split window in order.

If the selected number of video channels is more than the number of split window, the extra video channels are not displayed.

٥	Group Management	• 31 •38	NO.1 Video Wal… 🔻	+ •		
	Enter Keywords	۲	1	a		2 A ×
⊒	🗸 🚋 Group 1(2/2)			Ψ.		L L
	🚊 - 🖌 🚠 Group 1-1(2/2)		IPC-1_1		IPC-2_1	
	🖌 🕞 IPC-1_1 💿 ····					
∎	🔄 📥 Input Node(3/3)					
	Input Node-1_1					
	🔲 🛲 Input Node-2_1					
	Input Node-3_1					
∎	NVR-1(2/2)					
	🔲 💭 NVR-1_1					
	📃 💭 NVR-1_2					
=.	EPC(3/3)					
	🔲 🔛 IPC-1_1					
	📄 🔛 IPC-2_1					

Play on the whole video wall: Click a window/split window, select multiple video channels, click
 select the stream type, and then the selected videos will be played on the selected window/split window in order.

If the selected number of video channels is more than the number of window/split windows, the extra video channels are not displayed.

Group Management 🗧 🔠	NO.1 Video Wal···· 🔻 🕂 💌		
Enter Keywords		2	Q
• Group 1(2/2)	Ť	IPC-2 1	NVR-1 1
•. 🖌 🖾 Group 1-1(2/2)			
🗹 🐨 IPC-1_1 💿 •••			
🔽 🐨 IPC-2_1	IPC-1_1	Q	
■ 🚠 Input Node(3/3)			
🔲 🔜 Input Node-1_1		NVR-1_2	
Input Node-2_1			
Input Node-3_1			
■- 🔽 💑 NVR-1(2/2)			
🗹 🥮 NVR-1_1			
🗸 🂭 NVR-1_2			
■ 🚠 IPC(3/3)			
🔲 🐨 IPC-1_1			
💽 🔛 IPC-2_1			
🕞 IPC-3_1			

• Pre-operate: Click I to enter the **Pre-operate Mode** page. Pre-set the window layout, and click **Play on Wall** to play the video on the physical video wall.

Group Management	€i €8	NO.1 Video Wal…	+-									
Enter Keywords	۲				Pre-op	erate N	lode			Play on	Wall	Cancel
Croup 1(2/2) Group 1-1(2/2) Group 1-1(2/2) Group 1-1(2/2) Group 1-1(2/2) Group 1-1(2/2) Group Node(3/3) Group Nod						put Node-2_1				Output Node-2_2		
Minore Control Co												
		8 🚯 🎟		٢	Ø 1	₽ •		■ 1 ⊞		:	¦⊧ +	
								Channel Nar	me			
						Window						

3. Manage Videos on Video Wall

NO.1 Video Wal… 🔻 🕂					
1 NVR-1_1 Preview	<i>₽</i> ₽ X 2 (2)		3		
PTZ Control Top Bottom ✓ Lock Audio Window Info					
				;	; + −
		★ ▲	No. Channel Name 54 1 NVR-1_1	AutoStream	-
Playback Close Window					

Preview live video of video channels in windows on the video wall. • Preview video one by one: Right-click the window you want to preview. • Preview all live videos: Click • Or close all live videos, click	eview, and click

Item	Description
	1 Q 2 X X NVR-1_1 Q 2 X X X
Stream	 Click a window/split window, and change the stream type in the lower-right corner. Auto stream: Adaptively output the main or sub stream video based on the set window stream threshold, and the number of windows and split windows of the output channels. Main stream, sub stream, third stream: The live video effect decreases in order.
Audio output channel management	Click a window/split window and then click $$; or right-click to choose Audio to set the audio output channel for the video channel. You can disable the audio output, and play the audio from the external audio device, for example, speaker. Click a window, and click $$ to enable/disable audio output. The icon $$ in the top-right corner of the window shows the audio output is enabled. When the audio is outputting, hover over $$ to adjust the audio volume by dragging the slider. Note: If the video channel is an input node, enable Audio Input and configure it on the Web interface of the input node, and then the audio input channel and audio output channel can be configured on the software. See <u>Video Channel Management</u> for details.
PTZ Control	If the video channel is a PTZ camera, you can control the camera to rotate, zoom, focus, turn on light, enable wiper, etc. The PTZ functions may vary with camera model. Click a window/split window, and right-click to choose PTZ Control to control the PTZ camera.

Item	Description
	• 👪: Heat mode. Heat the lens to remove fog from the lens.
	 Snow removal mode. Shake the camera to remove snow.
	If the video channel on the video wall supports playback, click a window/split window, and click Playback to view the recording on the Search Recording page.
	Search Recording X Image: Search Recording Image: Search Recording Image: Search Recording
	$\begin{bmatrix} 8 & 9 & 10 & 11 & 12 \\ 15 & 16 & 17 & 18 & 19 \\ 22 & 23 & 24 & 25 & 26 \\ 29 & 30 & 31 & 1 & 2 \\ \end{bmatrix} \xrightarrow{OK} \underbrace{Cancel} $
Playback	corresponding recording on the video wall.
	1 (g) 2 (kx 3) NR3_1 NR3_1
	■ � ⊞ ⊠ @ @ ₽ ₽ ↓ + −
	Constraint Device Device <thdevice< th=""> <thdevice< th=""> <thdevice< td=""></thdevice<></thdevice<></thdevice<>
	Click C , and Search Recording page appears. You can search the recording of other dates.
	Click Live View, then the playback will be closed, and the live video will be played.
	Note: The timeline in blue indicates the there is recording at this time, while the timeline in gray shows there is no recording at this time.
	Click a window/split window, and you can play or stop live video(s) of video channel(s) via three methods:
Stop playing on video wall	• Stop decoding: Stop decoding live video(s) of the video channel(s), and then the windows will be black or show the last frame before stopping decoding.
	Click to stop decoding. Click to resume decoding, and s is displayed in the upper-right corner of the window/split window.

Item	Description								
	 Close video: Choose a window/split window, click X in the upper right corner to close the video. Close window: Choose a window/split window, click X in the upper right corner to close the window. 								
	1 Close window Close video								
	Start/stop decoding all videos								
	Image: Start/stop-decoding a video No. Channel Na Image: Start/stop-decoding a video Image: Start/stop-decoding a video No. Image: Start/stop-decoding a video Image: Start/stop-decoding a video No. Image: Start/stop-decoding a video Image: Start/stop-decoding a video No. Image: Start/stop-decoding a video Image: Start/stop-decoding a video No. Image: Start/stop-decoding a video Image: Start/stop-decoding a video No. Image: Start/stop-decoding a video Image: Start/stop-decoding a video No. Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decoding a video Image: Start/stop-decodi								

4.3.2 Sequence Resource

Add and manage sequence resources. You can save multiple video channels in the set order and time interval as a sequence resource, and play the sequence resource on a window or multiple windows.



- 1. Add Sequence Resource
- 1. Click 🖶 , and the Sequence Resource Info page appears.

Sequence	Resource Info							□ >	×
Name		Interval(s)	20						
			🛍 Delete		Тор	Up	Down	Bottom	
— E	inter Keywords		√ No.	Channel Name		Stream			
	Group 1(2/2) & Group 1-1(2/2) & Input Node(3/3) \log Minput Node-1_1								
	Input Node-2_1								
	Imput Node-3_1 NVR-1(2/2) NVR-12 IPC(3/3) IPC IPC-1_1 IPC IPC-3_1								
Remarks									
- Henrich Ka									
							OK	Cancel	
							UK	Cancer	J

2. Enter a sequence resource name, set the play interval of video channels, select video channels, and click to add them to the sequence resource.

Sequen	ce Resource Info										×
Name		Interval(s)	20								
											_
			Ē	elete			Тор	Up	Down	Bottom	
	Enter Keywords			No.	Channel Name			Stream			
.	🚓 Group 1(2/2)				IPC-1_1	AutoStream					•
					IPC-2_1	AutoStream					•
•	Linput Node(3/3)										
	- Input Node-1_1										
	Input Node-2_1										
	NVR-1(2/2)										
	- NVR-1_1										
	NVR-1_2										
• ••	品 IPC(3/3)										
	- 🔽 💬 IPC-1_1										
	- V • IPC-2_1										
	V= IPC-3_1										
Remark	IS										
									ОК	Cancel	

- 3. Adjust the sequence resource.
 - Adjust play order: Choose a video channel, and click Top/Up/Down/Bottom to adjust the play order.
 - > Change stream type: Click I from the **Stream**, and change the stream type as needed.
 - Delete video channel: Select the channel(s) or check I to select all channels, and click Delete.
- 4. Click OK. The added sequence resource will be displayed in the left list.

2. Play Sequence Resource on Video Wall

Start multiple videos of a sequence resource in window(s) on the video wall in the set order at the set interval.

Supports playing videos in one window or multiple windows.



Sequence in One Window

Drag a sequence resource to the window(s) on the video wall.

+ 4	Ø m ₹1	NO.1 Video Wal… 🔻	+-	
Enter Keywords		1		0° 🗅 🗙
Sequence Resource-1	-			ວ
Contraction Sequence Resource-2				
			Sequence Resource-1	

Example 1

Sequence 2 video channels (Cam 1, 2) on a window (with one split window) at an interval of 20 seconds.



1. Start sequence: play Cam 1.

- 2. Switch in 20 seconds: play Cam 2.
- 3. Complete a round after 20 seconds and start over: play Cam 1.

Example 2

Sequence 5 video channels (Cam 1, 2, 3, 4, 5) on a window (with four split windows) at an interval of 20 seconds.



- 1. Start sequence: play Cam 1, 2, 3, 4 on the four split windows.
- 2. Switch in 20 seconds: play Cam 5 on the split-window 1, and other split windows remain the same (Cam 2, 3, 4).
- 3. Complete a round after 20 seconds. Repeat the process, and play Cam 1, 2, 3, 4 on the four split windows.

Example 3

Sequence 4 video channels (Cam 1, 2, 3, 4) on a window (with four split windows) at an interval of 20 seconds.



- 1. Start sequence: play Cam 1, 2, 3, 4 on the four split windows.
- 2. Switch in 20 seconds: remain unchanged and continue to play Cam 1, 2, 3, 4 on the four split windows.

Sequence in Multiple Windows

Choose a sequence resource, click $\overline{2}$, and click a window or select **Check All** to select all windows, and click **OK**, then the videos will be played in sequence on the selected window(s).

P		h	lin
	u	v	

+ 🖉 🖬 🔁	NO.1 Video	Wal···						Check All
Enter Keywords 📀	1		2		<i>2</i>	3		
Bequence Resource-1								
Contraction Contract								
	8	⊞• 🗉 🗵	o Ø .		P.	# + -	Cancel	Ok

Example 1

Sequence 4 cameras (Cam 1, 2, 3, 4) on 2 windows at an interval of 20 seconds.



Example 2

Sequence 8 cameras (Cam 1 to 8) on two windows (window 1 with one split window, window 2 with four split windows) at an interval of 20 seconds.



3. Manage Sequence Resource

After the sequence starts, choose a window, click \mathbb{I}/\mathbb{I} to pause/resume playing, and click \mathbb{I}/\mathbb{I} to play the previous/next video channel.

+ 2 🖬 🗐	NO.1 Video Wal···· 🔻 🕂 💌		
Enter Keywords	1	3	
		@ ፼ ■ ≗ ₽ ▶ ■ ₪ ⊞	# + -
		No. Channel Name	
			AutoStream
		2 IPC-2_1	AutoStream
	Playback Close Window		



4.3.3 Scene

Add and manage scenes. Save the layout and live view of the video wall as a scene. You can oneclick to play the saved scene on the video wall when needed.

Before saving the scene, perform operations on the video wall as needed, such as opening a window, playing the live video on the video wall, etc.



1. Save Scene

You can create a new scene or replace an old scene.

Save a New Scene

Two ways are available:

• Click , and the Scene Info dialog box appears. Enter a scene name, and click **OK** to save

the scene.

• Click , and the **Save Scene** dialog box appears. Click **Save As**, enter the name for the new scene, and click **OK** to save the scene.

Save Scene				×
Save				
Save As				
Name				
	ОК	Cano	el:	

Replace an Old Scene

Two ways are available:

• Click , and the **Save Scene** dialog box appears. Click **Save As**, enter the name of the existing scene, and click **OK**. Then the new scene will overwrite the previous one.

Save Scene						×
Save						
Save As						
Name	Scen	ne-1				
		С	K	Can	cel	

• Start an existing scene, operate on the scene, and click \square to enter the **Save Scene** dialog box. Click **Save**, and click **OK**, then the new scene will overwrite the previous one.

Save Scene					×
 Save (Scene-1))				
Save As					
Name					
		ок	Ca	ncel	

2. Start Scene

Choose a scene, click \square on the right to start the scene.

The icon for the started scene is displayed as 🖳, and icons for other unstarted scenes are

displayed as 🖳

After the scene is started, the window layout and videos saved in the scene are displayed on the video wall, and overwrite the previous layout and videos.



3. Manage Scene

Choose a scene, click $\mathbb{Z}/\overline{\mathbb{I}}$ to edit the scene name or delete the scene.

	十 🖉 🖮
Enter Keywords	۲
📴 1 Scene-1	
📴 2 Scene-2	
📴 3 Scene-3	

4.3.4 Scene Sequence

Add and manage scene sequence plans. Save multiple scenes in the set order and time interval as a scene sequence plan. You can one-click to start the plan to play videos on the video wall when needed.



- 1. Add Scene Sequence Plan
- 1. Click 🖬 above the scene sequence list, and the Scene Sequence Plan page appears.

Scene Sequence Plan			×
Plan Name	Sequence By	Interval(s) 30	24H Plan
Scene	Delete	Тор Up	Down Bottom
Enter Keywords		Scene Name	
Scene-1	•	occile Hume	
Scene-2			
Scene-3			
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>			
Remarks			
			OK Cancel

- 2. Enter a plan name and sequence interval, select scenes in the left list, and click to add them to the scene sequence plan.
 - > Interval: The scenes will switch continuously at the set interval.
 - > 24H Plan: When enabled, the scenes will play at the set start time every day.

Scene Sequence Plan			×
Plan Name	Sequence By	O Interval(s) 30	24H Plan
Scene	Delete	Тор Up	Down Bottom
Enter Keywords	\checkmark	Scene Name	Start Time
Scene-1		Scene-1	08:00:00 _
Scene-2		Scene-2	20:00:00
>			
Remarks			
			OK Cancel

- 3. Adjust the scene sequence plan as needed.
 - > Adjust play order: Select a scene, and click Top/Up/Down/Bottom to adjust the play order.
 - Delete scene: Select the scene(s) you want to delete, or check I to select all scenes, and then click Delete.
- 4. Click OK. The added scene sequence plan will be displayed in the left list.

2. Play Scene Sequence Plan on Video Wall

Choose a plan, click on the right to play the scenes on the video wall in the set order and at the set interval.



The other operations of the video wall cannot be used when the scene sequence starts. Click ${\rm I\!I}$

to pause the scene sequence; click $\square \square$ to resume the scene sequence; click $\square \square$ to stop the scene sequence.

+ / 前	NO.1 Video Wal… 🔻 🛨 👻					
Enter Keywords 📀	1	Q	2		© 3	Q
📴 1 Plan-1						
🖳 2 Plan-2 👖 🗖						
2 Plan-2						
				\mathbb{D}		
		Scene Name				
		Scene-z				
	Sequence By: Interval					
	Interval: 30s					
	Current Scene: Scene-2					
	Santanto Stelle I					

3. Manage Scene Sequence Plan

Choose a plan, and click 2/10 to edit the plan name or delete the plan.

	+ 🧪 🖮
Enter Keywords	8
📴 1 Plan-1	
📴 2 Plan-2	

4.3.5 Virtual LED

Click the **Virtual LED** tab at the bottom, and set the virtual LED content (text or time) overlaid on the video wall.

NO.1 Video Wal… 🔻 🛨		
	Right-click and drag to create virtual LED	
Bourd2_HBII_1	Board2_HIMI_2	Board2_HUMI_3
	● ● ₽	# + -
Virtual LED 🕂		
	Window Virtual LED	

1. Add Virtual LED

1. Click **I** on the bottom left corner, or right-click and drag it to the desired size and then release the mouse, and then the **LED Configuration** dialog box appears.

LED Configuration × LED Type Text X Coordinate(px) Width(px) 7680 Y Coordinate(px) Height(px) 540 Content Welcomw! Font Arial • Font Size Auto Font Spacing Font Alignment Align Center Align Center Background Color Font Color Transparent • Scrolling Speed Scrolling Mode Static Cancel

Item	Description
	Text: Virtual LED text. You can set the text content, font style, and display effect.
	Time: Virtual LED time. You can set the time format, font style, and display effect.
LED Type	Note:
	The text can be displayed in line breaks.
X/Y Coordinate	The coordinates of the virtual LED in the upper left corner.
Width/Height	The width/height of the virtual LED.

2. Select the virtual LED type and set the LED type as needed, and then click **OK**.

	2024-01-23	
	Tuesday	
	PM 01:59:28	
	Welcome!	●/×
		л <u>т</u> _
		، ۲۲ (
2024-01-23 PM 01:59:28		
Welcome!		A m 🗗

2. Manage Virtual LED

Item	Description
	 Direct adjustment: Select the virtual LED and drag it to adjust the position. Move the mouse cursor to the virtual LED border until it changes to a two-way arrow, then click and drag the virtual arrow to adjust the LED size.
Adjust position and size	• Precise adjustment: Click in the upper-right corner of the virtual LED, or click in the virtual LED list, then the LED Configuration dialog box and the coordinates information of other virtual LEDs appear. Edit the coordinates and width/height of the virtual LED, click OK , and the LED will change in the set position and size.
	Note:
	The virtual LEDs cannot be overlapped.
Edit content and style	Click in the upper-right corner of the virtual LED, or click in the virtual LED list below, then the LED Configuration appears, and you can set the content and style as needed.
	 Enable/disable virtual LED one by one: To disable a virtual LED, click in the upper-right corner of the virtual LED, or click in the virtual LED list, and then the LED is gray out. To enable it, click in the virtual LED. Enable/disable all virtual LEDs: Click to disable all virtual LEDs, and the LEDs are gray out. To enable them again, click .
Enable/disable	2024-01-23 Tuesday PM 01:59:28 Welcome! Enable/Disable a LED
	VirtualLED + 2024-01-23 PM 01:5928 Wekone! P ii C Enable/Disable a LED

Item	Description
Close	Click 🔀 in the upper-right corner of the virtual LED, or click 🕅 in the virtual LED list to close it.

4.3.6 Background Image

Click the **Background Image** tab, and set the background image of the video wall, which will be displayed on the physical video wall. The background image will be obscured if you open a window on it.

NO.1 Video Wal···· 👻 🕂 👻			
NBKC_1		NOME_2	
c_200X		1070_4	
			# + -
Background Image 🕂			
	Window Virtual LED	Background Image	

1. Add Background Image

1. Click **I** in the bottom left corner, and the **Add Background Image** dialog box appears.

Add Backgro	und Image		×
Image Na	r BaseMap1		
File Path		Preview	
	OK Cancel		

2. Enter a name for the image, click **Preview** to select a JPG image from you PC, and click **OK**. Then the image will be the background image.



2. Manage Background Image

Choose a background image, and click

Background Image 🕂					
BaseMap1	0	0	ø	<u>ت</u>	
BaseMap2	0	۰	ï	碰	
BaseMap3	0	۰	õ	<u>ش</u>	

44

Connect the device to the serial port of LCD screen, or connect to the LED screen via the serial port of the power distribution box. Configure the screen control protocol (command to turn on/off the screen) on the device's Web interface, and you can remotely turn on/off screens on the software.

NO.1 Video Wal…				Parameter Config	
				Serial Port	RS232_1 *
				Protocol	Customize1 👻
					Save
				Turn On/Off Screen	
					Turn Off Screen
				Turn Off Screen Automa	tically
				Turn Off In	10 min(s)
				Т	urn on
l	Board2_HDMI_1	Board2_HDMI_2	Board2_HDMI_3	Turn On/Off Screen Auto	omatically
				Turn On At	10:00 🗘
				Turn Off At	10:00
					Save

4.4.1 Configure Screen Parameters

Choose the serial port used by the device and screen, select an existing protocol or custom protocol (consistent with that on the device's Web interface), and click **Save**.

After correct configuration, you can remotely turn on or turn off the screen via the corresponding command on the software.



4.4.2 Turn On/Off Screen Remotely

The client can remotely turn on/off the screen by manual control, delayed control, and scheduled control.

1. Manual Control

Click Turn On Screen or Turn Off Screen to turn the screen on/off.

Turn On/Off Scree	en	
Turn On Screen		Turn Off Screen

2. Delayed Control

Set a delay time for turning off the screen, click **Turn on**, and then the screen will automatically turn off at the end of the set time.

Turn Off Screen Automatically				
Turn Off In	10	min(s)		
Turn on				

3. Scheduled Control

Select **Turn On At** or **Turn Off At** to set the time for the screen to automatically turn on or off, click **Save**, and then the screen will be turn on or off at the specified time.

Turn On/Off Screen Automa	atically		
Turn On At	10:00	÷	
Turn Off At	10:00	* *	
Save			

Certain devices allow to turn on/off the screen automatically by week and holiday.

1. Select On under Turn On/Off Screen Automatically, and click Configure Time.



- 2. Choose a day, select **Turn On At** or **Turn Off At**, and set the screen on/off time. Then, you can quickly configure the screen on/off time for other days via the following methods:
 - > Copy to a specific day: Select the day(s) you want to copy the same settings to.
 - > Copy to all days: Select **All** to select all days.

Configure Time							□ ×
Mon Tu	ie W	/eb	Thu	Fri	Sat	Sun	Holiday
Screen On/Off Tim	ie						
Turn On At	0:00						
Turn Off At	0:00	÷					
Copy to							
Mon 📃 Tue	Web	Thu 📃	Fri Sat	Sun	Holiday		
Please configure ho	lidays on the o	levice's Web	interface.				
					_		
						OK	Cancel

3. Click **OK** to save the time configuration. The screen will turn on and off at the set time each week or during holidays.



NOTE!

- The holidays should be configured on the device's Web interface.
- The holiday schedule has a higher priority than the week schedule. If a day is set as both weekly plan and holiday plan, the on/off time follows the holiday configuration.

5 KVM Control

Create and manage KVMs based on the actual wiring of managed devices (distributed output-KVM nodes) and KVM screens, and then perform related operations, for example, play live video of IPCs added on the **Resource** tab on the KVM screens.

The KVM screen manager can operate the local interface on the KVM screen with the keyboard and mouse. See the *Distributed KVM Local Interface User Manual* for details.



This function is available to distributed output devices only.

5.1 KVM Management

Connect the video output interface of distributed KVM node (for example, HDMI output interface) to the KVM screen, and play the video from IPC or PC on the KVM screen.

Create and manage KVM s based on the wiring of distributed KVM nodes and KVM screens.

5.1.1 Create KVM

1. Click + M on the **KVM Control** tab, and then the **KVM Info** page appears.

KVM Info						□ >
KVM Name KVM Wall 1	Grou	lp defult group	 Output Resolution 192 	0*1080/60Hz(1080P) 🔻		
Output Channel Enter Keywords > @ Output Node-1 > @ Output Node-2	Not Bound	Not Bound	Not Bound	Not Bound	Not Bound	
	Not Bound	Not Bound	Not Bound	Not Bound	Not Bound	
	Not Bound	Not Bound	Not Bound	Not Bound	Not Bound	
	Not Bound	Not Bound	Not Bound	Not Bound	Not Bound	
	© ©					
					OK Car	ncel

Item	Description
KVM Name	Customize the KVM name to be displayed on the top side of the KVM Control page.
Group	Add KVMs to various groups. See <u>Manage Operator Group</u> for details. All KVMs will be automatically assigned to the default group.
Output Resolution	Output channel resolution. Set it based on the resolution of the physical KVM screen.
Output Channel	Each video output interface of the KVM nodes corresponds to an output channel, which is bound to the KVM. The videos of resources such as IPC and computer are decoded by the device and then displayed on the KVM screens through the video output interface. Videos cannot be decoded on the KVM if the KVM is not bound to any output channel such as IPC. PC, or other resources
	The windows are automatically opened on the KVM according to the binding relation when you create a KVM.
Q	Unbind All: Cancel all bindings between output channels and KVMs.
0	Bind All: Bind all the available output channels to the KVMs.

2. Bind the output channels to KVMs according to the actual wiring.

Binding should start from the first window in the upper-left corner of the KVM window, and two output channels must be bound adjacently without nonadjacent binding.

- Bind: Drag an output channel to a KVM window for binding; or click is to bind all the available channels to windows on the KVM.
- > Rebind: Drag an output channel to an already bound window on the KVM for rebinding.
- ➢ Unbind: Click ☐ in the KVM window's upper right corner to cancel the binding; or click

to cancel all binding.

NOTE!

Each output channel can only be bound to one KVM at the same time.

First window	Adjacent window	Nonadjacent window
Adjacent window	Nonadjacent window	
Nonadjacent window		

3. Click **OK**, and the KVM is created.

5.1.2 KVM Introduction

Group Management	NO.2 KVM Wall 1 👻	+•	KVM Group			
Def A Agneed de Group (12/2) de G		Unat Node 1,1	✓ ▲Rox ■ Kow Wall			
	1	۰ ۲ + - ۵ او				
Item		Description				
۶		Video channel. Display resources in groups including video channels added on the Resource tab. Drag a video channel to a window on the KVM to start its live video KVM screen.	and input nodes			
Pre-arranged plan. Add and manage pre-arranged plans. Save the current layout and video of the KVM as a pre-arranged plan. You click to play the plan video on the KVM screen.			an. You can one-			
Group Managen	Dup Management Click , and import video channels to various groups for management Resource Group for details.					
十 🖉 🖮		Add, edit, or delete the pre-arranged plan.				
NO.2 KVM Wall 1 🔻		KVM list. Click to select a KVM. The highlighted list in blue is the current KVM. Click , and choose to edit or delete the KVM.				
+ -		Create a KVM. See Create KVM for details.				
KVM Group Click , and import KVMs to various groups for management. See <u>Mar</u> <u>Group</u> for details.		e <u>Manage KVM</u>				
KVM Toolbar		 Automatically play the live video on the KVM screens according to the of video channels and KVMs. Save the current layout and video as a pre-arranged plan. Start live videos of the video channels in all the software with the software wit	ie bound relation vindows. Windows. M. not affect the live f the KVM for the on the KVM.			

5.1.3 Manage KVM Group

You can import the added KVM to various groups based on the actual networking and layout for unified management.

1. Click to beside **KVM Group**, and the **Group Management** window appears.



2. Click **III**. A dialog box appears. Enter a name for the KVM, and click **Add**.



3. Select KVM(s) in the left list, choose a group in the right list, click **Import Selected**, and the selected KVMs are imported to the specified group. To import all KVMs to a specified group, click **Import All**.

Group Management □ × + Add Group **Encoding Device** Group Enter Keywords 0 Enter Keywords ROOT 🚔 Root 🟯 Group-1 🧪 🛍 🗸 🔣 KVM Wall 1 KVM Wall 2 🔣 KVM Wall 1 Import Selected Import All

5.2 KVM Screen

After logging in to the device on the KVM screen, you can operate the device on the software or the local interface, for example, view the live video of IPC. The video channel name is displayed on the KVM window, and the live video is played on the KVM screen synchronously. For detailed operations on the local interface, see the *Distributed KVM User Manual*.

The windows are automatically displayed on the KVM according to the binding relation when created.

5.2.1 Video Channel

The left-side list shows resources in groups, including video channels and input nodes added on the **Resource** tab. Drag a video channel to a window on the KVM to start its live video on the physical KVM screen.

Public



1. Video Channel Management

Item	Description
Group management	Click , and import video channels to various groups for management. See <u>Resource</u> <u>Group</u> for details.
Preview	Choose a video channel, and click to view the live video.
Channel Management	 Choose a video channel, and click it to manage it. Edit Channel Name: Edit the name of the video channel. OSD Configuration: When the video channel is a distributed input node, you can configure the OSD content and style, and then the OSD content will overlay on the live video of the corresponding screen or KVM screen. Display position: Set the display position of OSD. Up to 1 OSD is allowed for each area. You can drag the OSD area box to adjust its position, and preview the OSD position on the left window. Overlay OSD Content: Customize the OSD content.

Item Description Display Style: Set the font size and color of OSD. ≻ Configuration Position Display Sty Colo Font Size Medium Audio Configuration: When the video channel is an input node, enable Audio Input • and configure it on the Web interface of the input node, and then the audio input channel can be configured on the software. Supports independent audio and HDMI audio. Independent: Uses the audio collected from the audio input interface of the ≻ independent audio device, such as the sound pick-up. HDMI audio: Uses the audio collected from the HDMI input interface. \geq

2. Play Live Video on KVM Screen

Select video channel(s), drag to KVM window(s), and the live video(s) will be played on the physical KVM screen(s).

If the number of selected video channels is more than the number of windows, the redundant video channels are not displayed.

53

3. Manage KVM Window

Item	Description				
	 Play the live videos of video channels in the software windows. Preview video one by one: Right-click the window you want to preview, and click Preview. 				
	Preview all live videos: Click				
	To close all live videos, click 🖾.				
Play videos on KVM windows	1 (P 2 / / × × NVR-1_1 NVR-1_1				
	Zoom in on the software KVM for easy operations. This operation does not affect the display effect on the physical KVM screen.				
Zoom in on the KVM on the software	• Zoom in on the KVM: Click , or press and hold Ctrl and scroll up the mouse wheel to zoom in on the KVM. Drag the slider on the bottom and right of the KVM to adjust the KVM position.				
	 Zoom out on the KVM: Click , or press and hold Ctrl and scroll down the mouse wheel to zoom out on the KVM after zooming in on the KVM. 				
	Click to restore the original size				
Close the video	Choose a window, click 💹 in the upper right corner to close the video.				

5.2.2 Pre-arranged Plan

Add and manage pre-arranged plans. Save the layout and live video on a KVM as a pre-arranged plan. You can one-click to play the saved pre-arranged plan on the KVM when needed.

Before saving the plan, perform operations on the KVM as needed, for example, play the video of channel on the KVM.



1. Save Pre-arranged Plan

You can create a new pre-arranged plan or replace an old pre-arranged plan.

Save a New Pre-arranged Plan

Two ways are available:

• Click **II**, and the **Pre-arranged Planning Info** dialog box appears. Enter a name for the plan, and click **OK** to save the plan.

Pre-arranged Planning I	Pre-arranged Planning Info		
Name			
	ОК	Cancel	

• Click , and the **Save Plan** dialog box appears. Click **Save As**, enter the plan name, and click **OK** to save the plan.

Save Plan					×
Save					
Save As					
Name					
		ок	C	ancel	

Replace an Old Pre-arranged Plan

Two ways are available:

• Click , and the **Save Plan** dialog box appears. Click **Save As**, enter the existing plan name, and click **OK**. Then the new plan will overwrite the previous one.

Save Plan						×	
Save							
Save As							
Name	Pre-	Pre-arranged Planning-1					
		Oł	ζ	Cane	cel		

• Start an existing plan, operate on the plan, and click . On the **Save Plan** dialog box, click **Save**, and click **OK**, then the new plan will overwrite the previous one.

Save Plan	ave Plan Save (Pre-arranged Planning-1) Save As Name					
Save (Pre-arranged Planning-1)						
Save As						
Name						
		ОК	Cano	el		

2. Start Pre-arranged Plan

Choose a pre-arranged plan, and click **b** on the right to start the plan.

The icon for the started plan is displayed as 🖳 and icons for other unstarted plans are displayed

Public

as 📴

After the plan is started, the plan layout and images are displayed, and the previous KVM window will be overwritten.

+ 🖉 🖮	NO.2 KWM Wali 1 🔻 🛨
Enter Keywords	1
📴 1 Pre-arranged Planning-2 ▶	
2 Pre-arranged Planning-1 Start	
	inout Node-1 1

3. Manage Pre-arranged Plan

Choose a plan, and click 2/10 to edit the plan name or delete the plan.



6 User Management

Add users and assign different permissions to users. When users with different permissions log in to the software or the local interface of the distributed system, the interface and supported operations may vary with the user type.



NOTE!

This function is only available to the admin user of distributed output devices and certain video wall controllers.

6.1 Role

Add and manage roles, and configure role permissions. You can assign roles in User.

+	Add	🛍 Delete				Enter Keywords	۲
			Role		Operator		
	Admin						
	Manag	er					
	Operat	or					

The system has three default roles (Admin, Manager, Operator), which can neither be edited nor be deleted. Double-click a role to view the role information.

Role	Description
Admin (super	Has all system permissions and resource permissions. It can manage and operate all users, resources, and video walls.
administrator	Only the default user admin is the Admin role.
Manager (administrator)	Has all permissions except user management. It can manage and operate all resources and video walls.
Operator	Has all resource permissions but no system permission. It can manage and operate all resources and video walls.
Added role	Only has assigned resource permissions, but no system permission. It can only operate resources and video walls with the assigned permissions.

1. Add Role

1. Click Add, and the Role Information window appears. Enter a name for the role.

Role Information			×
RoleName			Copy Role
			clear 💄
Enter Keywords		Enter Keywords	•
	Input Node Visible Visible Visible Visible Visible Visible Visible		
			OK Cancel

2. Select device(s) from the left list (folded by default, it can be expanded as needed), and then click **Import Selected** to add them to the right list. You may also select **Copy Role** to copy the resource permissions of an existing role.

For the distributed system, If the selected devices have an input node, you need to set the role permissions from the **Input Node** drop-down list.

- > Invisible: The input node will not be displayed and is uncontrollable.
- > Visible: The input node will be displayed but is uncontrollable.
- > Controllable/Fully Controllable: The input node will be displayed and is controllable.

Role Information			×
Role Information RoleName Role-1 Resource Permission Enter Keywords	Input Node Visible *	Enter Keywords	Copy Role
✓ ▼ IPC-1_1 ✓ IPC-2_1 ✓ IPC-3_1 ✓ NVR-1 ✓ TV NVR-1_1 ✓ TV Wall ✓ Video Wall 1	>> Import Selected	☐ ■ Vide o Wall 1	
			OK Cancel

3. Click **OK** to add the new role.

+ /	Add 🔟 Delet	e.		Enter Keywords
\checkmark		Role	Operator	
	Admin			
	Manager			
	Operator			
	Role-1			
	Role-2		۶ m	

2. Manage Role

Item	Description
Edit	Click 🖉 to edit the role permissions.
	You can delete roles one by one or in batches.
	 Delete one by one: Select the role you want to delete, and then click
Delete	• Delete in batches: Select the role(s) you want to delete or click v to select all roles (uncheck the default roles as they cannot be deleted), and then click Delete .
	Note:
	A role that is being used by a user cannot be deleted. To delete the role, please delete all the users of the role in <u>User</u> .

6.2 User

Add and manage users, and configure permissions for users. The default role **Admin** cannot be edited and deleted.

+4	dd 🔟 Delete			Enter Keywords	۲
\checkmark	Username	Role	Operator		
	admin	Admin			

1. Add User

1. Click **Add**, and the **User Information** window appears. Enter user information, and assign a role for the user.

The user password must be a strong one of 9 to 32 characters, including at least three types of the following elements: uppercase and lowercase letters, digits, underscores, hyphens, and @.

User Information			×
Username			
Role	Manager		-
Password			᠈᠇᠊ᡬ
Confirm Password			᠈᠇᠊ᡬ
	_		
		ОК	Cancel

2. Click **OK** to add the new user.

+,	dd 🔟 Delete			Enter Keywords
\checkmark	Username	Role	Operator	
	admin	Admin		
	user-1	Manager		

2. Manage User

Item	Description		
Edit	Click to edit the username and role.		
Reset Password	/ord Click 🛅 to reset the password.		
Delete	 You can delete users one by one or in batches. Delete one by one: Select the user you want to delete, and then click . Delete in batches: Select the user(s) you want to delete or click to select all users, and then click Delete. 		



Display the ID of resources (signal sources, video walls, and sequence resources) of devices (decoders, video wall controllers, and distributed output devices).

If the network keyboard connects to the managed device, you can use the keyboard to select and control the resources via the corresponding ID, play live view on the video wall, etc. See the *Network Keyboard User Manual* for details.



1. Assign ID

The video walls and sequence resources added on the <u>Screen Control</u> page are automatically displayed on the **Resource ID** page, and their IDs are automatically assigned. However, the video channels added on the **Resource** page should be manually added to the **Resource ID** page.

1. Click Add.

Add			□ ×
Stream Type Main Stream 🔻			
Select Channel		Selected Channel	
Enter Keywords		Enter Keywords	۲
 Signal Source Signal Node Signal NVR-1 			
	Import Selected		
	Import All		
			OK Cancel

- 2. Select the desired video channels from the left list, click **Import Selected**, and the channels will be imported to the right list. To import all channels in the left list to a specified group in the right list, click **Import All**.
- 3. Click **OK**. The video channels are added successfully and their IDs are automatically assigned in the order they were added.

Signal Source	Video Wall	Sequence Resource					
Add	Delete						Enter Keywords
		Signal So	urce	Stream Type		Operation	
		NVR-1		Main	Ĩ		
		IPC-1		Main	ï		

2. Edit ID

You can click Z to edit the assigned ID.

The ID of devices (signal sources, video walls, and sequence resources) in the same category must be unique as these devices are controlled by the network keyboard via the corresponding ID.