OPTIVIEW

MANUFACTURER & DISTRIBUTOR

HDMI-WALL QUICK START GUIDE

Table of Contents

Welcome

Thank you for purchasing our product!

This quick start guide will help you become familiar with our HDMI-WALL in a very short time. Before installation and operation please read the following safeguard and warning carefully!

Please keep it well for future reference!

Important Safeguard and Warning

1．Electrical safety

All installation and operation here should conform to your local electrical safety codes.
The product must be grounded to reduce the risk of electric shock.
We assume no liability or responsibility for all the fires or electric shock caused by improper handling or installation.
Please use three-pin power socket (with GND).
We are not liable for any problems caused by unauthorized modifications or attempted repair.

2．Installation

Do not apply power to the HDMI-WALL before completing installation.
Do not put object on the HDMI-WALL.

3．Environment

This series HDMI-WALL should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.
Please guarantee sound ventilation and keep device clean.

4. About Accessories

Be sure to use all the accessories recommended by manufacturer.
Contact your local retailer ASAP if something is damaged in the accessory package.

1 Overview

1.1 General Introduction

These high definition series product is a network audio & video decode device designed and developed for the video network monitor system. It has elegant shape and strong data process capability. It has stable and sound network function and supports all popular encode modes. This series product has sound expansibility and it is easy to maintain and connect.

This kind of design is convenient for the whole network video surveillance system to install, control and manage. At the same time, it greatly reduces the system cost.

The decoder adopts embedded OS and effectively guarantees the security, stability, reliability and high performance of the network video surveillance system.

These series products all support window split function.

Model	Decode Output Capability	Output Port	Split Mode
1-channel 4K high definition series	16-channel 1080P resolution video decode output 12-channel 300w video decode output. 7-channel 500w video decode output. 6-channel 600w video decode output. 4-channel 800w video decode output. 1-channel 1200w video decode output. 1-channel 1080P SVAC video decode output. 1-channel 1080P H.265 video decode output.	- VGA - HDMI	The TV screen supports 1/4/9/16-window display mode.
4-channel 4K high definition series	4-channel 1200W video decode output. 4-channel 800W video decode output. 16-channel 1080P video decode	- VGA - HDMI - BNC	The TV screen supports 1/4/9/16-window display mode.

Model	Decode Output Capability	Output Port	Split Mode
	output. ● 36-channel 720P video decode output. ● 64-channel 960H video decode output. ● 4-channel 1200W H.265 video decode output. ● 4-channel 800W H.265 video decode output. ● 16-channel 1080P H.265 video decode output. ● 36-channel 720P H.265 video decode output. ● 64-channel 960H H.265 video decode output.		
1-channel high definition series	● 4-channel 1080P resolution video decode output. ● 12-channel 960H resolution video decode output ● 16-channel D1 resolution video decode output	● VGA ● HDMI ● BNC	The TV screen supports 1/4/9/16-window display mode.
4-channel high definition series	● 7-channel 1080P resolution video decode output. ● 24-channel 960H resolution video decode output ● 28-channel D1 resolution video decode output	● VGA ● HDMI ● BNC	The first TV screen supports 1/4/9/16-window display mode. The rest TV screens support 1/4-window display mode.
9-channel high definition series	● 2-channel 800w resolution non-real time video decode output. ● 8-channel 500w resolution non-real time video decode output. ● 8-channel 300w resolution non-real time video decode output. ● 9-channel 1080P resolution	● VGA ● HDMI	The first TV screen supports 1/4/9/16-window display mode. The rest TV screens support 1/4-window display mode.

Model	Decode Output Capability	Output Port	Split Mode
	video decode output. • 33-channel 720P resolution video decode output. • 44-channel 960H resolution video decode output • 48-channel D1 resolution video decode output		3
16-channel high definition series	• 4-channel 800w resolution non-real time video decode output. • 16-channel 500w resolution non-real time video decode output. • 16-channel 300w resolution non-real time video decode output. • 26-channel 1080P 8 Mbps or 32-channel 1080P 6Mbps resolution video decode output. • 52-channel 720P resolution video decode output. • 64-channel 960H resolution video decode output • 64-channel D1 resolution video decode output	• VGA • HDMI	The TV screen supports 1/4-window display mode.

1.2 Specifications

1.2.1 1-channel 4K High Definition Series

System Parameter	Device Model	1-channel 4K high definition series
	Main Processor	High performance industry embedded micro processor
	OS	Embedded LINUX
	Input Device	Front panel button and keyboard
	Shortcut Menu	N/A
Hardware Port	Video Standard	SVAC/MPEG4/H.264/MJPEG/H.265
	Audio Standard	PCM/G711

Specification	Decode Display Resolution	QCIF/CIF/2CIF/HD1/D1/960H/720P/1080P/300w/500w/600w/800w/1200w
	Video Frame Rate	PAL:1～25f/s；NTSC:1～30f/s
	Bit stream Type	Composite stream/Video stream
	Video Output Channel	1 channel
	Video Output Port	VGA/HDMI
	Audio Output Channel	1 channel
	Audio Output Port	HDMI
	Communication Port	- One RJ45 10M/ 100M/1000M self-adaptive Ethernet port - One RS232 port - One RS485 ports (semi-duplex)
	Audio Talk Channel	1 channel
	Audio Talk Port	RCA(Level: 2Vrms. Output resistance : 10kΩ)
	Alarm input	4 channels
	Alarm Output	4-ch relay output (30VDC 1A.125VAC 0/5A activation output)
Working Environment and Other Physical Specification	Power	DC12V, 3.3A
	Power Consumption	≤20W
	Working Temperature	－10℃～＋55℃
	Working Humidity	10%－95%　　86kpa－106kpa
	Dimension（mm）	440×300×42.1mm
	Weight	3.00 kg—3.50 kg

1.2.2 4-channel 4K High Definition Series

System Parameter	Device Model	4-channel 4K high definition series
	Main Processor	High performance industry embedded micro processor
	OS	Embedded LINUX
	Input Device	Front panel button and keyboard
	Shortcut Menu	N/A
Hardware Port	Video Standard	MPEG4/H.264/MJPEG/H.265
	Audio Standard	PCM/G711

Specification	Decode Display Resolution	QCIF/CIF/2CIF/HD1/D1/960H/720P/1080P/300w/500w/600w/800w/1200w
	Video Frame Rate	PAL:1～25f/s；NTSC:1～30f/s
	Bit stream Type	Composite stream/Video stream
	Audio/video input Channel	1 channel
	Audio/video input Port	HDMI
	Video Output Channel	4 channels
	Video Output Port	VGA/HDMI/BNC
	Audio Output Channel	4 channels
	Audio Output Port	HDMI/BNC(Level: 0.2V～3V, Output resistance: 5kΩ)
	Communication Port	● One RJ45 10M/ 100M/1000M self-adaptive Ethernet port ● One RS232 port ● One RS485 port ● One RJ45 port for screen control
	Audio Talk Channel	1 channel
	Audio Talk Port	BNC(Level: 2Vrms. Output resistance : 10kΩ)
	Alarm input	4 channels
	Alarm Output	4-ch relay output (30VDC 1A.125VAC 0/5A activation output)
Working Environment and Other Physical Specification	Power	DC12V, 5.0A
	Power Consumption	≤40W
	Working Temperature	－10℃～＋55℃
	Working Humidity	10%－95%　　86kpa－106kpa
	Dimension （mm）	440×300×42.1mm
	Weight	3.00 kg—3.50 kg

1.2.3　1/4-channel high Definition Series

System Parameter	Device Model	1-channel high definition series	4-channel high definition series
	Main Processor	High performance industry embedded micro processor	
	OS	Embedded LINUX	

	Input Device	Front panel button and keyboard	
	Shortcut Menu	N/A	
Hardware Port Specification	Video Standard	MPEG4/H.264/ MJPEG	
	Audio Standard	PCM/G711	
	Decode Display Resolution	QCIF/CIF/2CIF/HD1/D1/960H/720P/1080P	
	Video Frame Rate	PAL:1～25f/s；NTSC:1～30f/s	
	Bit stream Type	Composite stream/Video stream	
	Video Output Channel	1 channels	4 channels
	Video Output Port	VGA/HDMI/BNC	
	Audio Output Channel	1 channel	4 channels
	Audio Output Port	HDMI/BNC（Level: 200-3000 mV. Resistance: 5Ω）	
	Communication Port	● One RJ45 10M/ 100M/1000M self-adaptive Ethernet port ● One RS232 port ● Two duplex RS485 ports	
	Audio Talk Channel	1 channel	
	Audio Talk Port	BNC(Level: 2Vrms. Output resistance : 10kΩ)	
	Alarm input	16 channels	
	Alarm Output	8-ch relay output (30VDC 1A.125VAC 0/5A activation output)	
Working Environment and Other Physical Specification	Power	DC12V, 3.3A	DC12V, 5.0A
	Power Consumption	≤10W	≤40W
	Working Temperature	－10℃～＋55℃	
	Working Humidity	10%－95%　　86kpa－106kpa	
	Dimension （mm）	440×300×42.1mm	
	Weight	3.00 kg—3.50 kg	

1.2.4 9/16-channel High Definition Series

System Parameter	Device Model	9-channel high definition series	16-channel high definition series
	Main Processor	High performance industry embedded micro processor	

	OS	Embedded LINUX	
	Input Device	Front panel button and keyboard	
	Shortcut Menu	N/A	
Hardware Port Specification	Video Standard	MPEG4/H.264/ MJPEG	
	Audio Standard	PCM/G711	
	Decode Display Resolution	QCIF/CIF/2CIF/HD1/D1/960H/720P/1080P/300w/500w/600w/800w	
	Video Frame Rate	PAL:1～25f/s；NTSC:1～30f/s	
	Bit stream Type	Composite stream/Video stream	
	Video Output Channel	9 channels	16 channels
	Video Output Port	VGA/HDMI	VGA/HDMI
	Audio Output Channel	9 channels	16 channels
	Audio Output Port	HDMI/DB15 audio BNC	HDMI/DVI-I audio BNC
	Communication Port	- One RJ45 10M/ 100M/1000M self-adaptive Ethernet port - One RS232 port - One standard RS485 port	- Two RJ45 10M/ 100M/1000M self-adaptive Ethernet ports - One RS232 port - One standard RS485 port
	Audio Talk Channel	1 channel	
	Audio Talk Port	3.5mm jack port, input port: 3.5mm port(Level 2V Line in/50mV Mic in，input resistance10kΩ); output port：3.5mm port(Level 2V, output resistance 16Ω)	
	Alarm input	4 channels	N/A
	Alarm Output	4-ch relay output (30VDC 1A.125VAC 0.5A activation output)	N/A
Working Environment and Other Physical Specification	Power	AC100-240V, 50Hz～60Hz	
	Power Consumption	≤70W	≤90W
	Working Temperature	－10℃～＋55℃	
	Working Humidity	10%－95%　　86kpa－106kpa	

	Dimension（mm）	440X408X70mm	448×440×89mm
	Weight	4.5kg～4.8kg	7kg～7.5kg

2 Front Panel/Rear Panel/Installation

Note:
- **All the installation and operations here should conform to your local electric safety rules.**
- **VGA cable quality and length can affect the video quality. It may result in distorted video, noise, black margin. The video quality may vary even if you are viewing the same video via different VGA cables.**

2.1 Check Unpacked HDMI-WALL

When you received the HDMI-WALL from the shipping agency, please check whether there is any visible damage. The protective materials used for the package of the HDMI-WALL can protect most accidental clashes during transportation. Then you can open the box to check the accessories.

Please check the items in accordance with the list.

Finally you can remove the protective film of the HDMI-WALL.

The label at the bottom of the box is very important. Usually we need you to present the serial number when we provide the service after sales.

2.2 Front panel

2.2.1 1/4-channel 4K High Definition &1/4-channel High Definition Series

The 1-channel 4K high definition and 1/4-channel high definition series front panel is shown as in Figure 2-1.

Figure 2-1

Please refer to the following sheet for detailed information.

Name	Icon	Function
Power button		Press it for three seconds to boot up or shut down the device. Press it three times within one second, it can clear device configuration.
Power indicator light		The indicator light becomes on when system boots up.
Network indicator light		The indicator light becomes on when abnormal network event occurs (offline, IP conflict and etc.)
USB port		Connect to external USB device.

Name	Icon	Function
Alarm indicator light		N/A
HDD indicator light		N/A
IR receiver		N/A
Output indicator light	1 2 3 4	It is to display output port working mode. For 1-channel 4K high definition series and 1-channel high definition series, only the first indicator light is effective. For 4-channel 4K high definition series and 4-channel high definition series, only the channel 1 to channel 4 indicator lights is effective.

2.2.2 9/16-channel High Definition Series
The 9-channel high definition series front panel is shown as in Figure 2-2.

Figure 2-2

The 16-channel high definition series front panel is shown as in Figure 2-3.

Figure 2-3

Please refer to the following sheet for detailed information.

Name	Icon	Function
Power button		Press it for three seconds to boot up or shut down the device. Press it three times within one second, it can clear device configuration.

Name	Icon	Function
Power indicator light		The indicator light becomes on when system boots up.
Network indicator light		The indicator light becomes on when abnormal network event occurs (offline, IP conflict and etc.)
USB port		Connect to external USB device.
Alarm indicator light		N/A
HDD indicator light		N/A
IR receiver		N/A
Output indicator light	1 2 3 4	It is to display output port working mode. For 9-channel high definition series, only the channel 1 to channel 9 indicator light is effective. For 16-channel high definition series, only the channel 1 to channel 16 indicator light is effective.

2.3 Rear Panel

2.3.1 1-channel 4K High Definition Series

The rear panel is shown as below. See Figure 2-4.
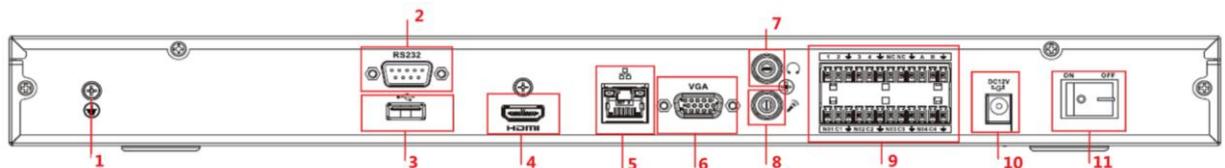
Figure 2-4

Please refer to the following sheet for detailed information.

SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	RS232 port	3	USB port
4	HDMI port	5	Network interface(10M/100M/1000M self-adaptive Ethernet port)	6	VGA port

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SN	Port Name	SN	Port Name	SN	Port Name
7	Audio talk output port RCA OUT	8	Audio talk input port RCA IN	9	4-channel alarm input, 4-channel alarm output, RS485 port.
10	Power socket	11	Power switch		

2.3.2 4-channel 4K high definition series

The rear panel is shown as below. See Figure 2-5.
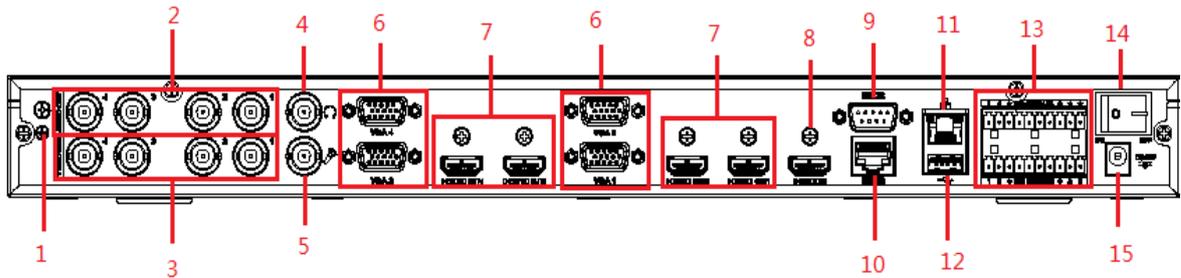
Figure 2-5

Please refer to the following sheet for detailed information.

SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	Audio output port(BNC)	3	Video output port (BNC)
4	Audio talk input port	5	Audio talk output port	6	VGA port
7	HDMI output port	8	HDMI input port	9	RS232 port
10	RS232 port to control the screen	11	Network interface(10M/100M/1000M self-adaptive Ethernet port)	12	USB port
13	Alarm input, alarm output, standard RS485 port	14	Power on-off button	15	Power socket

2.3.3 1-channel High Definition Series

The rear panel is shown as below. See Figure 2-6.
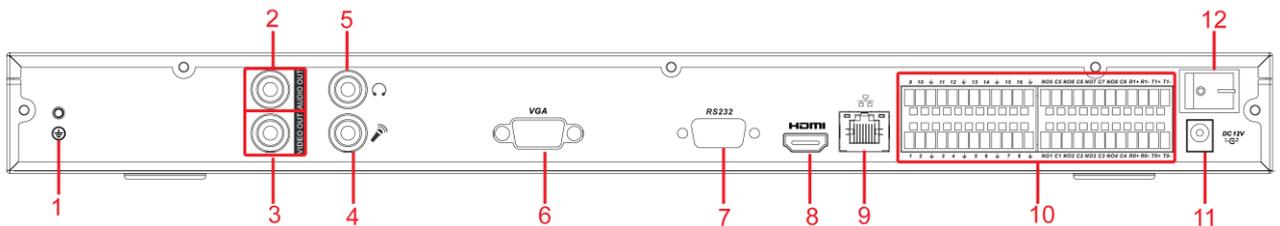
Figure 2-6

Please refer to the following sheet for detailed information.

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SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	Audio output port(BNC)	3	Video output port (BNC)
4	Audio talk input port	5	Audio talk output port	6	VGA port
7	RS232 port	8	HDMI port	9	Network interface(10M/100M/1000M self-adaptive Ethernet port)
10	Relay input, relay output, duplex RS485 port	11	Power socket	12	Power switch

2.3.4 4-channel High Definition Series

The rear panel is shown as in Figure 2-7.
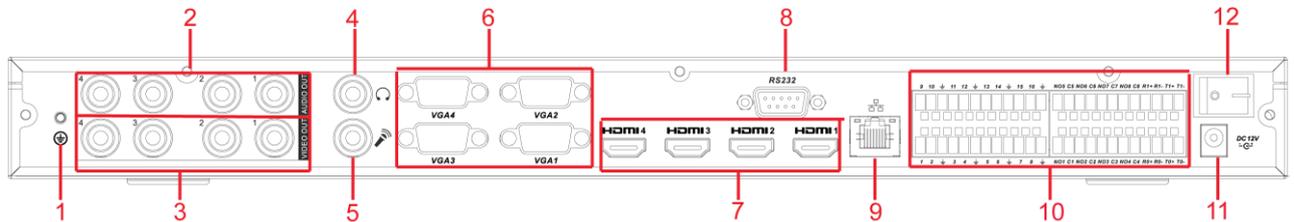
Figure 2-7

Please refer to the following sheet for detailed information.

SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	Audio output port(BNC)	3	Video output port (BNC)
4	Audio talk output port	5	Audio talk input port	6	VGA port
7	HDMI port	8	RS232 port	9	Network interface(10M/100M/1000M self-adaptive Ethernet port)
10	Relay input, relay output, duplex RS485 port	11	Power socket	12	Power switch

2.3.5 9-channel High Definition Series

The rear panel is shown as below. See Figure 2-8.

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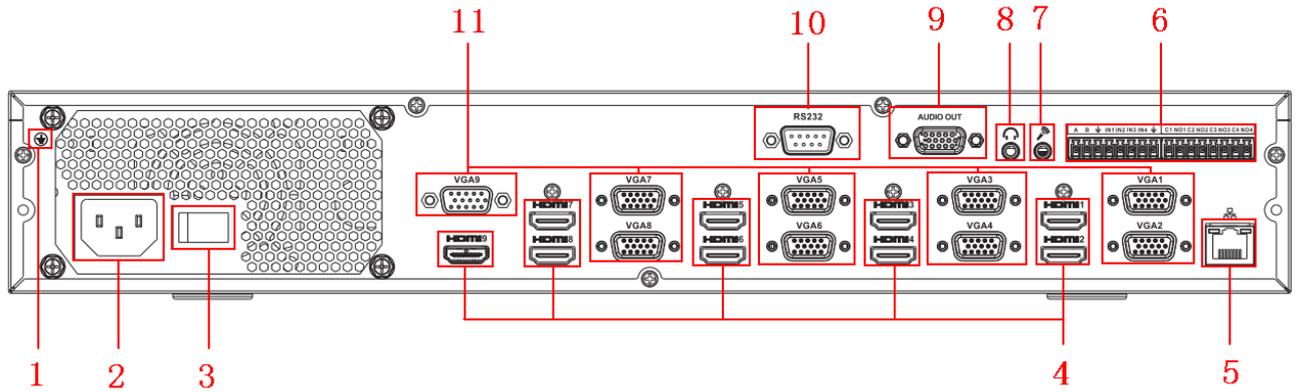
Figure 2-8

Please refer to the following sheet for detailed information.

SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	Power switch	3	Power socket
4	HDMI port	5	Network interface(10M/100M/1000M self-adaptive Ethernet port)	6	Relay input, relay output, standard RS485 port.
7	Audio talk input port	8	Audio talk output port	9	Audio output port
10	RS232 port	11	VGA port		

2.3.6 16-channel High Definition Series

The rear panel is shown as below. See Figure 2-9.
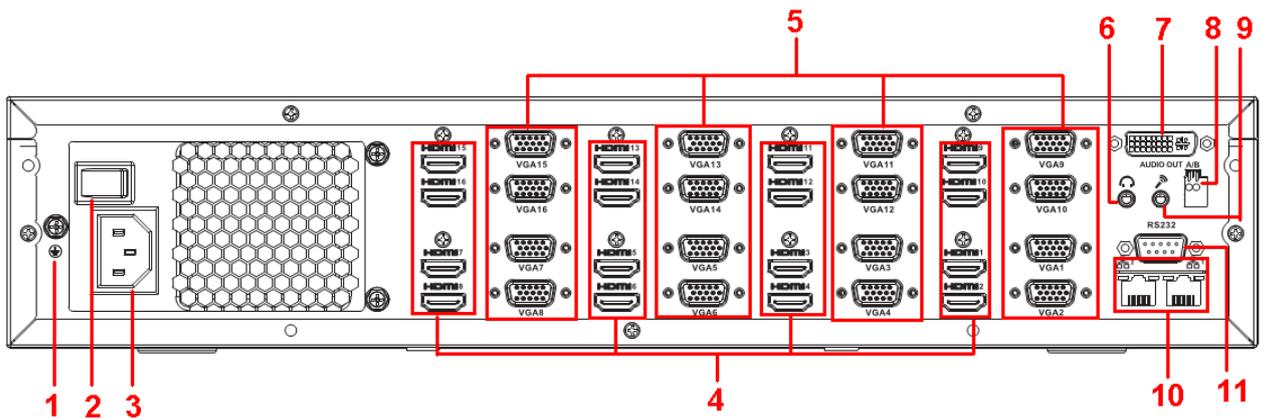
Figure 2-9

Please refer to the following sheet for detailed information.

SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	Power switch	3	Power socket
4	HDMI port (16)	5	VGA port (16)	6	Audio talk output port
7	Audio output port	8	Standard RS485 port	9	Audio talk input port
10	Network	11	RS232 port		

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	interface(10M/100M/1000M self-adaptive Ethernet port)				15

Note:

When you connect it to the PC network port, please use crossover cable.

When you connect it to the PC via router or switcher, please use straight cable.

2.4 Connection

Please refer to the follow figure for connection information. See Figure 2-10.

The following figure is based on the 4-channel high definition series product.
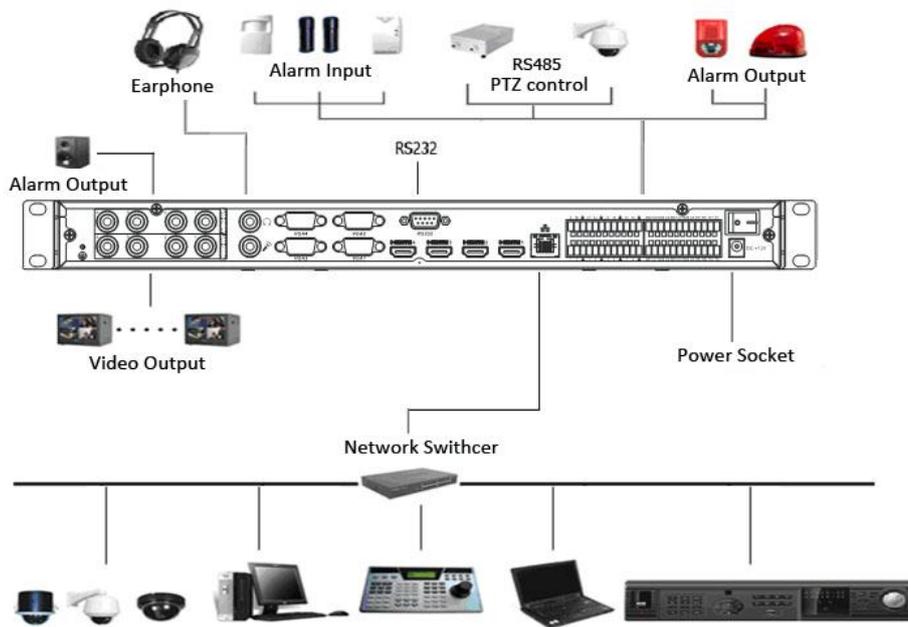
Figure 2-10

3 Operation

- **The following operations are generally based on the 9-channel high definition series product.**
- **Slight different may be found in the user interface.**

3.1 Boot Up and Shut Down

Boot up

Connect the HDMI-WALL to the power and then press the power button in the rear panel. You can see the power indicator light becomes on and HDMI-WALL boots up.

The system is in multiple-window display mode by default.

Shut down

You can press power button in the front panel for three seconds to shut down the device.

System Restore after Power Failure

When decoder is working, if the power failure occurs, the system can automatically connect to the front-end device and restore previous working status once the power connection becomes normal.

3.2 Login

3.2.1 Preparation

Before log in, please make sure:

- HDMI-WALL connection is OK.
- You have set PC IP address, HDMI-WALL IP address, subnet mask and gateway. (Please set the IP address of the same section for the PC and HDMI-WALL. Please input corresponding gateway and subnet mask if there are routers.)   When HDMI-HD booted up normally, please input account name **admin** and password **admin** via the PC COM port., then input   net –a and then input   IP, NETMASK, GATEWAY. The command mode is: net -a [IP] [NETMASDK] [GATEWAY].
  For example:

  Username: admin

  Password: admin

  DeBug>net -a 192.168.XXX.XXX 255.255.XXX.XXX 192.168.XXX.XXX

- Use order ping ***.***.***.***(HDMI-WALL IP address) to check connection is OK or not. Usually the return TTL value should be less than 255.
- Open IE and then input the address in the column.
- WEB control can be downloaded and installed automatically. System can download the latest Web control and remove the old one.
- You can run   uninstall web.bat to remove the control

● System is compatible with web control of WINVISTA. But you need to disable account control item and then reboot the PC.

3.2.2 Login

Open the IE and then input the HDMI-WALL IP address in the address column.

For example, if your HDMI-WALL IP address is 192.168.1.100, then please input http:// 192.168.1.100 in IE address column. See Figure 3-1.
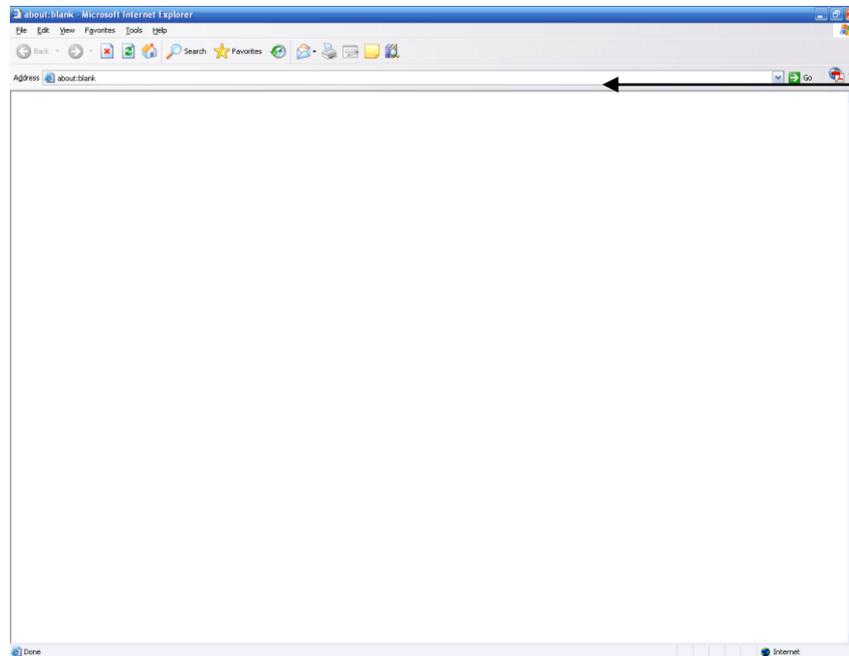
Figure 3-1

System pops up warning information to ask you whether install webrec.cab control or not. Please click yes button.

If you can't download the ActiveX file, please modify your settings as follows. See Figure 3-2.
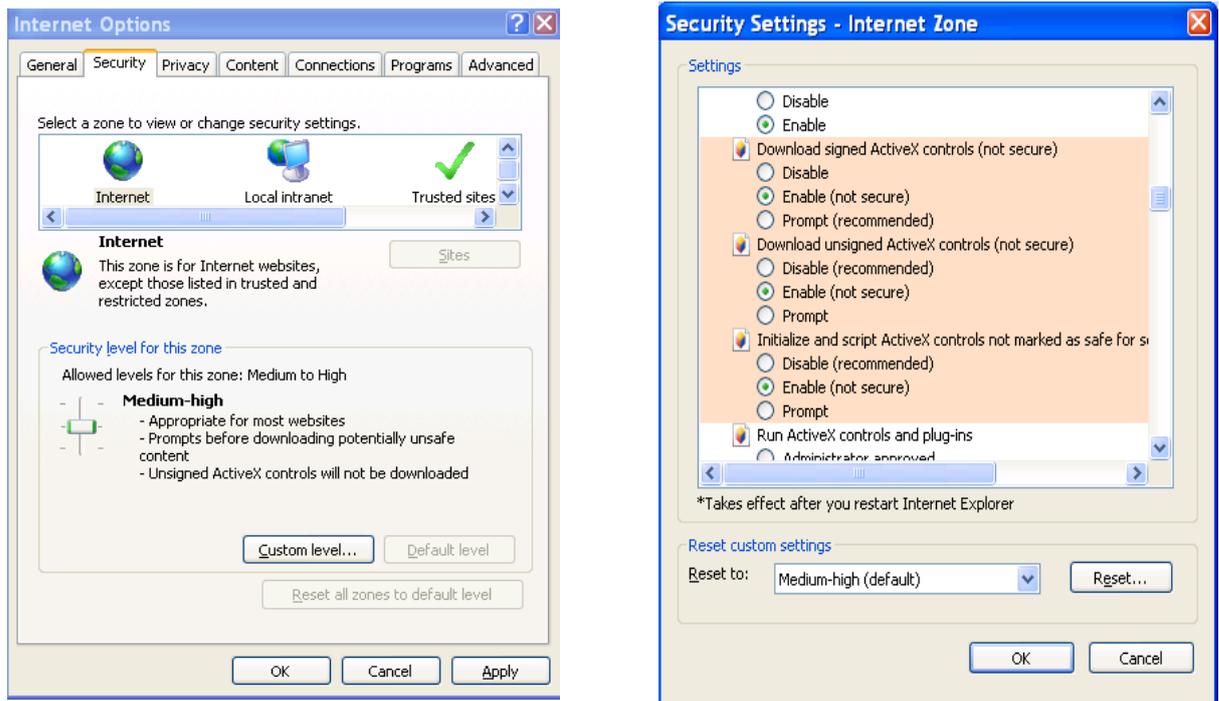
Figure 3-2

After installation, the interface is shown as below. See Figure 3-3.
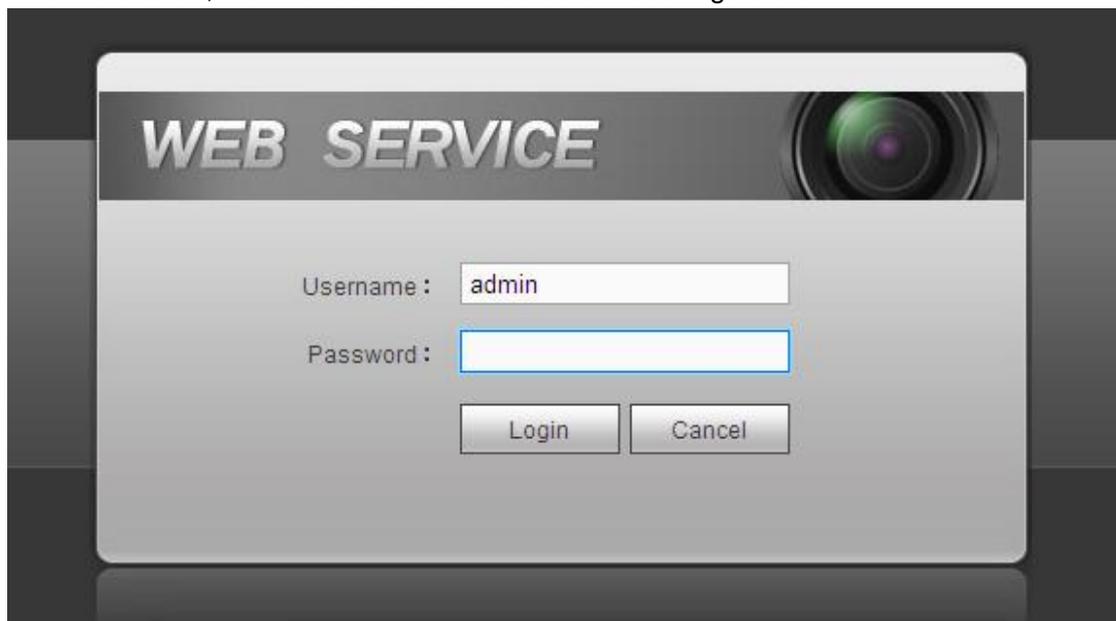
Figure 3-3

Please input your user name and password and then click Login button.
- Default factory name is **admin** and password is **admin**.
- **Note: For security reasons, please modify your password after you first login.**

Now you can see system pops up the following dialogue box to remind you to change the default password. See Figure 3-4.
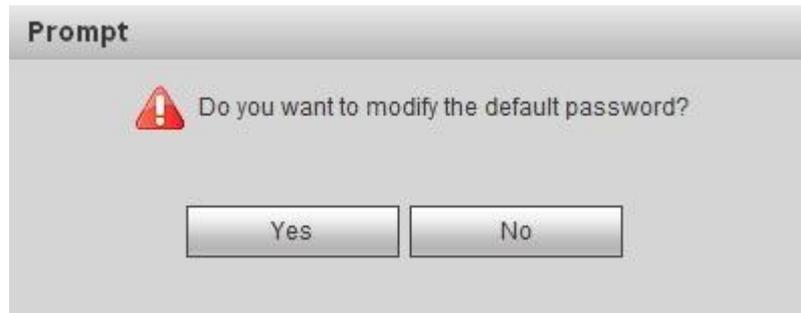
Figure 3-4

Click Yes button, you can see the Modify Password dialogue box. Please input the new password twice and then click the Yes button. See Figure 3-10.
Click No button to remain the default password.

Figure 3-5

3.3 Main Window

After login successfully, the interface will be shown as Figure 3-6.
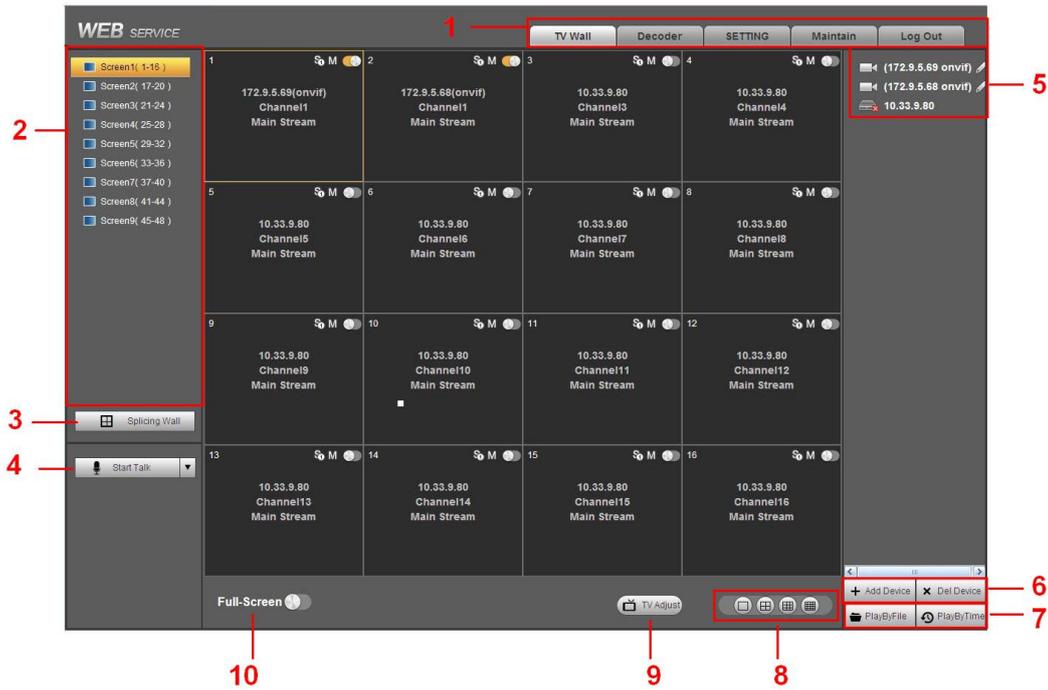
Figure 3-6

There are ten sections:

Section 1: System menu

There are system menu buttons. Please refer to the user's manual for detailed information.

Section 2: Decode channel

Model	Decoded Channel	Note
1-channel 4K high definition series	16	The Web adopts the TV screen to display. There is 1 screen corresponding to 1 group output. You can use the one icon at the top left corner to select the screen. The first screen has 16-channel.
4-channel 4K high definition series	64	The Web adopts the TV screen to display. There are 4 screens corresponding to 4 groups output. You can use four icons at the top left corner to select the screen. Each screen has 16-channel.
1-channel high definition series	16	The Web adopts the TV screen to display. There is 1 screen corresponding to 1 group output. You can use the one icon at the top left corner to select the screen. The first screen has 16-channel.
4-channel high	28	The Web adopts the TV screen to display.

definition series		There are total 4 TV screens corresponding to 4 groups output. You can use the four icons at the top left corner to select the screen. The first TV screen has 16-channel; the screen 2 to screen 4 each has 4-channel.
9-channel high definition series	48	The Web adopts the TV screen to display. There are total 9 TV screens corresponding to 9 groups output. You can use the 9 icons at the top left corner to select the screen. The first TV screen has 16-channel; the screen 2 to screen 4 each has 4-channel.
16-channel high definition series	64	The Web adopts the TV screen to display. There are 16 screens corresponding to 16 groups output. You can use the 16 icons at the top left corner to select the screen. The screen each has 4-channel.

Section 3: Splicing wall.

Click , you can set splicing wall function. Please refer to chapter 3.4 for detailed information.

Section 4: Bidirectional talk

It realizes the bidirectional talk between the WEB and the decoder. Please click

button of the StartDialog button to select corresponding bidirectional talk mode from the

dropdown list. Click StartDialog button to begin bidirectional talk between the WEB and the decoder.

Section 5:Front-end device list

It is to display added front-end device, device encode list and front-end device status.
The 4-channel 4K high definition series product supports local signal collection. There is 1 –channel local signal in the device list by default. See Figure 3-7.

Figure 3-7

Section 6: Add/delete device

Add/delete front-end of the decoder.

Section 7:Playback

You can select playback by file or by time.

Section 8: Window split

There are four display modes: 1/4/9/16 window split. Take the first TV screen for an example: there are 16 options for single-window mode: channel 1, Channel 2……channels 16. There are 4 options for four-window mode: 1-4ch, 5-8 ch, 9-12 ch, 13-16 ch. There are two options for nine-window mode: 1-9ch, 8-16ch. There is one option for 16-window mode: 1-16channel.

Single click and choose any decode channel to connect real-time decode output. Please see Figure 3-8.

1.Device Name

2. Front-end device IP address.

3. Front-end real-time monitor channel.

4. The real-monitor channel connection status between the decoder and the front-end and the stream mode such as main stream or sub stream.

5. : Enable main stream.

6. Enable sub stream.

7. It is a button to control the connection between the decoder and the front-end. Click it to close or open video.
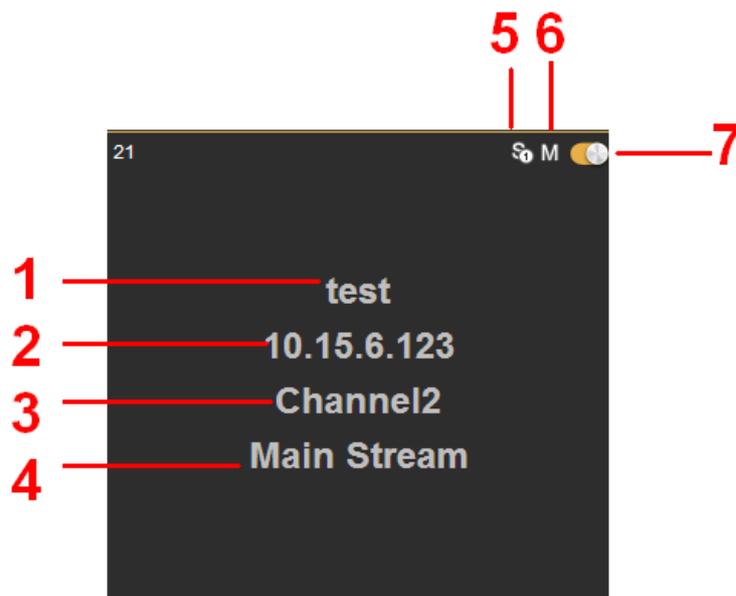
Figure 3-8

Section 9:TV adjust/Screens

● **TV Adjust**

It is not for splicing wall. It is for current screen only.

This function is for 4-channel 4K high definition and 1/4-channel high definition series only.
The 1-channel 4K high definition series product does not support this function.

It is to adjust margin. This function is valid for BNC output only. The margin value ranges from 0 to 100.
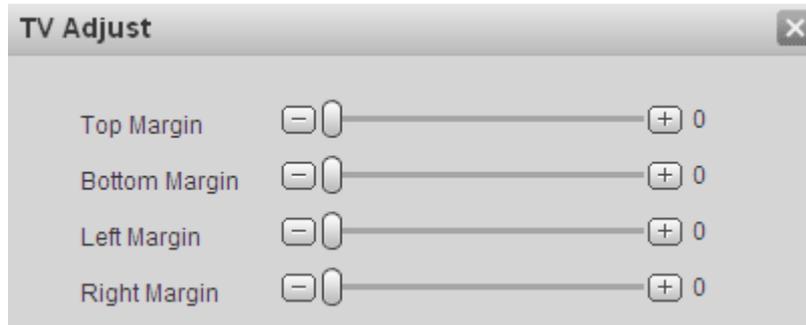
Figure 3-9

● **Screens**

This function is for 4-channel 4K high definition series product only.
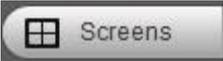
Click , system pops up screen on-off button, system BLC mode and screen adjust interface. See Figure 3-10.

✧ Screen Power

The screen on-off interface is shown as below. Select a screen, you can see its color is yellow, and then click on/off button.
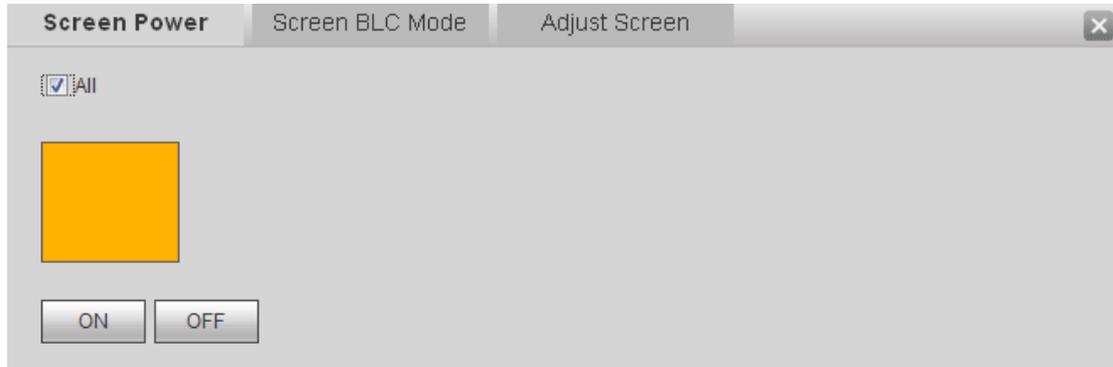
Figure 3-10

Before the screen on-off operation, please connect the RJ45 port of the 4-channel 4K high definition series product to the COM port of the monitor.

For the LCD from our company, 2 is to receive data, 3 is to send out data and 5 is GND.

RJ45 COM port of the 4-channel 4K high definition series product: 1 is to receive data, 8 is to send out data, 5 is GND.

Please connect the 1 of the device to the 3 of the LCD, 8 of the device to the 2 of the LCD, and 5 of the device to the 5 of the LCD. For the other cable, you can just cut off.

Screen BLC Mode

Note

This function is for some screens only.

Click screen BLC mode, you can go to the following interface. Select one or more screen(s) or you can check ALL to select all screens and then click Switch mode button. See Figure 3-11.
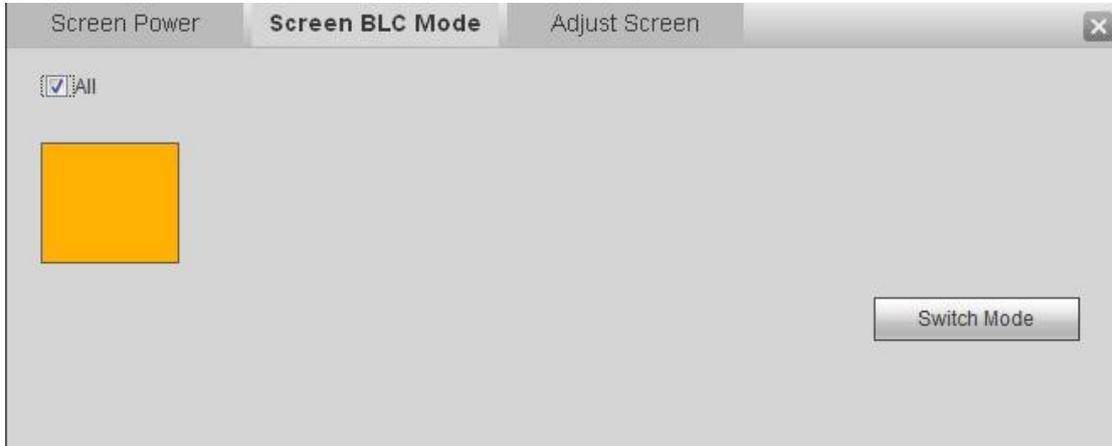
Figure 3-11

 Adjust Screen

Note

This function is for some screens only.

Click Adjust screen button, you can go to the following interface. Select a screen; you can see its color is yellow. Use "+" or "-" to adjust the parameters on the DVI,VGA,video mode. Please set according to the device hardware. See Figure 3-12.
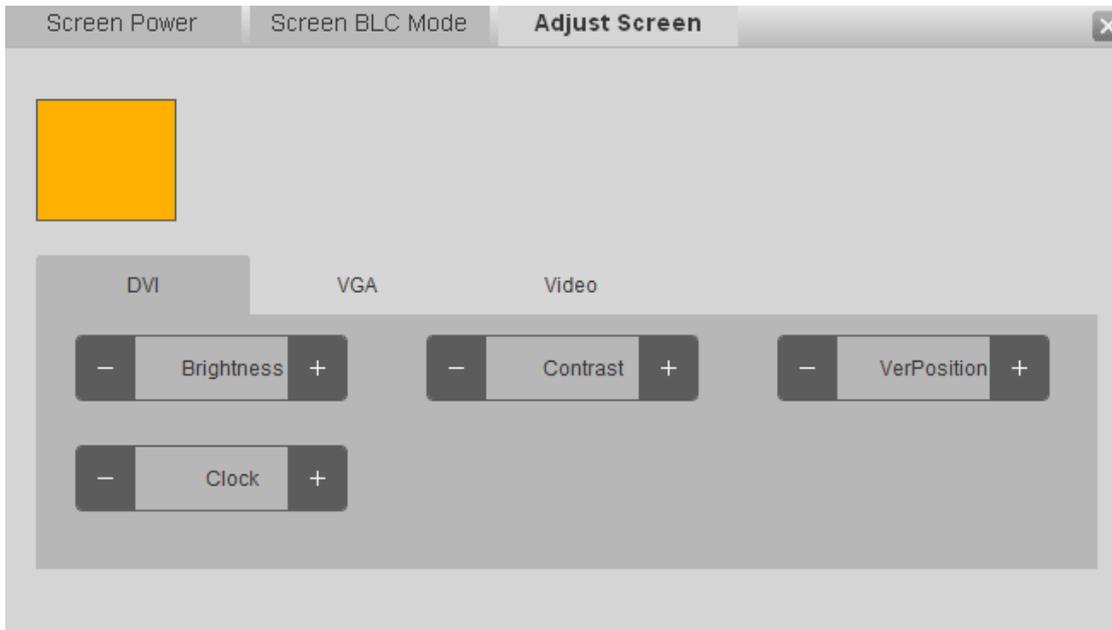
Figure 3-12

Section 10: Close full-screen monitor

It is to close all monitor channel of current TV screen.

3.4 Video Wall Splicing (Display Pane) Function

The video wall splicing function is to output several physical video walls (1-9 screens) to one screen and can be used as one screen (Such as Test1 in Figure 3-13).
The 4-channel 4K high definition series supports 1×1, 2×1, 1×2, 2×2 splicing mode.
The 4-channel high definition series supports 2×2 splicing mode.
The 9-channel high definition series supports 2×2, 2×3, 3×2, 2×4, 4×2, 3×3 modes.
The 16-channel high definition series supports 2×2, 2×3, 3×2, 2×4, 4×2, 3×3, 3×4, 4×3, 3×5, 5×3, 4×4 modes.

Important

The splicing video wall （display pane）can be used as one physical TV screen. It can share the device on the device tree and supports monitor enable/disable function. It does not support channel map and playback function.
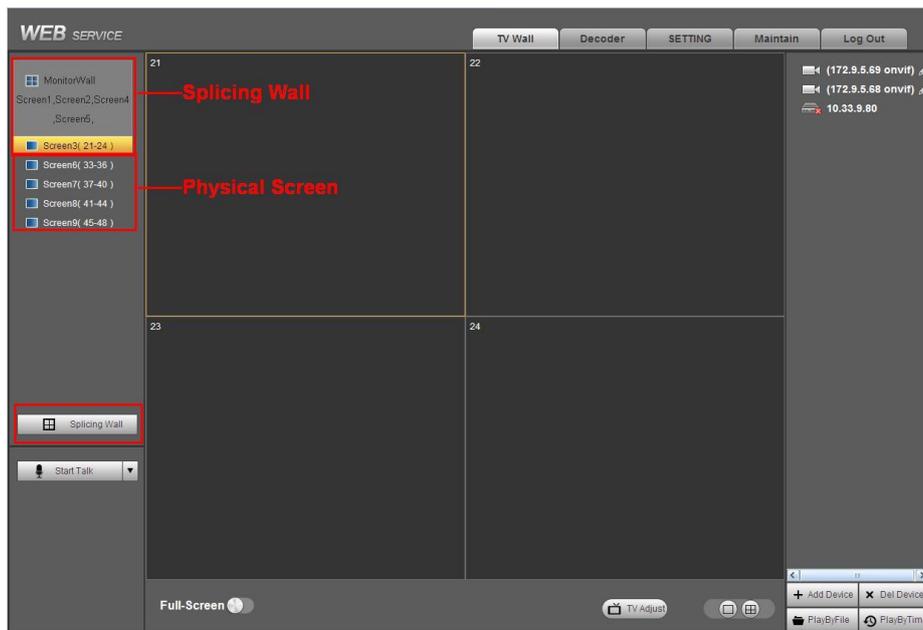
Figure 3-13

Please follow the contents below for a splicing video wall setup.
Step 1

In the main interface, click the Splice button [Splicing Wall] on the left pane; you can see system pops up the following interface. See Figure 3-14.
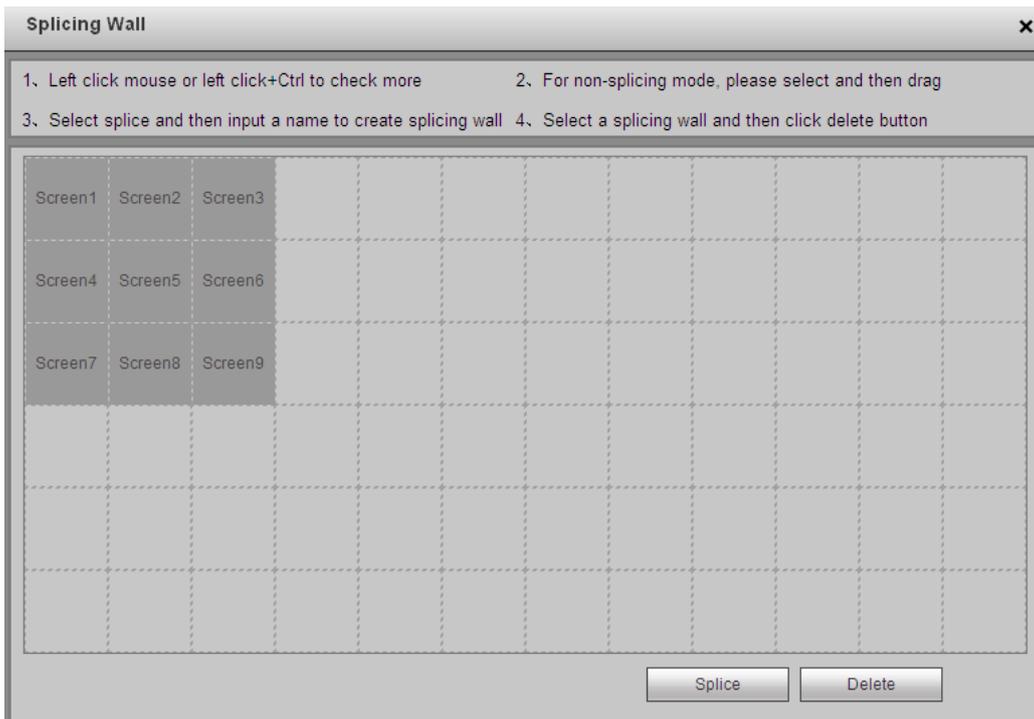
Figure 3-14

Step 2

Select screens. See Figure 3-15.

- Left click mouse to select one.
- Left click mouse +Ctrl button to select more screens.
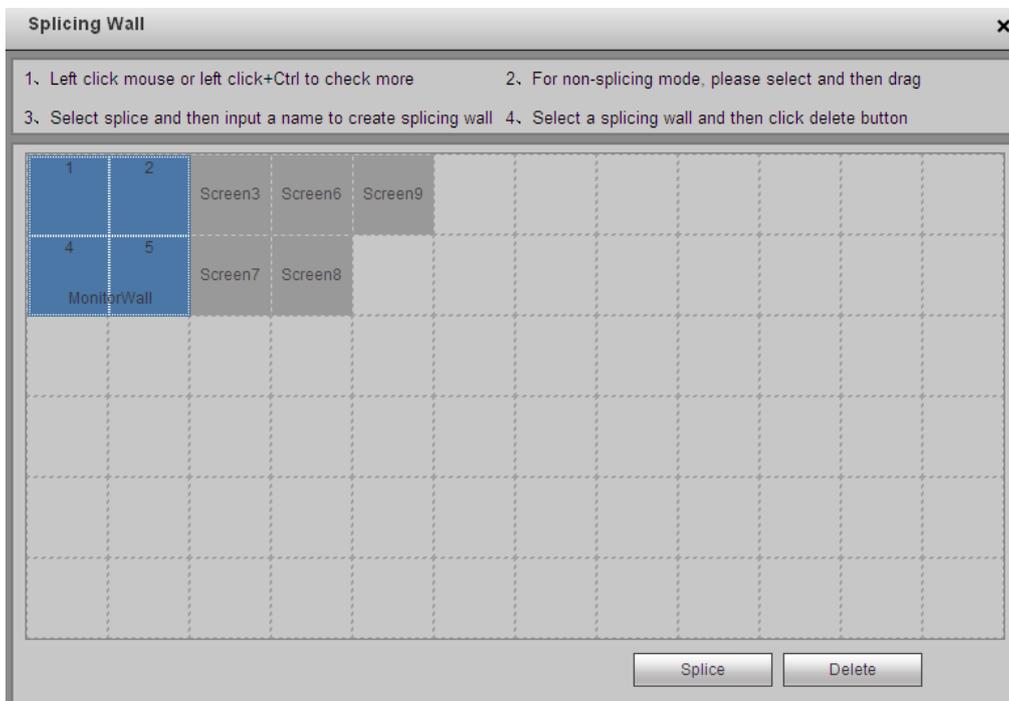
Figure 3-15

Step 3

Click [Splice] button, you can see an interface shown as in Figure 3-16.
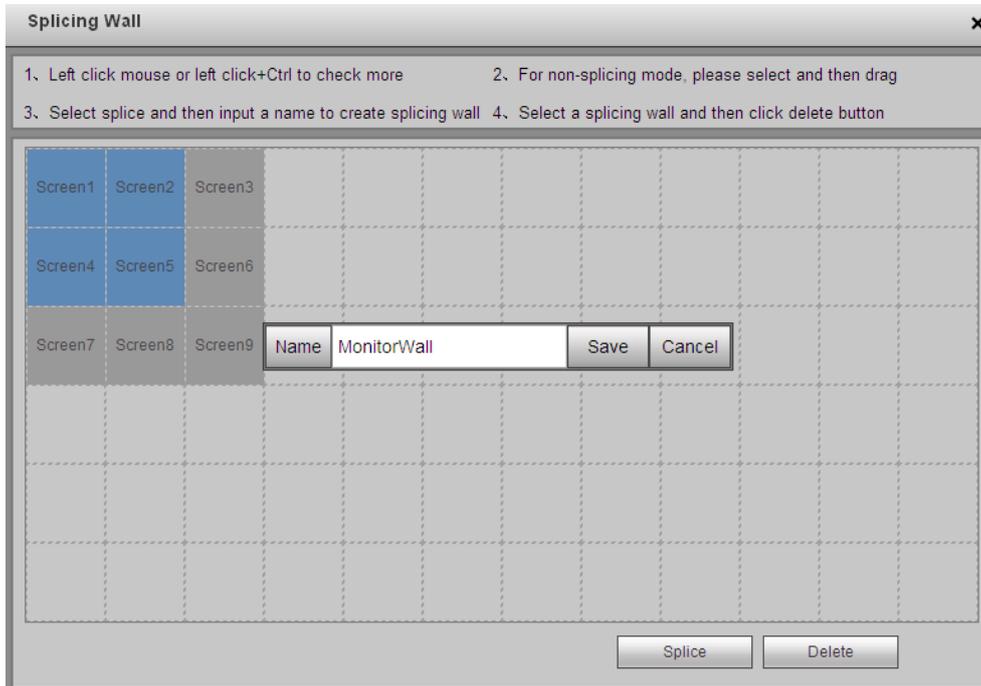
Figure 3-16

Step 4

In Figure 3-16, you can input customized splicing wall name. Click Save button to save current setup.

Step 5

Now you can close splicing wall interface and then go back to the main interface. The splicing wall can be used as a physical screen. It supports 1/4/9/16 split, add/delete device, open/close all-channel monitor.

Note

The general operation is the same as the physical screen. But for the splicing wall, there is no playback function and you can not control the corresponding physical screens of the splicing wall.

Cancel splicing wall
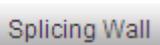
In the main interface, click the Splice button [Splicing Wall] on the left pane; you can go to Figure 3-14. Select a splicing wall first and then click [Delete] button, you can remove the selected splicing wall.
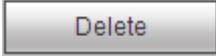
Note

The corresponding physical screens are off after you created a splicing wall. After you

delete the splicing wall, the corresponding physical screens are off too.

3.5 Add /Remove Front-end Device

3.5.1 Add device

Click [Add Device] button in the main window. System pops up the following dialogue box.

Here you need to input the front-end device information including manufacturer (Private, Onvif, and General), connection mode (TCP, UDP, AUTO) device name, device IP, port, device user name and password. See Figure 3-17.

Figure 3-17

After inputting the corresponding information, please click OK button. You can see the device begins to connect the newly added front-end device. System auto lists the channel information after successful connection. For newly added private device, device displays as online. Double click the device; you can see it becomes offline. For Onvif and General device, system displays an icon only. You can just drag the icon to the screen. See Figure 3-18.
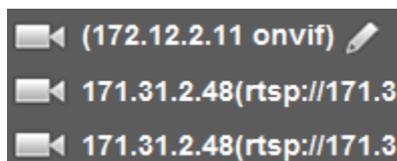
Figure 3-18

Click [pencil icon], you can modify device name.

3.5.2 Delete Device
Note
You can not delete the decoding device.

Select one front-end device and then click delete device button, system can remove it from the list.

3.6 Decode Channel Setup

Please select the output TV and position and then select the device channel in the device list. Double click channel name or drag the channel name to the destination position and

then release. See Figure 3-19.
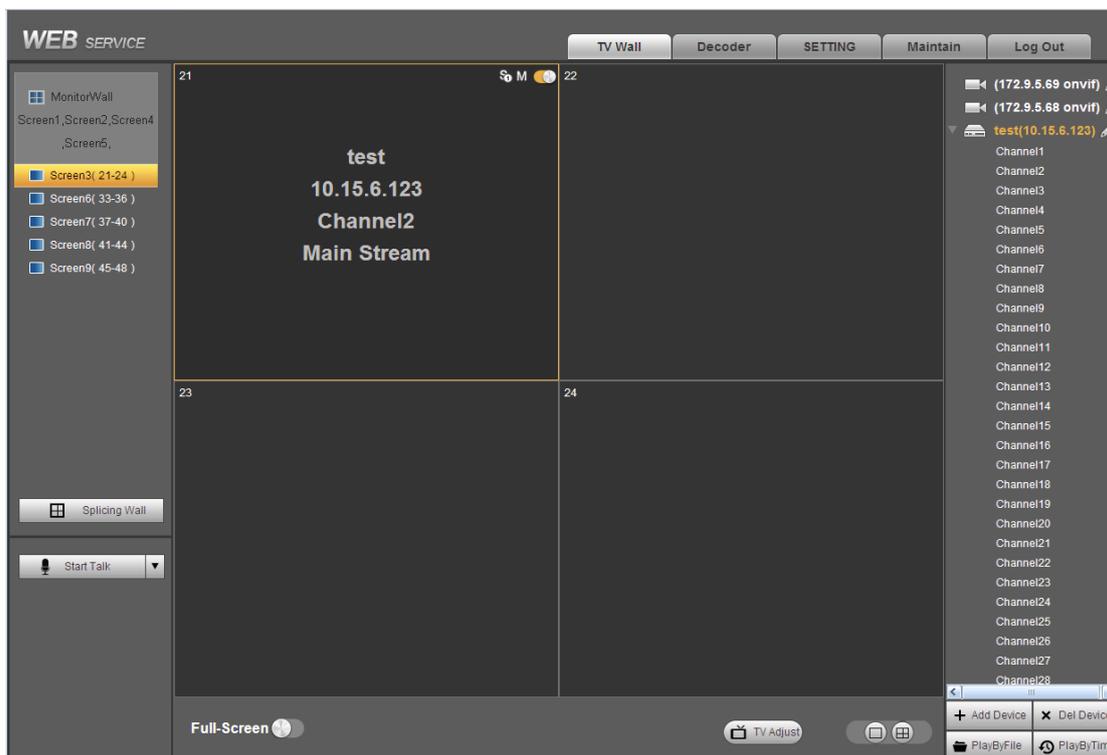
Figure 3-19

Right click channel of the front-end, you can enable main stream or sub stream. See Figure 3-20.

Figure 3-20

- : Open/close sub stream.

- : Open main stream.

- Screen on-off button. : Open. : Close.

3.7 File Playback and Time Playback

Note

Playback function is for private device only.

You can select a device you want to playback and then select the corresponding playback mode. There are two modes: file playback and time playback.

3.7.1 File Playback

Please select a online device first and then select playback by file button. You can see the following interface. See Figure 3-21.
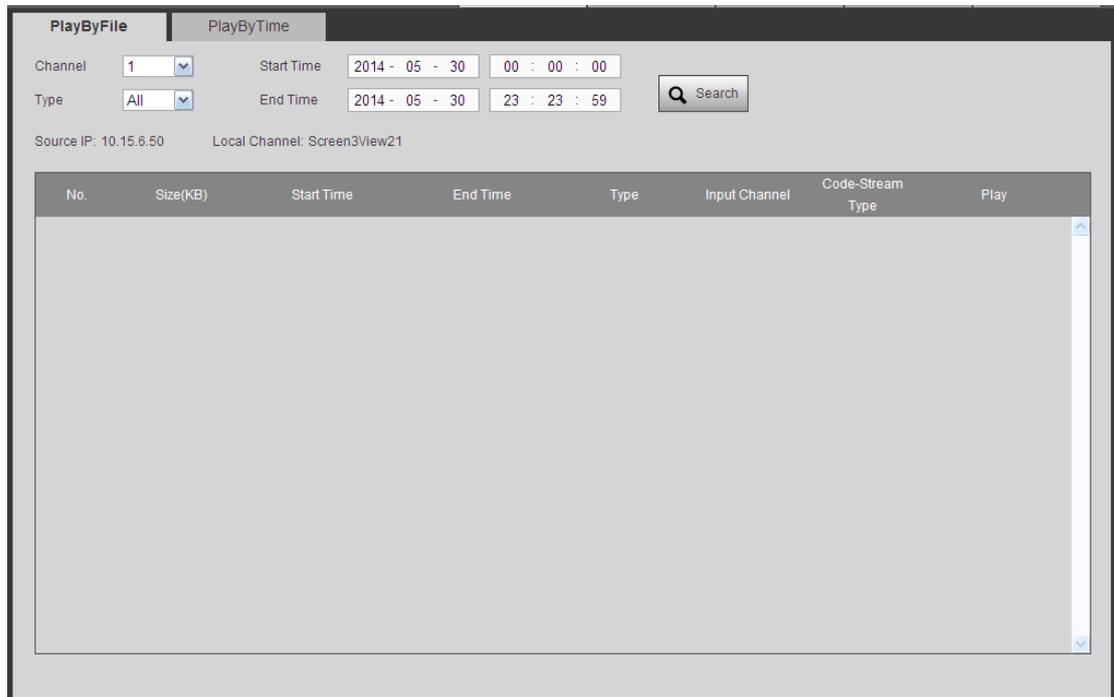
Figure 3-21

Please select the decode channel, record type and then select start time/end time, click search button, you can see an interface is shown as below. See Figure 3-22.
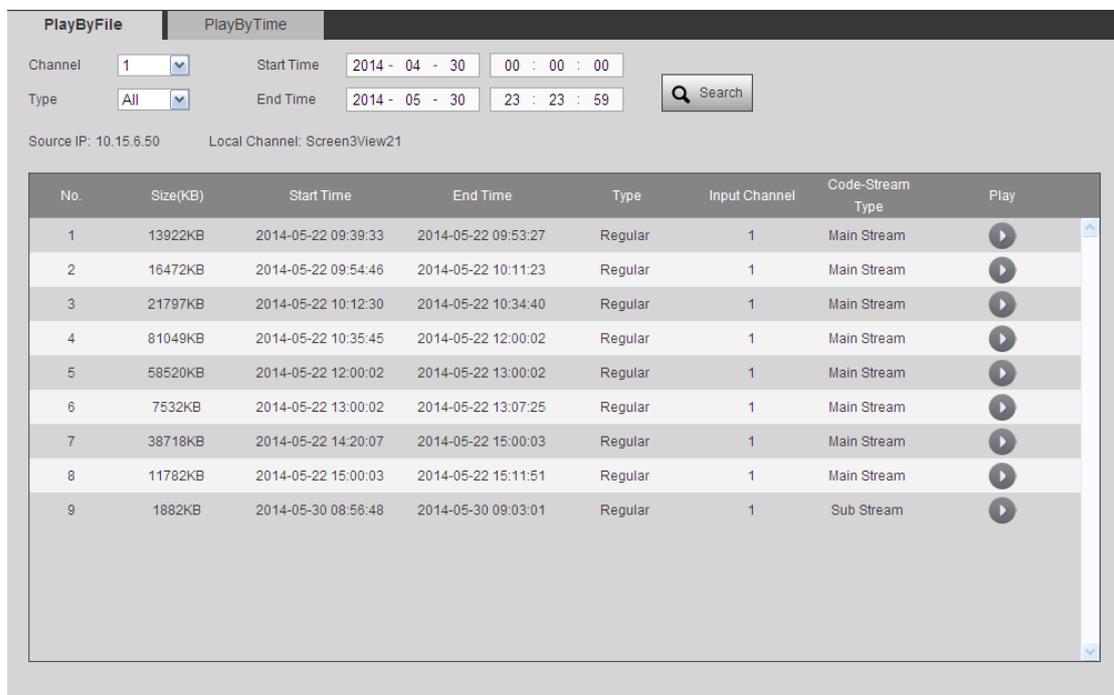
Figure 3-22

Select a record file and then click ▶, you can see the following interface. See Figure

30

3-23.
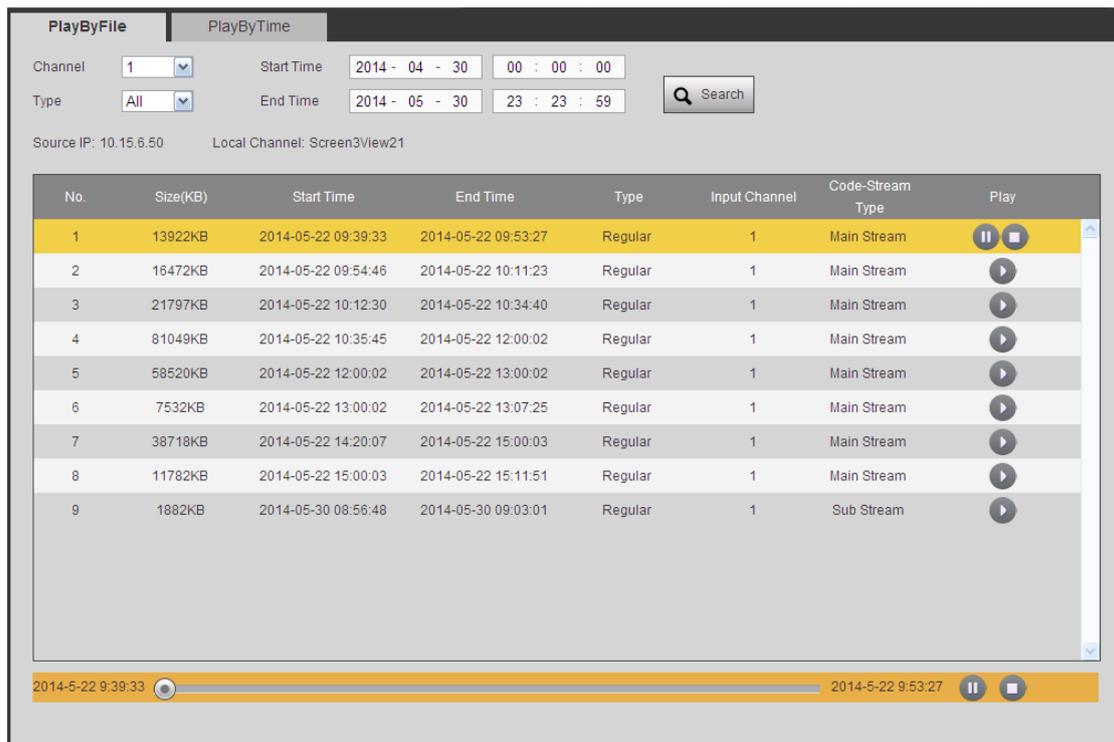
Figure 3-23

The main interface is shown as below. See Figure 3-24.Click the process bar to adjust file playback position. Or you can click button to play, pause, and stop.
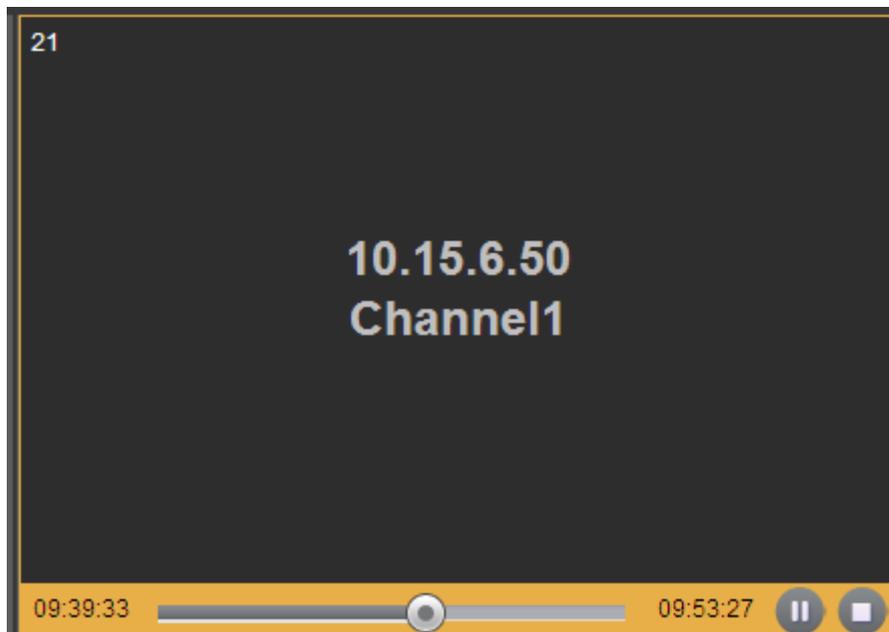
Figure 3-24

Double click decode channel, you can view in full screen.
The playback bar is shown as below. See Figure 3-25.

The three buttons ranges from left to the right are: playback, pause, and stop.

Figure 3-25

Note:
- If you searched device is offline, system prompts "Channel search failed" or "No record".
- System max supports 4-channel playback at the same time.
- System can not playback the same camera of one device at different channels.

3.7.2 Time Playback

In Figure 3-21 or the main interface, click playback by time button, you can see an interface shown as in Figure 3-26.
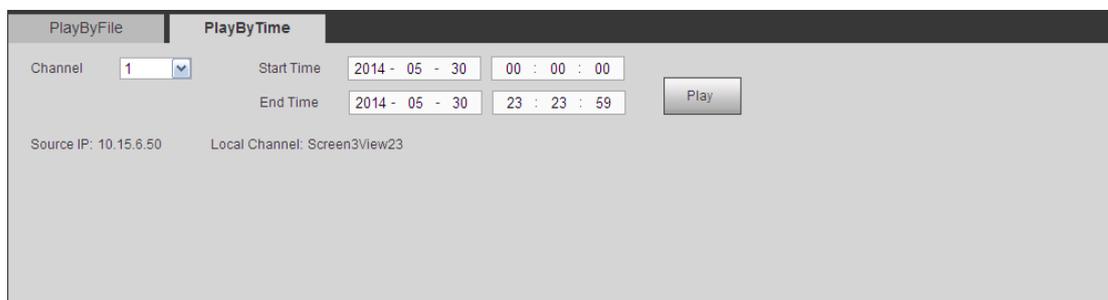
Figure 3-26

Please select corresponding time period and channel, and then click playback button, system can playback automatically.
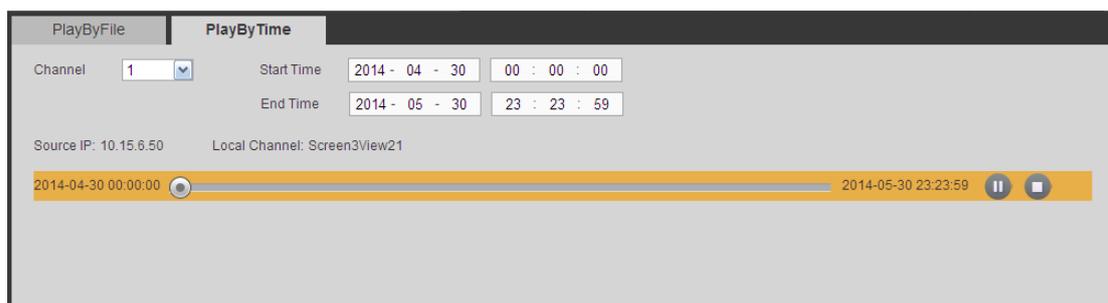
The playback bar is the same with file playback mode.
Note:
TV window is shown as black if there is no record in current specified period.

3.8 Decoder

3.8.1 Decode Tour

Here you can set decode output channel and tour channel.

Decode tour means the decode channels of the decoder can bind the 32 channels on the network. It can display the 32 channels by the specified sequence and interval.

1) On the main menu, from decoder->decode tour; you can see the following interface. See Figure 3-27.

Figure 3-27

2) Double click a channel you want to set or click ⚙, you can set chanekl tour detailed information. See Figure 3-28.
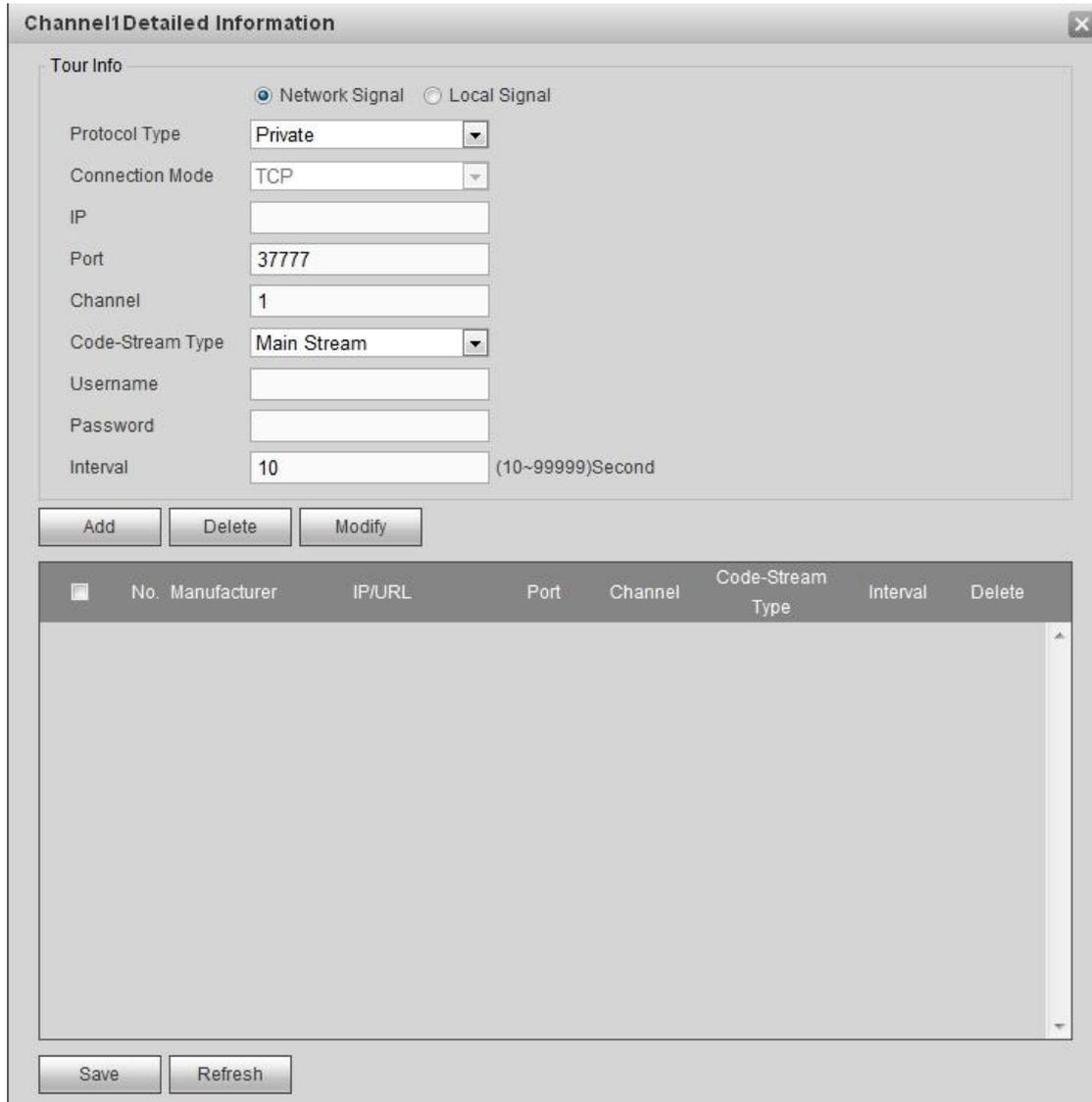
Figure 3-28

Please refer to the following sheet to set tour information.

Parameter	Note
Protocol type	It includes: private, Onvif, General.
Connection mode	For different device modes, the connection mode may vary.
IP	Front-end device IP address.
Port	Default setup is 37777.
Channel	The channel of the front-end device.
Bit stream type	The bit stream type of the tour window. It includes the main stream and the sub stream.
User name	The user name of the remote device.
Password	The password of the remote device.
Interval	The tour interval.

In Figure 3-28, click Local Signal; you can see the following interface. See Figure 3-29.

Please note this function is for 4-channel 4K high definition series.
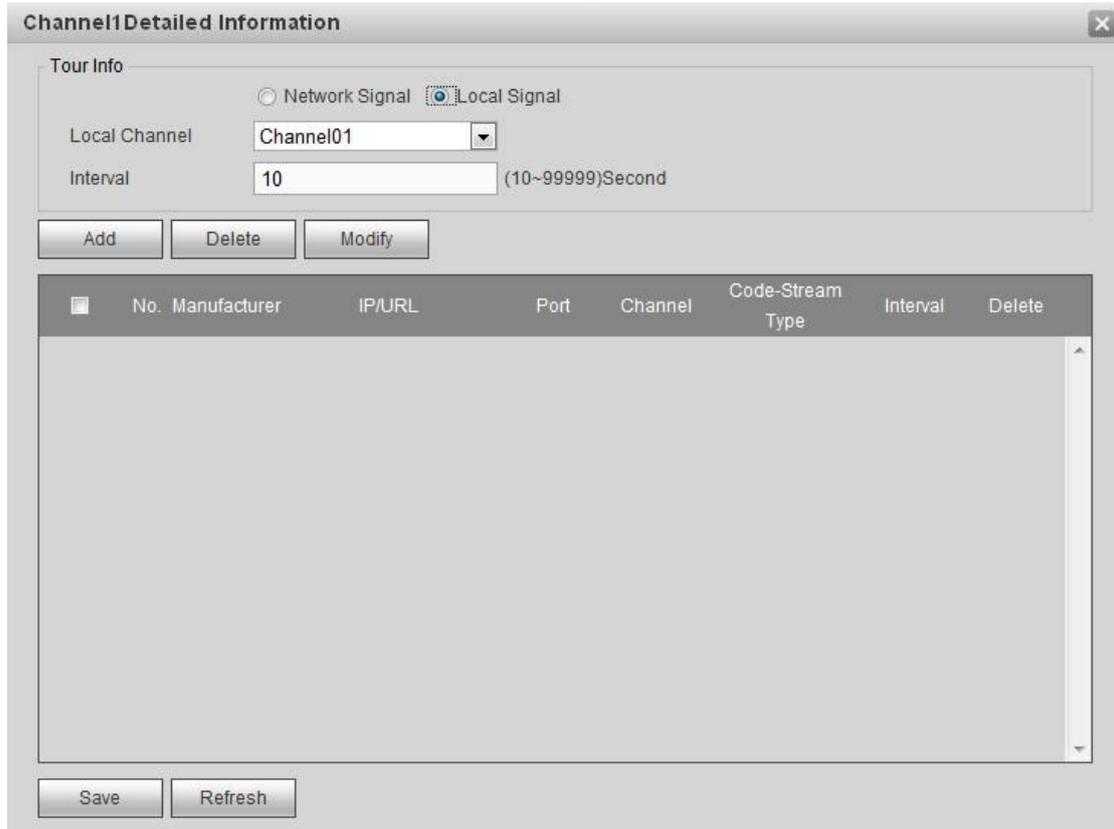
Figure 3-29

Please refer to the following sheet to set tour information.

Parameter	Note
Local Channel	Please select from the dropdown list.
Interval	It is to set tour interval.

3) Click add button to complete the add operation.

4) Click ▷ to enable tour.

- ▢: Stop tour.

- ▯▯ : Pause tour.

3.8.2 Decode Output

On the main window, from decoder->decoded info, interface is shown as below. See Figure 3-30.

Here you can view current decode information.
- Status: Current channel working status. There are four statuses: Monitor/Playback/Tour/Idle.
- Resolution: Here you can view video resolution of current channel.
- FPS: You can view the frame rate of current channel.

● Data Flow: You can view the network data flow current channel received.
● Decode flow: You can view the output video flow current channel decoded.

Channel	Status	Resolution	FPS	Date Flow(kb/s)	Decoded Flow(kb/s)
Channel1	Idle		0	0	0
Channel2	Idle		0	0	0
Channel3	Idle		0	0	0
Channel4	Idle		0	0	0
Channel5	Idle		0	0	0
Channel6	Idle		0	0	0
Channel7	Idle		0	0	0
Channel8	Idle		0	0	0
Channel9	Idle		0	0	0
Channel10	Idle		0	0	0
Channel11	Idle		0	0	0
Channel12	Idle		0	0	0
Channel13	Idle		0	0	0
Channel14	Idle		0	0	0
Channel15	Idle		0	0	0
Channel16	Idle		0	0	0
Channel17	Idle		0	0	0

Figure 3-30

3.8.3 Decode Strategy

On the main menu, from decoder->decoded policy, you can set the delay time of decoder in each decode channel, the buffer time is ms. See Figure 3-31.

● Channel number: The 1-channel 4K high definition series/1-channel high definition series supports 1-16-channel. The 9-channel high definition series supports 1-48-channel. The 4-channel 4K high definition series/ 16-channel high definition series supports 1-64-channel.
● Decode buffer time: The value ranges from 80ms to 480ms.

Figure 3-31

3.8.4 Screen Show

On the main menu, from decoder->screen No. overlay, you can see the following interface. See Figure 3-32.

It is for you to overlay device IP and TV number of current channel at the top left corner of current channel output interface. For 1-channel 4K high definition series product, the

device IP and TV number is on the top left corner of the screen.

Important

This function is not for splicing video wall.
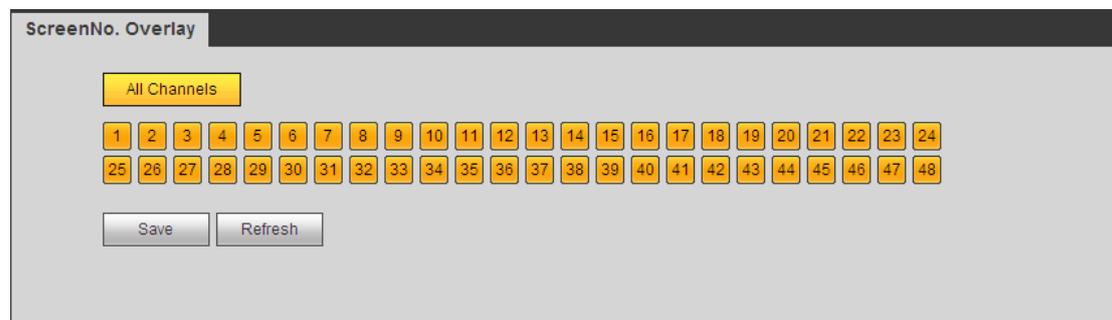
Figure 3-32

3.8.5 Output Options

This function is for 1-channel 4K series and 9-channel high definition series product only.

Here you can set output screen port. Please make sure it is the same as the connected port setup.

Select Screen No. and its corresponding port type from the dropdown list and then click Save button to complete setup. See Figure 3-33.
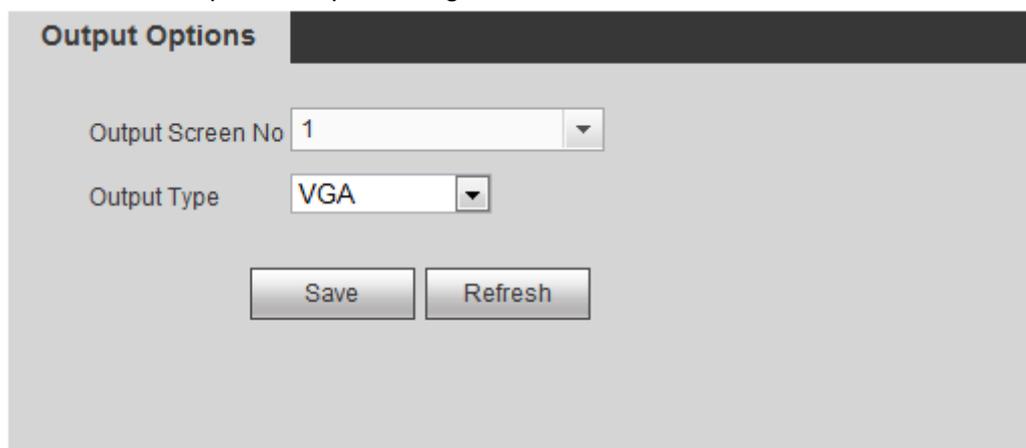
Figure 3-33

3.8.6 Background Color

Note

This function is for 4-channel 4K high definition series and 9/16-channel high definition series.

On the main menu, from decoder->Background color, you can see the following interface. See Figure 3-34.

It is to set the background color of the screen. There are two options: blue (default)/black.
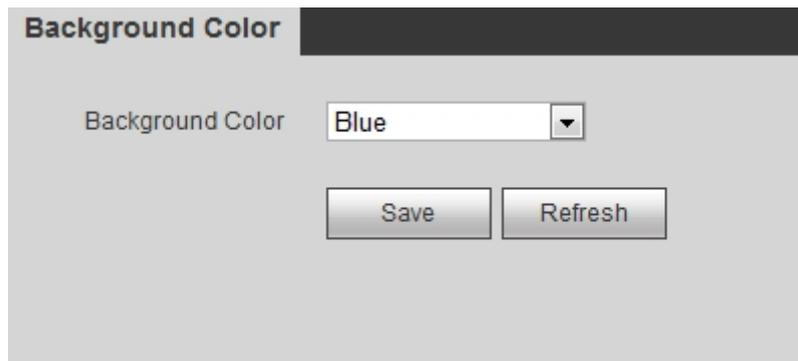
Figure 3-34

3.8.7 Split Line

Note

This function is for 4-channel 4K high definition series and 9/16-channel high definition series.

On the main menu, from decoder->Split Line, you can see the following interface. See Figure 3-35.

Here you can set the split line for the decoded channels. The default setup is null.

Figure 3-35

4 Alarm Input and Output

Before device connection, please make sure:

● **Alarm Input**

Please check the alarm type (Normal open/normal close) first. Then set decoder network alarm type. Set decoder alarm type as NO (Normal Open) if it is ground alarm, otherwise set it as NC (Normal Close).

Please note alarm input is active in low voltage, please ground it.

Please use a relay to separate devices, when there are two decoders, or there is one decoder and one another device.

● **Alarm Output**

Do not connect the alarm output port to high power load directly (It shall be less than 1A); it may result in heavy current which may destroy the relay. Please use co contactor to realize the connection between the alarm output port and the load.

● **Sound Ground**

Please make sure the front-end device has earthed. Otherwise it may result in chip damage.

Alarm input type can be NO (normal open) or NC (normal close).

The 1-channel 4K high definition series product interface is shown as in Figure 4-1.
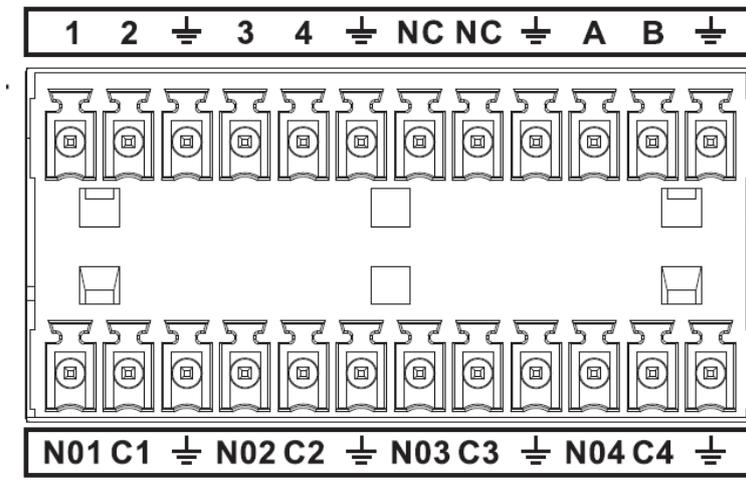
Figure 4-1

Parameter	1-channel 4K high definition series
AB	A/B cable of the control device.
⏚	GND port
1~4	Alarm input port
C1-C4；NO1-NO4	Alarm output port (NO)

The 1/4-channel high definition series product interface is shown as in Figure 4-2.
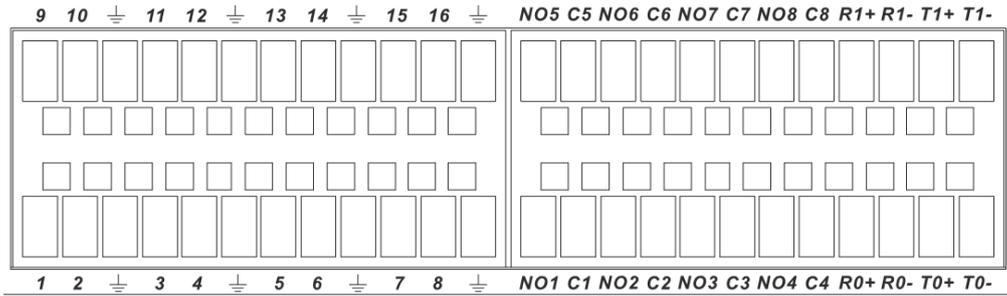
Figure 4-2

Parameter	1/4-channel high definition standard series, （Ground alarm）
⏚	GND port
1-16	Relay input port
C1-C8；NO1-NO8	Relay output port(NO)
R0+, R0-, R1+, R1-, T0+, T0-, T1+, T1-	Duplex RS485 port

The 9-channel high definition series product interface is shown as in Figure 4-3.
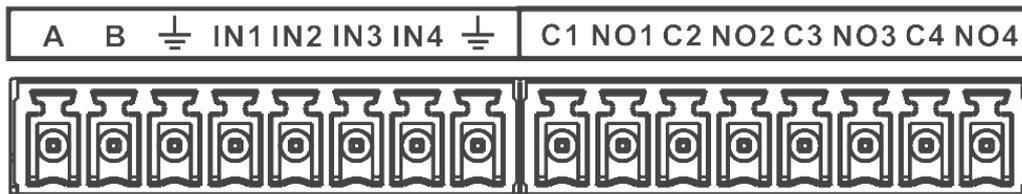
Figure 4-3

Parameter	9-channel high definition standard series
AB	A/B cable of the control device.
⏚	GND port
IN1-IN4	Alarm input port
C1-C4；NO1-NO4	Alarm output port (NO)

The 4-channel 4K high definition series product interface is shown as in Figure 4-4.
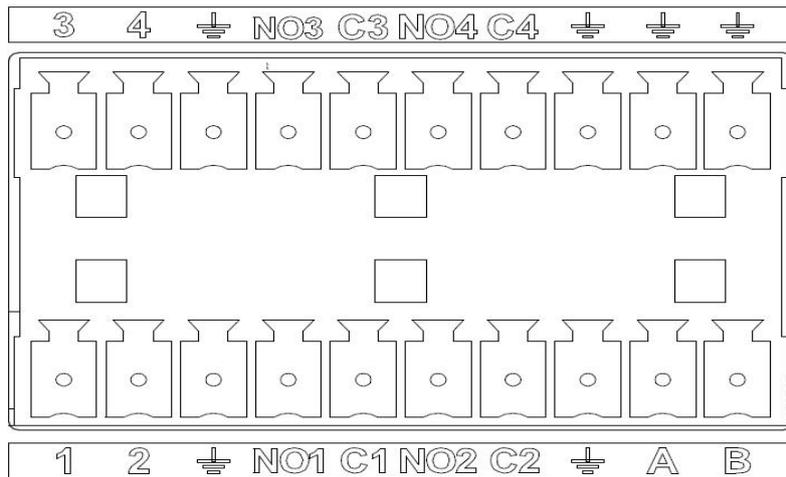
Figure 4-4

Parameter	4-channel 4K high definition series
AB	A/B cable of the control device.
⏚	GND port
1-4	Alarm input port
C1-C4；NO1-NO4	Alarm output port (NO)

4.1 Alarm Input Port

● There are 16-ch alarm inputs and the input type can be NO or NC.
● Connect the NC port of alarm detector to the HDMI-WALL alarm input port (ALARM)
● When using external power to provide power to the alarm device, please make it has the same ground with the HDMI-WALL.

Please refer to the following figure for more information. See Figure 4-5.
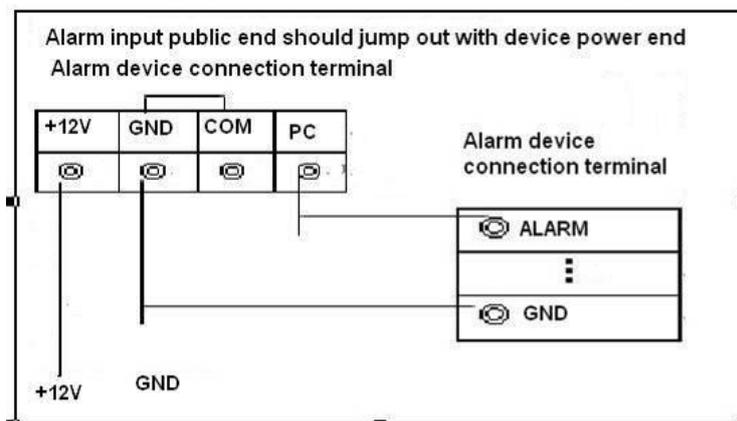
Figure 4-5

4.2 Alarm Output Port

● 8-ch alarm output (normal open contact). The external alarm device needs the battery supported.

- To avoid overload to damage the device, please refer to the following sheet for relay specification information.
- About A/B cable of RS485, they are used to connect to the PTZ decoder A/B cable.

Please refer to Figure 4-6 for alarm input module information.
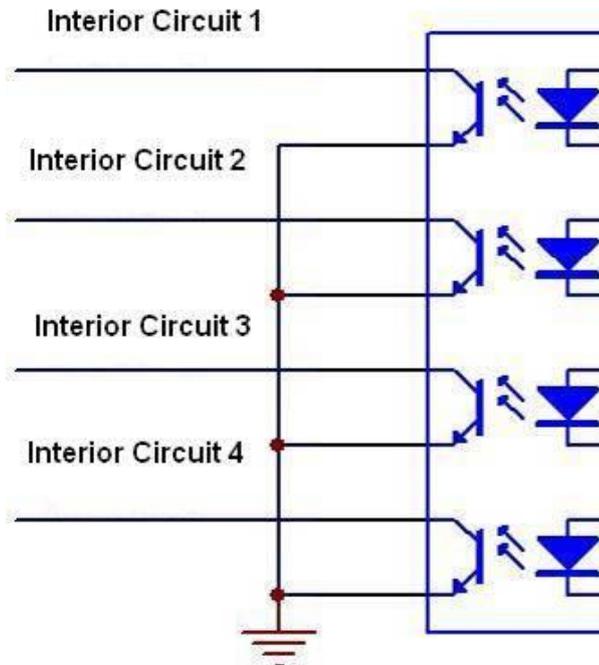
Figure 4-6

Please refer to Figure 4-7 for alarm output module information.
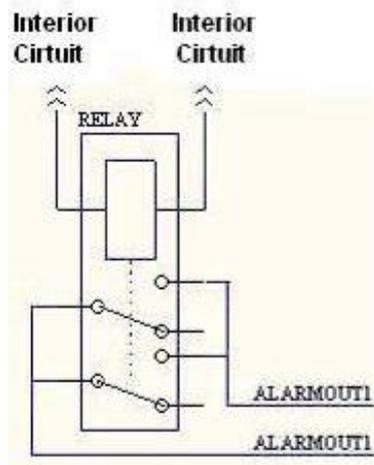
Figure 4-7

4.3 Alarm Output Relay Specifications

Contact Form	1Z

Contact Resistance	100mΩ（0.1A 6VDC）
Contact Material	AgNi+Gilded
Contact Rating (Resistive)	0.5A 125VAC/1A 30VDC
Max. switching voltage	125VAC/60VDC
Max. switching current	2A
Max. switching power	62.5VA/30W
Min. permissible loading	1mA 5V
Mechanical durability	1x107times（300 times/min）
Electrical durability	1x105times（30 times/min）

Note:

- **For detailed operation introduction, please refer to our resource CD included in your package for electronic version of the User's Manual.**
- **This quick start guide is for reference only. All the designs and software here are subject to change without prior written notice.**
- **All trademarks and registered trademarks mentioned are the properties of their respective owners.**
- **If there is any uncertainty or controversy, please refer to the final explanation of us.**
- **Please visit our website or contact your local retailer for more information.**