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1 Brief Introduction

1.1 System Requirements

- Operating System: window 2000 and above
- CPU: Inter Pentium 4 2.4G and above
- Internal Memory: 512M and above
- Display: Support 1024*768 and higher resolution
- Video Card: Support direct draw acceleration and start

1.2 Agreements:

- In order to simplify the descriptions in this manual, some descriptions are described as follows:
- Client software is described as software
- DVR, DVS are collectively referred to as device
- Click is left mouse button click
- Double-click is left mouse button double-click
- Right mouse single-click is right mouse button click

2 Install and Uninstall

2.1 Install

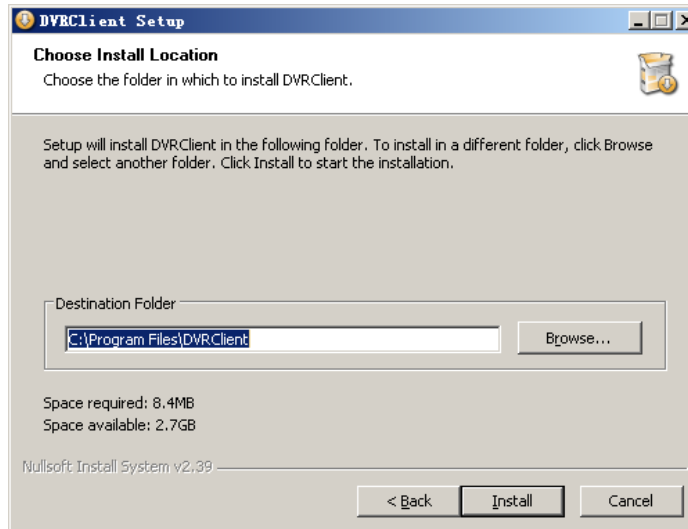
- Double-click "DVRClientSetup.exe" procedure,
- click "OK" button,



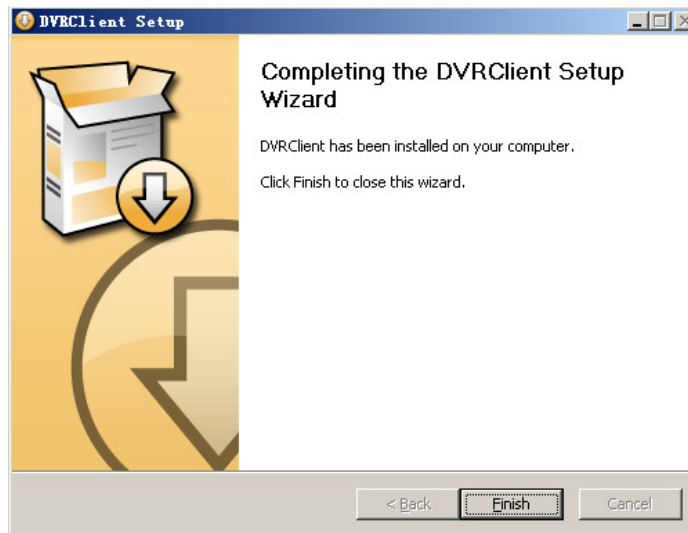
- Click "Next" button,



- Click “Install”



- Click “Finish”. Successfully install.

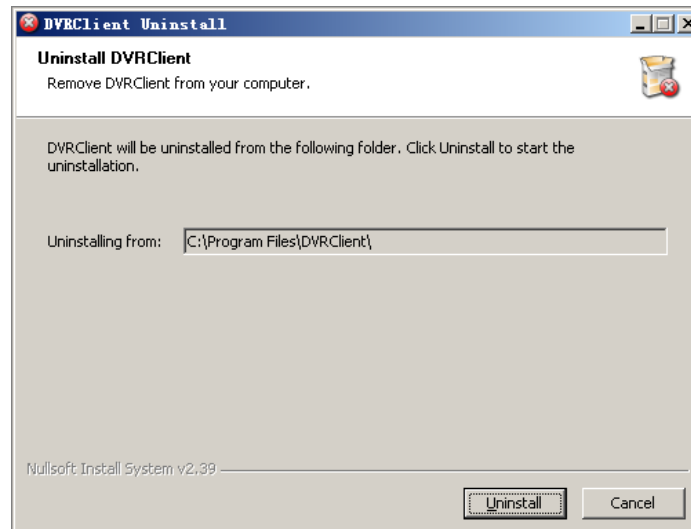


2.2 Uninstall

- Click “Start” → “Procedure” → “DVRclient” → “Uninstall” in the lower left corner of the computer.
- Click “OK” button.



- Click "Uninstall" button.



- Click “Close” button. Uninstallation is complete.

3 Software Running

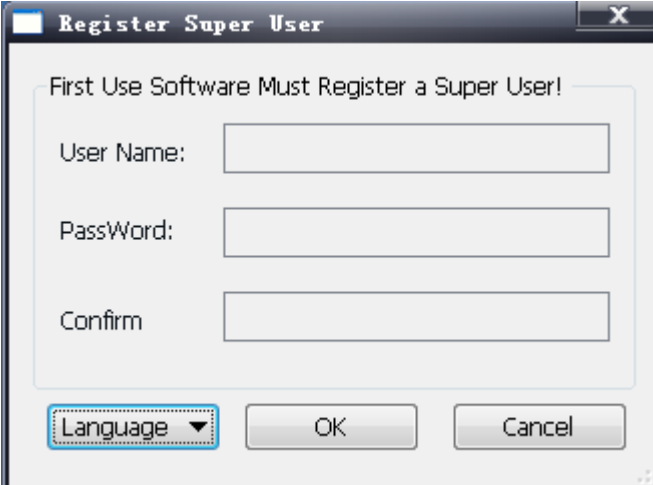
3.1 Running and Login

3.1.1 Run the Software

- Double-click the “DVRclient” shortcut to run the software.

3.1.2 Register Super User

- When using the software for the first time, you need to register a super-user. A dialogue box will be displayed as follow:



The image shows a Windows-style dialog box titled "Register Super User". The dialog contains the following elements:

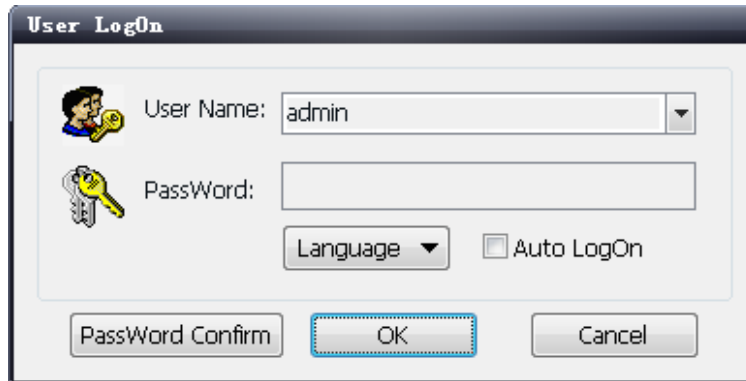
- Title bar: "Register Super User" with a close button (X).
- Text: "First Use Software Must Register a Super User!"
- Input fields: "User Name:", "PassWord:", and "Confirm".
- Buttons: "Language" (dropdown), "OK", and "Cancel".

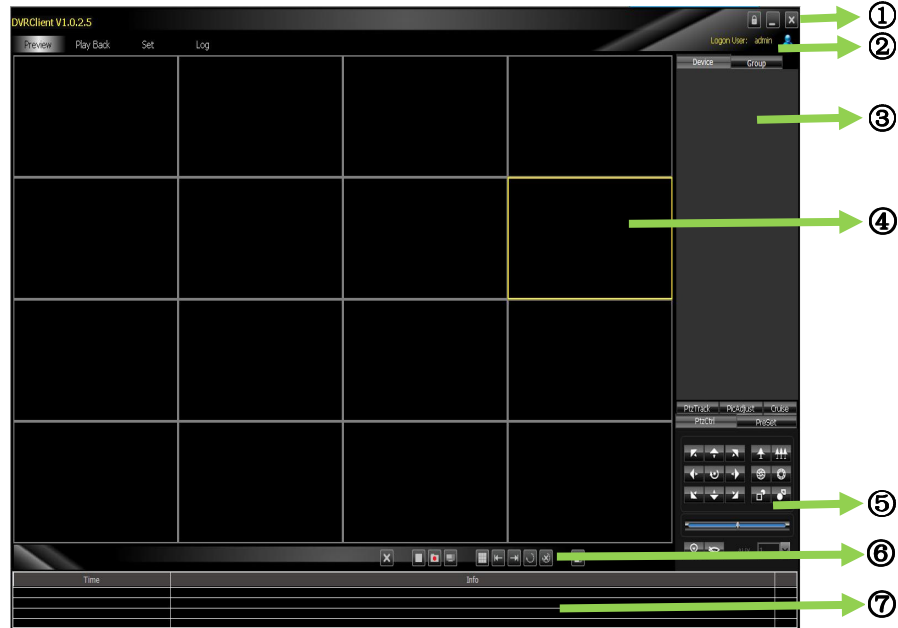
- Input user name, user password and confirm password. The password is at least 6 digits and must match with the confirm password, and then click “OK”.
- A dialogue box will pop-up if the registration is successful.



3.1.3 Login

- Choosing the user name and inputting the password and then clicking "OK", you will enter the procedure. Ticking off "Auto logon", the login window will not appear next time.





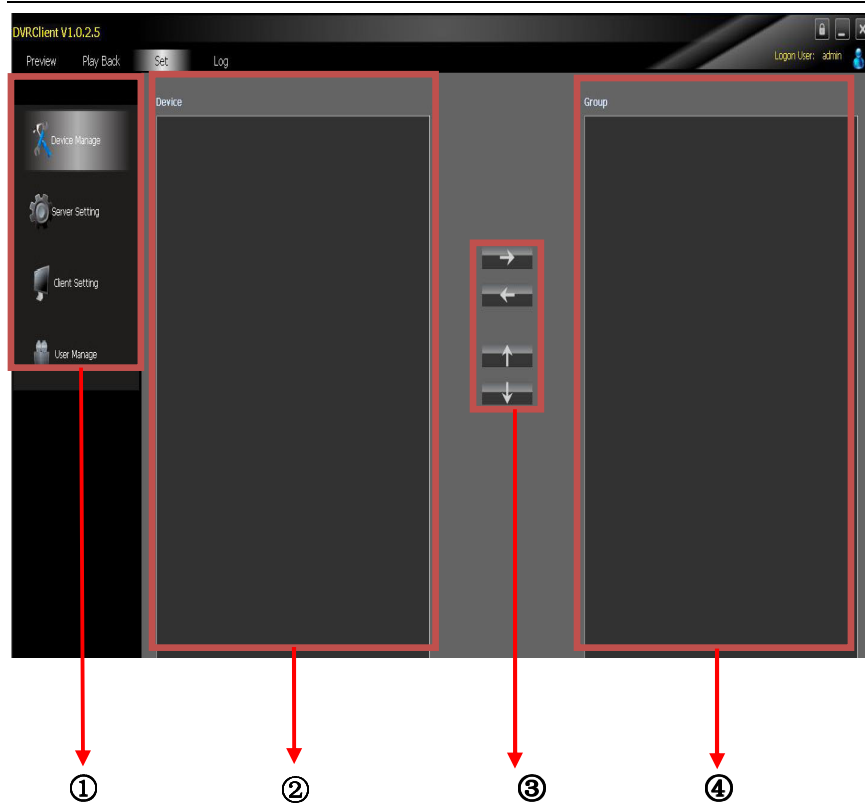
Software Interface Instruction

- ① **System Button Bar:** You can lock the interface, minimize the window to the task bar and close the procedure.
- ② **Tab Bar:** Includes each functional module of the software
 - ✧ **Preview:** You can preview the device in real time.
 - ✧ **Playback:** Remote playback and local video playback.
 - ✧ **Configuration:** Device management, remote device configuration and local parameter setting
 - ✧ **Log:** Local and remote log search.
 - ✧ **Map:** E-map
- ③ **Device Tree:** Display each device and group which is used to

-
- add management.
- **Preview Display Window:** Preview display window of each device channel in real time.
 - **PTZ Control Window:** You can control the PTZ and adjust the image.
 - **Preview Control Bar:** Controls preview stop, client recording, screenshot, switching screen mode, full screen display, rotation training, etc..
 - **Alarm Information List:** Displays the short line information of the device and other alarm information

4 Device Management

- Before operating by using the software, you need to operate adding and configuration on the device. Click “Configuration” on the tab bar and enter the configuration mode.
- Click “Device Manage” on the left navigation bar and you can enter the device management interface.

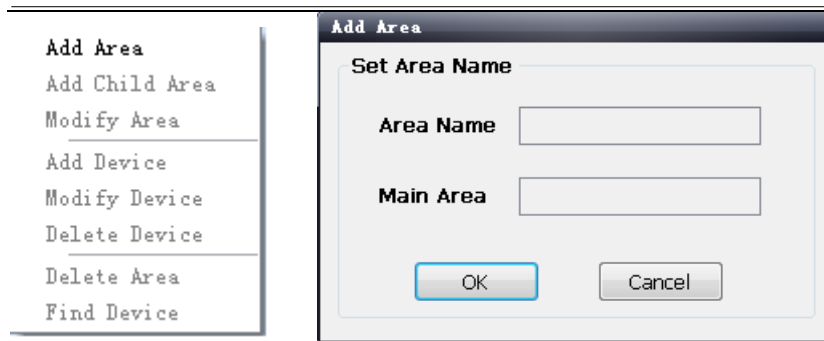


Interface Instruction:

- ① Navigation Bar
- ② Device Tree
- ③ Group Control
- ④ Group Tree

4.1 Device Tree Configuration

- When the software runs at the first time, the list tree is empty by default. Right-clicking any blank area on the list tree, you can add area.



- Fill in the name on the area name bar and click “OK”, you can add an area to the list tree. As the area added is the first area, there is no superior area in this area, so the superior area name bar is empty.
- When adding the area is complete, right-clicking the nodal point of the area, you can add sub-area and device.
- Right-click the area added and pop-up the area management menu.
- Choose “Add Sub-area”, you can add sub-area.
- Choose “Delete Area”, the selected area will be deleted.

Note: If there are other areas, devices and channels under the delete area, the delete operation will not only delete the selected area but also delete all the areas, devices or channels under this area; if there is any channel which is previewing or recording under this area, a warning message will send out.

4.1.1 Add Device Manually

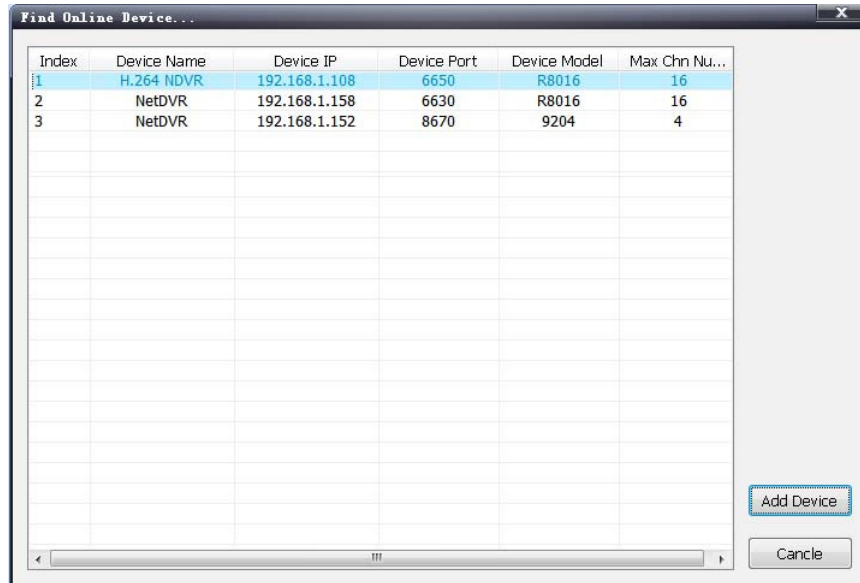
- Right-click the area added, pop-up the area management menu, and choose “Add Device”.

The screenshot shows a dialog box titled "Add Device". Inside, there is a section labeled "Device Information" with the following fields:
- Device Name: [Empty text box]
- Device: [Empty text box]
- Device Port: [6650]
- Channel: [16]
- UserName: [Empty text box]
- User: [Empty text box]
- In Area: [test]
At the bottom of the dialog are two buttons: "OK" and "Cancel".

Option	Instruction
Device Name	The device name added can be user-defined
Device Address	The IP or domain address of the device
Device Port	The number of the device port
Channel Number	Please fill in the channel number of the device according to the actual situation
User Name	The registered user name of the device
User Password	The user name and password of the device
Area	The area name where the device exists

4.1.2 Search the Online Device within the LANs

- Right-click in any area/ nodal point of the sub-area, click “Search Device” on the menu item, search the online device with the same LANs.



- Choose one device, click “Add Device”

Add Device

Device Information

Device Name

Device

Device Port

Channel

UserName

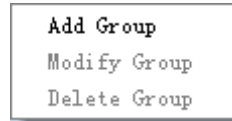
User

In Area

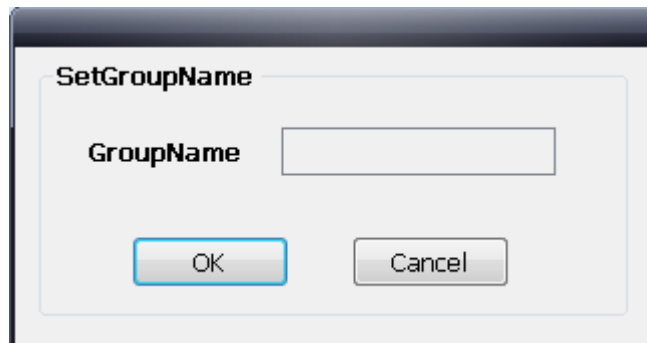
- Modify the device name in the pop-up device information box so that the device name will not appear repeatedly.
- Fill in the user name and password of the device which will login and click "OK".
- Then add other devices continuously.

4.2 Group Tree Configuration

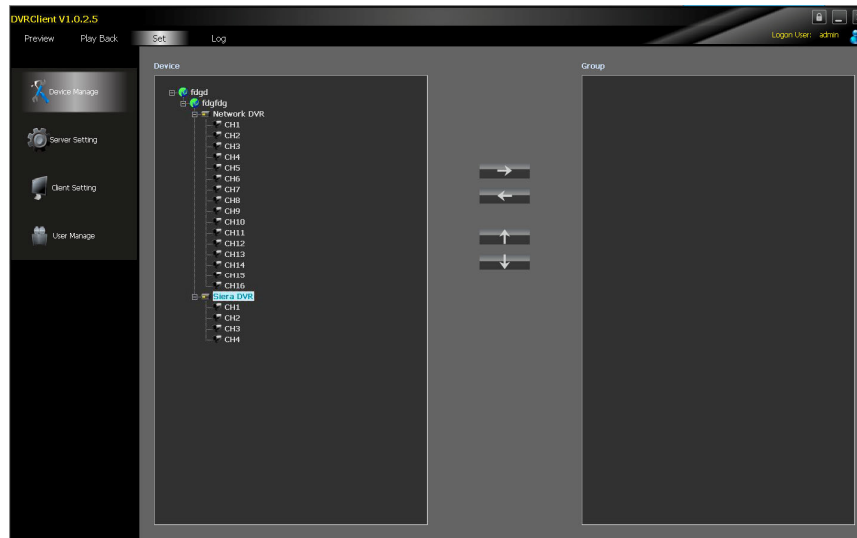
- If there is no any nodal point on the group tree, you need to add the nodal point first.
- Right-click the display group management menu on the blank area of the group bar, click “Add Group”.



- Fill in the group name, click “OK” to add group.

A standard Windows-style dialog box with a title bar. The title is "SetGroupName". Inside the dialog, there is a label "GroupName" followed by a text input field. Below the input field are two buttons: "OK" and "Cancel".

- After successfully adding the group, you can add the nodal point of the channel on the list tree to the selected group.



- Select the nodal point of the channel on the list tree; clicking “Add” on the configurable button bar of the device configuration window will add the selected channel to the selected group of the group tree. The channel name will display in the form of “Device Channel Name”. After a channel added successfully, the list tree will select the nodal point of the next channel automatically.
- Select the device on the list tree; clicking “Add” on the configurable button bar of the device configuration window will
- add all the channels of the selected device to the selected group. After add all the channels of device successfully, select

the window and then select the next nodal point of the device of the list tree.

- Use the “Up” and “Down” button on the configurable button bar of the device configuration window to adjust the order of the nodal point of the channel under the group.
- Select the nodal point of the channel on the group tree; clicking “Delete” button on the configurable button bar of the device configuration window will delete the selected channel from the group. After the channel is deleted, the group tree will select the next channel of the group automatically.
- Select the nodal point of the group on the group tree, click “Delete” button on the configurable button bar of the device configuration window to display warning message dialog box. Click “OK”, then the nodal points of all the channels of the selected group will be deleted.

Note: A group cannot add a same channel repeatedly, but can be added to different groups at the same time.

5 Image Preview

5.1 Preview by Non- cruise in Turn



- **Double-click to Start Preview:** Clicking a play window on the play panel, the frame of the selected window will become light blue. Double-click a channel on the device list or group; this channel will play on this window.
- **Drag to Start Preview:** Drag a channel on the device list or group to any play window, this channel will play on this window and it will be under selected status.
- **Stop Preview:** Right-clicking play window, the menu appears, click “Stop Preview” or click “Stop” button on the preview control bar.

5.2 Preview by Cruise in Turn

- Drag the nodal point of the device or the group directly to the play window to start playing by cruise in turn.
- Whether start cruise in turn and time of cruise in turn are set on the client setting page.

5.3 Preview Control

- **Stop:** Stop the preview of the current selected window.
- **Recording:** Click the recording button and start the client recording of the current selected play window, click again to stop recording.
- **Screenshot:** Save the screenshot of the current selected play window.

5.4 Sound Control

- Right-click on the play window, pop-up the play menu; choosing “Turn on Sound”, the audio preview of this window will be opened. Right-clicking and choosing “Turn off Sound” will close the preview.

Note: The software can only open the audio of one window at the same time. If turning on the sound of the next window, the audio of the last window will be turned off automatically.

5.5 Other Functions:

- **Double-click to Enlarge:** Under the multi-screen mode, double-clicking the play window will enlarge the window; clicking again will return.
- **Screen Mode:** Can switch multi-screen mode.
- **Full Screen:** Hide part of the program in order to maximize the panel of the play window.
- **Last Page, Next Page:** Displays the remaining windows under the current window mode. There are 64 preview windows totally. One page displays each time. The number of the window on each page depends on the screen mode.

6 PTZ Control

6.1 PTZ Control

- Controls the auxiliary functions including the PTZ rotation direction, speed, aperture, focal length, focus, light and windshield wiper etc.

6.2 Track

- Set and control the PTZ track

6.3 Preset Point Setting

- Set PTZ preset point

6.4 Cruise

- Set the PTZ cruise point and path

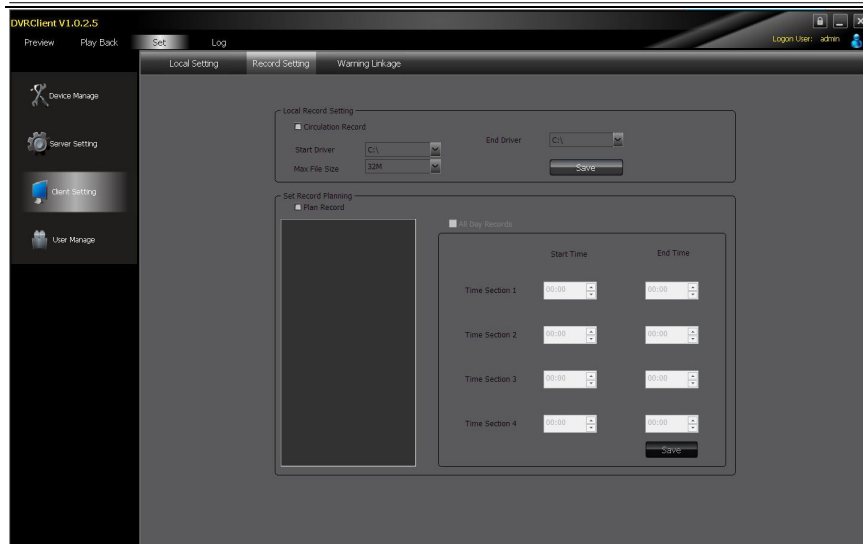
6.5 Screen Adjustment

- Set the screen brightness, contrast ratio, chromaticity and saturation

7 Recording and Playback

7.1 Client Local Recording

- Client recording includes manual client recording and plan recording
- **Client Manual Recording:** Click recording on the preview control bar will start recording.
- **Plan Recording:** Set the plan recording time on the client configuration page.
- Set the path and package size of all the client recording on the client setting page.



7.2 Remote Playback

- Clicking the “Playback” button on the software tab bar, choosing “Remote Playback”, you will enter the remote playback interface.

7.2.1 Remote Video File Search

- Selecting the device to be searched from the right device tree, and selecting the channel to be searched on the below search panel, then choosing the recording type and start time, clicking “File Search”, the file search result will appear. On the right of the search result, you can control page turning and jumping.



7.2.2 Remote File Playback

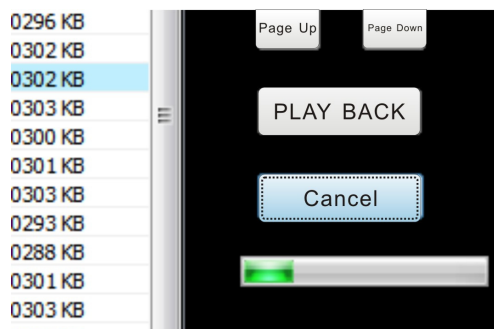
- Select the window which will play playback file. Selecting file in the search result, double-clicking or clicking the “File Playback” on the right, the file will start to playback.
- Choosing the search condition, clicking “Playback by Time”, the video can playback by time.



Note: Maximum support 4 channels when playback by time. When switching to playback from the start time, all the playback windows will be stopped and it will start playing back again.

7.2.3 Remote File Download

- Selecting file in the search result, clicking the “File Download” on the right, the file will start downloading. The progress bar will appear below.



7.2.4 Playback Control

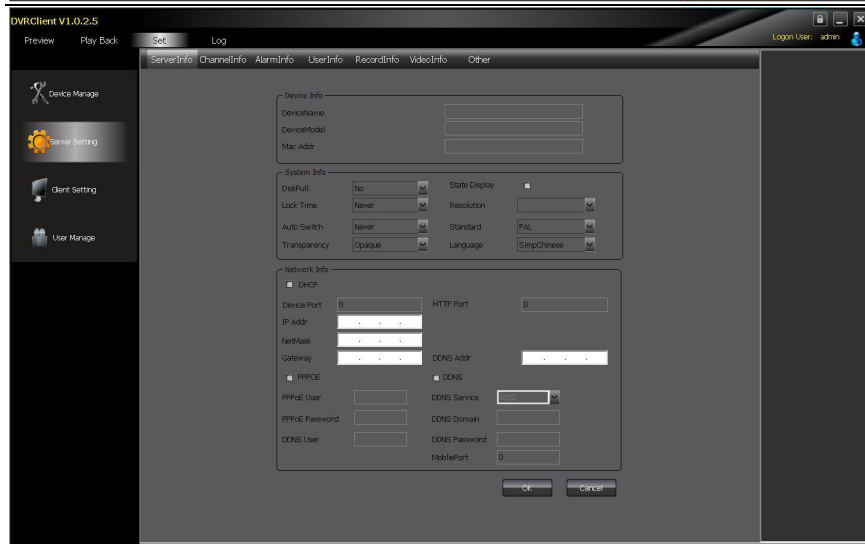
- Selecting the window to be controlled, the playback control bar will display the current progress and rate of the current video. Drag, pause, stop, screenshot, mute, rate control can be operated on the selected playback file. Clicking “Stop All” will stop all the playback windows.

7.3 Local Playback

- Clicking the “Play Back” button on the software tab bar, choosing “Local Playback”, you will enter the local playback interface. Search playback and control are consistent with the remote playback operation. Local playback file cannot download and the file type is not optional.

8 Server-side Configuration

- Click “Configuration”-“Server-side Configuration” and enter the server-side configuration interface.
- Select the page to be configured on the right device tree. After modifying the configuration, click **【save】** on the page will save the parameters.



8.1 System Information Configuration

Device Info	
DeviceName	NetDVR
DeviceModel	R8016
Mac Addr	00:6a:7b:d3:41:96

System Info			
DiskFull	No	State Display	<input type="checkbox"/>
Lock Time	Never	Resolution	600*800 60HZ
Auto Switch	Never	Standard	PAL
Transparency	Opaque	Language	SimpChinese

Network Info			
<input type="checkbox"/> DHCP			
Device Port	6630	HTTP Port	80
IP Addr	192.168.1.158		
NetMask	255.255.255.0		
Gateway	192.168.1.1	DDNS Addr	192.168.1.1
<input type="checkbox"/> PPPoE		<input type="checkbox"/> DDNS	
PPPoE User	test	DDNS Service	3322
PPPoE Password	***	DDNS Domain	zerging.3322.y
DDNS User	zerging	DDNS Password	***
		MobilePort	0

8.2 Channel Information Configuration

Channel: 01

Image Param

Show Name ChannelPos Show Time Overlay Area

Record Param

Bit Rate: 64Kbps Steam Type: Composite Bit Type: CBR
Quality: Best FrameRate: 10 fps
Resolution:

SubStream Param

Bit Rate: 64Kbps Steam Type: Video Bit Type: CBR
Quality: Best FrameRate: 10 fps Resolution:

PTZ Param

Baudrate: 2400 Data Bit: 8 Stop Bit: 1
Check: No Control: No Protocol: Pelco-d
DecoderAddr: 0

Copy To Other Channel

01 02 03 04 05 06 07 08
 09 10 11 12 13 14 15 16 All Yes/No

OK Cancel

8.3 Alarm Information Configuration

ServerInfo ChannelInfo AlarmInfo **UserInfo** RecordInfo VideoInfo Other

AlarmIn Info
AlarmIn ID: 01 Type: Low TreatAlarm:

PTZ LinkAge
LinkAgeID: 01
EnableTrack: EnableCruise: EnablePreset:
CruisePathNum: 0 PresetPoint: 0

AlarmOut Info
AlarmOut ID: 01 Type: Normal Open
Email Addr: PassWord: SMTP: SMTP Port: 0

Trigger AlarmOut: 01 02 03 04

Trigger Info
Email Alarm: Sound Alarm: Delay: 5s

Trigger Record Channel
 01 02 03 04 05 06 07 08
 09 10 11 12 13 14 15 16

Copy To Other Channel
 01 02 03 04 05 06 07 08
 09 10 11 12 13 14 15 16

8.4 User Management Configuration

ServerInfo ChannelInfo AlarmInfo **UserInfo** RecordInfo VideoInfo Other

User ID: 01 Username: _____
Password: _____ Confirm: _____

Remote Right

Ptz Ctrl	<input type="checkbox"/>	Record	<input type="checkbox"/>	PlayBack	<input type="checkbox"/>
SetParam	<input type="checkbox"/>	Log	<input type="checkbox"/>	Tool	<input type="checkbox"/>
Preview	<input type="checkbox"/>	Alarm	<input type="checkbox"/>	VOIP	<input type="checkbox"/>

Local Right

Ptz Ctrl	<input type="checkbox"/>	Record	<input type="checkbox"/>	PlayBack	<input type="checkbox"/>
SetParam	<input type="checkbox"/>	Log	<input type="checkbox"/>	Tool	<input type="checkbox"/>

Del User OK Cancel

8.5 Recording Defnec

ServerInfo ChannelInfo AlarmInfo UserInfo **RecordInfo** VideoInfo Other

Record Schedule Info

RecordChannel: 01 Day: Mon

Mon

0 6 12 18

Timing Alarm MD Combined Empty

Schedule

RecordTime	Timing	MD	Alarm
14:23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14:23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14:23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14:23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Copy To Other Week

Mon Tues Wednes Thurs Fri Satur Sun

Copy To Other Channel

01 02 03 04 05 06 07 08
 09 10 11 12 13 14 15 16

All Yes/No

OK Cancel

8.6 Video Detection Configuration

ServerInfo ChannelInfo AlarmInfo UserInfo RecordInfo VideoInfo Other

VideoDetection Info

Video Channel: 01

Detection Type: MD

Copy2otherChn:

Trigger AlarmOut

01 02 03 04

Trigger Info

Email Alarm Sound Alarm

Delay: 5s Sense: NoDetect

Trigger Record Channel

01 02 03 04 05 06 07 08
 09 10 11 12 13 14 15 16

8.7 Other Configuration

ServerInfo ChannelInfo AlarmInfo UserInfo RecordInfo VideoInfo **Other**

Manual Record

01 02 03 04 05 06 07 08
 09 10 11 12 13 14 15 16

Set All Yes/No

Disk Info

SATA_01	OK / OK	00:00-00:00	Formatted	Dormancy
SATA_02	OK / OK	00:00-00:00	Formatted	Dormancy
SATA_03	OK / OK	00:00-00:00	Formatted	Dormancy
SATA_04	OK / OK	00:00-00:00	Formatted	Dormancy
SATA_05	OK / OK	00:00-00:00	Formatted	Dormancy
SATA_06	OK / OK	00:00-00:00	Formatted	Dormancy
SATA_07	OK / OK	00:00-00:00	Formatted	Dormancy
SATA_08	OK / OK	00:00-00:00	Formatted	Dormancy

System Time

2011-05-13 14:23:05 Refresh Set

RemoteCtrl

Clear Alarm Restart
FactorySet Update

9 Client Configuration

9.1 Local Configuration

The screenshot displays a software configuration window with a dark grey background and a light grey header. The header contains three tabs: "Local Setting" (selected), "Record Setting", and "Warning Linkage". The main content area is organized into several sections:

- Loop Play:** Includes a checkbox for "Enable Loop" and a text input field for "Loop Time[s]" containing the value "20".
- Snap Picture Setting:** Includes a checkbox for "Snap JPEG Picture".
- Path Setting:** Contains two rows. The first row has "Remote Download File Path" with a text input field containing "C:\Download" and a "Browse" button. The second row has "Save Snap Picture Path" with a text input field containing "C:\PictureFile" and a "Browse" button.
- Advanced Setting:** Contains three sub-sections:
 - Warning Linkage:** Includes a checkbox for "Warning Sound Out".
 - Log Setting:** Includes three rows, each with a label and a dropdown menu:
 - "Save Warning Log Time" with a dropdown set to "One Month".
 - "Save Operator Log Time" with a dropdown set to "One Month".
 - "System Time" with a dropdown set to "One Month".
 - Other Setting:** Includes a checked checkbox for "Automatic Logon" and an unchecked checkbox for "Whether to open the Preview last time".

A "Save" button is located at the bottom right of the configuration area.

Local configuration can configure cruise in turn, screenshot, storage path, client alarm configuration, log maintenance and auto-logon option.

9.2 Recording Configuration

The screenshot displays a software interface for recording configuration. At the top, there are three tabs: 'Local Setting', 'Record Setting', and 'Warning Linkage'. The 'Record Setting' tab is active. Below the tabs, there are two main sections:

- Local Record Setting:** This section contains a checkbox for 'Circulation Record'. Below it, there are two dropdown menus for 'Start Driver' and 'End Driver', both set to 'C:\'. There is also a dropdown menu for 'Max File Size' set to '32M'. A 'Save' button is located to the right of these settings.
- Set Record Planning:** This section contains a checkbox for 'Plan Record'. To its right, there is a checkbox for 'All Day Records'. Below these, there is a table with four rows, each representing a 'Time Section'. Each row has two columns: 'Start Time' and 'End Time', both with dropdown menus set to '00:00'. A 'Save' button is located at the bottom right of this section.

Note: The local recording configuration Parameters will come into effect only when the client is restarted after they are saved.

The prerequisite of plan recording is that there must be preview bit stream.

9.2.1 Video Storage Path

- Set start and stop drive, set video save path, set the size of file package. Can limit the maximum size of a single file.

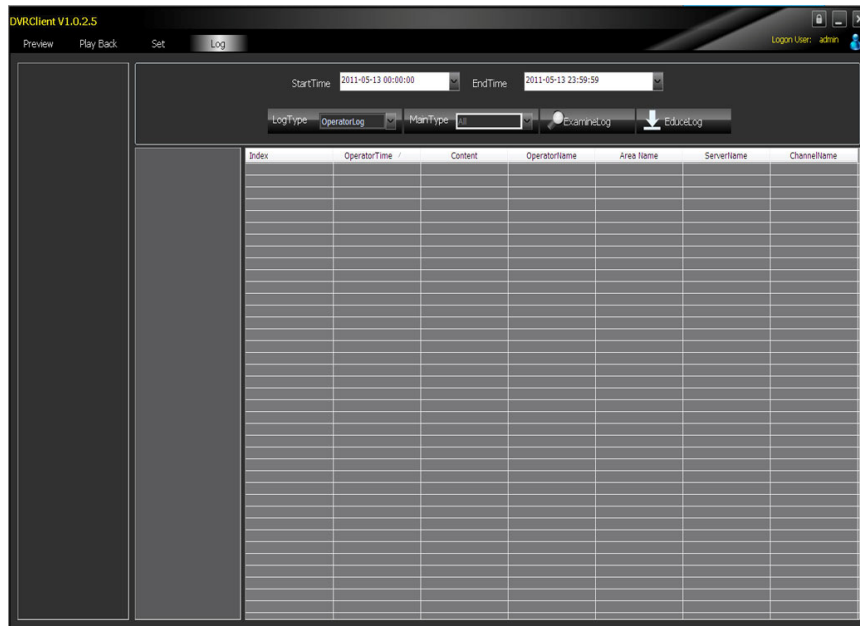
9.2.2 Plan Recording

- Tick off “Plan Recording” to start plan recording.
- Select the channel which will plan recording from the left device tree and set the time bucket of recording on the right and then click save.

9.3 Alarm Link

- Set the options of client alarm link.

10 Log



- **Operation Log:** Search the client operation log.

-
- **Alarm Log:** Search the client alarm log.
 - **System Log:** Search the client system log.
 - **Remote Log:** Search the remote device log, you need to select the device on the left list tree.

Attachment 1: HDD Capacity Calculation

Install the digital video recorder for the first time, please make sure whether the HDD is installed inside the host.

1. The Own Capacity of the HDD

For the capacity of single HDD, the digital video recorder chooses the capacity of above 160G. In order to obtain better stability, we recommend the HDD with 250G ~ 1TG capacity.

2. The selection of the Total Capacity

The calculation formula of HDD capacity is as follow:

Total HDD capacity (M) = channel number × required time (hour) × HDD space consumption per hour (M/hour).

Similarly, we can get the calculation formula of recording time:

$$\text{Recording time (hour)} = \frac{\text{Total HDD capacity (M)}}{\text{HDD space consumption per hour(M/hour)} \times \text{channel number}}$$

The digital video recorder adopts H.264 compression technology whose own dynamic range is rather large, therefore, the calculation of HDD capacity needs to count the valuation of the file size generated per hour by each channel according to the bit stream.

For example: single-channel recording takes up HDD space 200M/hour. When using 4 channel digital video recorder to record, it

requires continuous recording one month (30 days) and 24 hours one day.

The required HDD space is as follow:

$$4 \text{ channels} \times 30 \text{ days} \times 24 \text{ hours} \times 200\text{M}/\text{hour} = 576\text{G},$$

Then it normally needs to install 1 750G HDD or 2 320G HDDs.