



Remote Client Guide

TVR-VS – Release 1.0

Version 1.0

tyco

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1. Overview

The remote monitoring software is used for network standalone DVRs. It supports three resolutions: 1024 x 768 pixels (default), 1152 x 864 pixels, and 1280 x 1024 pixels.

2. Installation

2.1 Install Client software v1.0

2.1.1 Install Client software

- 1 From the directory where you saved the installation program, double-click [DVR Client Software 1.0.exe]. The InstallShield Wizard displays a Welcome window.

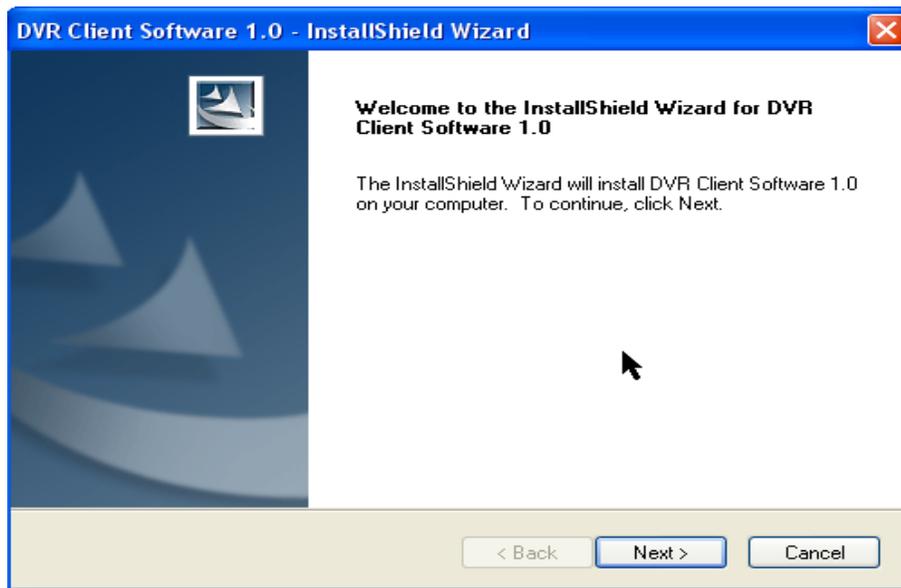


Figure 1 Client software installation Welcome window

- 2 Click [Next]. The next window appears.

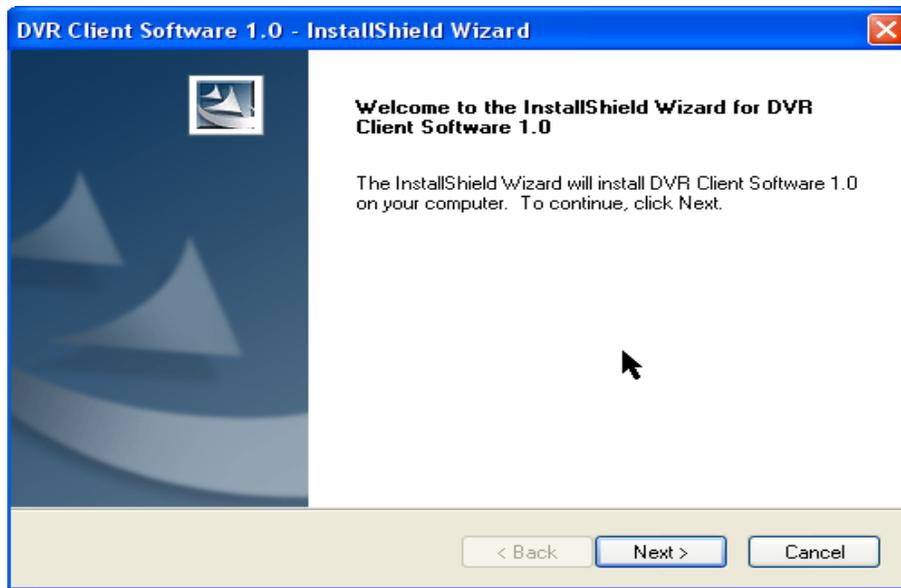


Figure 2 OS Language window

- 3 Select the OS language. Click [Next]. The Customer Information Window appears.

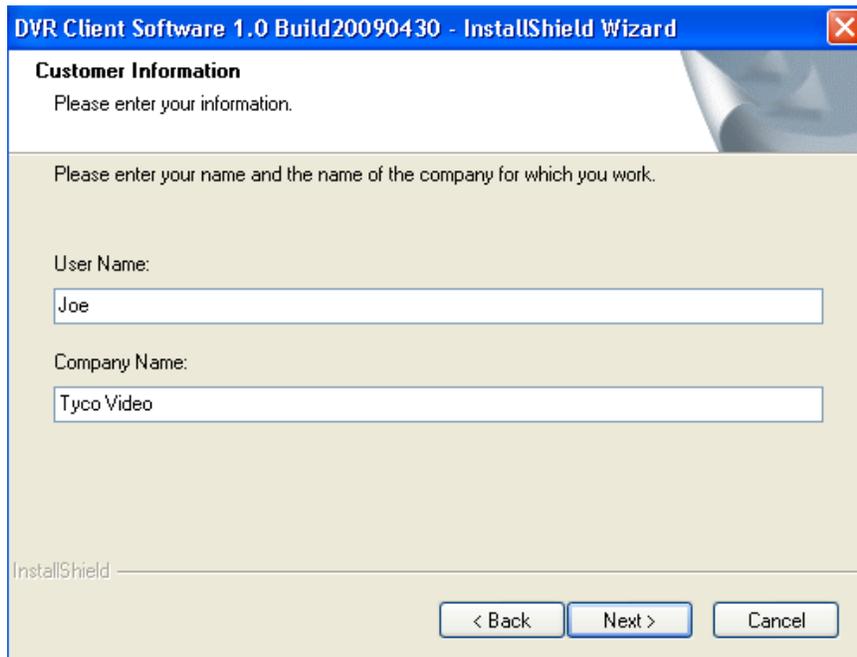


Figure 3 Customer Information window

- 4 Enter the user name and company name. Click [Next]. The Choose Destination Location window appears.

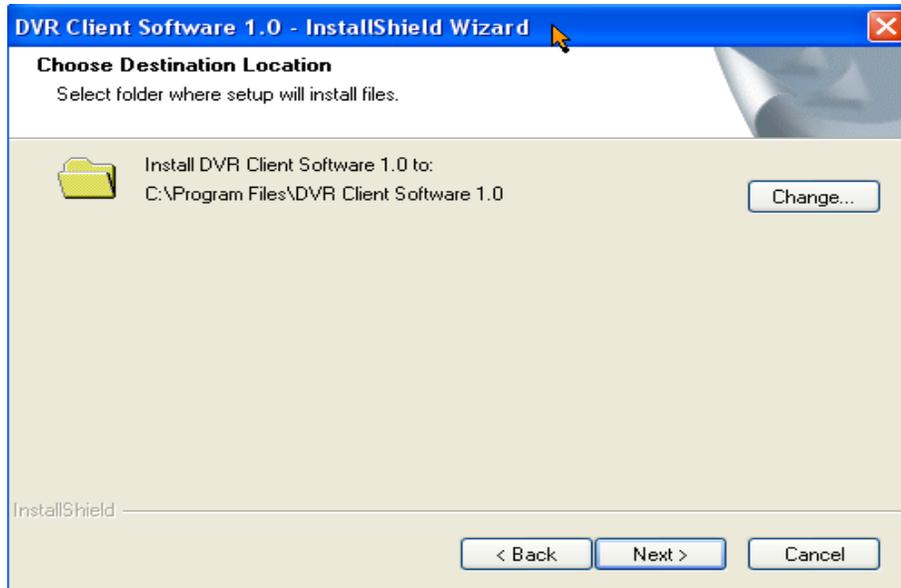


Figure 4 Choose Destination Location window

- 5 Click [Change] to select a different destination directory for the DVR Client Software, and click [Next] when the correct directory name displays under [Install DVR Client Software 1.0 to]. The Ready to Install the Program window displays.

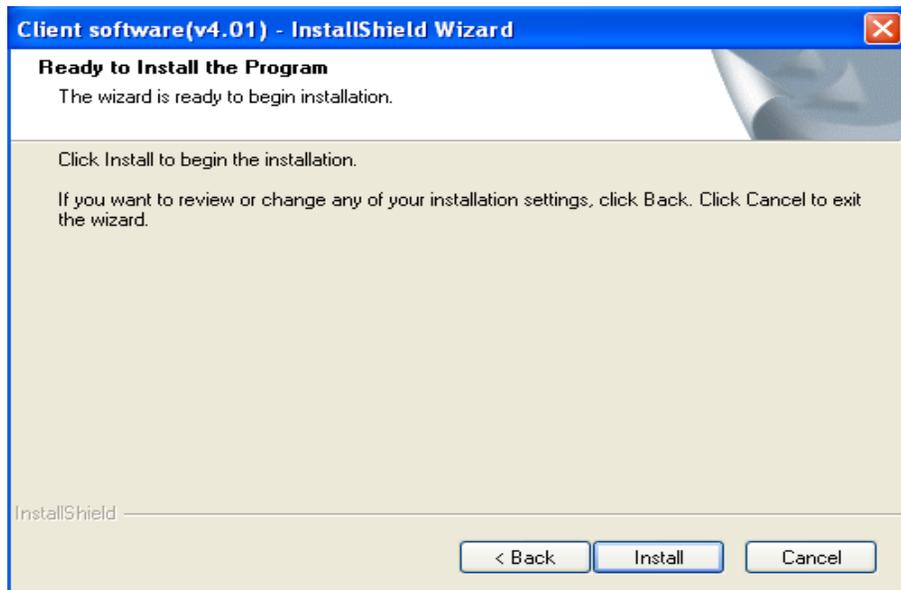


Figure 5 Ready to Install the Program window

- 6 Click [Install]. A new window will indicate when the installation is complete.

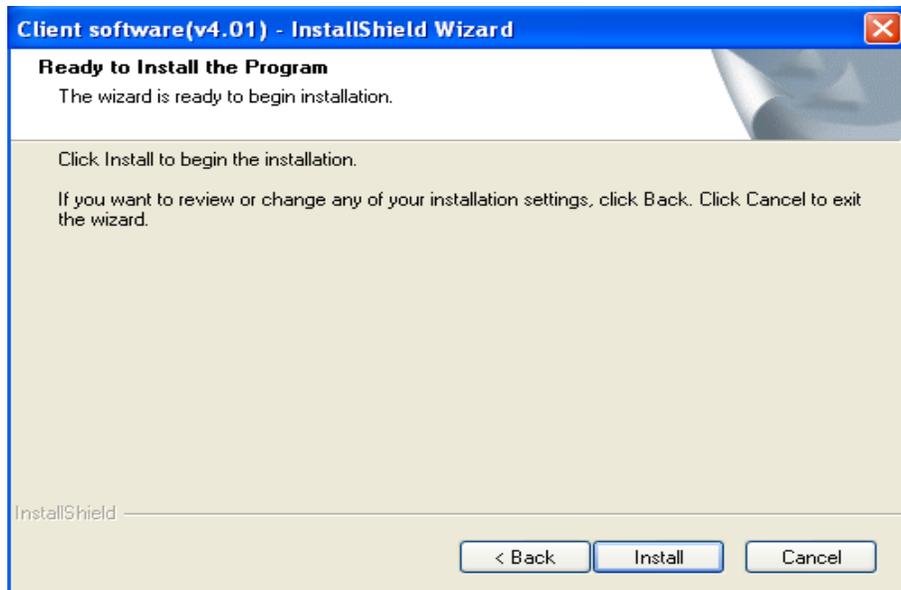


Figure 6 Installation Completed window

2.1.2 Uninstall Client software

- 1 From the Windows desktop, select [Start -> Control Panel]. The Pick a category window displays.

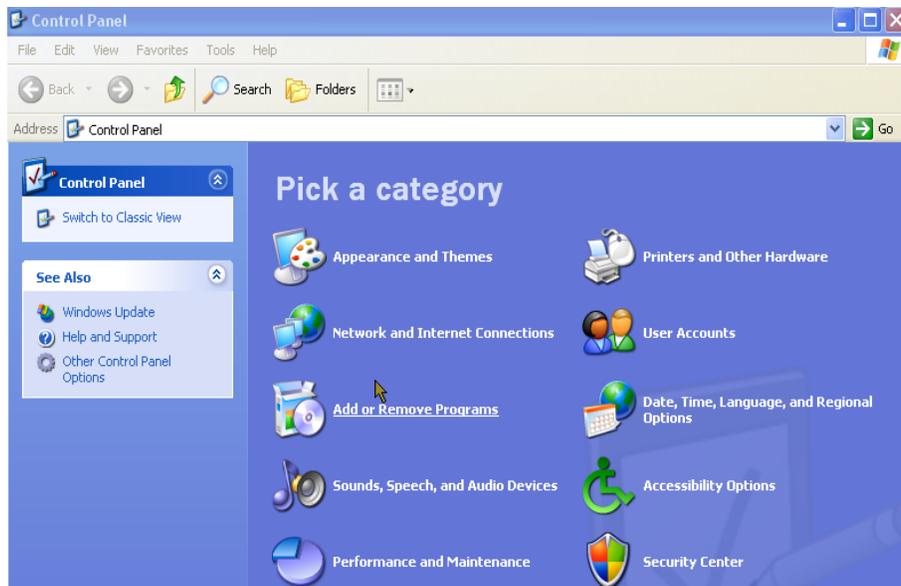


Figure 7 Control Panel

- 2 Click [Add or Remove Programs]. The Add or Remove Programs window displays.

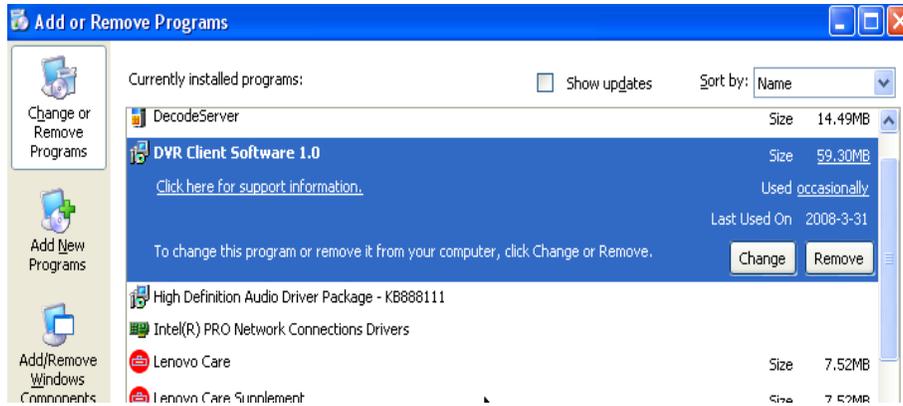


Figure 8 Add or Remove Programs Window

- 3 Select [DVR Client Software 1.0], and click [Remove] to delete the DVR Client Software. A confirmation window displays.



Figure 9 Confirmation window

- 4 Click [Yes] to confirm that you want to remove the application. The Uninstall Complete window displays.

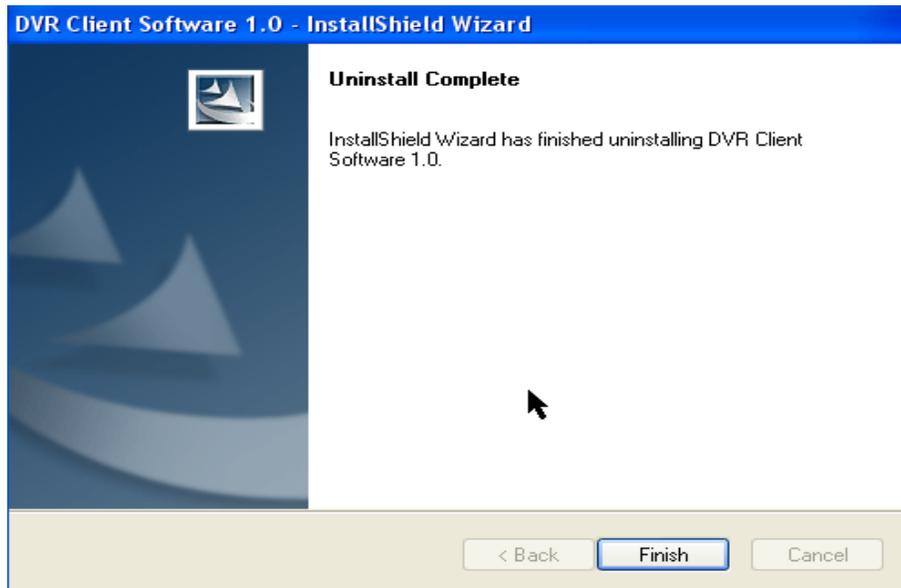


Figure 10 Uninstall Complete window

- 5 Click [Finish] to close the Uninstall Complete window.

2.1.3 Create a user name and password (first login only)

- 1 From the Windows desktop, select [Start -> All Programs -> DVR Client Software v1.0]. The first time you log in, the Register administrator window displays.



Figure 11 Register administrator window

- 2 Enter a user name in the [Administrator] field and a password in the [Login password] and [Verify password] fields, and then click [Register]. The Administrator password must be at least 6 characters. When you enter a successful password, a success message displays, as shown in Figure 12.



Figure 12 Successful registration message

- 3 Click [OK]. The Preview window displays. You can log out of the system as described in section, 2.1.6 "Log out of the Client software," or begin setting up the software, as described in Chapter 3, "Add Devices."

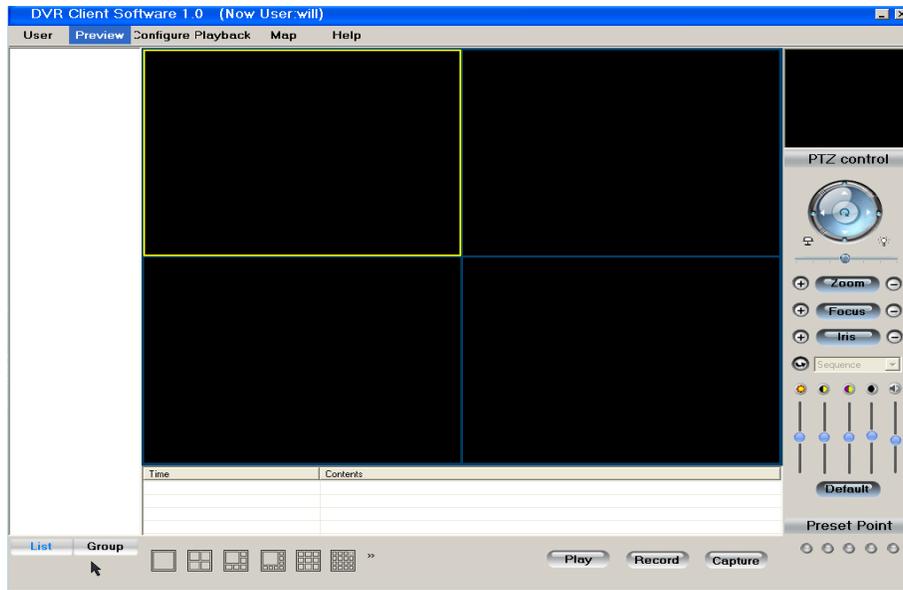


Figure 13 Preview window

2.1.4 Log into the system

- 1 After you have created an administrator user name and password, you can subsequently log into the system by selecting [Start -> All Programs -> DVR Client Software v1.0]. The Login window displays.



Figure 14 Login window

- 2 Enter your [User Name] and [Password], and then click [Login]. The Preview window displays, as shown in Figure 13.

2.1.5 Change Your Password

You can change your password from the Login window.

- 1 From the Login window, click [Modify]. The Password Information section of the Login window displays.

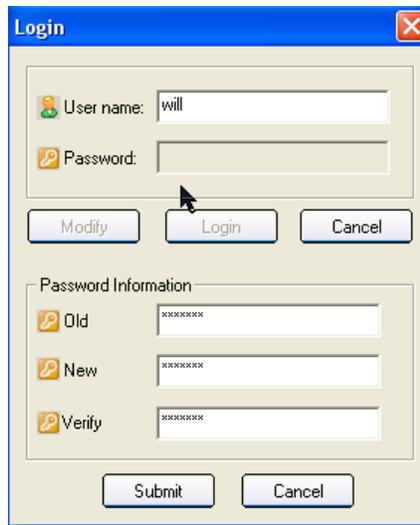


Figure 15 Password Information section of Login window

- 2 Enter the old password in the [Old] field and the new password in the [New] and [Verify] fields, and then click [Submit].

2.1.6 Log out of the Client software

To log out of the Client software, select [User -> Exit] from the main menu.

3. Add devices

3.1 Set up the Client software

Before you can use the DVR, you must add devices to the Client software through the Configure menu. You can also perform more detailed configuration, as described in Chapter 6, "Configuration."

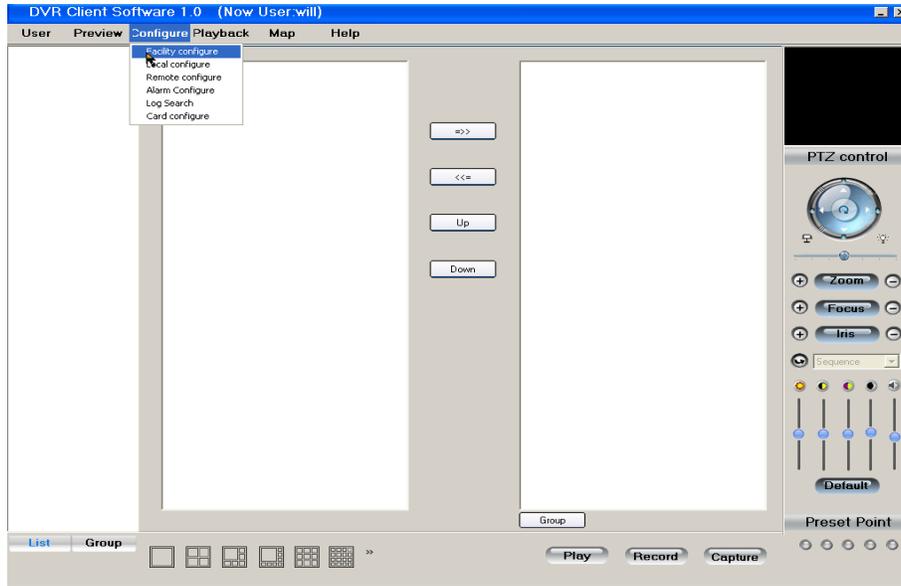


Figure 16 Configure menu

3.2 Configure an area

3.2.1 Add an area

- 1 Select [Configure -> Facility Configure], as shown in Figure 16.
- 2 Right-click in the blank area below the menu. If a root node does not appear, select [Create root node], enter a name, and click [OK]. The root node appears.
- 3 Right-click the root node, and select [Add area], as shown in Figure 17.

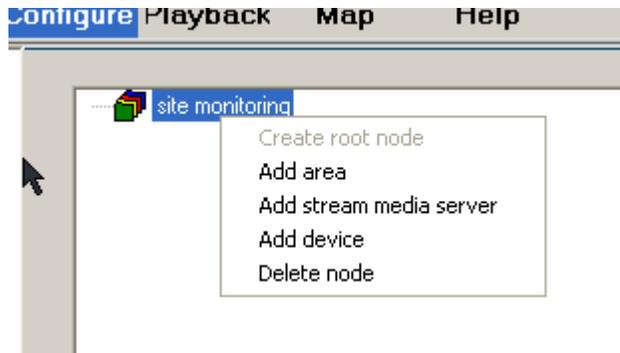


Figure 17 Add area

- 4 Enter the [Area name], and then click [OK]. A new area is created, as shown in Figure 18.

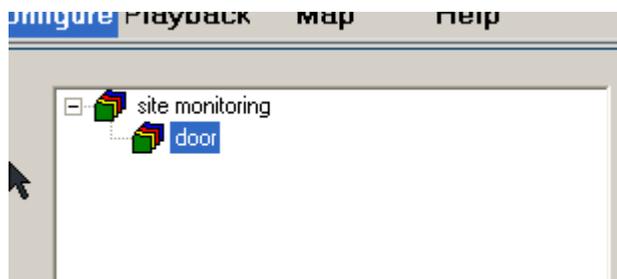


Figure 18 New area under area node

Note: The maximum number of areas is 50.

3.2.2 Delete an area

- 1 Right-click the area you want to delete. A pop-up menu displays.
- 2 Select [Delete node], and click [OK]. The selected area is deleted.

3.3 Add a stream media server

Stream media server is an application (not supplied in the standard package) that provides unlimited Client access.

To add a stream media server:

- 1 Right-click the area node to which you want to add the stream media server, and select [Add stream media server].
- 2 Enter the stream media IP address and port, and click [OK].

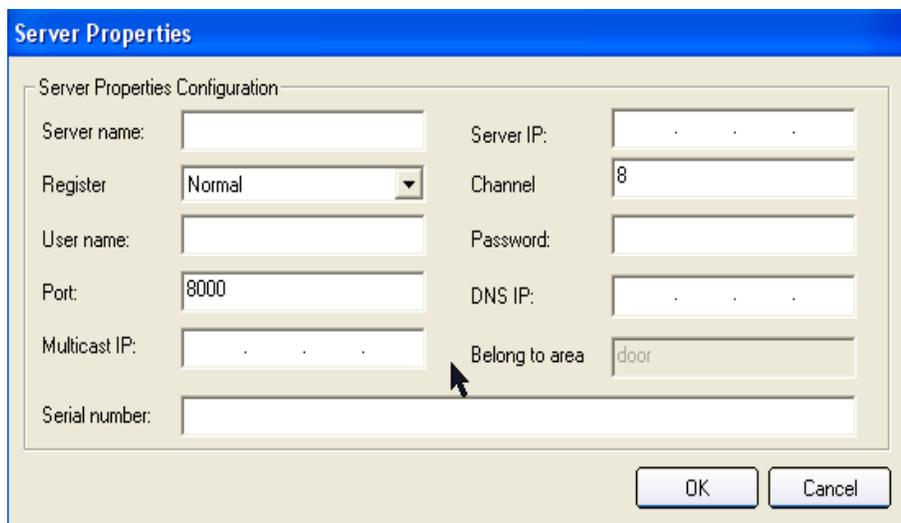
3.4 Configure the DVR

You can connect to the DVR through the following methods:

- 1.1 IP address.
- 1.2 DNS server: If the DNS server IP address is set up in the server, and the IPSEVER is running in the DNS server, you can connect through the DNS server. When you use the DNS server, the Client software finds the dynamic IP address of the server through the server name or the server serial number. To use DNS, enter the [Server name] and [DNS IP], and select [private domain] in the [Register] field. When the server is using DNS and the server dynamic IP address changes, the Client software can find the new IP address by itself.
- 1.3 Domain server: This method does not require the server IP address. To use this method, enter the domain, and the Client software connects to the corresponding server.

3.4.1 Add a DVR

- 1 Right-click the area node to which you want to add the DVR, and select [Add device]. The Server Properties window displays.



The screenshot shows the 'Server Properties' dialog box. The title bar is blue with the text 'Server Properties'. The main area is titled 'Server Properties Configuration' and contains the following fields:

- Server name: [text box]
- Register: [dropdown menu, 'Normal' selected]
- User name: [text box]
- Port: [text box, '8000']
- Multicast IP: [text box]
- Serial number: [text box]
- Server IP: [text box]
- Channel: [text box, '8']
- Password: [text box]
- DNS IP: [text box]
- Belong to area: [text box, 'door']

At the bottom right, there are 'OK' and 'Cancel' buttons.

Figure 19 Server Properties window

- 2 Configure the server properties in this window by entering the following:
 - [Server name]
 - [Server IP]
 - [Register] (server type)
 - [Channel]
 - [User name]
 - [Password]
 - [Port] for connecting to the server over the network

-
- [DNS IP]
 - [Multicast IP] address for the server; this value must be D-class in the range of 224.0.0.0 to 239.255.255.255
 - [Serial Number] for the server
- 3 Click [OK] to save the settings.
 - 4 Repeat Steps 1 through 3 to add additional DVRs.

Note: The maximum number of devices (DVRs) is 50.

3.4.2 Delete a DVR

To delete a DVR:

- 1 Right-click the DVR node you want to delete, and select [Delete node] from the menu that displays. A confirmation window displays.
- 2 Click [OK]. The software deletes this device node.

3.4.3 Reset a DVR

To reset a DVR node:

- 1 Double-click the DVR node you want to reset. The DVR Properties window displays.
- 2 Reset the unit.
- 3 Click [OK] to save settings.

3.4.4 Configure a DVR channel

To configure a DVR channel:

- 1 Double-click the channel you want to configure under the DVR node. The Channel Properties window displays.
- 2 Set the parameters you want, and click [OK] to save settings.

4. Preview

When you have finished adding devices, click [Preview] to display the camera's live video in the Preview window, shown in Figure 20.

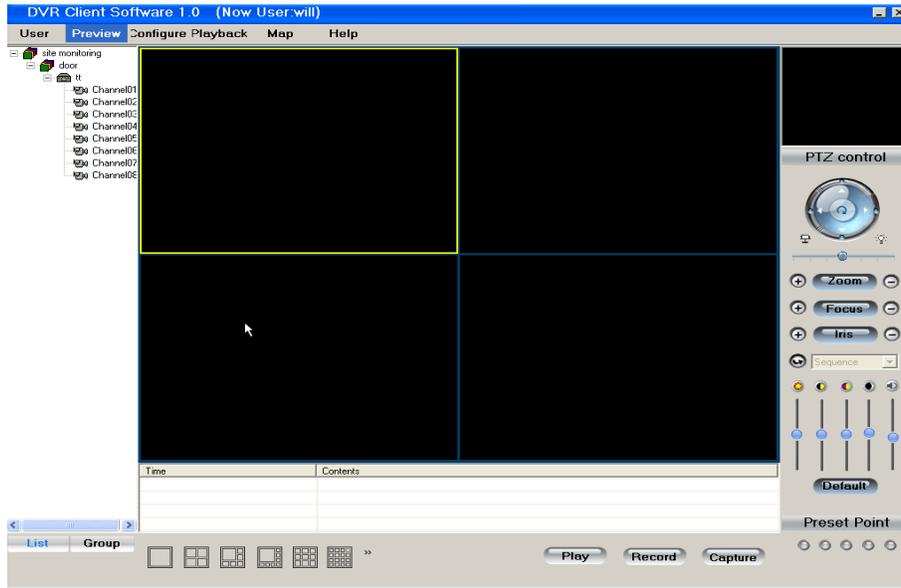


Figure 20 Preview window

Note: In Preview mode, the list of cameras displays in the left pane by default. You can display groups by clicking [Group] at the bottom of the left pane.

To start the sequence view mode:

- 1 From the Preview window, click [Play] to start the sequence display. The camera icon changes from  to  to indicate which camera video stream is being transmitted, as shown in Figure 21.

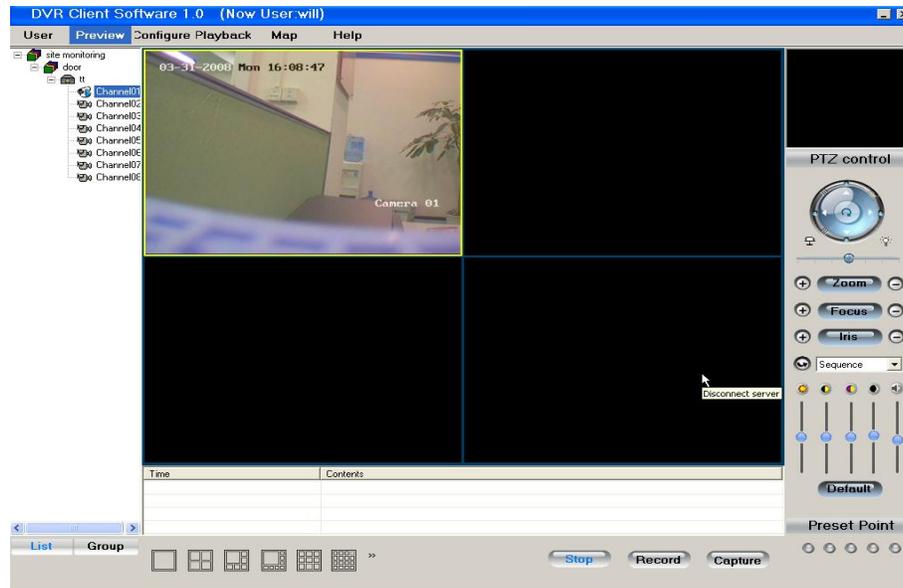


Figure 21 Preview image in Preview window

- 2 Click [Stop] to stop the sequence view.

4.1 Define a preview

To define a preview:

- 1 Select one of the preview windows.
- 2 Double-click the name of the camera (from the list in the left frame) to display the preview image in the selected window. The camera icon changes from  to  to indicate that the camera's video stream is being transmitted.

Note: If you double-click a device or group in the left pane, the software will begin the sequence display of cameras on that device or group.

- 3 Double-click the name of the camera (or group) again to stop the preview.

4.1.1 Arrange the display order of the cameras

You can define the camera display order by selecting a camera from the list and then doing any of the following:

- Click [>>] to add the camera to the preview list.
- Click [<<] to remove the camera from the list.
- Click [up/down] to adjust the camera's position in the list.

To display the cameras in the defined sequence, click [Play] in the Preview window.

4.2 Define the Group network preview channel sequence

To define a group network preview channel sequence:

- 1 Below the left pane of the Preview window, right-click [Group]. If a Group does not already exist, the pop-up menu includes only a [Create group] option. If a group already exists, it will also include a [Delete Group] option, as shown in Figure 22 and Figure 23.



Figure 22 Create group



Figure 23 Select group

- 2 Select [Create Group]. The Group Properties window displays.



Figure 24 Group properties

- 3 In the [Group] field, enter the name for the new group, and then click [OK]. The new group displays in the left pane.
- 4 Select a camera, and click [>>] to add that camera to the new group, or select a camera in the group and click [<<] to remove it from the group.
- 5 To adjust the channel play sequence of the group in the network preview, click [up] or [down].

4.2.1 Preview in Group mode

To preview in Group mode:

- 1 Click [Group] at the bottom-left of the Preview window. The groups display in the left pane.
- 2 Click [Play] to start the sequence display of the group cameras. The camera icon changes from  to  to indicate which camera video stream is being transmitted.
- 3 Double-click the group, or click [Stop] to stop preview mode.

4.3 Change the Preview window layout

The main interface of the Client software displays in a 2 x 2 window layout by default. You can select different display modes by clicking one of the buttons below the main preview window, as shown in Figure 25. Click [>>] (shown in Figure 26) next to the display modes to view additional display modes, as shown in Figure 27.



Figure 25 Display mode



Figure 26 Button

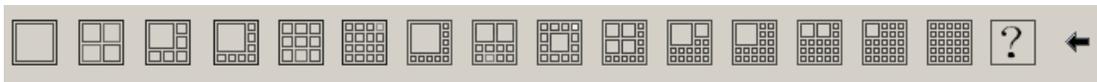


Figure 27 Other display modes

4.4 Resize a camera preview window

To resize a preview window:

- 1 Select and double-click a window to increase that window's size.
- 2 Double-click the window again to display that window in full-window mode.
- 3 Double-click a full-window display to restore the multi-window display mode.

4.5 Use Multi-Window display in full-window mode

To use multi-window display in full-window mode:

- 1 Right-click the Preview window, and select [Multi-window].
- 2 To exit full-window mode, double-click the window to restore multi-window mode.

4.6 Switch to previous or next camera

To switch to the previous or next camera:

- 1 Stop the sequence display by right-clicking the Preview window, and selecting [Stop cycle].
- 2 Switch manually to the previous camera or the next camera by selecting [Front page] or [Next page], respectively.

4.7 Start sequence display on one device or group

To start or stop the sequence display on one device:

- 1 Select and right-click the channel being previewed. A pop-up menu displays.

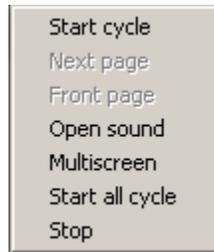


Figure 28 Start cycle

- 2 Select [Start cycle] to start the channel of this DVR. (You can have only one cycle play for each DVR.)
- 3 To stop the sequence display, right-click the channel and select [Pause cycle], or double-click the channel.

Note: The time interval of one cycle is the cycle play time in the local configuration. For more information about setting the cycle play time, refer to section, “6.1 Local configuration.”

To start or stop the sequence display on one group:

- 1 Click [Group] to display the groups in the left pane of the Preview window.
- 2 Right-click the channel you want to preview. A pop-up menu displays.



Figure 29 Group cycle

- 3 Select [Start group cycle]. The DVR will play the channel in that group. (Every channel can be played only in one-cycle mode).
- 4 To stop the cycle, right-click the channel and select [Stop cycle group], or double-click the group from the list in the left pane of the Preview window.

4.8 Capture current image

Select a preview window and click [Capture] to capture the current image and save it in the configured PC path. The captured image is saved to the path you define in the Local Configuration window. For more information, refer to Chapter 6, “Configuration.”

4.9 Set up video parameters

You can adjust the camera video parameters from the video parameters section of the Preview window.

To set up the parameters:

- 1 Select the preview window for which you want to configure the parameters.
- 2 From the video parameters section on the right side of the Preview window (shown in Figure 30), click and drag the control of the relevant video parameter to adjust it. (The parameters in left-to-right order are brightness, contrast, saturation, hue, and volume.)
- 3 To restore the default factory settings, click [Default].

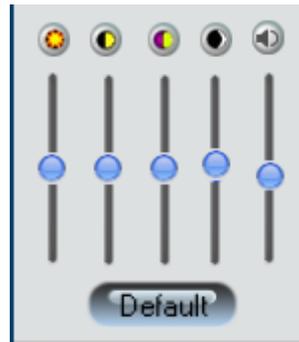


Figure 30 Video parameters

5. PTZ controls

The PTZ Control area manages direction, iris, focus, zoom, wiper, and light.



Figure 31 PTZ controls

5.1 Adjust to PTZ preset

Select [Preset], and then select a preset from the [Preset] list. The first preset in the list is a null preset. If the selected preset has been preconfigured (as defined in the next section, “5.2 Configure preset value”), the camera adjusts to the PTZ settings of that preset.

5.2 Configure preset values

To access the Preset window:

- 1 Click [Preset] to view the Preset window.

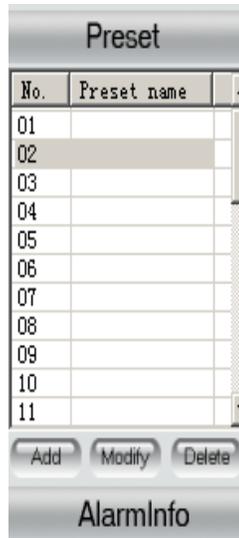


Figure 32 Preset window

To add a new preset:

- 1 Use the PTZ controls to set the direction, location, focus, zoom, wiper, and light that you want for the preset.
- 2 Click an available number (with no defined preset), and click [Add]. A window displays for naming the preset, as shown in Figure 33.



Figure 33 Add and modify preset window

- 3 Enter a name for the preset, and click [OK]. The name you entered appears in the Preset list.

To modify a preset:

- 1 Select the preset you want to modify from the [Preset] list, and click [Modify]. A window for modifying the preset name displays, as shown in Figure 33.
- 2 Enter the preset name, and click [OK].
- 3 To delete a preset, select it from the list, and click [Delete].

5.3 Set up sequence

- 1 From the left pane, right-click the camera for which you want to set a sequence. The Sequence configuration window appears, as shown in Figure 34.

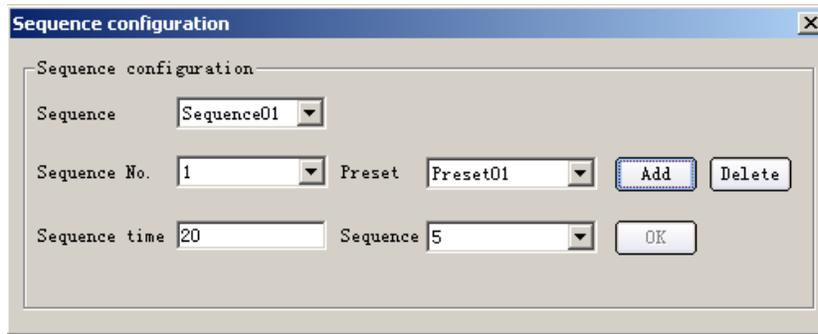


Figure 34 Sequence configuration window

- 2 Set up the sequence, and then click [Add] to add the Sequence Number.
- 3 If you want to delete the sequence number, click [Delete].
- 4 Set the [Sequence time] and sequence speed (in the [Sequence] field) in seconds, and click [OK].

Note: Ensure that your PTZ cameras support setup through remote software. For AD Speed Domes, set the sequence through the Dome menu.

6. Configuration

This chapter describes how to set up local and remote configuration.

6.1 Local configuration

- 1 From the main menu, click [Configure -> Local Configuration]. The Local Configuration Setup window displays, as shown in Figure 35.

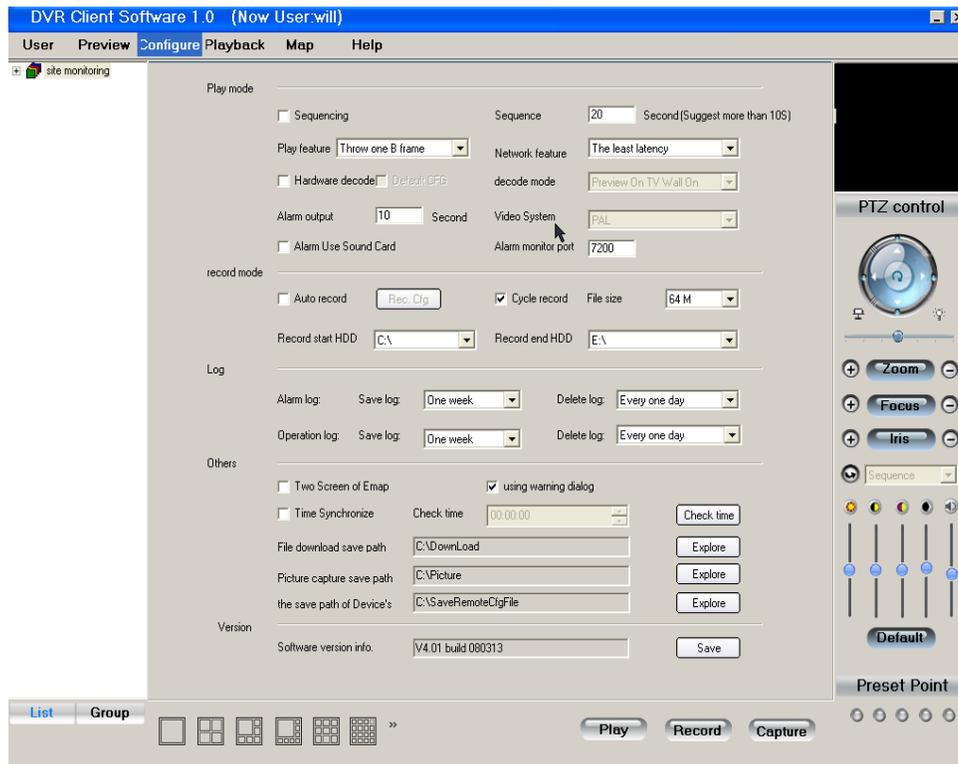


Figure 35 Local Configuration setup window

6.1.1 Play mode

On the Local Configuration window, you can set the following for [Play mode]:

- Software decode without cycle mode (default).
- Software decode with cycle mode. You must select [Sequencing] and set the cycle time in the [Sequence] field. The recommended cycle play time is greater than 20 seconds.
- Hardware decode without cycle mode (select [Hardware decode]).

Note: Hardware decode is not available with the current software version, 1.0.

- Hardware decode with cycle mode. (Select [Hardware decode] and [Sequencing], and set the cycle time in the [Sequence] field. The recommended cycle play time is greater than 20 seconds.) Hardware decode turns digital video into analog video.
- [Hardware decode] mode with [Preview on TV Wall On] or [Preview Off TV Wall On].
- [Play Feature], set to [Throw no frame], [Throw one B frame], or [Throw two B frames].
- [Network feature], set to [The least latency], [The best RealTime], [Less latency, more fluency], or [The most fluent].
- [Alarm output] delay time, set in the range of 5 to 100 seconds.

6.1.2 Record mode

The Client software can save the live stream from the DVR through the network. You can specify cycle recording to overwrite the earliest recorded files when no free space exists on the PC HDD.

To set up Client recording:

- 1 In the [record mode] section of the Local Configuration window, select [recording start HDD] and [recording end HDD].
- 2 Set any of the following:
 - Manual recording, no cycle mode (default mode).
 - Manual recording and cycle mode: select [cycle record].
 - Auto recording and no cycle mode: select [auto record].
 - Auto recording and cycle mode: select [auto record] and [cycle record].
 - Recording File Size: The maximum size of a record file. If you select [64 M], the monitoring software makes a new record file every 64 M.
 - If you select [Auto record], you must set up a recording schedule, as described in the next procedure. You must also reboot the monitoring software after you change the auto record parameters.

To set up auto recording:

- 1 Select [Auto Record] under [record mode], and then click [Rec. Cfg] to view the Record Schedule menu, as shown in Figure 36.

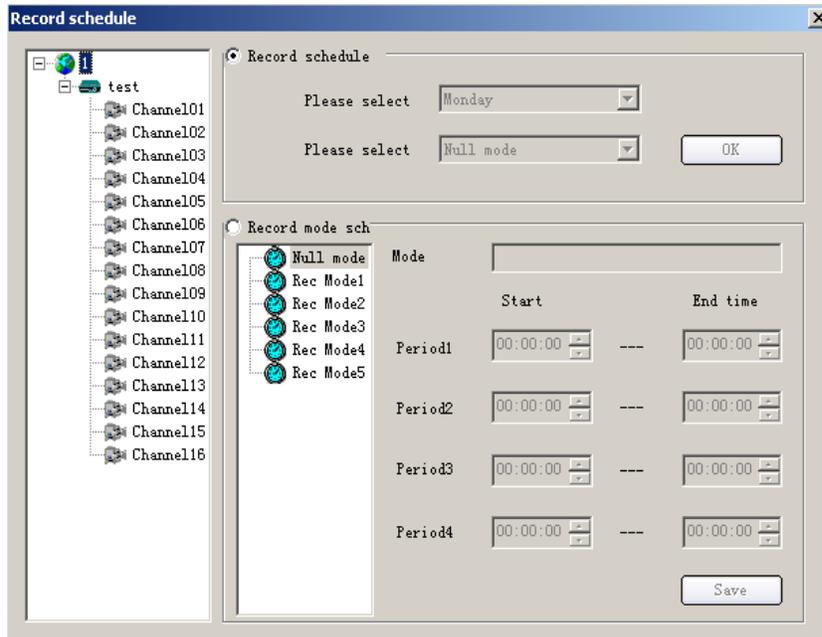


Figure 36 Record schedule window

- 2 Select a channel or a device from the left pane. If you select a channel, you are configuring the record schedule for that channel only. If you select a device, you are configuring the record schedule for all of its channels.
- 3 Select [Record mode schedule] to set the record mode. Every recording has one mode name and four record periods. Mode names must be unique, and you cannot set up a null mode.
- 4 Select the record mode from the list, set up the [Start] and [End times] for each period, and then click [Save].
- 5 Select [Record Schedule]. Select the time to record from the time list, and select a record mode from the mode list.
- 6 Click [OK].
- 7 If the time configured in the Record Schedule matches the current software time, the Client starts auto recording, regardless of whether the channel is in live preview. If the related channel is in live preview mode, the icon changes to . If not, the icon changes to .
- 8 Reboot the software.

To record manually:

If auto recording is disabled, you can stop and start recording on a channel manually when you are in live preview mode.

- 1 Select a channel that is being previewed, and click [Record]. The record button becomes blue, and recording begins.
- 2 Click [Record] again. The Record button returns to its default color, and recording stops.

Note: When the Client software is set for cycle recording, it will start to delete files if less than 2 GB is available on the hard disks. If it is not set to cycle record, it will stop recording when less than 2 GB is available on the hard disks.

6.1.3 Log

In the [Log] section of the Local Configuration window, you can specify the amount of time to save alarm and operation logs, and intervals at which to delete them.

- For the [Alarm log] and [Operation log], select the amount of time to save those files from the [Save log] lists. You can set any of the following: [7 days], [15 days], or [30 days].
- For the [Alarm log] and [Operation log], select the intervals at which to delete files from the [Delete log] list. You can set any of the following: [every day], [every 3 days], or [every week].

6.1.4 Others

You can also set the following on the Local Configuration window:

- [Time synchronize]: Click [Check time], and the monitoring software will automatically synchronize the DVR time with the PC time. Alternatively, specify a [Check time] to manually synchronize the times on the DVR and PC.
- [File download save path]: Click [Explore], and navigate to the path to store the DVR downloaded files.
- [Picture capture save path]: Click [Explore], and navigate to the path to store the captured images.

The [Software Version info.] field lists the monitoring software version.

6.2 Remote configuration

Use the Remote Configuration window to set the parameters on the DVR unit. The remote configuration interface varies for different DVR models. For details, refer to the DVR user manual.

To access the Remote Configuration window:

Click [Configure -> Remote Configuration] to display the remote configuration window, as shown in Figure 37.

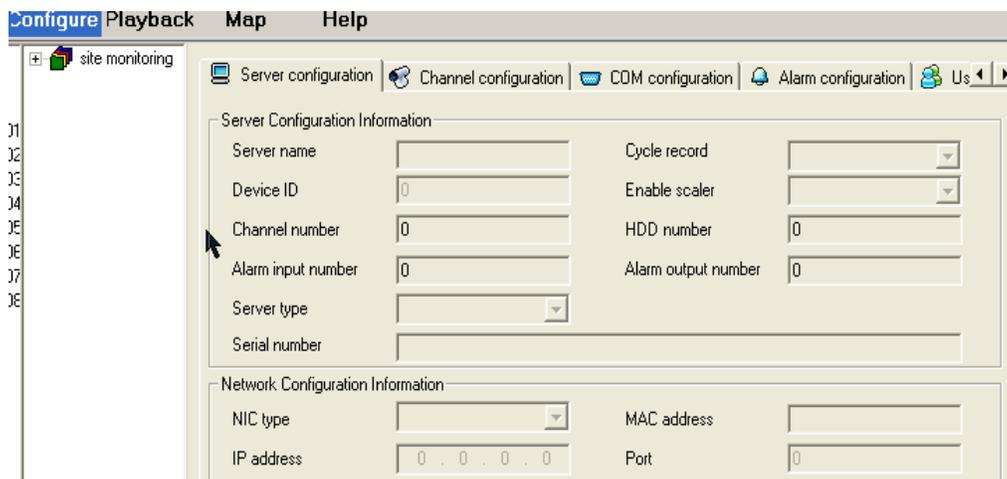


Figure 37 Remote configuration window

6.2.1 Server configuration

The Server configuration tab includes three sections: Server Configuration Information, Network Configuration Information, and Server Version Information.

The screenshot shows a web-based configuration interface for a server. It has four tabs: 'Server configuration' (selected), 'Channel configuration', 'Network configuration', and 'COM confi'. The 'Server configuration' tab is divided into three sections:

- Server Configuration Information:** Fields include Device name (Embedded Net DVR), Device ID (1), No of Channels (16), Alarm input number (16), Device type (DVR_HD_S), Serial number (TVR16000220090307ABWRO91340000WCVU), Cycle record (YES), Enable scaler (Off), HDD number (1), and Alarm output (4).
- Network Configuration Information:** Fields include NIC type (10M/100M auto), IP address (172.8.111.250), Subnet mask (255.255.255.0), Remote host IP (0.0.0.0), Multicast IP (0.0.0.0), NAS host IP (0.0.0.0), MAC address (00:40:35:b1:77:b0), Port (8000), Gateway (172.8.111.1), Remote host port (0), HTTP port (80), and NAS directory.
- Server Version Information:** Fields include Firmware version (V2.1 build 090413), Encode version (V4.0 build 080310), Hardware version (0xa0000782), and Front panel (6).

Figure 38 Server configuration tab

To set the Server configuration:

- 1 Select the server to configure.
- 2 Set the following in the [Server Information] section:
 - [Server name]: Maximum of 32 characters.
 - [Device ID]: Maximum device number is 255.
 - [Cycle record]: To overwrite the HDD when it is full, select [YES]. To stop recording when the HDD is full, select [NO].

Note: The [Channel number], [HDD number], [Alarm input number], [Alarm output number], [Server type], and [Serial number] all depend on the DVR model and therefore cannot be modified.

- 3 Set the following in the [Network Configuration Information] section:
 - [IP address], [Port], and [Mask]: The default port is 8000.
 - [NIC type]: Default is [10M/100M Auto]. You can also select [10M Half-Dup], [10M Full-Dup], [100M Half-Dup], or [100M Full-Dup].
 - [DNS host IP]: When the server uses a private domain, enter the DNS server IP address.

- [Multicast IP]: For multicast, enter a D-class IP address in the range of 224.0.0.0 to 239.255.255.255.
- [Gateway]: If the monitoring software goes through a gateway to connect to the server, enter the gateway address.
- [NAS host IP] and [NAS directory]: If the system is using a network storage server, enter the NAS IP address and its directory.
- [Remote host IP] and [Port]: Enter the IP address and port of the PC that is used for receiving alarm information.
- [PPPoE parameters]: To use the PPPoE dial-up function, select [PPPoE], and enter the [User Name] and [Password].
- [HTTP port]: Enter the port that the system can use to connect to the server using Internet Explorer.

Note: You cannot modify the [MAC address], [PPoE IP address], or any of the items in the [Server version information] section.

- 4 Click [Confirm] to save all settings.
- 5 If any parameters you changed require the unit to be restarted, click [Reboot].

6.2.2 Channel configuration

Use the Channel configuration tab to configure camera settings on the DVR.

- 1 Click the [Channel configuration] tab, and set any of the following:
 - [Select channel]: Select a channel on the server (DVR).
 - [Channel name]: The camera title, maximum of 32 characters.
 - [Stream type]: Select [Audio & Video] stream or [Video] stream only.
 - [Max bit rate]: Set the maximum bit rate of the video stream. You can set any of the following (in bps): [32K], [48K], [64K], [80K], [96K], [128K], [160K], [192K], [224K], [256K], [320K], [384K], [448K], [512K], [640K], [768K], [896K], [1M], [1.25M], [1.5M], [1.75M], [2M], and [User define].

The max bit rate selection depends on the recording resolution and frame rate. A typical setting is recommended below:

CIF @ Real time: 384K~768Kbps

2CIF/DCIF @ Real time: 512K~1Mbps

4CIF @ Real time: 1.25Mbps~1.75Mbps

The actual setting depends on the camera, background, image quality, and so on.

- [Frame rate]: Frames per second. Select from the following: [Full] (PAL @ 25 FPS, NTSC @ 30FPS), [20], [16], [12], [10], [8], [6], [4], [2], [1], [1/2], [1/4], [1/8], and [1/16]. For lower frame rates, you may select a low bit rate size.
- [Image quality]: Six options available. They are valid when a variable bit rate is selected.
- [Resolution]: Recording resolution. Select from [QCIF], [CIF], [2CIF], [DCIF], or [4CIF].

Note: 4CIF recording only available on ADEMD8P000TV & ADEMD16P000TV.

- [Bit rate type]: [Variable] or [Fixed].
- [Frame type]: [BBP] or [P].

- [Recording schedule]:
 - Select [Schedule], and then click [Setup] to view the Record schedule setup window, as shown in Figure 39.

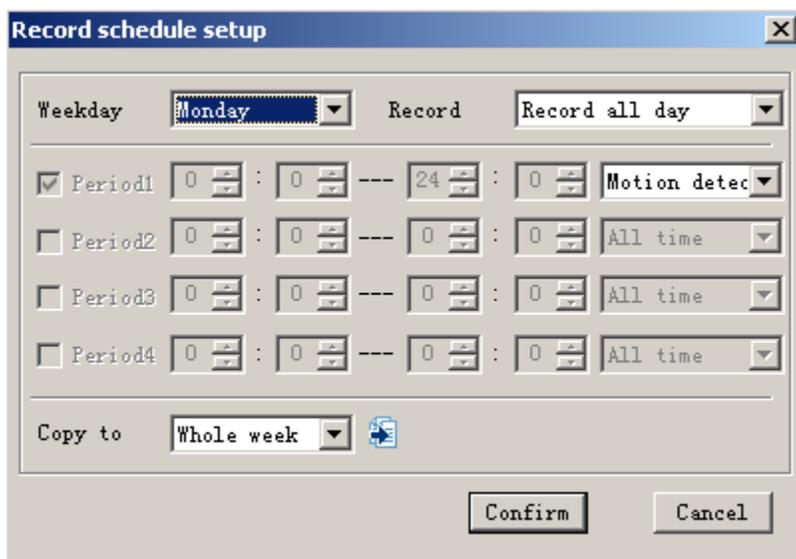


Figure 39 Record schedule setup window

- From the [Record] list, select a recording mode.
- If you select [All day Record], you can set only the [Record] type.
- When you have finished setting up the schedule, click [Confirm] to save your changes and return to the Channel Configuration tab. If you do not want to save your changes, click [Cancel].
- [Pre record time]: Recording time before an alarm happened: [no prerecord], [5s], [10s], [15s], [20s], [25s], [30s], or [maximum].
- [Post record time]: Recording time after an alarm stopped: [5s], [10s], [30s], [1min], [2min], [5min], [10min], [15min], or [30min].
- Set up [motion detection], [video signal loss], [view tamper alarm], and [privacy mask]: For each, select the option and set up the corresponding [Area], [Schedule], and [PTZ link]. Click [Area Setup] to display the Set motion detect areas window, as shown in Figure 40.



Figure 40 Set motion detect area

- a. [Show motion detection area]: Select [Show motion detection area] to display the area set up previously.
 - b. [Set motion detection area]: Select [Setup motion areas]. Press the [Ctrl] key, and move the mouse to the preferred point. Click the left mouse button and drag the cursor to draw a motion area. Release the mouse to confirm the motion area. You can draw multiple areas for motion detection. There is a maximum of four areas for privacy mask, and one area for tamper alarm.
 - c. [Select sensitivity]: For motion detection you can select seven sensitivity options. The range is 0 (minimum) to 5 (maximum). For the tamper alarm, you can select four options: [close], [low], [normal], and [high], by moving the slider control from left to right.
- Click [Schedule] to display the Set motion detect schedule window, as shown in Figure 41.

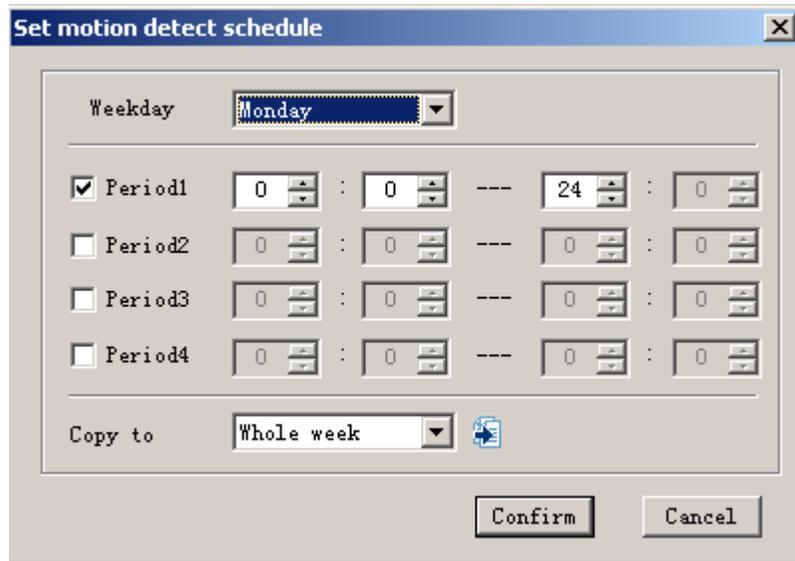


Figure 41 Set motion detect schedule

- Click the [PTZ link] to open the Motion detect link window, as shown in Figure 42.

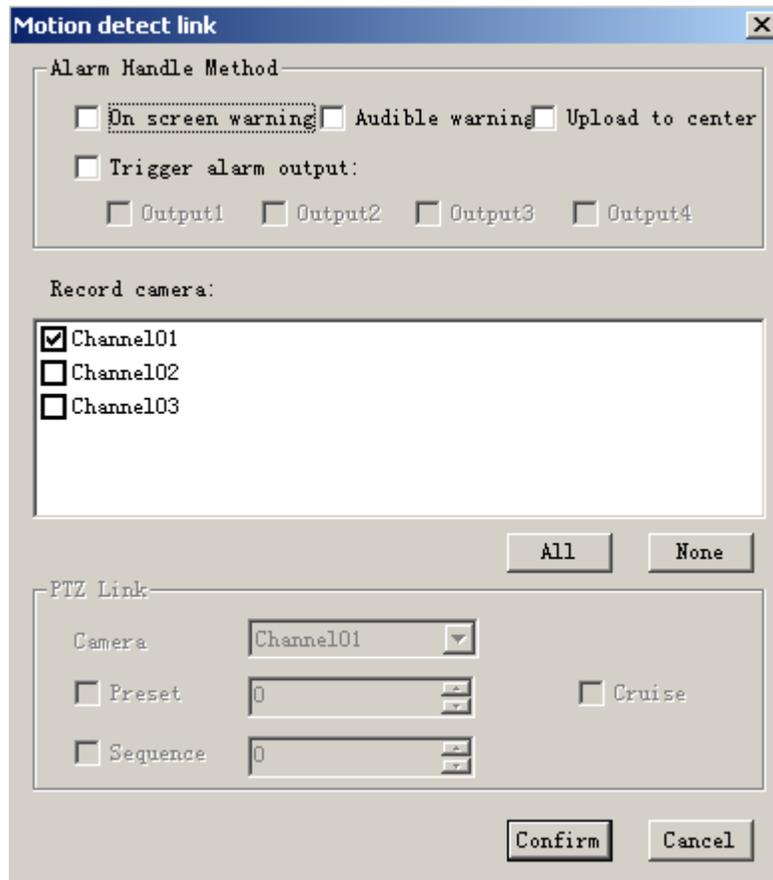


Figure 42 Motion detect link window

- Under [Alarm Handle Method], select the PTZ handling method in case of an alarm.
 - Under [Record camera], select the channel to begin recording in case of an alarm.
 - Click [Confirm] to save your changes and return to the Channel configuration tab. If you do not want to save your changes, click [Cancel].
 - [Setup OSD properties]: Select whether to display OSD. Set the display position, whether to display a weekly schedule, and set the OSD properties ([opaque & steady]; [opaque & flashing]; [transparent & steady]; or [transparent & flashing], [to display]) and the OSD type.
 - [Setup the channel name properties]: Set whether to display channel name, and set the display position.
 - [Overlay text]: Enter text that you want to overlay on the channel. There is a maximum of 4 lines of text with 44 characters on each line.
- 2 Click [Confirm] to save all settings on the Channel configuration tab.
 - 3 If any parameters you changed require the unit to be restarted, click [Reboot].

6.2.3 COM configuration

- 1 Select the [COM configuration] tab in the Remote Configuration window to configure parameters for the RS ports.
- 2 Set the parameters for the [RS232] and [RS485] ports.
- 3 Click [Confirm] to save all settings on the COM configuration tab.
- 4 If any parameters you changed require the unit to be restarted, click [Reboot].

6.2.4 Alarm configuration

- 1 Select the [Alarm configuration] tab in the Remote Setup window to configure the DVR alarm and exceptional alarm parameters.
- 2 Set the Alarm input response policy: Select [Method] and click [Schedule]. The Set alarm input schedule window displays, as shown in Figure 43.

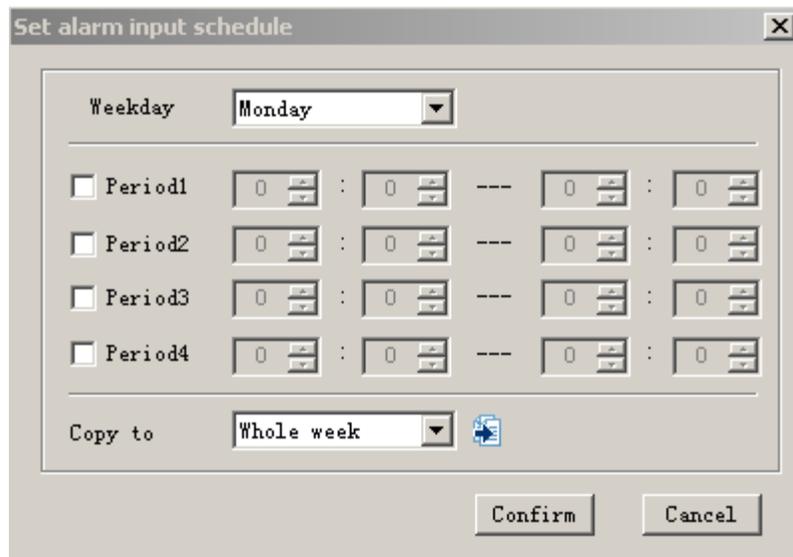


Figure 43 Set alarm input schedule

- Select the day and time periods for alarm input.
 - Click [Confirm] to save your changes and return to the Alarm configuration tab. If you do not want to save your changes, click [Cancel].
- 3 Click the [PTZ link] to open the Alarm input link window, as shown in Figure 44.

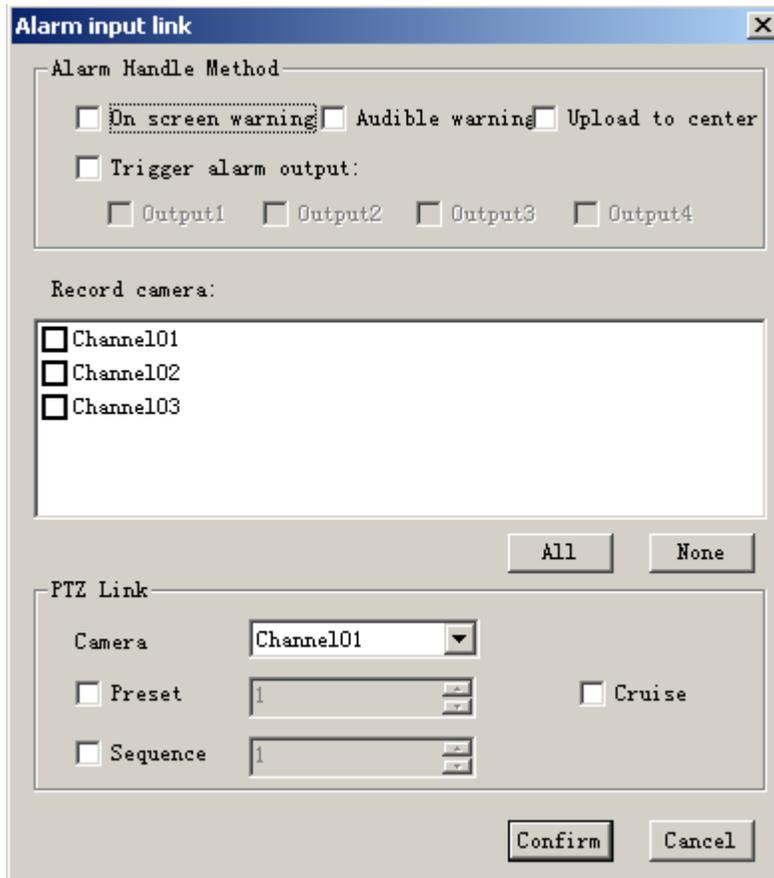


Figure 44 Alarm input link

- a. Under [Alarm Handle Method], select the PTZ handling method in case of an alarm.
 - b. Under [Record camera], select the channel to begin recording in case of an alarm.
 - c. Click [Confirm] to save your changes and return to the Channel configuration tab. If you do not want to save your changes, click [Cancel].
- 4** Set the Alarm output policy:
- a. Click the alarm output [Schedule]. The Set alarm output schedule window displays, as shown in Figure 45.

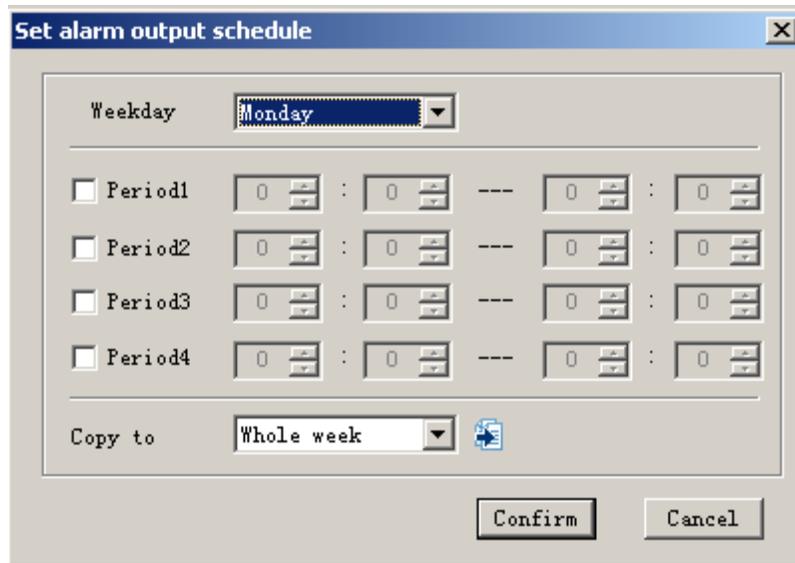


Figure 45 Set alarm output schedule

- b. Select the day and time periods for alarm output.
 - c. Click [Confirm] to save your changes and return to the Alarm configuration tab. If you do not want to save your changes, click [Cancel].
- 5 [Exception configuration]: Select the exceptions you want to set. For example, you can set the following exceptions: [HDD full], [HDD error], [network broken], [illegal access], [video standard not matched], and so on. You can also set up the exceptions response policy on the Exception configuration tab.

6.2.5 User configuration

In the User configuration tab, you can set up DVR users, including user names, passwords, user rights, and so on.

- 1 Click the [User configuration] tab in the Remote Configuration window.

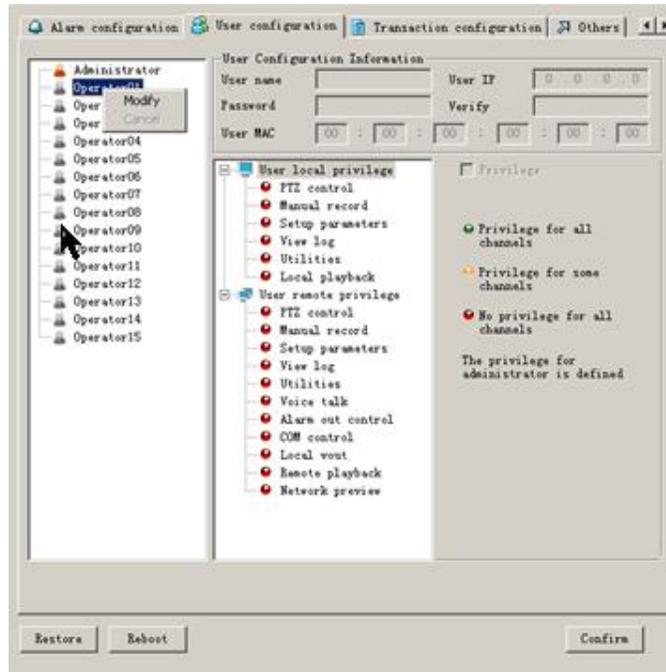


Figure 46 User configuration tab

- 2 Select and right-click a user. A pop-up menu displays, as shown in Figure 46.
- 3 Click [Modify]. The user's properties display. (You can click [Cancel] to exit this window.)
- 4 Edit the user's properties.
- 5 Click [OK], and then click [Save Para.] to save all settings.
- 6 Click [Reboot] to reboot the DVR and make the new parameters take effect.

6.2.6 Transaction configuration

- 1 To configure the parameters for DVR transactions, select the [Transaction configuration] tab in the Remote Configuration window (Figure 47).

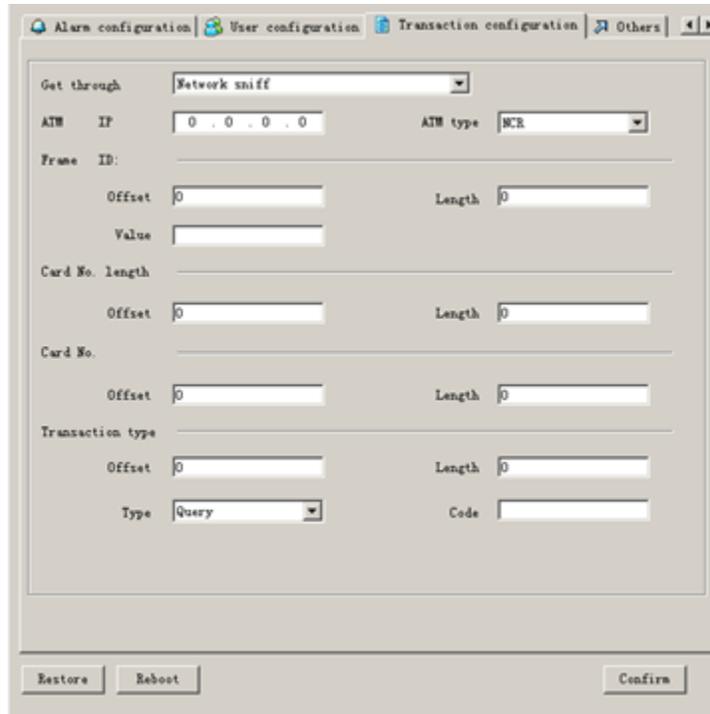


Figure 47 Transaction configuration tab

- 2 Set the parameters, and then click [Confirm] to save your settings.
- 3 Click [Reboot] to reboot the DVR and make the new parameters take effect.

6.2.7 Others

- 1 Click the [Others] tab in the Remote Configuration window to access the features for upgrading the server remotely and formatting the hard disks.
- 2 To upgrade a server remotely, select [Remote Upgrade], click [Browse], navigate to and select the Upgrade File, and click [Upgrade]. When the upgrade is complete, the status tray displays, "Status: Server Upgrade finish."
- 3 To format a hard disk, select [Format Hard Disk], select the disk to format, and click [Format]. The system indicates that a format is in progress, and when the formatting is complete, the system displays the message, "Format Hard Disk Successful."

NOTE: Click [Reboot] to reboot the DVR after you format a hard disk.

6.3 Alarm configuration

You can configure alarms for each device, and you can link alarm types from the Alarm configure window.

To configure alarms:

- 1 In the left pane, right-click the device for which you want to set an alarm. A pop-up menu displays.
- 2 Select [OnGuard] to arm the alarm or [CancelGuard] to disarm the alarm.



Figure 48 OnGuard

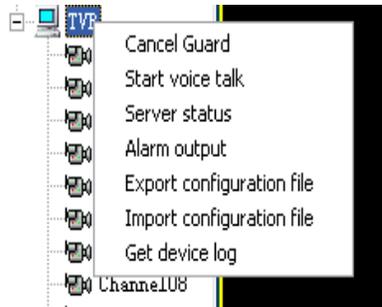


Figure 49 CancelGuard

To link alarm types:

- 1 From the main menu, select [Configure -> Alarm Configure] to open the alarm configuration window as shown in Figure 50.

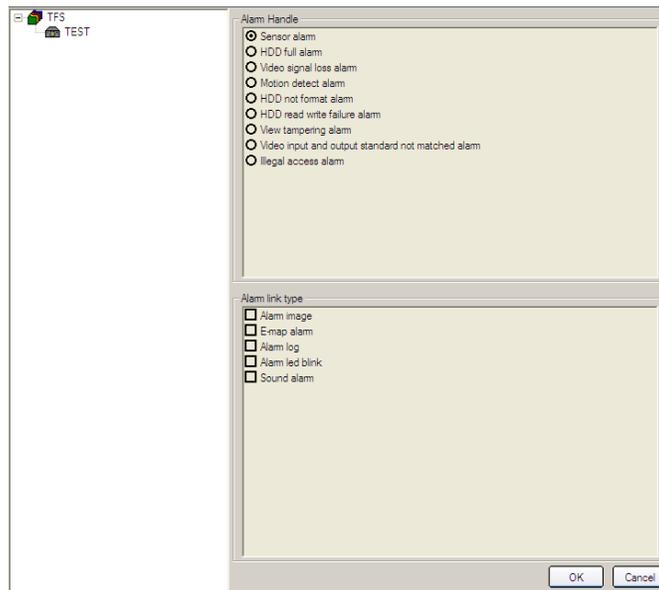


Figure 50 Alarm configure window

- 2 Select a device to configure from the list, and under [Alarm Type], select an alarm type. The alarm link type section displays the configured alarm link types for that device, as shown in Figure 51.

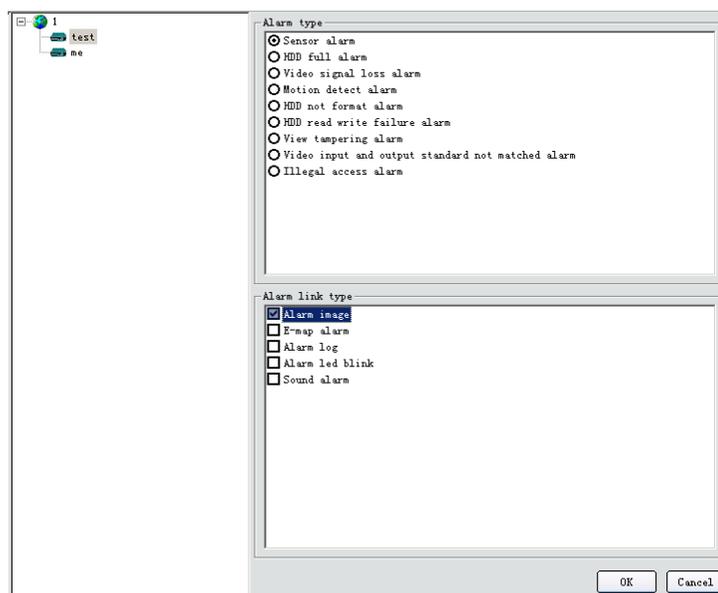


Figure 51 Alarm setup window

- 3 Select or cancel any of the following alarm link types for each alarm type.
 - [Alarm Image]: When a new alarm occurs, a live image from the camera displays in an Alarm image window, as shown in Figure 52. When the system receives multiple alarms simultaneously, the alarms are queued according to the order in which they occurred.



Figure 52 Alarm image

- [E-map Alarm]: When a new alarm occurs, the corresponding hot spot for the corresponding channel flashes. Click the flashing hot spot to acknowledge the alarm, and it will stop. The system considers the alarm to have been addressed.

- [Alarm Log]: When an alarm message is received, the alarm message list on the main interface shows the corresponding alarm information. Double-click the alarm message to acknowledge it. Right-click any alarm message, and the system shows a window where you can clear the alarm information list. Otherwise, when the total number of alarm message reaches 5,000, the system automatically clears all the alarm messages.
- [Alarm LED Blink]: An alarm light flashes red in one of a series of LEDs, as shown in Figure 53. Click the alarm light to check the alarm message, and the system withdraws the flashing alarm. The first light indicates a signal alarm, the second indicates a motion detection alarm, the third indicates a signal missing alarm (or shelter) alarm, and the fourth indicates all other alarms.



Figure 53 Alarm LED blinking

- [Sound alarm]: An audio alarm uses the ding.wav file in the installation directory.
- 4 Click [OK] to save your changes.

6.4 Local log search

- 1 From the main menu, select [Configure -> Log Search] to display the Log Search window, as shown in Figure 54.

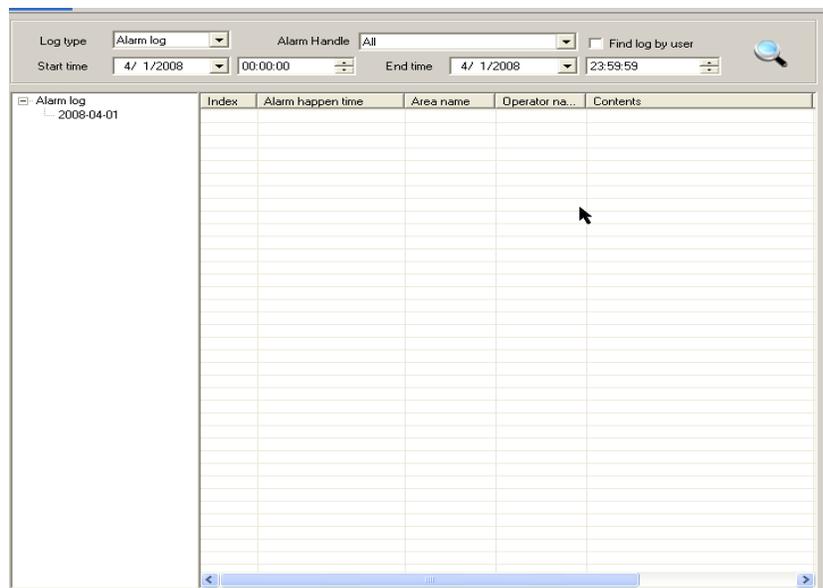


Figure 54 Log Search window

- 2 From the left pane, select [Area], [Server], or [Channel].
- 3 Select the [Log type], [Start time], and [Stop time] from those lists.
- 4 Click the search icon to display the related logs.

-
- 5 Click the logs from the list on the left to display the log day by day.

6.5 Decoder module configuration

The decoder module configuration is not available with the current software version.

7. Playback

The Client software supports three playback modes: local playback, remote playback, and picture playback.

7.1 Local playback

Local playback is the playback of files recorded by the remote monitoring software on the PC. Local playback does not support local alarm file search.

- 1 From the main menu, select [Playback -> Local Playback]. The Local Playback window displays, as shown in Figure 55.

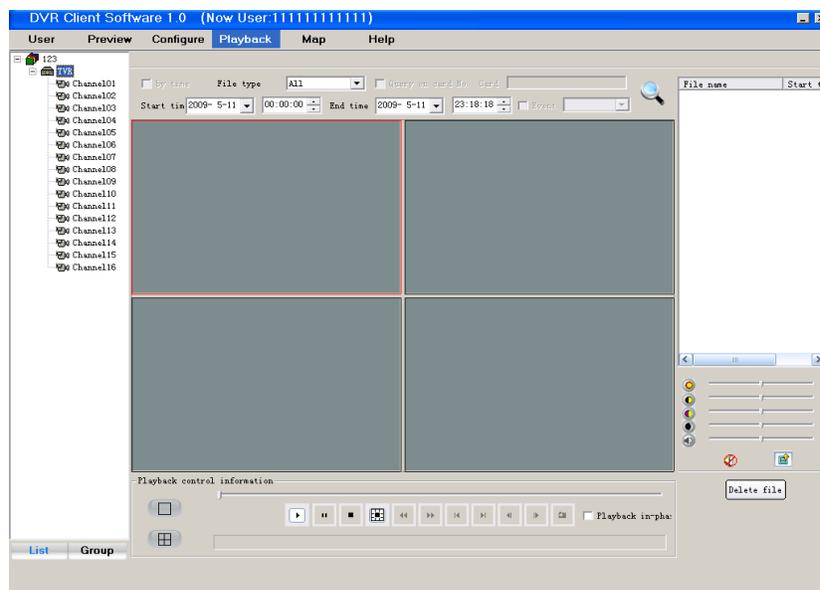


Figure 55 Local playback window

- 2 To search for files, select a channel to search from the camera list in the left pane, select a [File type] (and a [Start time] and [End time] for the search, if you want to limit the search by file type or time), and then click the magnifying glass icon. All files display that match the selected channel and the file type within the specified time range.
- 3 To play files, drag a file to the playback window, or select a file and then click the [Play] button. 
- 4 To delete files, select and right-click the files you want to delete from the file list, and select [Delete file].

7.2 Remote playback

Remote playback is the playback of files recorded on remote DVRs. The software does not support remote command file search. You can search for files either by file type or by time. Figure 56 shows the Remote playback window.

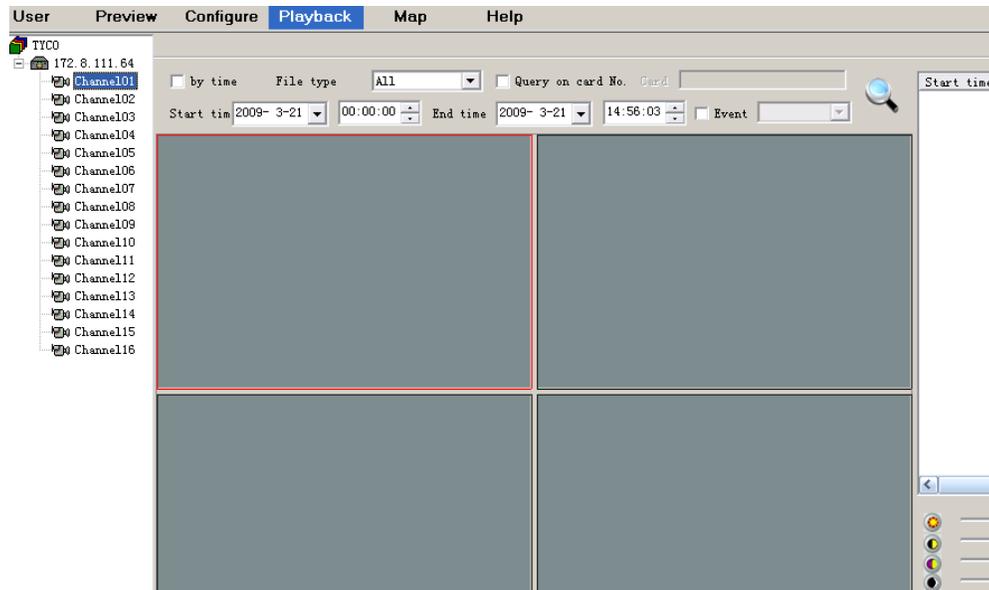


Figure 56 Remote playback window

Note: [Event] option in Figure 56 is not supported in the TVR-VS

7.2.1 Playback by file type

To search for files by file type, select a [channel] to search from the camera list in the left pane, select a [File type], and then click the magnifying glass icon. All files that match the selected channel and the file type display.

To play files:

Drag the file you want to play to the Playback window, or select a file and then click the [Play] button.



To download recorded files to the local PC hard drive:

From the file list, right-click the files to download, and click [Start Download]. The software downloads the selected files to the folder defined in the local settings.

7.2.2 Playback by time

To search for files by time, select [by time] on the Remote Playback window, and specify a [Start time] and [End time]. Then, select the channel you want to search, and click the [Play] button  to play the files that match the time range you specified in the channel you specified.

To download a file:

Select the file, and click [Start Download].

To save part of a recorded file:

- 1 Select any window that is playing, and click [Start save]. A Save As window displays.
- 2 Enter the name you want to use to save the file, and click [OK]. The software saves the remote video recording file from the present position to the end of the file.

7.2.3 Control buttons

Figure 57 shows the control buttons in the Local and Remote Playback menus.

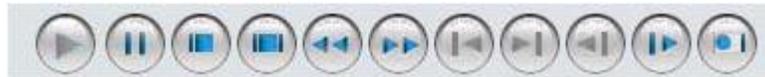


Figure 57 Local and Remote Playback control buttons

The Local and Remote Playback control buttons work as follows:



Play, or return to normal speed play.



Pause.



Stop.



Stop all files that are currently playing.



Decrease playback speed, down to 1/16 of normal speed.



Increase playback speed, up to 16 times normal speed.



Return to the beginning of recording files, and start playing them again.



Fast-forward to the end of the file.



Move back one frame; only available for local playback.



Single-frame playback.



Capture image; available for normal or single-frame playback.

7.3 Picture playback

Picture playback is the playback of pictures that were captured by the monitoring software and are stored on the local PC. Figure 58 shows the Picture Playback window.

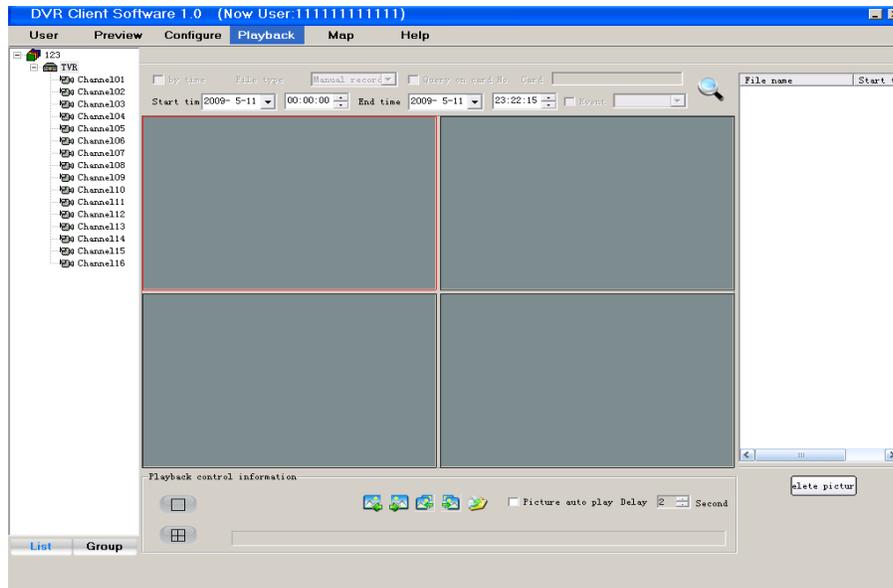


Figure 58 Picture playback window

Unlike local and remote playback, picture playback can search by area or by equipment. Select [area], [equipment], or a [channel], and then click the magnifying glass to search. All pictures that match the search criteria appear.

You can drag a file to the Playback window, play selected pictures, and browse pictures in the [Playback control information] panel at the bottom of the window.

7.3.1 Picture playback control buttons

The Picture Playback control buttons work as follows:



Return to the previous picture.



Move forward to next picture.



Play the previous picture: All playback windows display the previous picture until every window displays the first picture in the list.



Play the next picture: All playback windows display the next picture until every window displays the last pictures in the list.



Save as: Saves the present picture of the selected window.

When you select [Auto Picture Playback], the window starts a sequence display based on the defined delay interval.

All playback modes (except Remote Playback by Time) support one-window or quad-window display,



One-window playback mode



Quad-window playback mode

8. User rights management

To manage users of the Remote Monitoring software and their user rights, select [User -> Management] from the main menu.

8.1 Add and delete users

All users (except the super user) must be associated with a certain area. The super user is registered at the initial startup of the monitoring software. You can add other users through the User management window, shown in Figure 59.

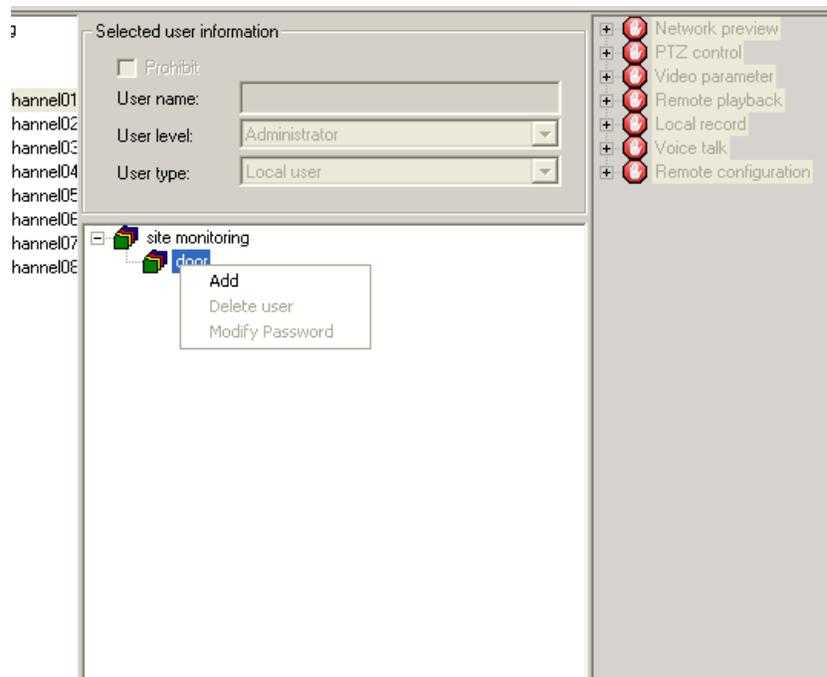


Figure 59 Add users

To add a new user:

- 1 In the User management window, right-click the area to which you want to add the user, and then select [Add]. The Add window appears.

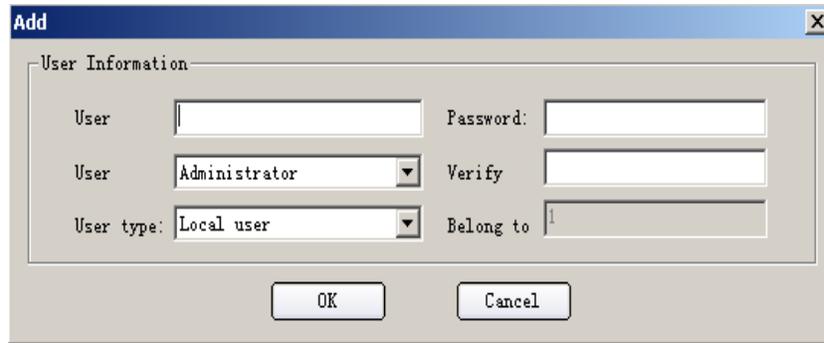


Figure 60 Add user information

- 2 Enter the information for the new user, including user name, password, user role, and type of user. You must specify a user and user type with less authority than you have. You cannot add users with more authority than you have.

User-level definition (from high to low priority):

- User level: Registered super user > Super user > Advanced user > Common user
- User type: Network user > Local user

- 3 Click [OK] to save your changes.

To delete a user:

- 1 Right-click the area from which you want to delete the user, and select [Delete user].
- 2 Select the user to delete, and click [OK].

8.1.1 Modify users

- 1 From the User management window, select a user. The user's information displays in the User management window.

Note: The super user and advanced user have the right to modify other selected user's control authority, such as PTZ control and video parameters. Common users do not have those authorities. Also, you can only modify the rights for other users who have less authority than you have.

- 2 Right-click the authority type, and then select or remove the authorities you want to configure for the selected user, as shown in Figure 61.

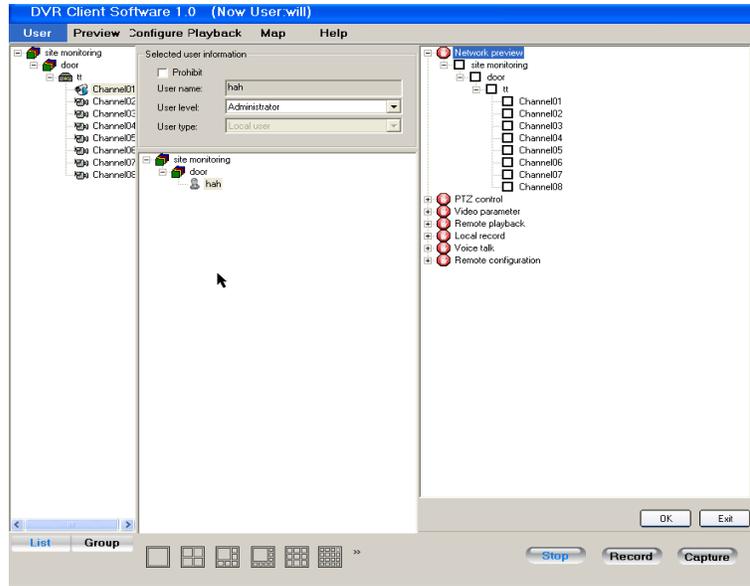


Figure 61 User rights configuration

- 3 Click [OK] to save your changes.

8.3 Change users

From the main menu, select [User ->Switching User], and enter the new user's [User name] and [Password] in the window that displays.

8.4 Set up voice talk

Users who have rights for voice talk can configure voice talk to enable voice communication with a specific DVR. To use the voice talk feature, you must install a speaker and microphone on the DVR (Audio Out and Line In).

Note: This feature is not supported in Multicast Mode).

To set up voice talk:

- 1 From the left-pane, right-click a DVR, and select [Start voice talk], as shown in Figure 62.

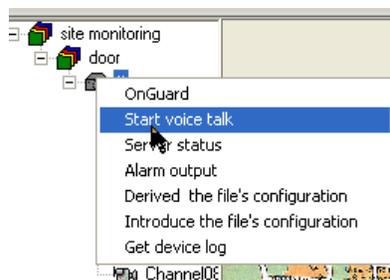


Figure 62 Voice talk

Note: A Client can only support one voice talk at a time, so a new voice talk will terminate an existing voice talk.

8.5 Server status

You can use the monitoring software to view the Server (DVR) status.

- 1 Select and right-click a DVR. A pop-up menu displays.
- 2 Select [Server Status], and then click [Fetching Status]. The Client software displays the server's current work status. Figure 63 is an example of the DVR status display.

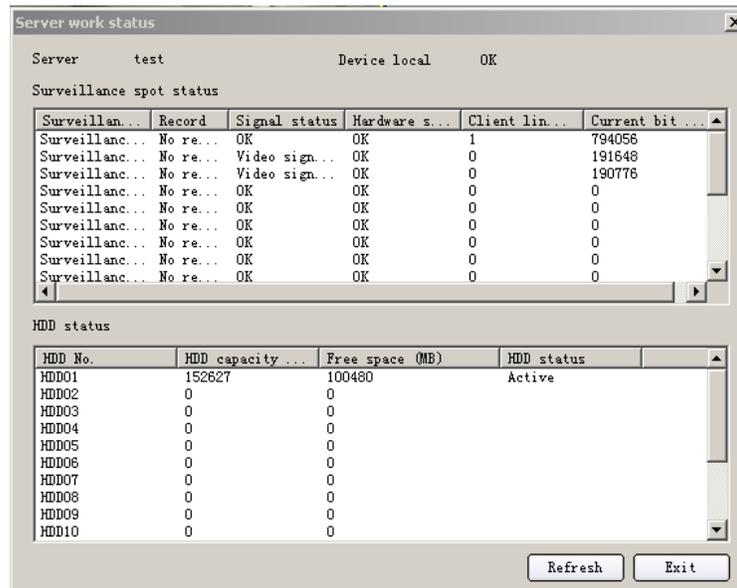


Figure 63 Server work status window

8.6 Export device configuration

- 1 Right-click the device for which you want to export the configuration. A pop-up window displays, as shown in Figure 64.



Figure 64 Device options menu

- 2 Select [Export configuration file]. The configuration is exported.

8.7 Import device configuration

- 1 Right-click the device for which you want to import the configuration. The menu shown in Figure 64 displays.
- 2 Select [Import configuration file]. An Open window displays.

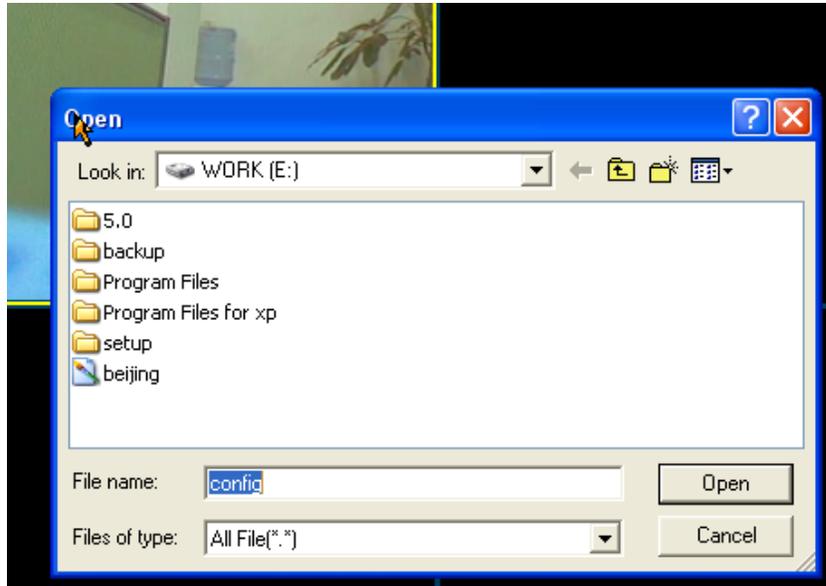


Figure 65 Import device configuration

- 3 Navigate to the configuration file you want to open, and click [Open].

9. Electronic maps

When you initially log into the software, no associated map exists. You can upload a root map and associated maps.

9.1 Add maps

To add electronic maps:

- 1 From the main menu, click [Map] to display the Map window, as shown in Figure 66.

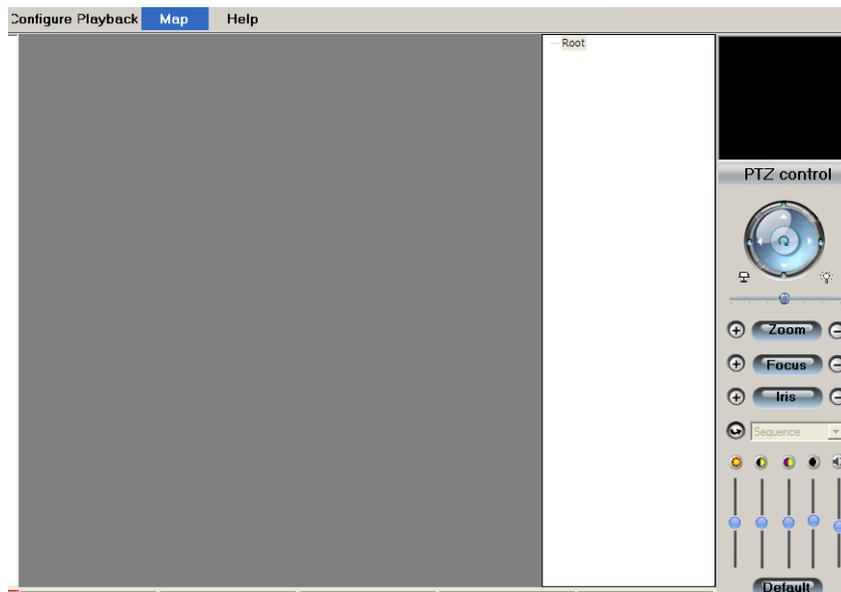


Figure 66 Map window

- 2 Right-click the gray area of the Map window to enter the higher layer map that relates to a present map (if one is displaying), or to enter Electronic Map setup to set up a map.

NOTE: The Electronic Map setup window is not available in multicast mode.

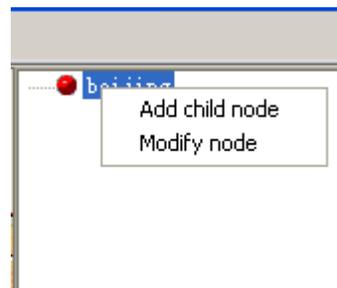


Figure 67 Electronic map setup window

- 3 Right-click and select the root node. A window displays for adding a map, as shown in Figure 68. The software only supports bitmap (*.bmp) files.

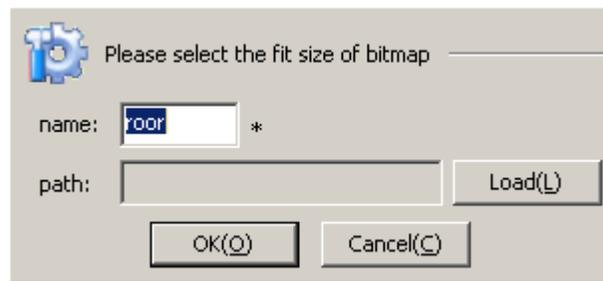


Figure 68 Add map

- 4 Enter a [name] for the map, and then click [Load] to navigate to the map you want to load.

Note: Each map must be 5 MB or less.

- 5 Click [OK] when the map you want to load displays in the [path] field. The following success message displays: "Successfully add root map." The map now displays in the Electronic map window.

9.2 Modify Maps

You can modify a specific map, add brother maps, delete maps, and add alarm hot spots to maps.

To modify a map:

- 1 Right-click the map name. A menu displays.

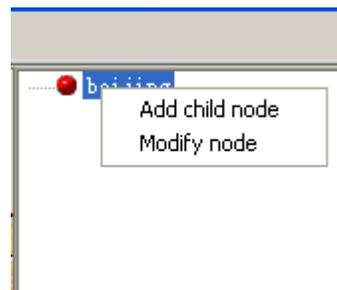


Figure 69 Modify map

- 2 Select [Modify node] to modify the map.
- 3 Make any changes, and click [OK].

To add brother maps:

- 1 Right-click the map name, and select [Add brother node].

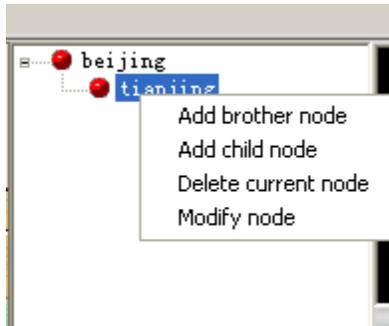


Figure 70 Add brother map

- 2 Enter a [name] for the map, and then click [Load] to navigate to the brother map.
- 3 Click [OK] when the map you want to load displays in the [path] field.

To delete a map:

Right-click the map and select [Delete current node].

Note: You cannot delete the root node.

To add alarm spots to a map:

- 1 Right-click a map that is displaying in the Electronic map window. A hot spot window displays.

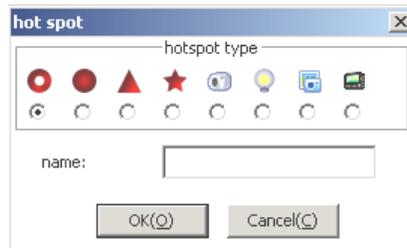


Figure 71 Hot spot window

- 2 Select the [hotspot type], enter a name for the alarm hot spot, and click [OK]. The alarm spot is associated with the present equipment in the left pane. Figure 72 shows an alarm spot.

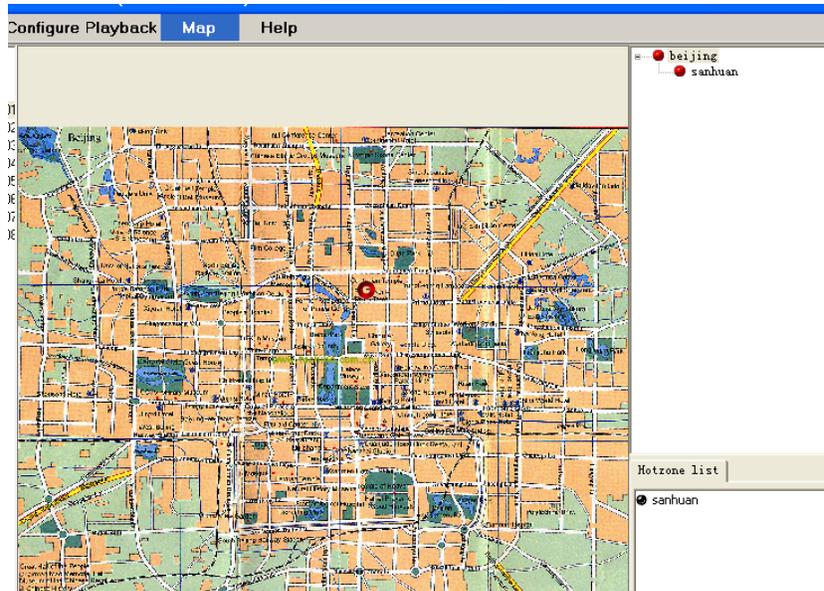


Figure 72 Alarm spot

The spot name in the hot spots list in the lower right corner of the Electronic map window is the lower layer map of the present map.

Select a map from the hot spots list while pressing [Shift] (or [Ctrl]) to add (or delete) a hot spot on the map. The red area corresponds to the unselected hot spots list, while the blue area corresponds to the selected hot spot list.

- 3 Click [Delete] to erase all corresponding hot spots.
- 4 Click [Exit] to exit the setup interface.

Note: If the electronic map alarm is selected, the corresponding hot spot will flash when an alarm occurs.

- 5 Click this hotspot to acknowledge the alarm, and the hotspot will stop flashing until a new alarm occurs.
- 6 Click the channel that corresponds to a hotspot, and the small window below the electronic map will display images from that channel.
- 7 Click [Confirm] to close images from this channel.
- 8 Right-click the window, and select [Close all], as shown in Figure 73, to close all video images.



Figure 73 Close all