Digital Video Server
Image Center

Manual

（V4.0.0.15）

Jan. 8,2011

Welcome

Thank you for choosing our DVS Image Center. Please read the manual carefully before using. If you have problems which is not answered in the manual please contact your vendor or the technical support department of our company.

We reserve the right to update the manual periodically without notice.

Table of Content

1. General

1.1. Manual Version

Manual Version	Differences with previous versions	Update time
V1.3.0.16	Add Email alarm, remote recording playback, set buffer locally, etc.	

1.2. System Requirement

- Operating System
  - Windows2000 and WindowsXP (English or Simplified Chinese Edition)
- Minimum Requirement
  - CPU: Pentium 1.1Ghz
  - Memory: 128MB
  - Video Card: TNT2
  - Sound Card: Necessary when audio monitoring and two-way talk-back is required
  - Hard Drive: Minimum 40G if recording is required
- Recommended System
  - CPU: Pentium 2.6Ghz
  - Memory: 512MB
  - Video Card: NVidia Geforce FX5200 or ATI RADEON 7000(9000) series, 128M memory, support hardware zoom function
- Software Requirement
  - Inter Explorer 6.0 or above
  - DirectX 8.0or above

1.3. Notes

- The operation on DVS applies to IP Camera too, if there is no exception.

2. Brief Introduction

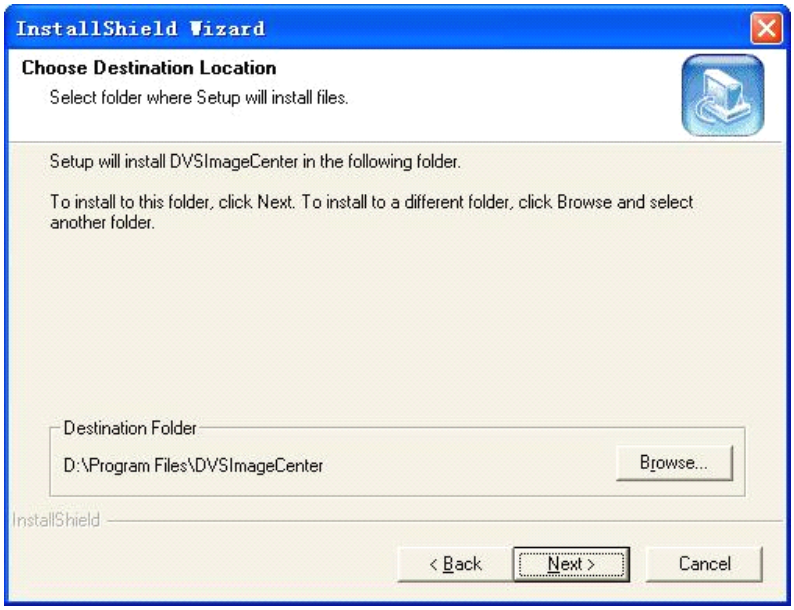
Features:

- Manage unlimited video and audio channels
- Set the IP Camera
- Electronic map
- Support previewing and rotate monitoring
- Support audio monitoring
- Support two-way talk back
- Support recording (pre-alarm recording, manual recording, alarm-triggered recording, scheduled recording)
- Support recording playback and search
- Support pan/Tile control, setup, transfer, track transfer
- Support log management
- Support snapshot by the back program or the front camera

The DVS Image Center has powerful and complete functions for your surveillance system.

3. Program Installation

Find the installation file DVSImageCenter_Vxx.exe, double click it and the following windows will show up:



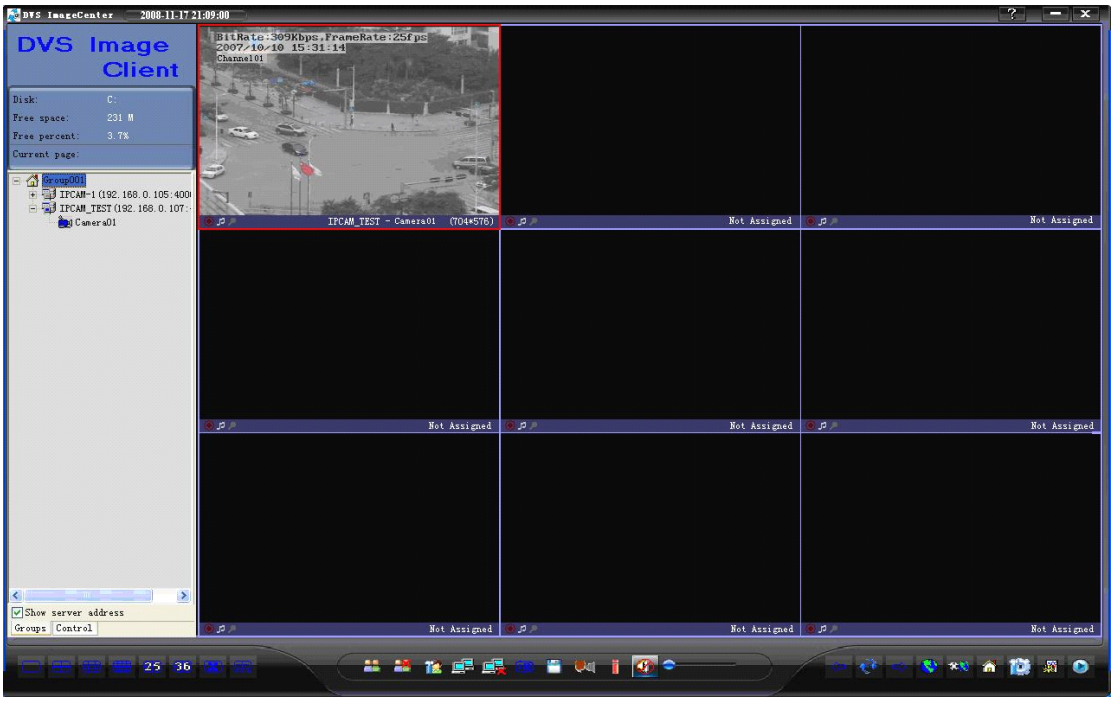
Please follow the instruction, click 【Next】,until the button of 【Finish】shows up. Click 【Finish】 to finish the installation. The software is installed to the default folder \Program Files\DVSImageCenter.

4. User Guide

4.1. Login

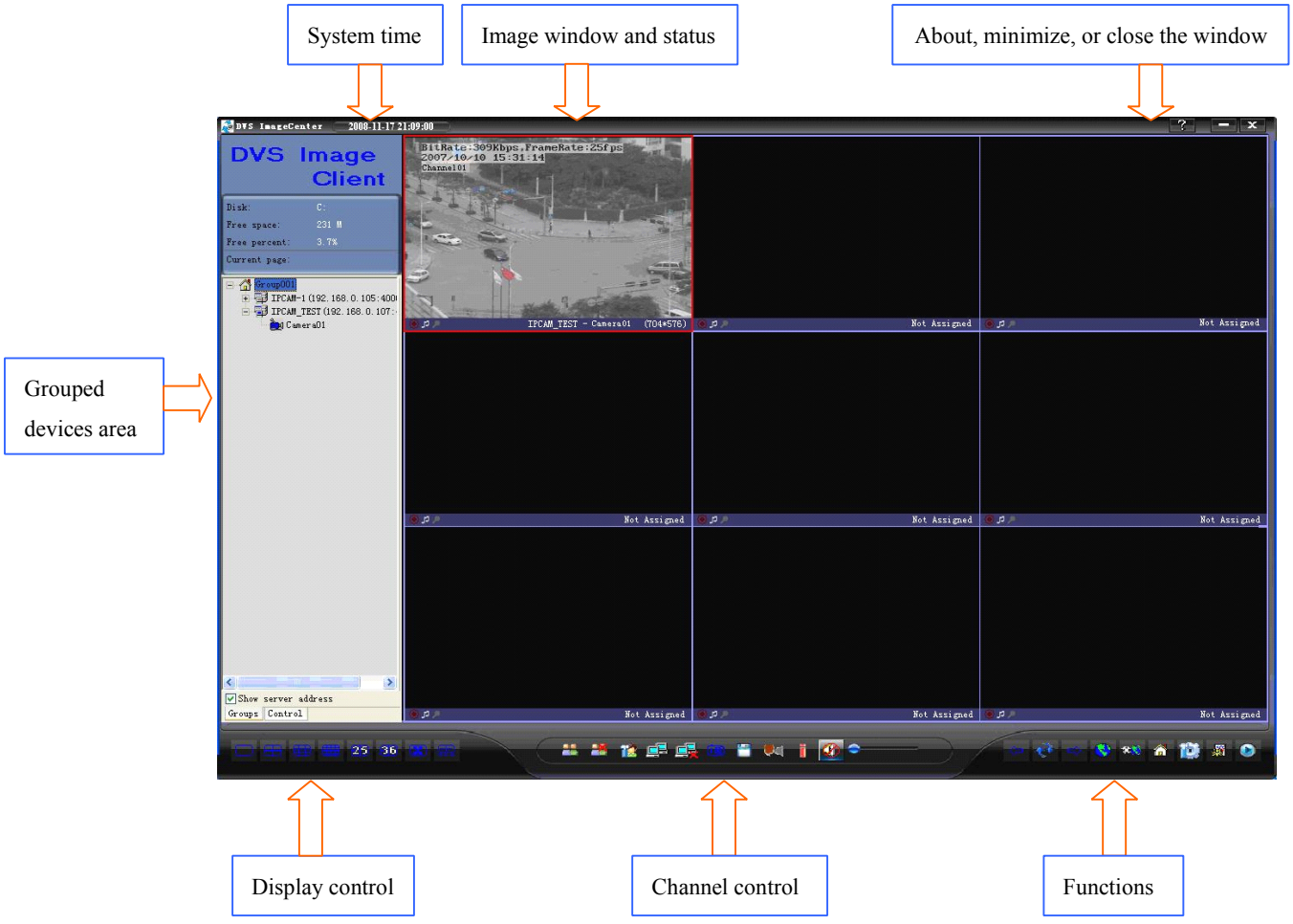
Click the file “DVSImageCenter.exe”, the following window will pop up:

Input your user name and password (the default user name is “admin” and the password is empty. After clicking 【OK】, the program starts to initialize. The following window will show up after a few seconds:

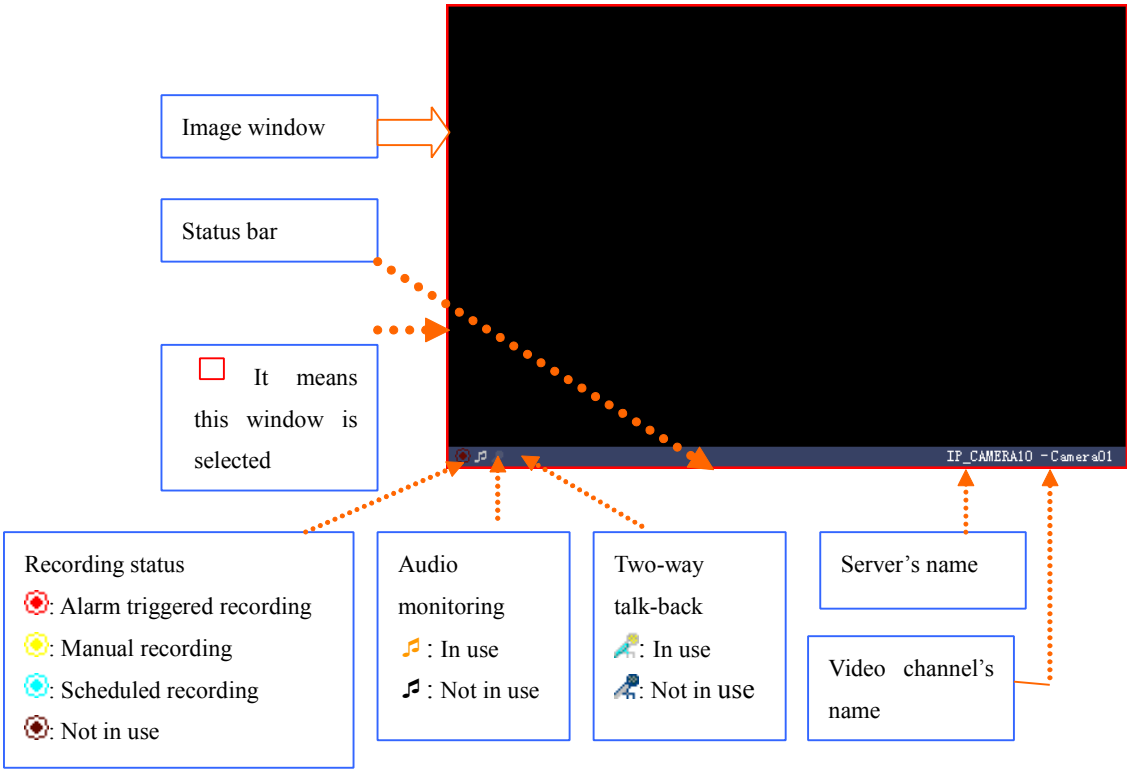


4.2. The Interface and Functions

4.2.1. The main interface

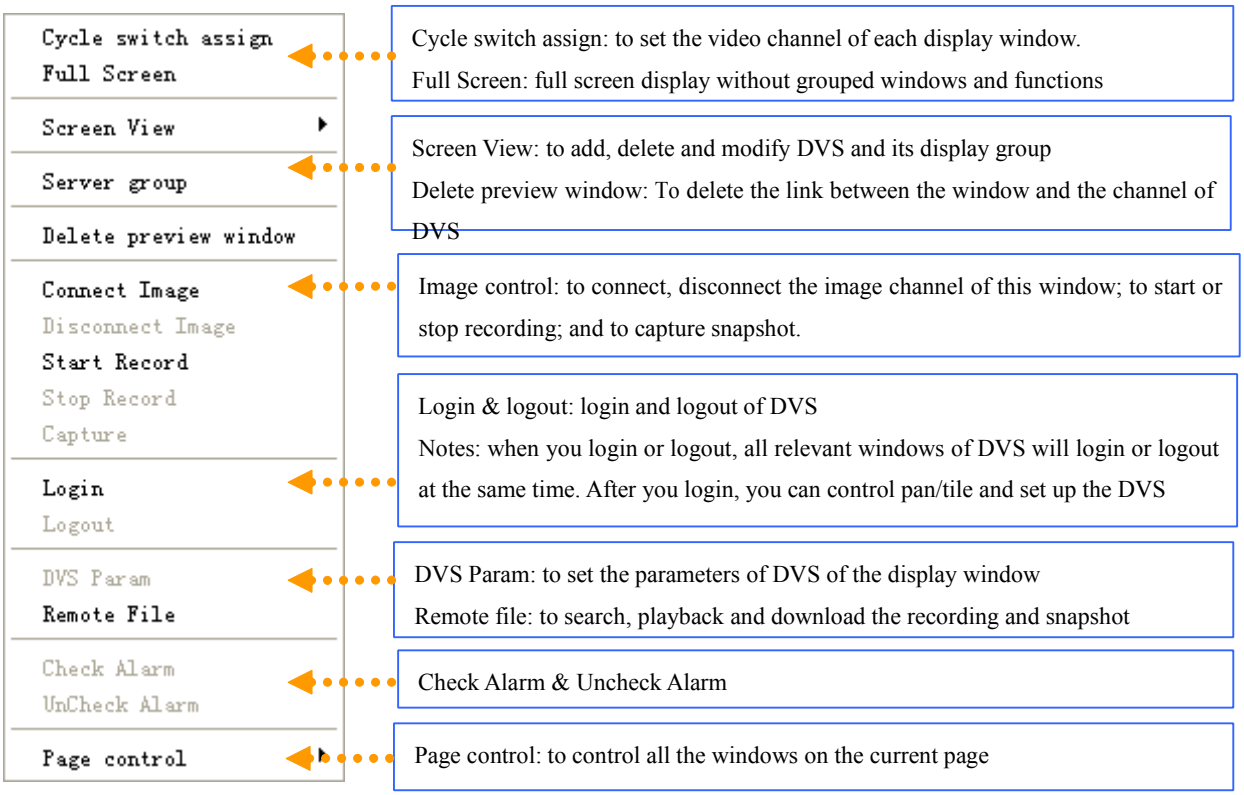


4.2.2. Image Window

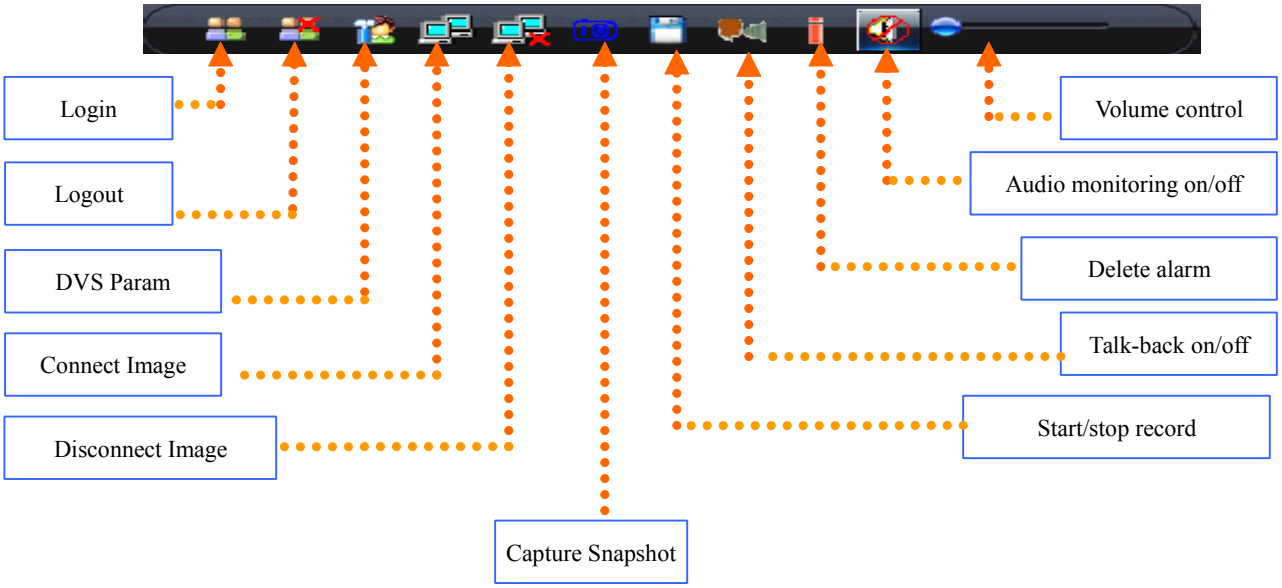


Double click the display window, you can maximize the window. Double click the maximized window again, it will be back to the previous display form.

Single click the right key, the following menu will pop up (different window status will have different menu):



4.2.3. Control buttons

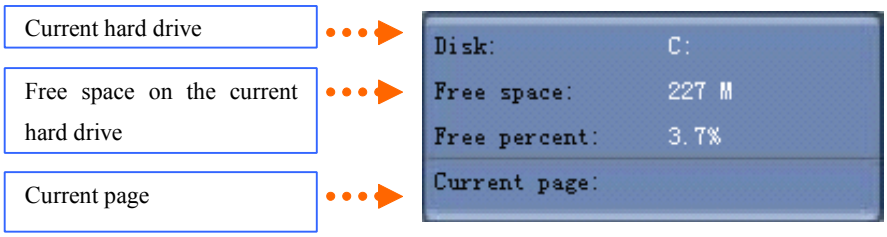


The Connect & Disconnect Image, Volume control, Audio monitoring on/off, and Capture operations are for the current window. The Login, Logout, DVS Param, Talk-back on/off, and Delete alarm operations are for the DVS of the current image. The Delete alarm operation is to delete the alarms triggered by the DVS of the current image.

4.2.4. Talk-back

Click the Talk-back on/off button  , you can talk to the current DVS.

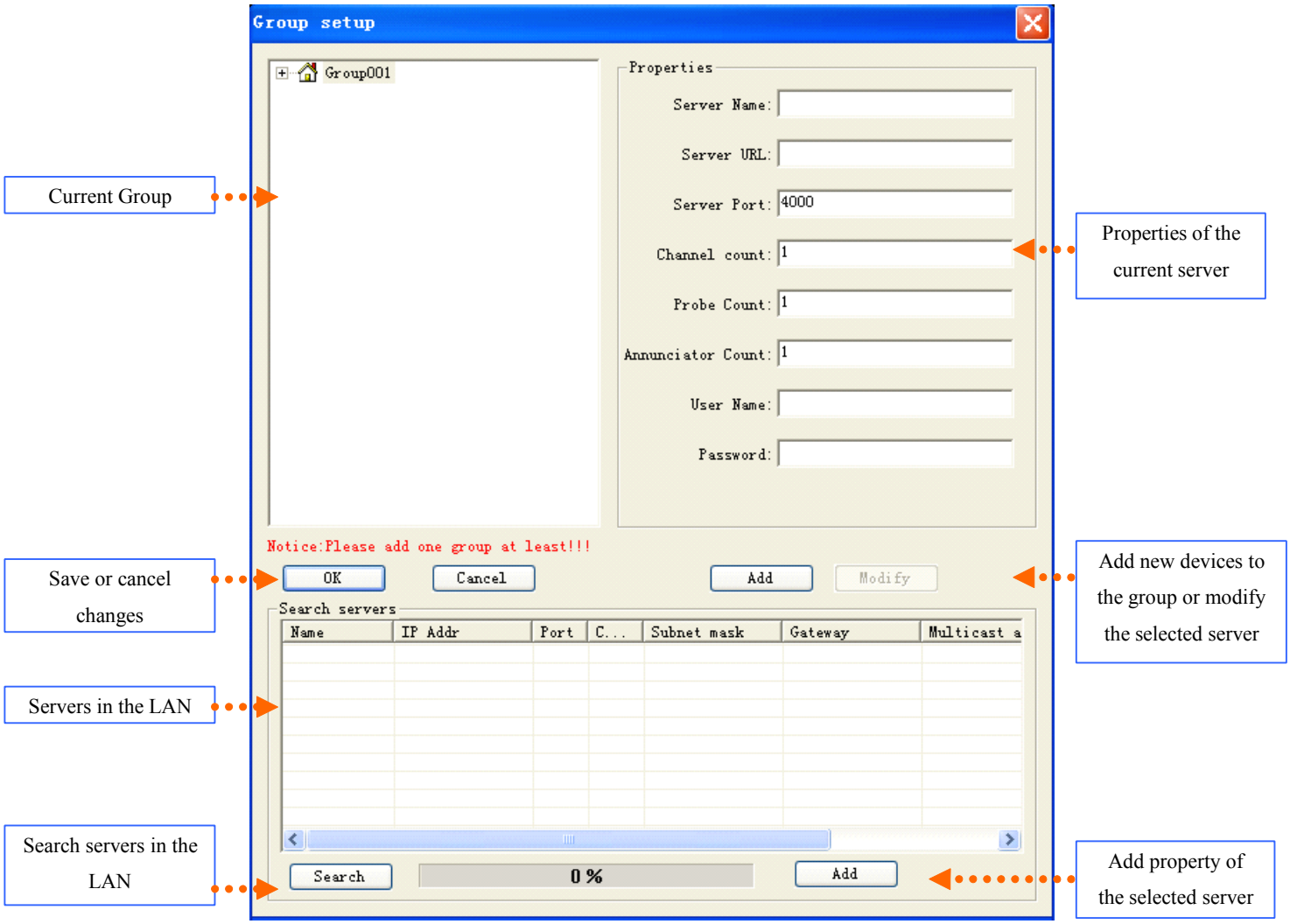
4.2.5. Information System



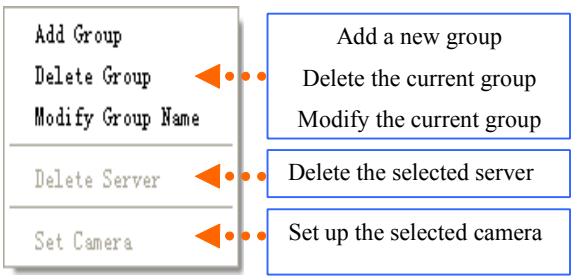
4.2.6. Volume Control

This is to control the speaker's volume of the current monitored window.

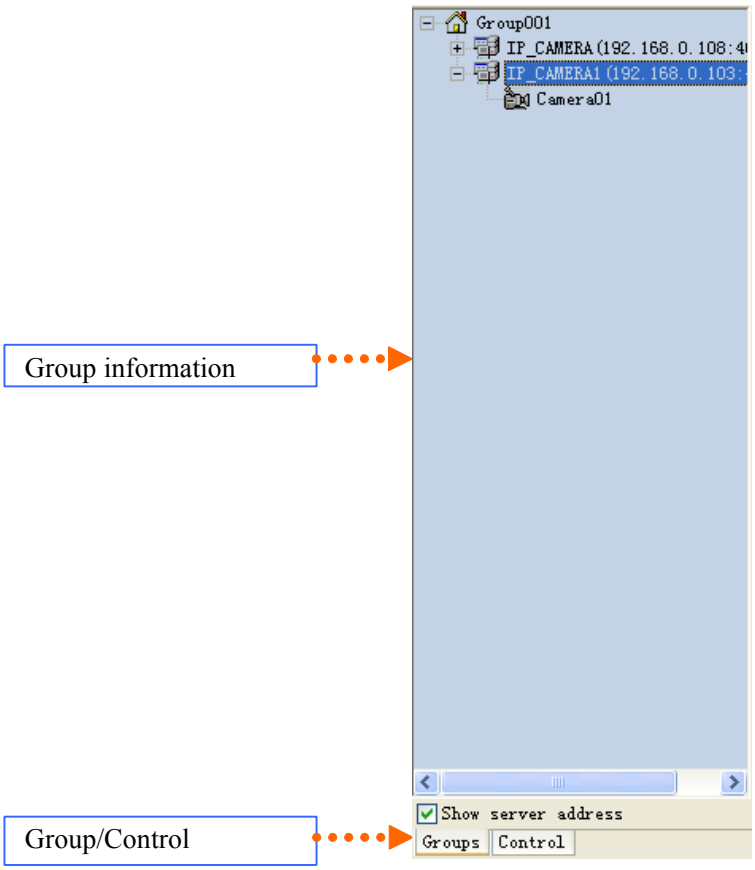
4.2.7. Group setup



Click the right key in the current group, the following menu will pop up (menu will be different if you choose different group):



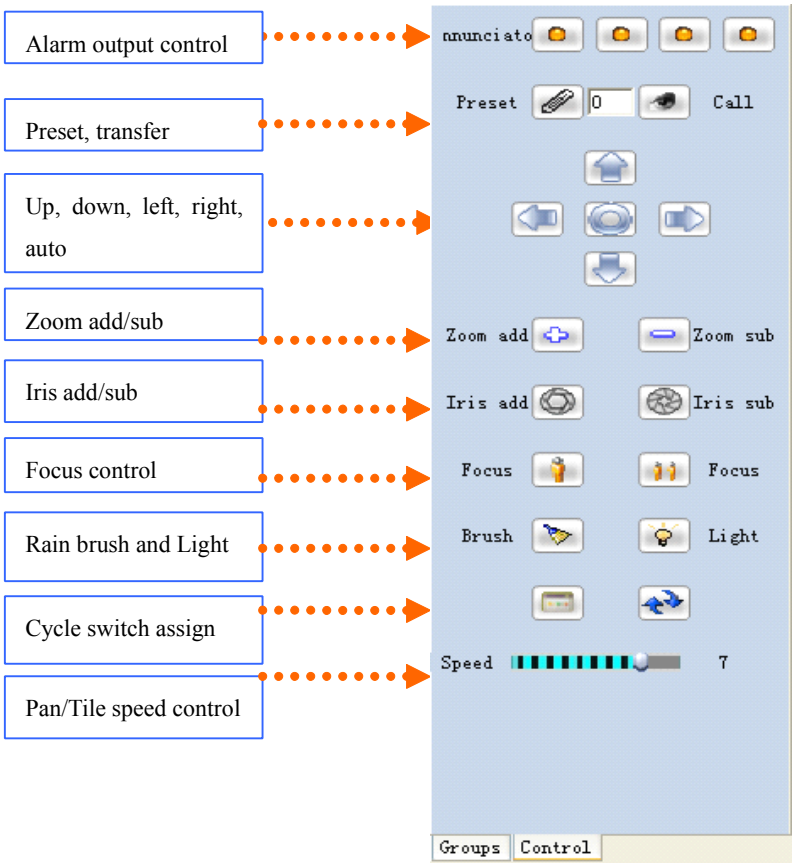
4.2.8. Display Group



In the grouped window, the status of devices and cameras will be shown: gray color means it is disconnected; blue color means it is connected; red color means it is alarming.

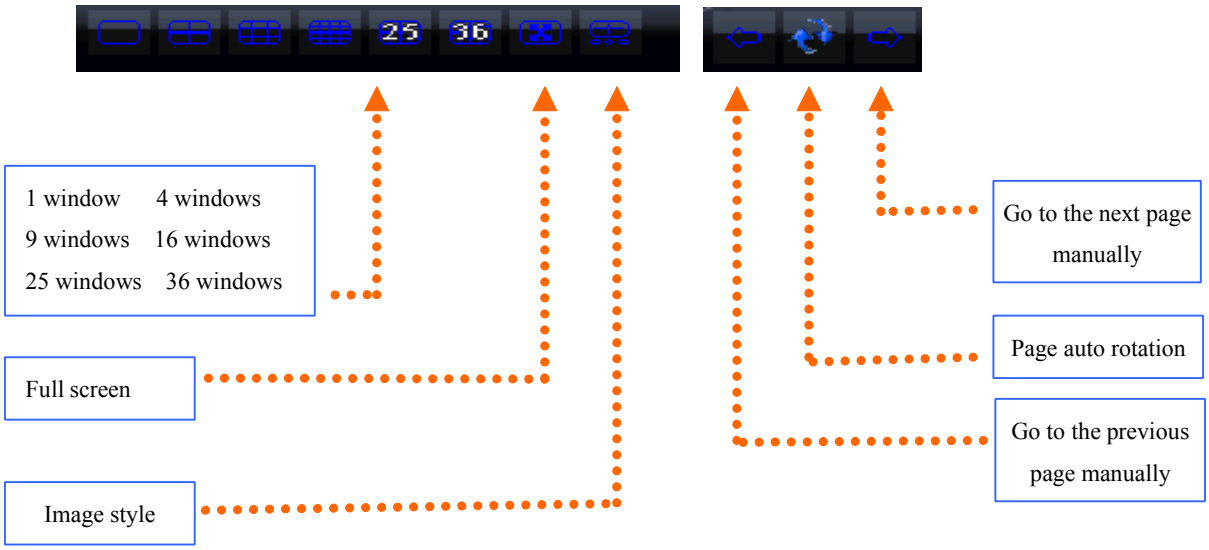
Check the “Show server address”. The IP address (or domain name) and port information will show up after the server.

4.2.9. Control the front devices



In order to control the front devices of the selected image, you have to set the decoder of the device. Please refer to the **【 Local Setup - P/T Protocol】**. The default protocol is built in the NVS (it can be downloaded from the NVS Settings – Front Device Settings and save in the NVS).

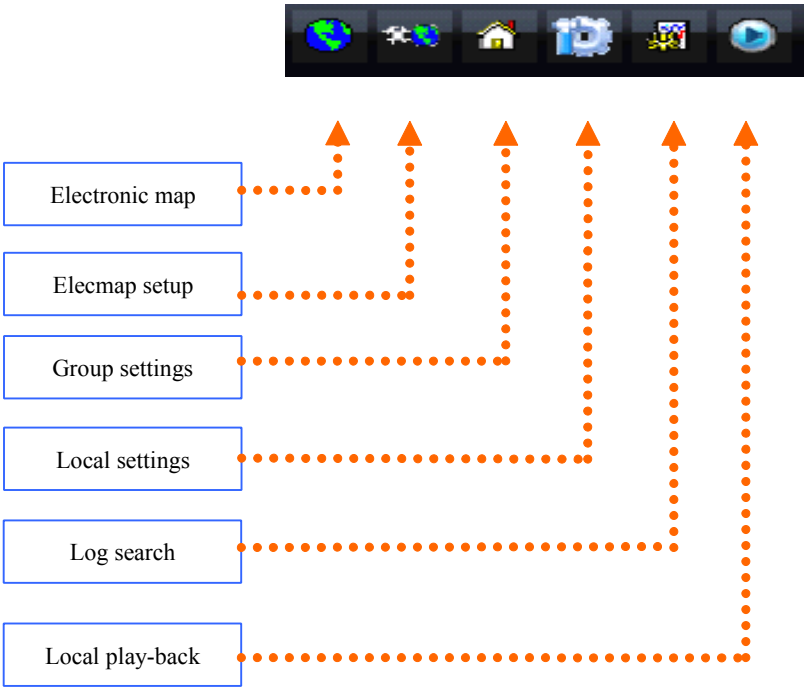
4.2.10. Image Control



【Image Style】is to turn on/off the status bar of the window

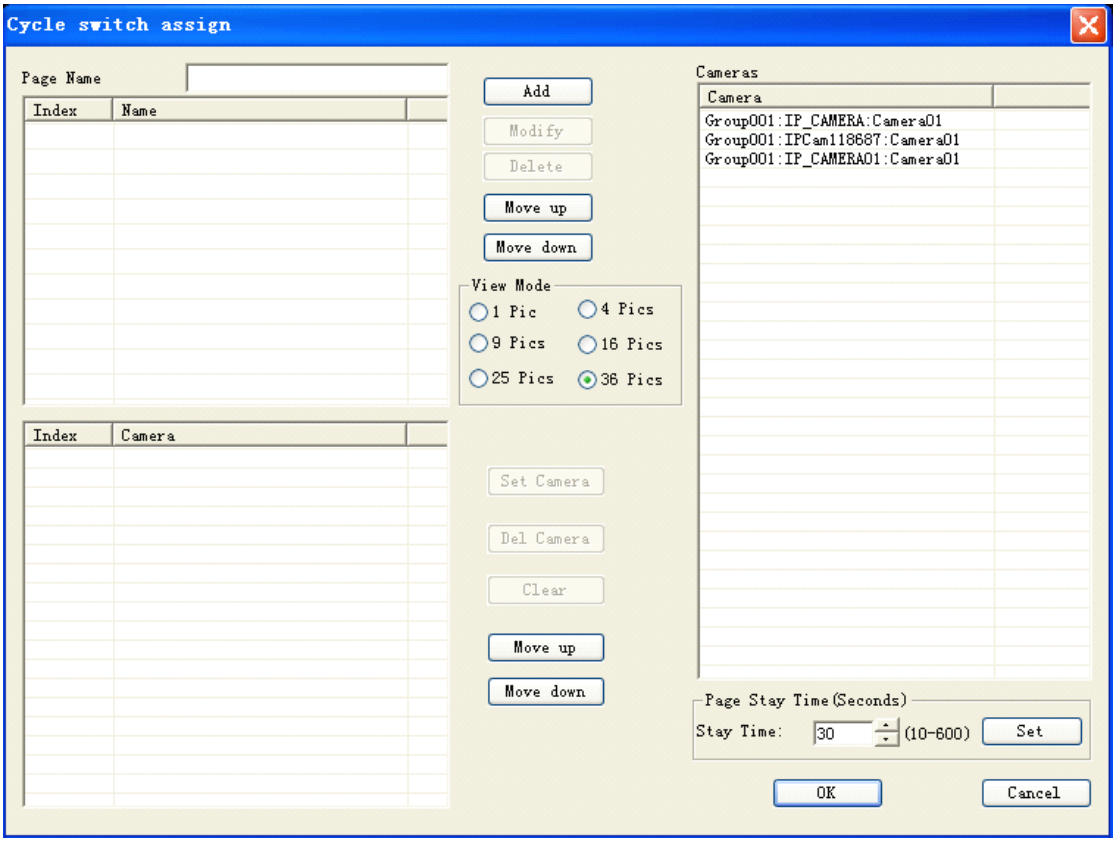
Page turn manually or auto cycle are valid after you turn on page cycle.

4.2.11. Functions



4.3. Cycle switch assign

Single click the right key in the image window, choose【Cycle switch assign】, the following window will pop up:



At the left side of the window, it shows the information of the page. The image of camera #1-#36 is displayed in the window #1-#36.

【Add】: To add a page.

【Modify】: To modify the current page.

【Delete】: To delete the selected page.

【Move up】: To move up the selected page. If the page is already at the top, then it will not work.

【Move down】: To move down the selected page. If the page is already at the bottom, then it will not work.

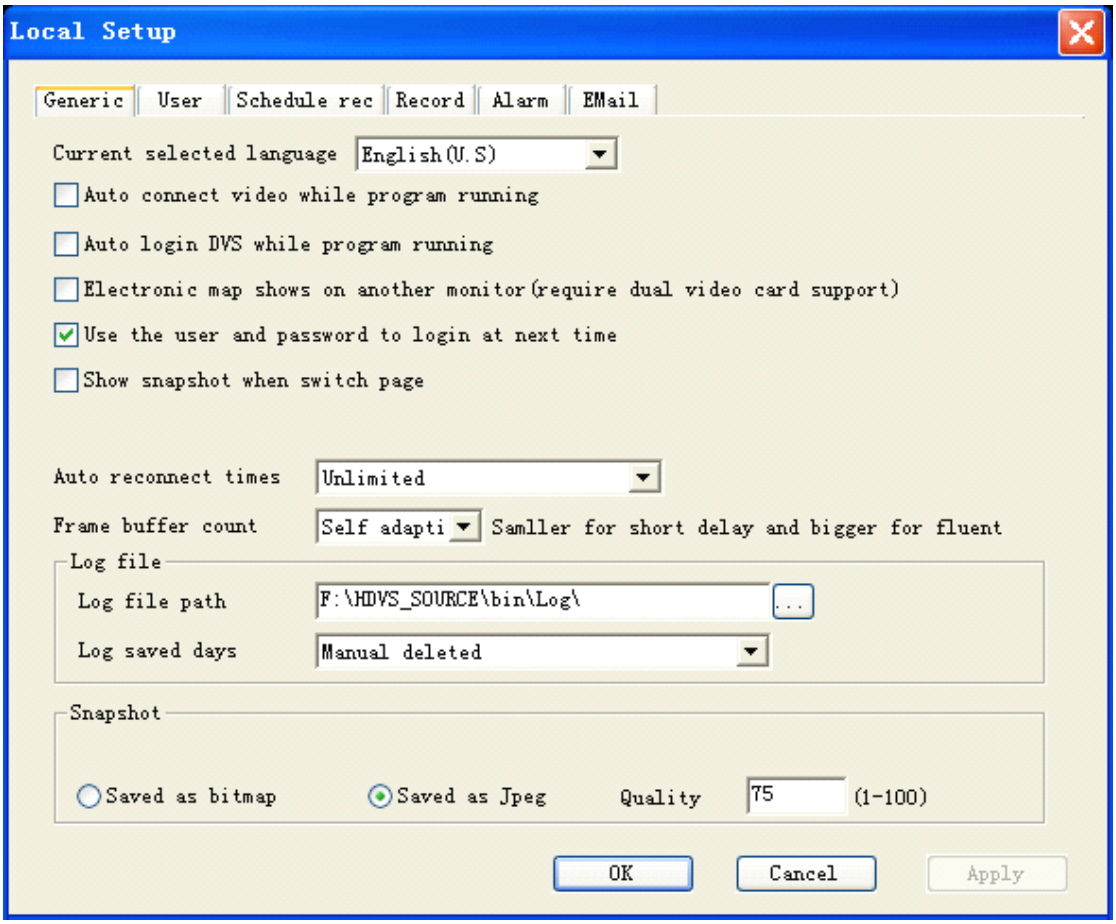
【View mode】: To set up how many images can be viewed on the page. The number of images is the number of the camera you can set on that page.

At the right side of the page, the camera groups are listed. Double click the name of the camera, it will move to the down left side of the window.

【Page stay time (Seconds)】: To set the stay time of the selected page during the image cycle (10-600 seconds).

4.4. Local Setup

Click the 【 Local Setup 】 button  , the following window will pop up:



There are six pages: 【Generic】,【User】,【Schedule rec】,【Record】,【Alarm】,【EMail】.

4.4.1. Generic

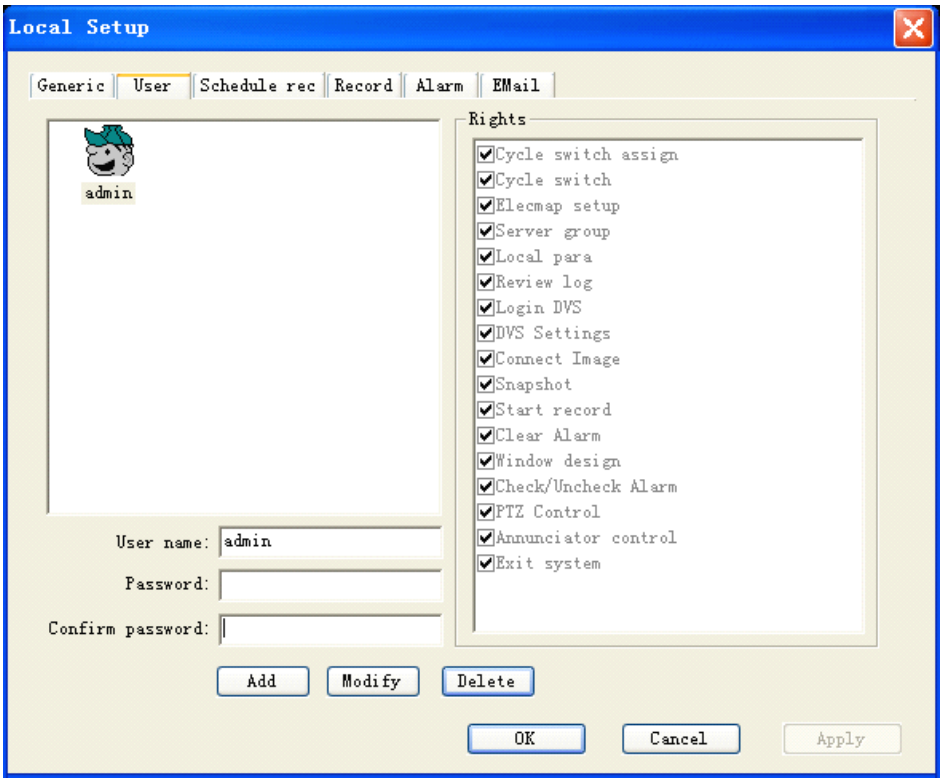
The window of generic settings is same as the above.

1. 【Current selected language】: This is to choose the language of the program. It has three built-in languages: Simplified Chinese, Traditional Chinese, and English. The source file is in the installation directory \Language folder. You can add your own language. The default is the same language as it of your operating system. The program will search language automatically when it starts. You can also choose your own language.
2. 【Auto connect video while program running】: To connect the video of image when the program starts.
3. 【Auto login DVS while program running】: To automatically login the front devices.
4. 【Electronic map shows on another monitor (require dual video card support)】: If your PC has two video cards, the electronic map can be displayed on the other monitor so the main window will not be affected.
5. 【Use the user and password to login at next time】: To save your user name and password and automatically login with them when the program starts next time.
6. 【Show snapshot when switch page】: To take snapshot from the front camera when you manually rotate pages and display it in the window.
7. 【Auto reconnect times】: To reconnect the network with the number of time you set when it is disconnected. When the connection reaches the number of time, the program will not connect the front device any more.
8. 【Frame buffer count】: To set the number of frames of video buffer. The less frames the less delay of video. But it may be stopped when the network bandwidth is not good. The more frames the more delay of video. But it is much smoother.
9. 【Log file】: To set the save path of the log files and the days to save the log file.

10. 【Snapshot】: To set the format of the snapshot, and the quality of JPG format.

4.4.2. User

The window of local user is as follows:

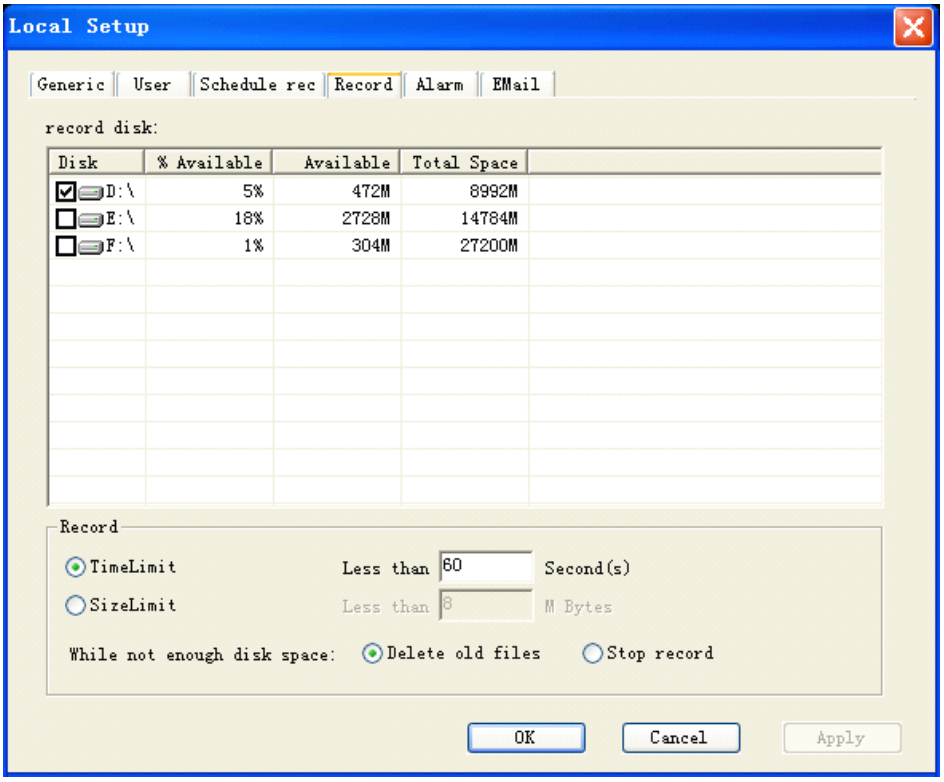


This is to add, delete, and modify the users and their authorization.

Notes: Only the administrator can delete or modify other users. Users can only change their own passwords.

4.4.3. Recording

The window of record is as follows:

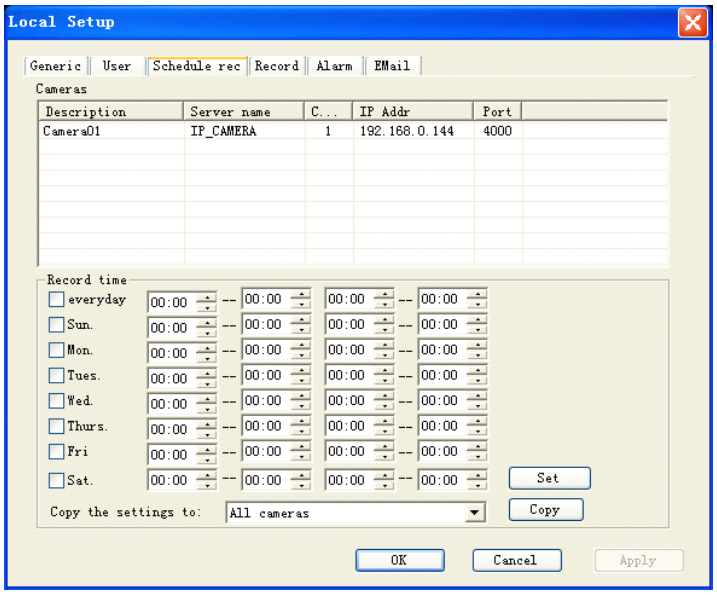


1. When you save recording on the hard drive, you can choose which disk to save. Click the 【OK】to save your settings.
2. 【While not enough disk space】 is to delete previously saved files when the hard drive is full.

   Notes: previous files are those saved by 0:00 am on that day.
3. Saving path: root \DVSFile\date\DVS IP address (port)\ CH_0X\record
4. 【Time Limit】is to set the time of recording.

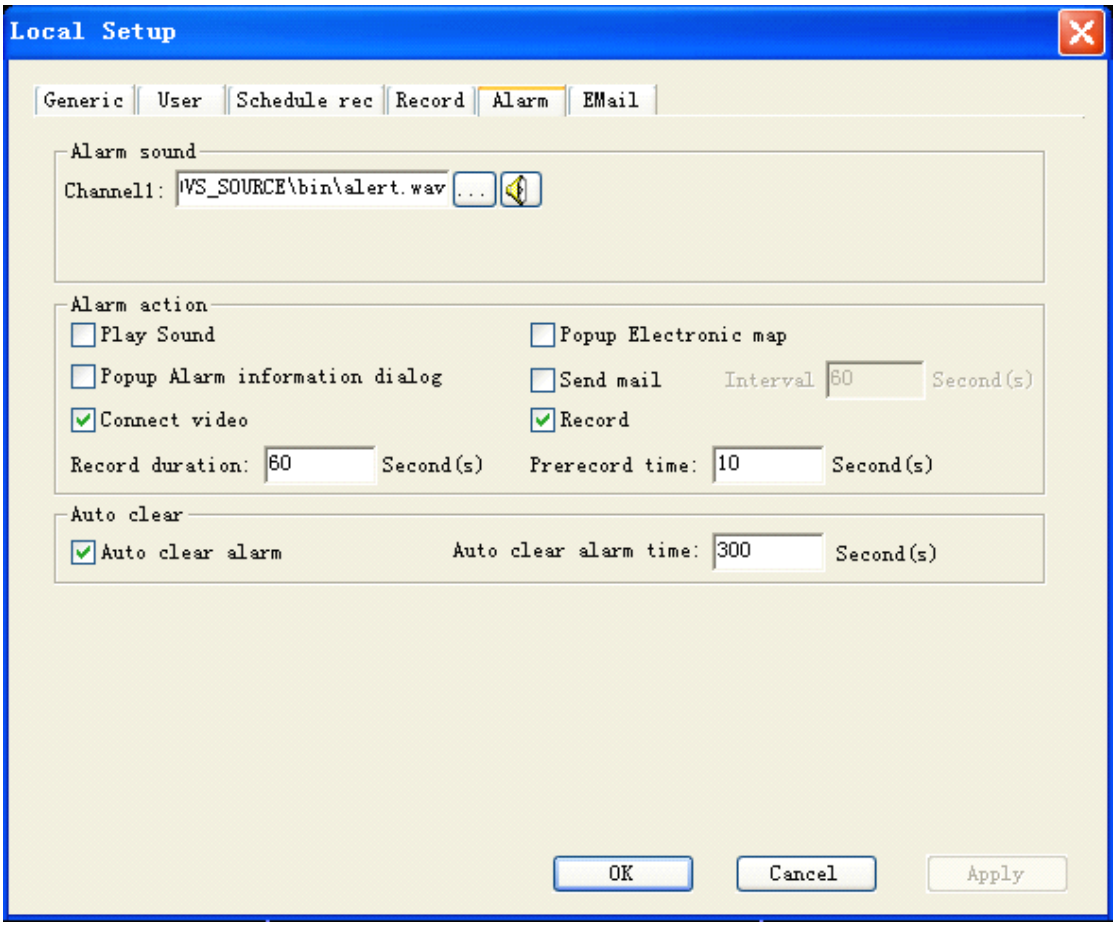
4.4.4. Schedule rec

The window of scheduled recording is as follows::



This is to set the recording time for each camera. You can set two time periods every day. The schedules can be copied for selected cameras. Click the 【OK】to save the settings.

4.4.5. Alarm



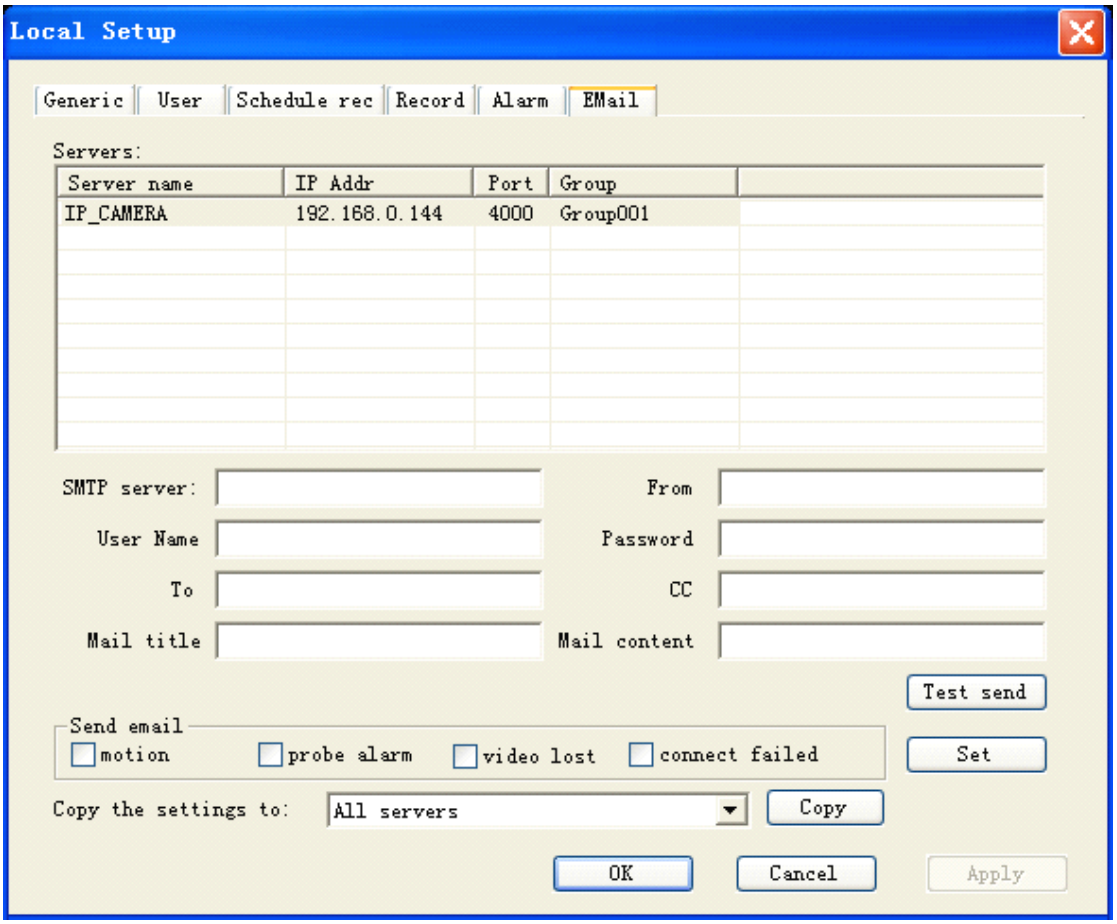
【Alarm sound】: To choose the sound of alarm. Click  to choose the sound you like.

【Alarm action】: To set the alarm-triggered actions, including Playing Sound, Popup Electronic map, Popup Alarm information dialog, Send email, Connect video, and Record, etc. You can also set the Record duration time and prerecord time.

【Alarm clear】: To automatically clear alarm. When the alarm is not triggered again during the set time period, the program will delete the alarm automatically.

4.4.6. EMail

The window of Email is as follows:



You can set the Email on this page, including various Email address, receivers, senders, subjects, etc. The mail content is valid only when sending test email. The mail content will change according to the type of alarm when it is triggered by the alarm.

You can set the condition to trigger the email alarm: motion, probe alarm, video lost, and connect failed.

Note: The email is sent by SMTP (Simple Message Transfer Protocol). Make sure your mail server should support SMTP.

4.5. Electronic map

Click the【Electronic map】 button  , the following window will pop up:

The electronic map shows the location of every camera and detector. When there is alarm, the electronic map will pop up, and the alarming camera or detector will flash if it is marked on the map.

4.6. Elecmap setup

Click the【Elecmap setup】button  , the following window will pop up::

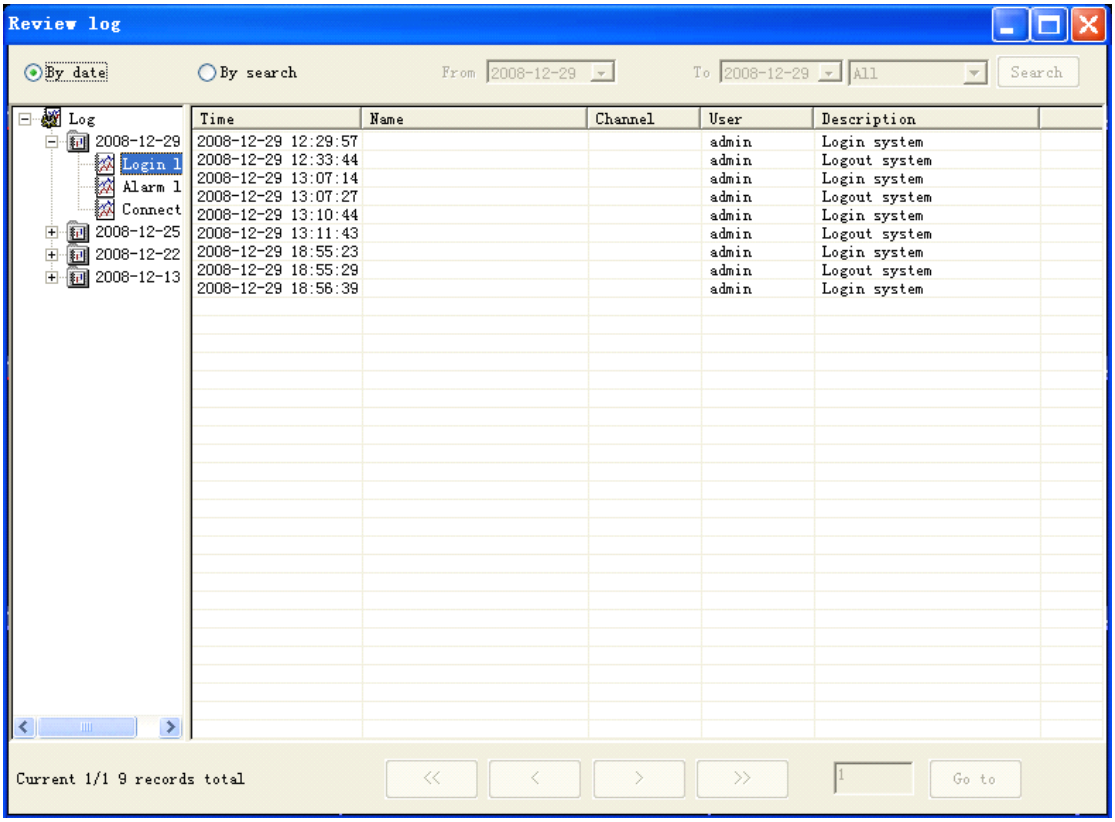
You can mark the cameras and detectors on the map so people can clearly see them. First you should make an electronic map by yourself. On the map list, you click the right key of the mouse, choose “Add” to add this map and name it. Double click its name then you can open the map.

After adding the electronic map, you can create cameras and detectors on it. You can see its video window when you click the camera on the electronic map.

After you have the electronic map, it will pop up when there is alarm and the alarming camera or detector will flash.

4.7. Review Log

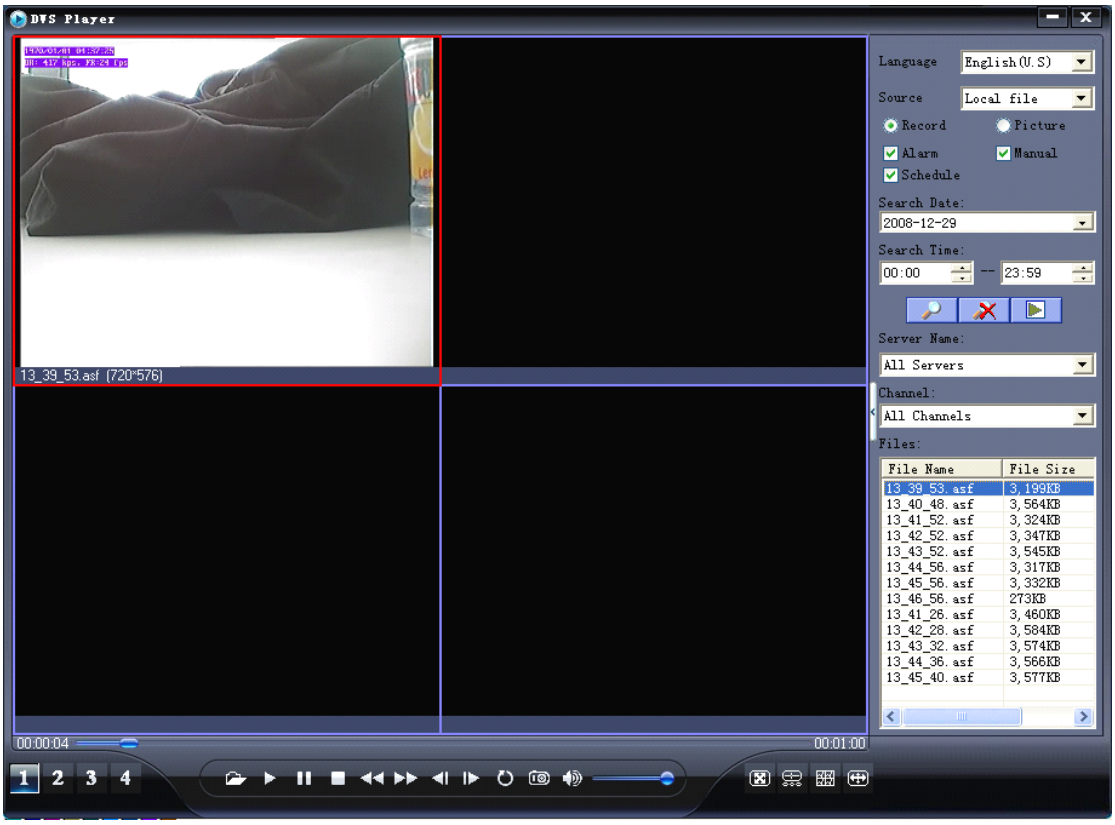
Click the 【Review Log】button  , the following window will pop up:



Choose the reviewing type (by date or by search), input the start date and end date, the type of log, then click the 【Search】 button. The list will show all the search result.

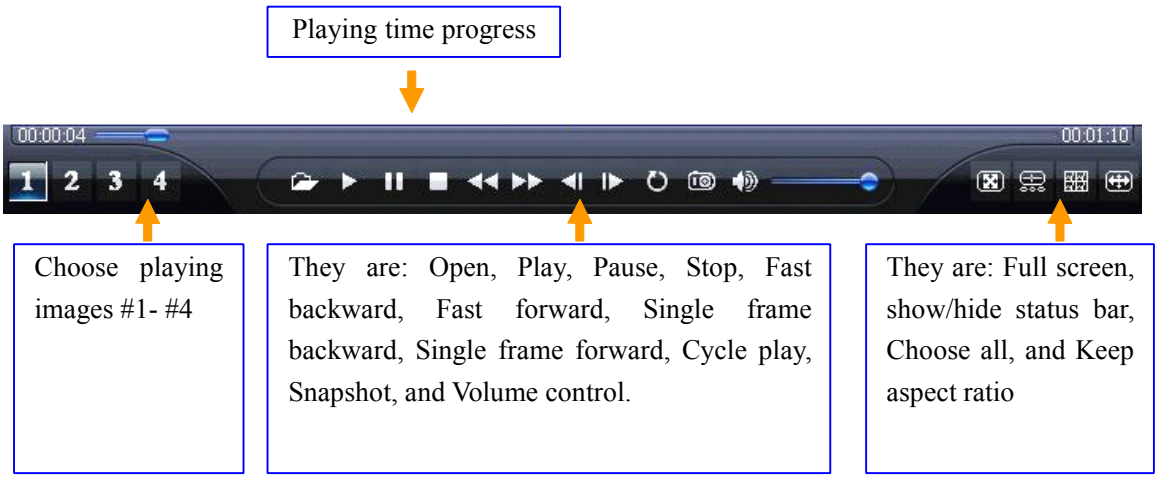
4.8. Video Playback

Clieck the【Video playback】 button  , the following window will pop up:



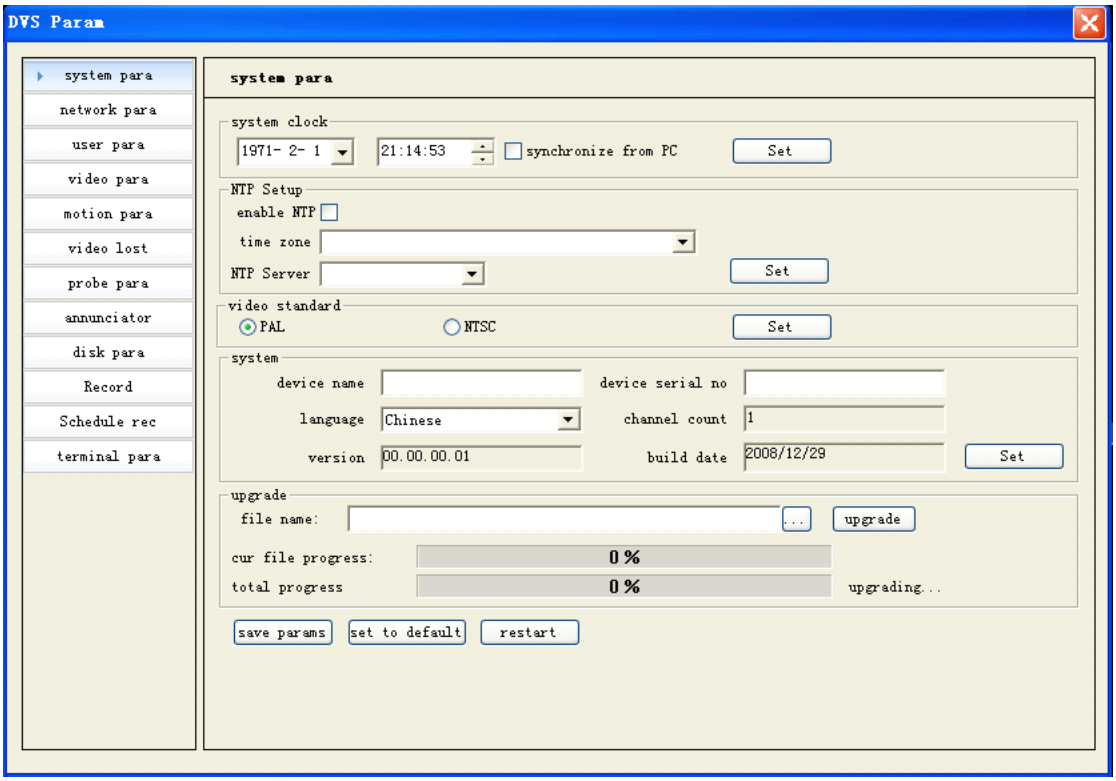
You can search the recording files and the snapshots pictures.

You can choose the continued play if there are more than one files.



4.9. DVS Param

Click the 【DVS Param】 button  , or click the right key of mouse on the image window and choose【DVS Param】on the popup menu, the following window will show up:



4.9.1. System para

The system parameters are shown as above. You can set the system clock, NTP, video standard, device name, and language, etc.

DVS upgrade: Click【…】 button, choose the correct upgrading file, then click the【upgrade】 button to start. When the job is done, you will see a message and the DVS will be restarted automatically.

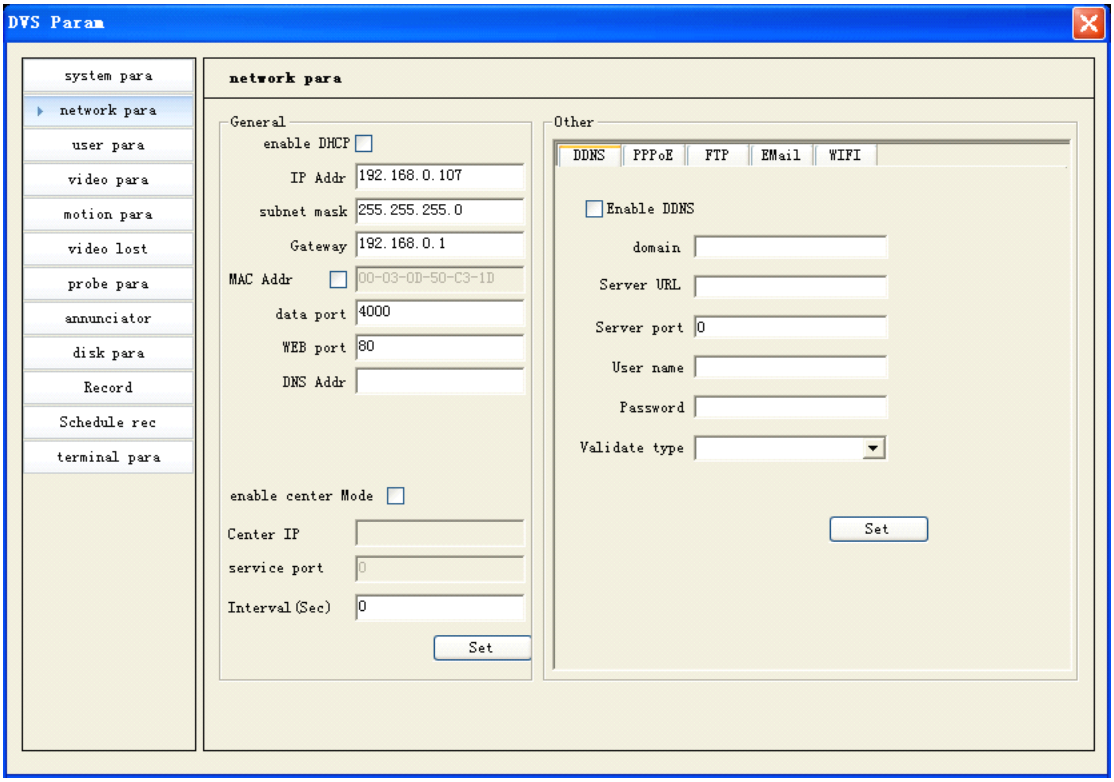
【Save params】 button: To save the modified settings on the FLASH memory so the system will not go back to the previous status after it is restarted.

【Set to default】button: To reset all settings (including network settings) to default. The MAC address of the network will not change. **Please use this function cautiously!**

【Restart】 button: To restart the DVS.

4.9.2. Network para

The window of network parameters are as follows:



You can set the IP address of DVS, Subnet mask, Gateway, MAC address, data port, Web

port, and DHCP, etc. If the DVS is in a LAN, make sure its IP address does not conflict with the IP of other devices in the LAN.

【Web port】: To change of the web port of IE browser provided by Web Server of the DVS.

【DDNS】: When the DDNS function is enabled, DVS will report to DDNS its IP address (LAN) of the dynamic IP address received from router. You should input the IP address or the domain name of the DDNS. When the DDNS is a domain name, make sure the DNS IP address is correct.

【Enable Center mode】: You should set the correct center IP address and service port, if you want the front camera to take snapshot or RS232 to collect data and the DVS is connected with the centrer.

Video Server Network Guide:

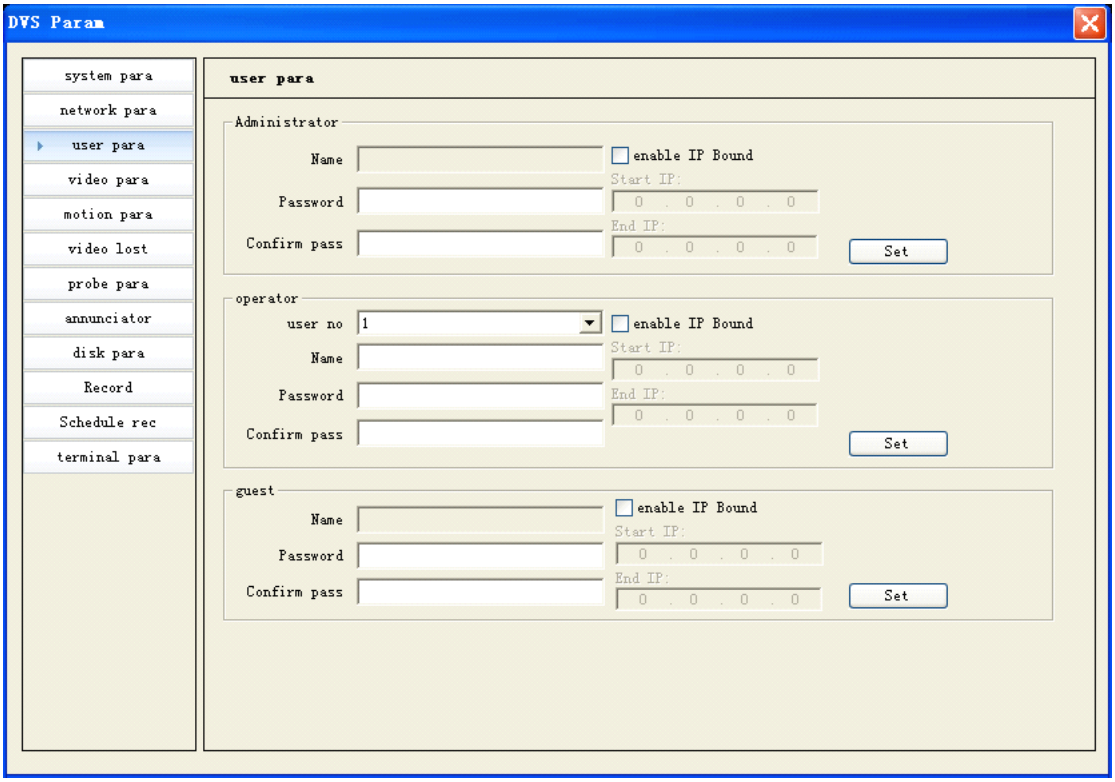
The video server uses the following default ports:

TCP: 80 (Web port), 5000 (communication port, TCP data port, talk-back data port)

Multicast port: Multicast start port + channel number (0~3)

4.9.3. User para

The User parameters are as follows:

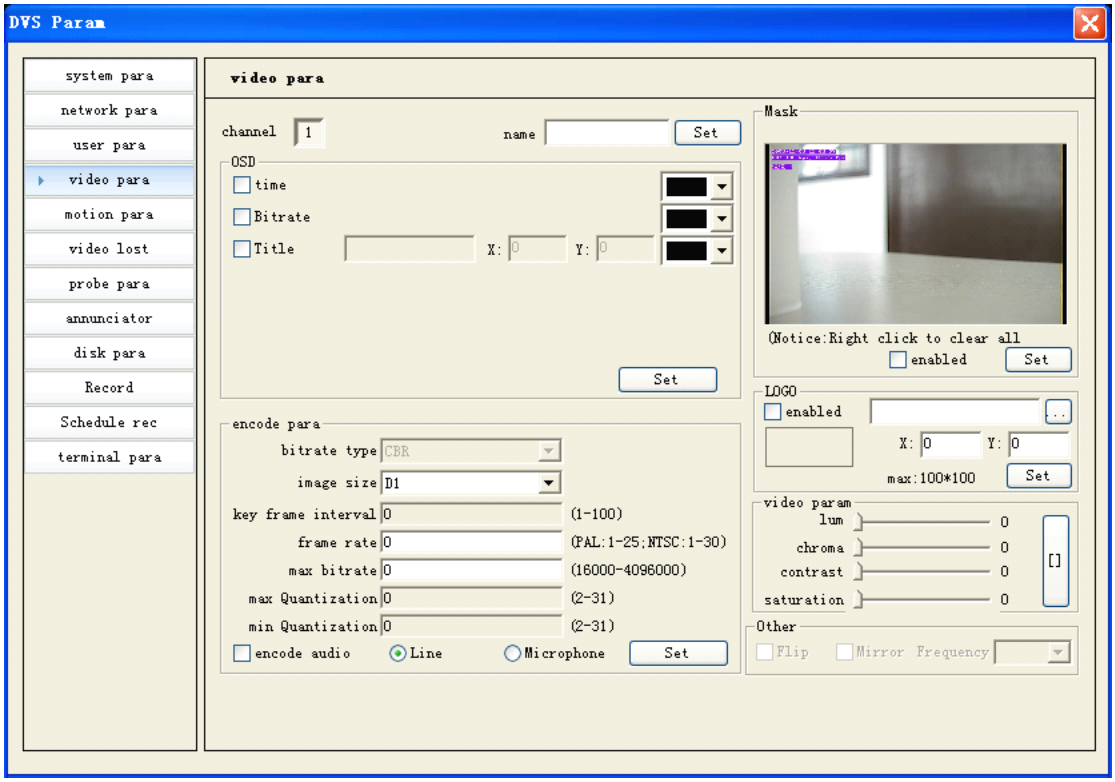


You can create 12 user accounts for each DVS. One of them is the administrator, one is the guest, and the rest ten accounts are operators. The operators can change their user names or passwords. The administrator and the guest can only change their passwords. The administrator can set the DVS while the operators and the guest cannot change any settings.

Default administrator: **admin** password: **admin**
Default guest name: **guest** password:: **guest**
Note: both the user name and password are case sensitive.

4.9.4. Video para

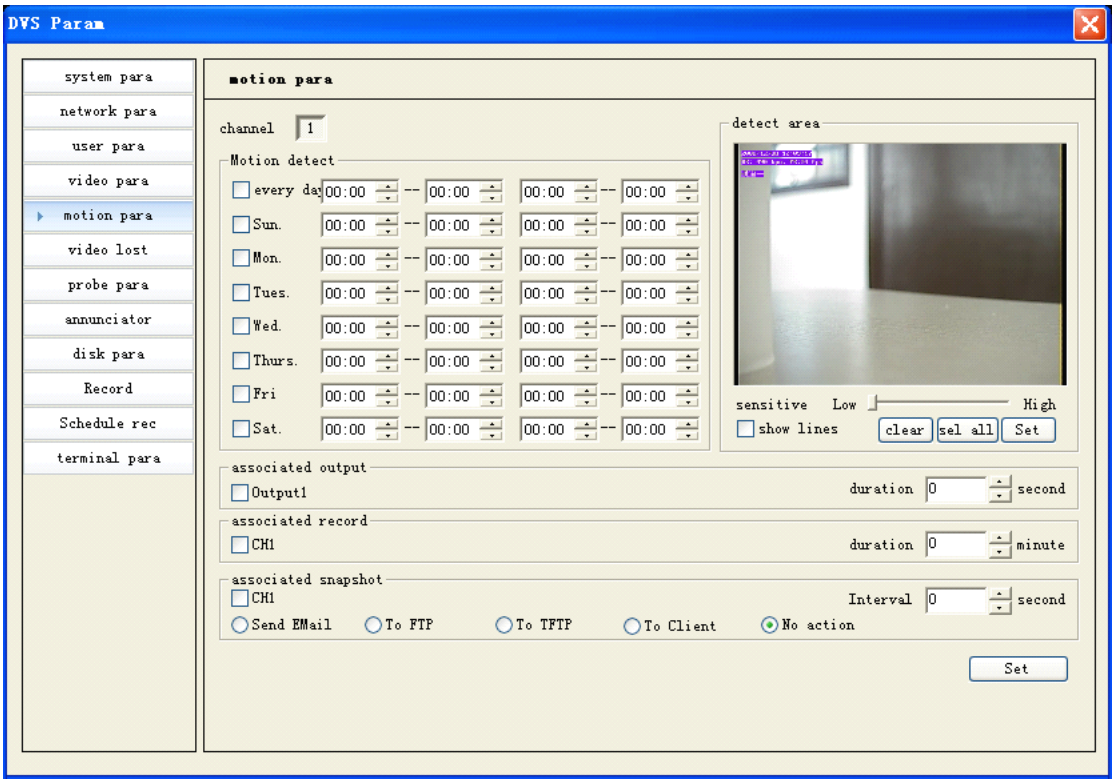
The window of video parameters is as follows:



You can set the video for each channel: name, title, Logo enabled, key frame interval, frame rate, Mask area, and video parameters (luminosity, chromatograph, contrast, and saturation). If it is a CMOS camera, you can set Flip, Mirror, and Frequency (50Hz or 60Hz).

4.9.5. Motion para

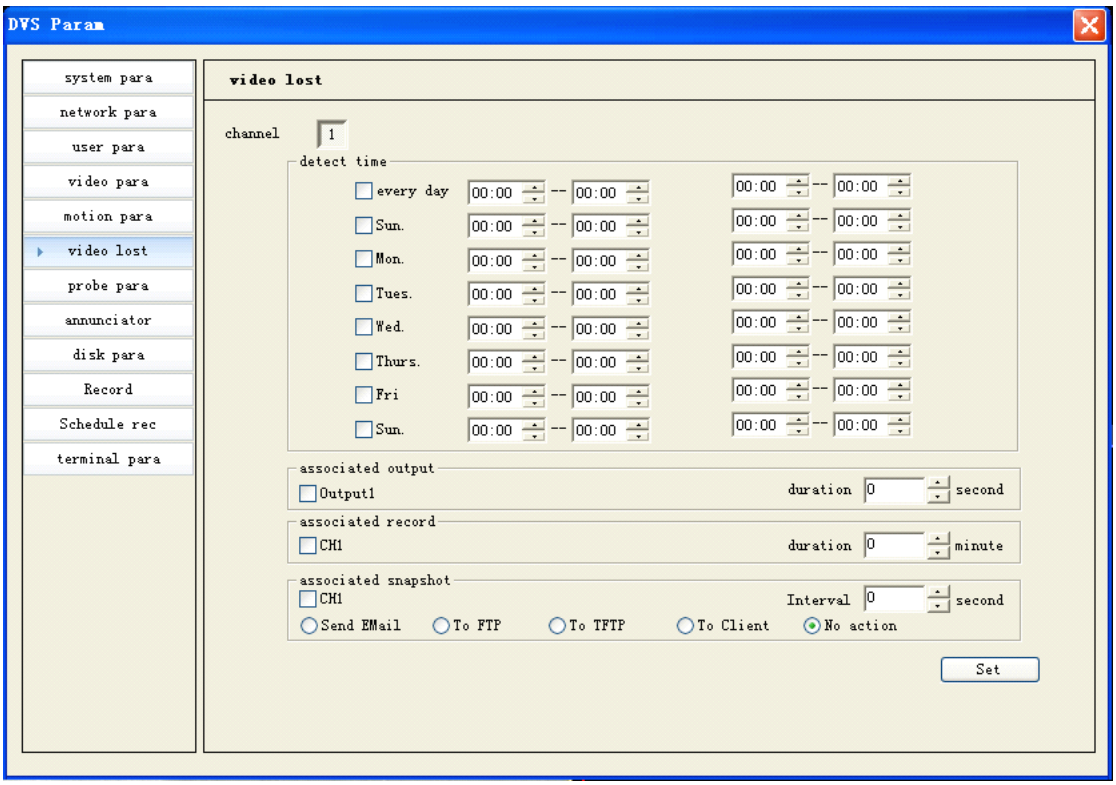
The window of motion detection parameters is as follows:



You can set the motion detection parameters of each channel here: motion detection area (The monitoring window is separated into 11 x 9 pieces. You can single click the piece you want to detect to set or remove detection), working hours, sensitivity, auto alarm deletion (alarm delay time), associated output, associated record, associated snapshot, and Send EMail (note: this function is not recommended as the JPG file created by snapshot will occupy resources of DVS and the network).

4.9.6. Video lost (only DVS)

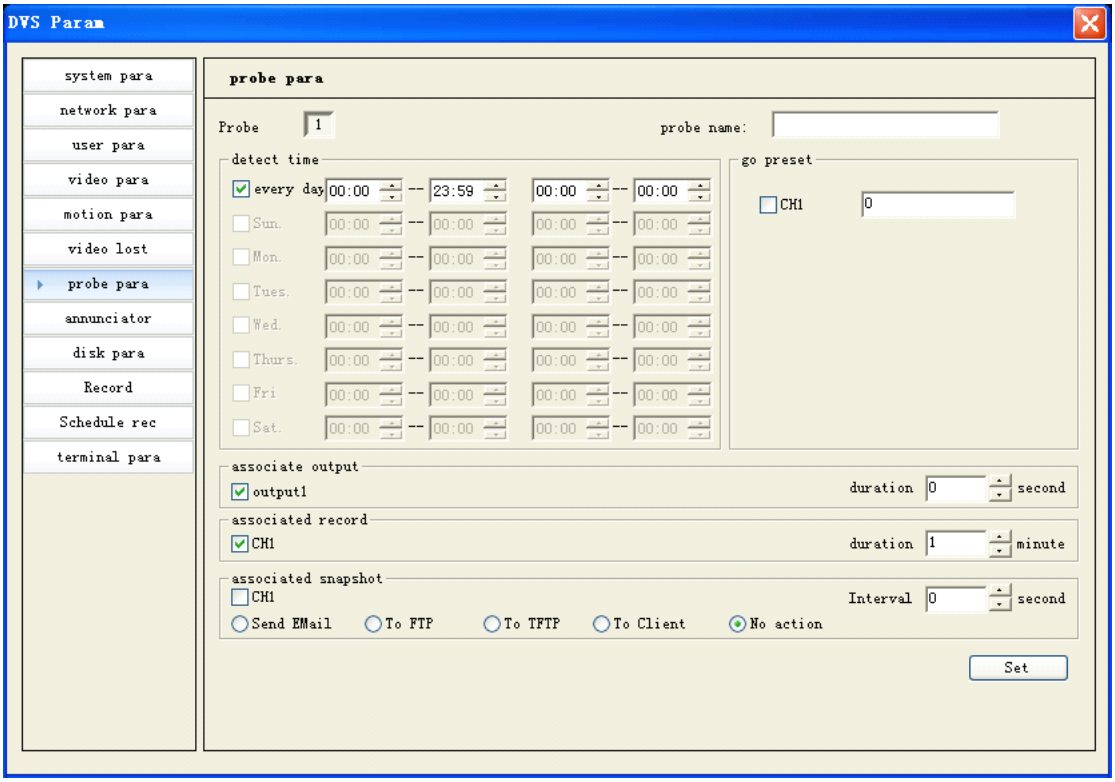
The window of video lost is as follows:



You can set the video lost alarm here: video lost detect time period, associated output, associated record, associated snapshot, and Send EMail (note: this function is not recommended as the JPG file created by snapshot will occupy resources of DVS and the network).

4.9.7. Probe para

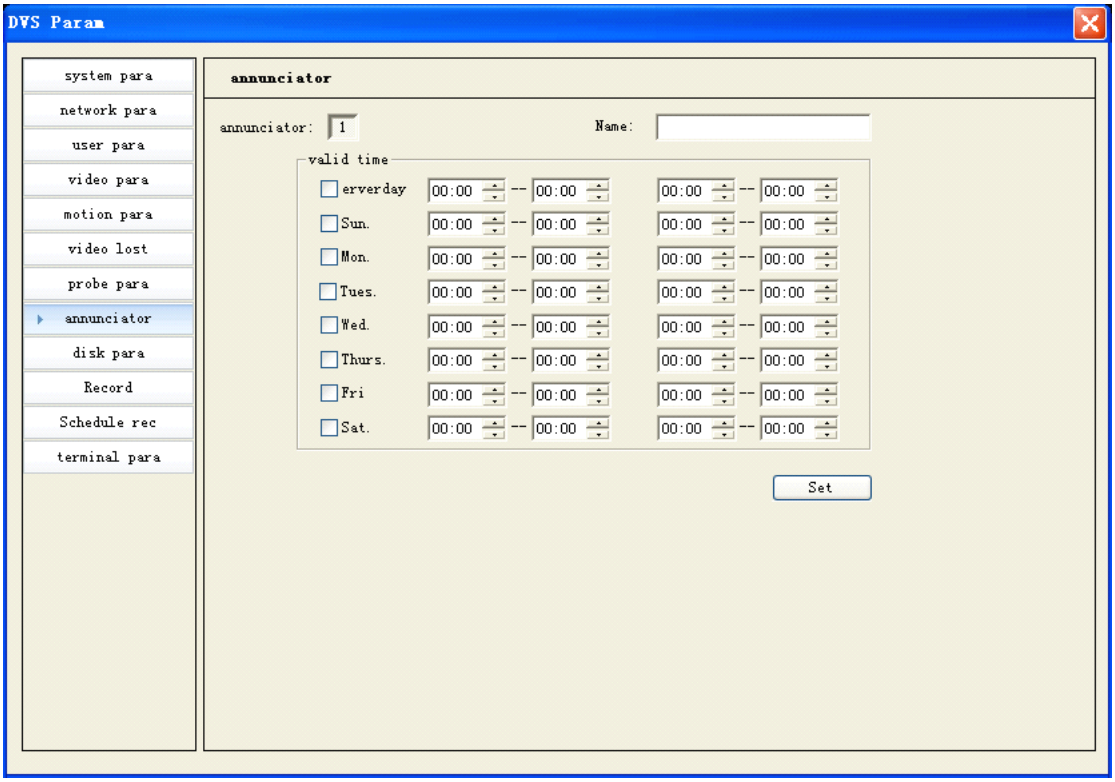
The window of Probe parameters is as follows:



You can set every probe here: probe name, detect time period, associated output, associated record, associated snapshot, and Send EMail (note: this function is not recommended as the JPG file created by snapshot will occupy resources of DVS and the network).

4.9.8. Annunciator

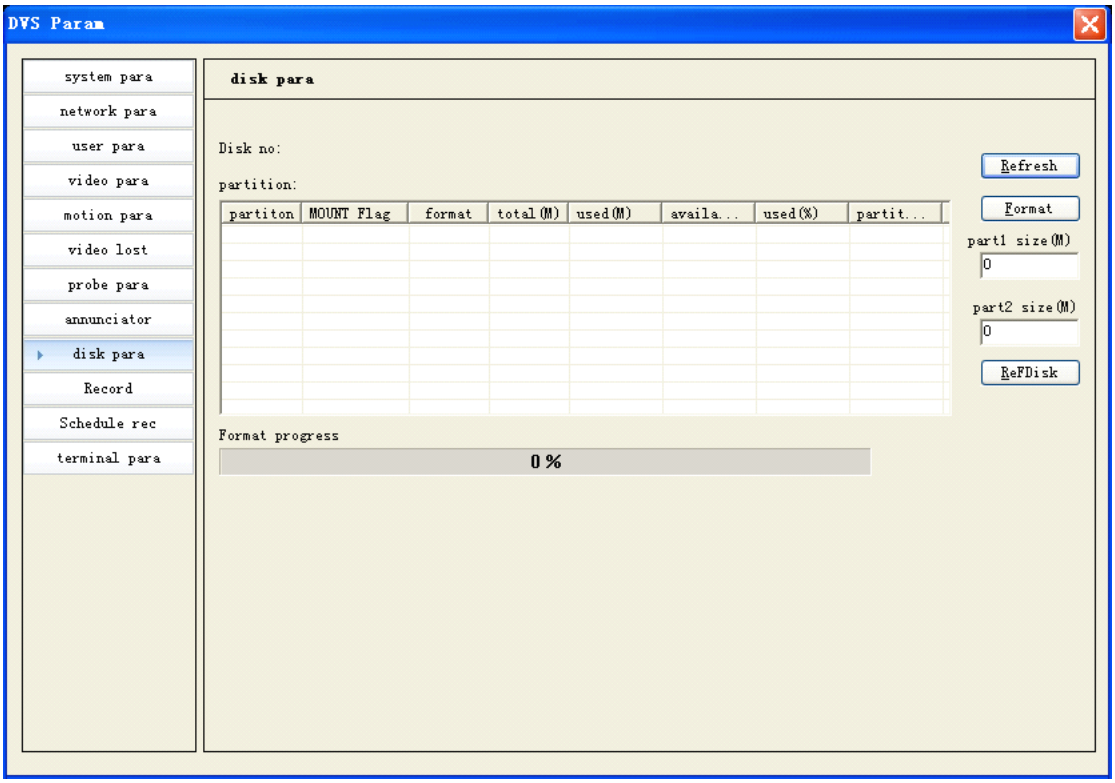
The window of alarm annunciator is as follows:



You can set the name of annunciator and its working time period. Within the working hours, the annunciator can be triggered by motion detection or other probes, if they output alarms.

4.9.9. Disk para

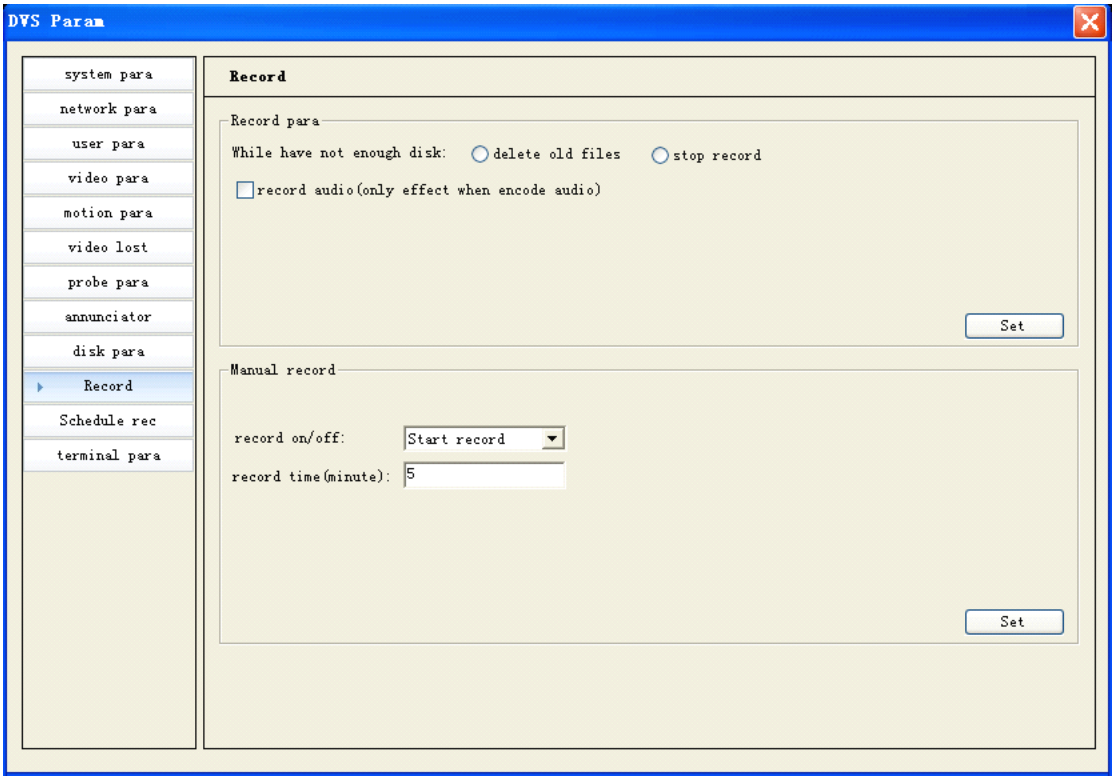
The window of Disk parameters is as follows:



You can see the information about the disk installed on the DVS, and make partition or format it.

4.9.10. Record

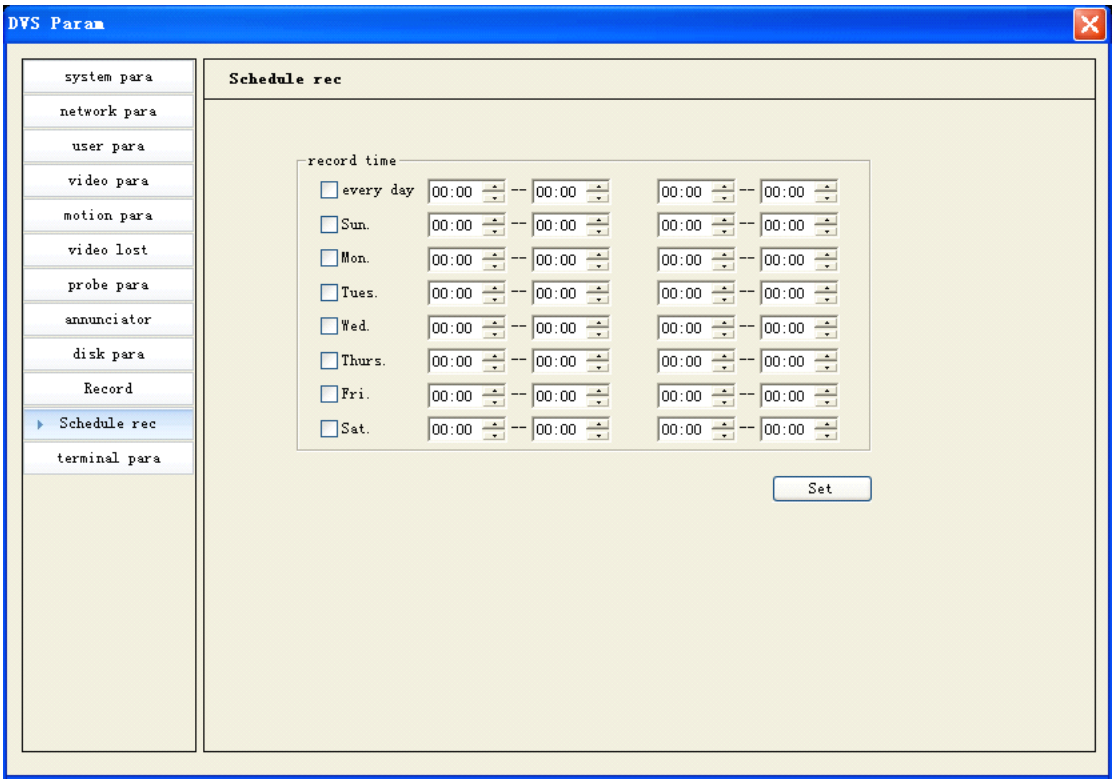
The window of video recording is as follows:



You can set the video recording and manually recording control here.

4.9.11. Schedule rec

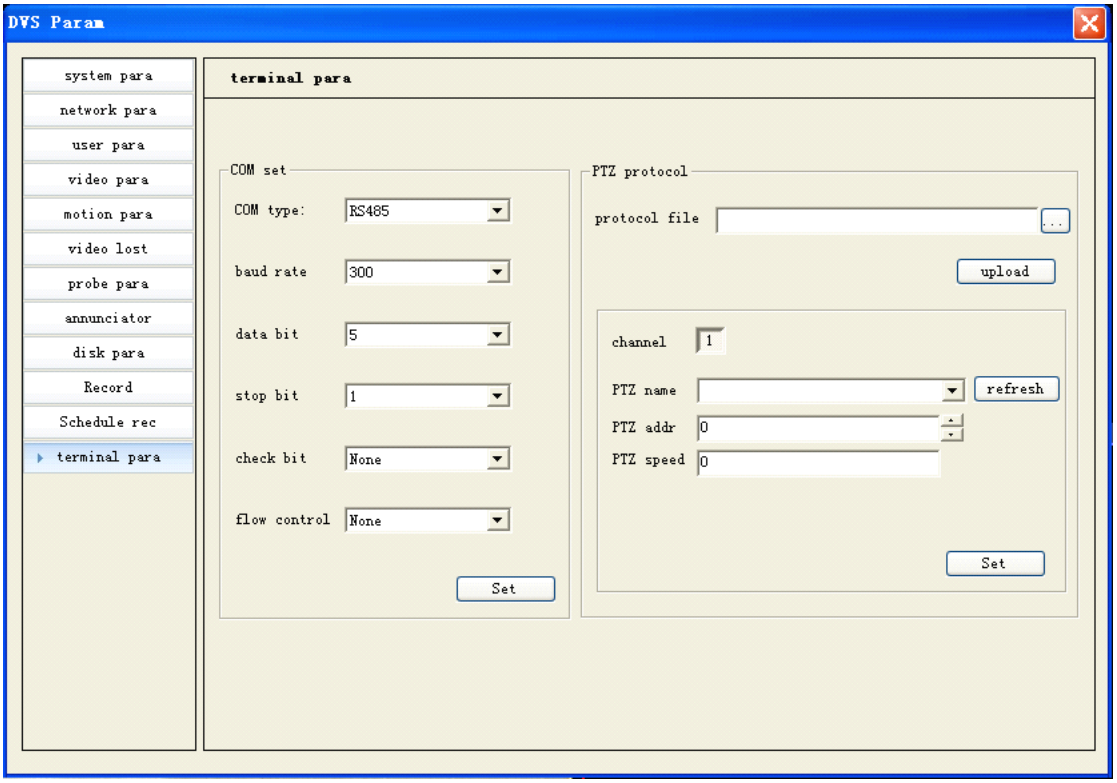
The window of scheduled recording is as follows:



You can set the video recording schedules here.

4.9.12. Terminal para

The window to set DVS terminal parameters is as follows:



You can set the DVS COM ports and download Pan/Tile protocols to DVS. Also you can set the IP address of each channel for the Pan/Tile decoder.

The built-in protocol which is downloaded from the Pan/Tile should have correct bit rate, and data bit of RS485 COM ports.

The bit rate and data bit of RS232 COM ports should be correctly set if you use RS232 to collect data.

Appendix I: The decode protocols supported by the system

Number	Name of protocols	Notes
1	AB.COD	
2	ABK2001.COD	
3	AILIC_SAE.cod	
4	DRAGON.COD	
5	EE.COD	
6	HY.COD	
7	JIAJIE_PELCO_D.cod	
8	Kallaite_DOME.cod	
9	KONY_M800CI.cod	
10	KONY_TMCIA.cod	
11	LILIN_PIH_1016.cod	
12	MTR600.cod	
13	NEWCODER.cod	
14	PELCO_D.COD	
15	PELCO_D_AB.cod	
16	PELCO_D_NS_1.cod	
17	PELCO_D_NS_2.cod	
18	PELCO_P.COD	
19	PELCO_P_NS.cod	
20	PELCO_P_WD.cod	
21	SAMSUNG_641.cod	
22	SE300_SHARPEYES.cod	
23	SE600_HY.COD	
24	SE600_PELCOD.cod	
25	SE600_SHARPEYES.cod	
26	SE600S1_HY.cod	
27	SE600S1_PELCOD.cod	
28	SE600S1_SHARPEYES.cod	
29	SONET.COD	
30	SYYT.COD	
31	TCSTD_Y10.cod	
32	TOTAB01.cod	
33	TOTAB01_DOME.cod	
34	Visdom.cod	
35	W110_PTZ.COD	
36	YAAN.cod	
37	YOULIDVR.cod	

Appendix II: Troubleshooting

You CANNOT access the IP Camera through DVS Image Center

Possible reason #1: network is not connected properly.

Solution: Use PCs to connect the network to test the network. First check the cable connection, and PC virus problem, then ping the IP address of each PC until there is no problem anymore.

Possible reason #2: The IP address of the DVS is occupied by other devices.

Solution: Disconnect the DVS and the network. Connect it with a PC. Then reset its IP address properly.

Possible reason #3: The IP address of the DVS and the IP Camera may be in different subnet.

Solution: Check their IP address, subnet mask, and gateway to see if they are in same subnet.

Possible reason #4: The web port is changed.

Solution: Contact your LAN network administrator to get the right information of web port.

Possible reason #5: Unknown

Solution: Press the reset button on the back of the DVS to make the DVS to default settings. Then restart it. The default IP address is 192.168.0.250. The subnet mask is 255.255.255.0. And the DHCP is enabled.

You CANNOT control the Pan/Tile and camera

Possible reason #1: Cable is not connected properly.

Solution: Reconnect the Pan/Tile or the camera together with the DVS.

Possible reason #2: The decoder protocol, the IP address, or the bit rate is not set properly.

Solution: Double check the settings and make sure they are correct.

You CANNOT hear sound when monitoring

Possible reason #1: There is not audio input.

Solution: Check the audio cable connection of the DVS.

Possible reason #2: The audio settings of the IP Camera are not opened

Solution: Check the audio settings of the IP Camera.

The audio quality is poor

Possible reason #1: If there is a lot of noise and the sound is distorted, please check whether the audio input is line in. In many cases, when the audio input is not line in (for example, an amplified microphone is used instead), the audio signal will not comply with the input electric level. It leads to saturated distortion.

Solution: Set the proper line in audio input allowed by the DVS.

Why the data cannot get through the network switch?

Possible reason #1: The IP address is wrong if it is a two-layer switch.

Possible reason #2: The port and the MAC address are not bound together.

Possible reason #3: The switch's firewall is not set properly.

Solution: When you check about the possible reasons, make sure you connect a PC to the network and type "ping" in the CMD mode. Check the result information. If the PC cannot "ping" the DVS correctly, there must be some problem in the settings. If the IP address is bound with the MAC address, similarly, you should add a new binding of the IP address and MAC address of the DVS in the switch. If the DVS is not included in the switch's firewall, then you should reset the switch's firewall with the correct web ort and the communication port of the DVS.

Default settings of the DVS

IP address: 192.168.0.250	Web port: 80
Subnet mask: 255.255.255. 0	Multicast: random
Gateway: 192.168.0.1	Multicast start port: random
Data port: 4000	DHCP: enabled

Thank you for choosing our product!