

Client Software User's Manual

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1 Brief Introduction

The software used to realize the central control for all internet video monitor devices (including:DVS and IP camera) : monitor, data storage, data transfer\manage\control. This version support 1/4/6/8/9//12/16//20/25/30 display, OSD setting, talkback, record playback, alarm control and MD, etc. The interface is friendly and easy, can help to control more than one device in same time. The main functions below:

- Realtime monitor, support CIF/QCIF/Half-D1/D1 format
- Support talkback function
- Support ptz function, allow Pelco D/P and other transparent protocol
- Support alarm /MD/time/ manual trigger record
- Support MD(area/sensitivity optional)/private mask/picture snap
- Support SMTP, send picture to mailbox when alarm
- Support DDNS/PPPoE/DHCP
- Support UPnP,auto configuration port
- Support long distance online upgrade

2 Installation Guide

◆ System requirement

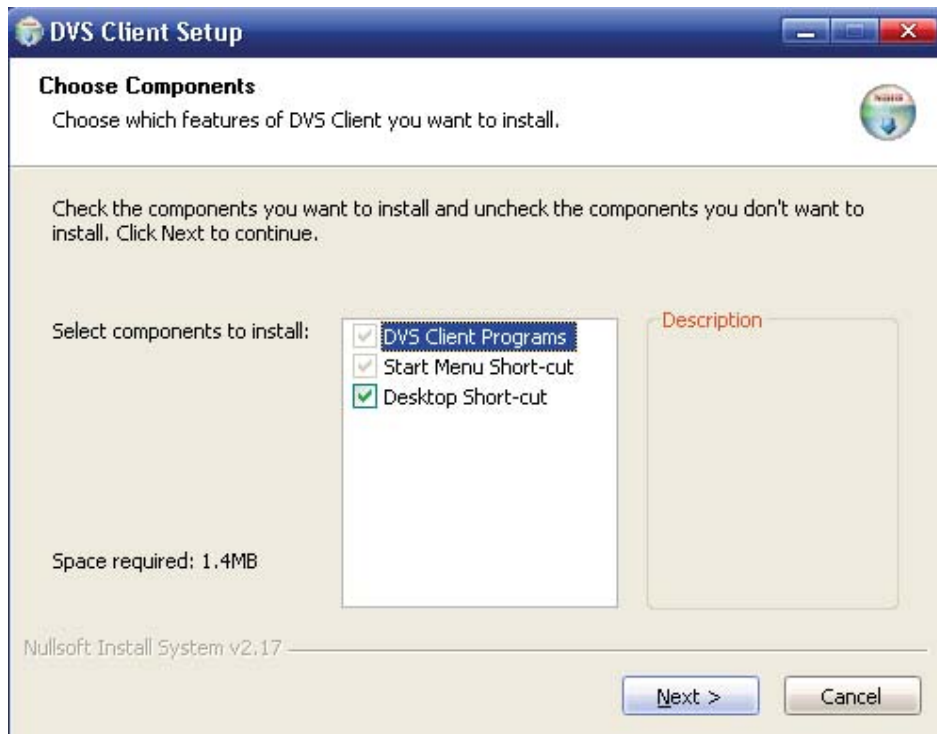
- Operating System: Windows 2000/XP/Vista
- Processor: Intel Pentium III, 1G or Higher (Pentium IV, 2G or Higher recommended)
- RAM: 256 MB or more
- Color Monitor: At least DirectX 8.1 or higher and 32M Display storage
- HD: More than 40G

◆ Software installation

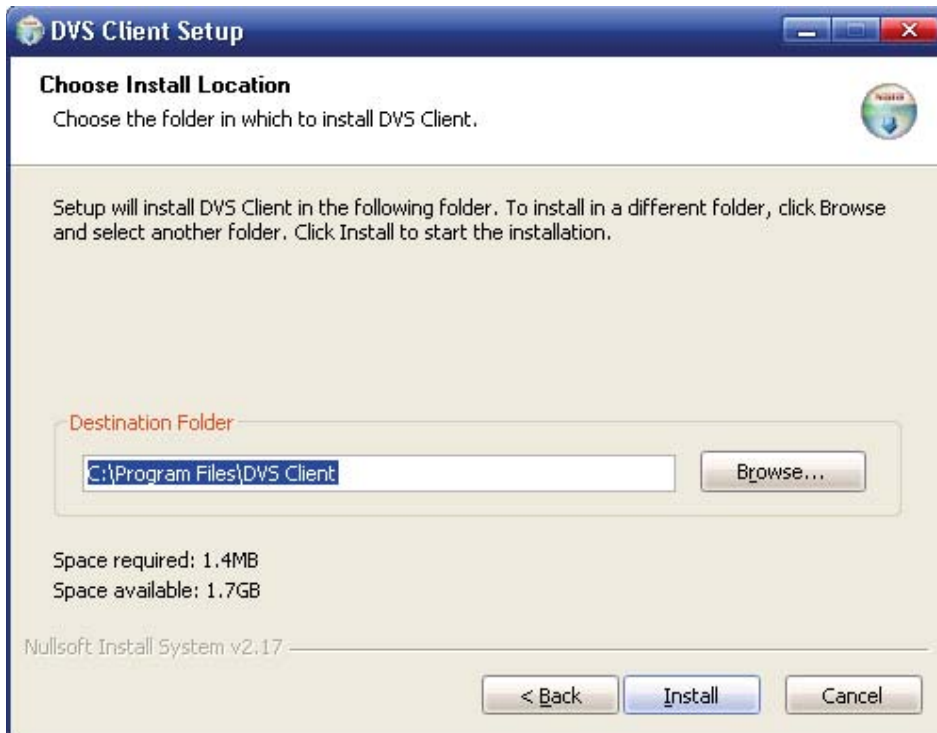
Run the client software DVS_Client_Setup.exe, the window below will pop up:



Select English, and click **[OK]**:



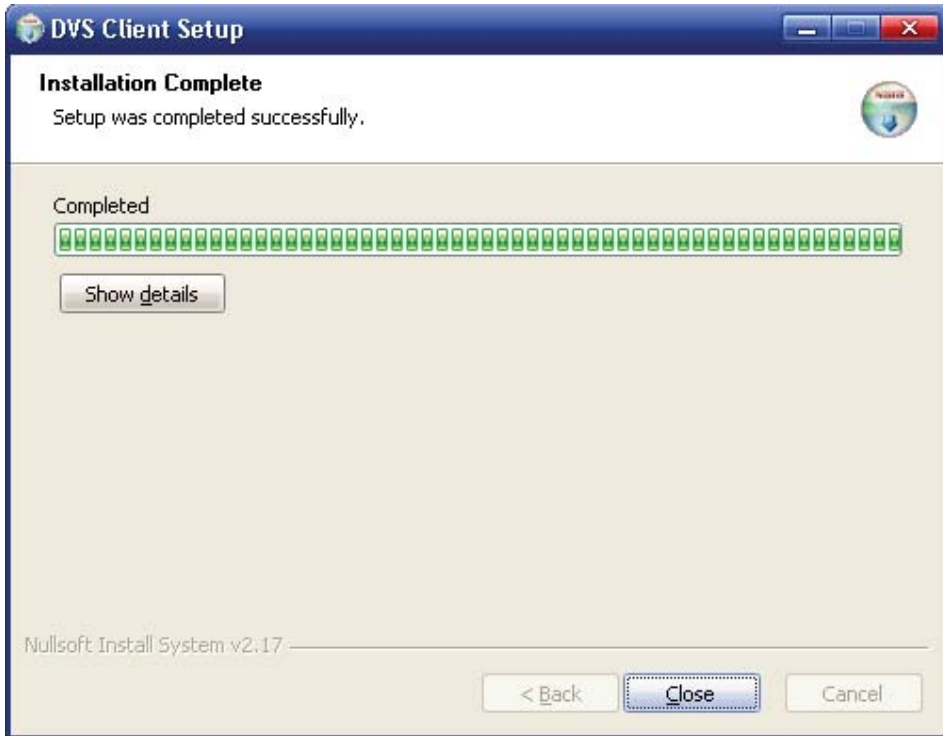
Click **[Next]** , the window below will pop up:



Press **[Browse...]** to change the default path. If you do not want to change, press

【Install】 .

The below window will pop up:

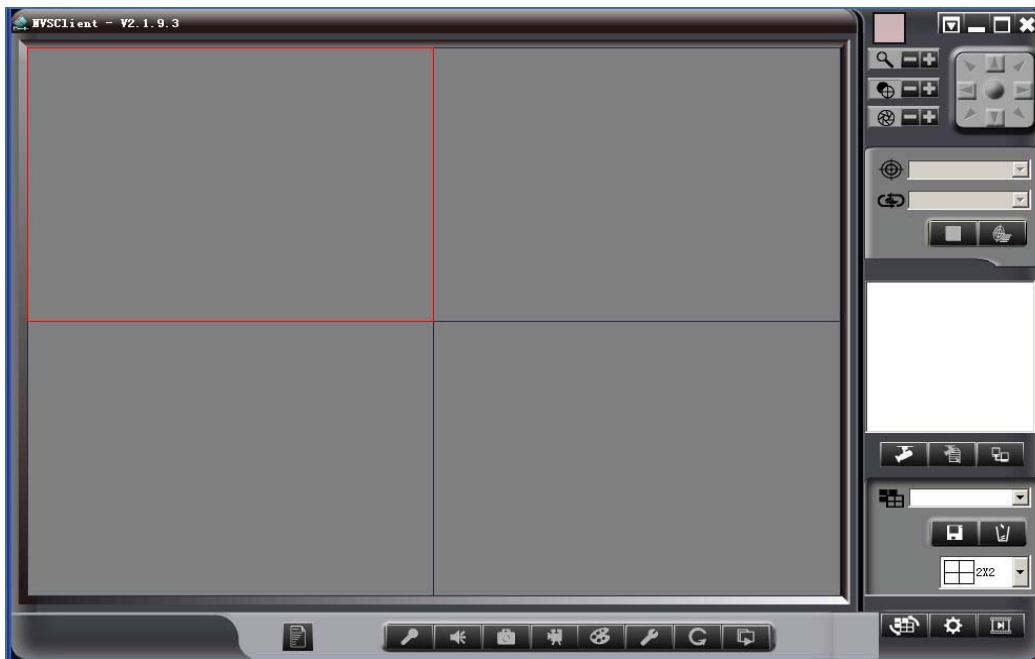


Then the setup is completed successfully.


3 Software Instructions

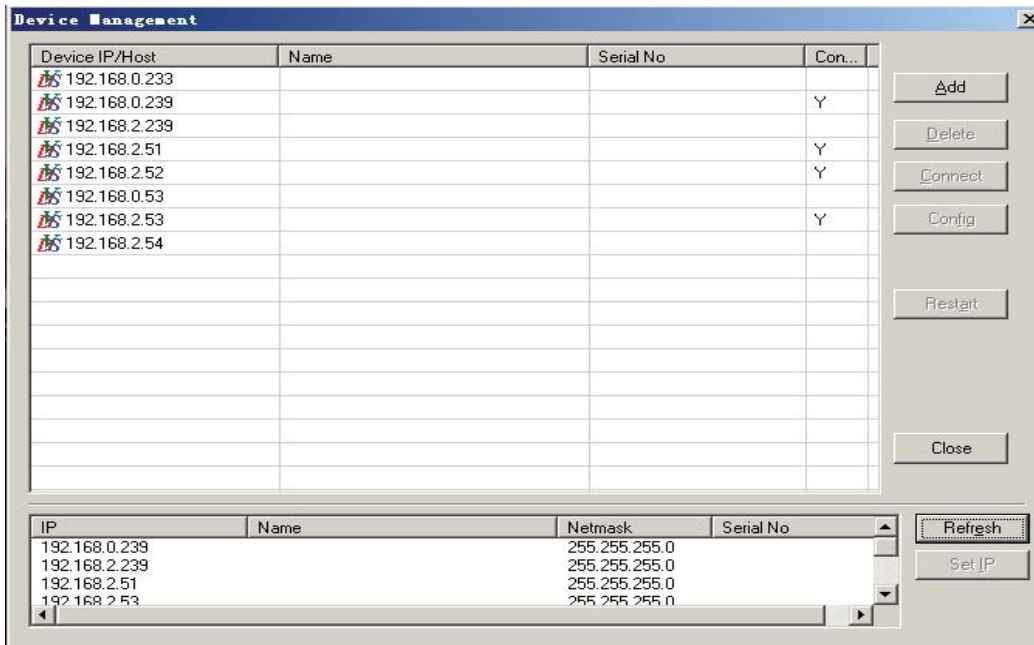
3.1 Main Interface

Run DVS Client software, need input password, default is **blank**. Please refer [【Client Setup】](#) → [【local user management】](#) for user name and password change. The interface as below:



For the first login, user need add the IP address/domain name in order to trigger the monitor screen, the steps are as follows:

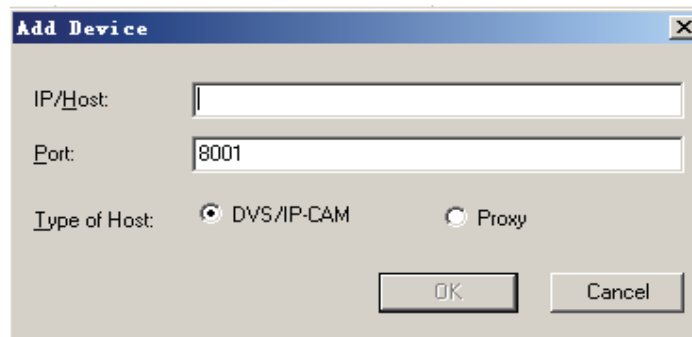
- ① Click  on the right side, pop following dialog:



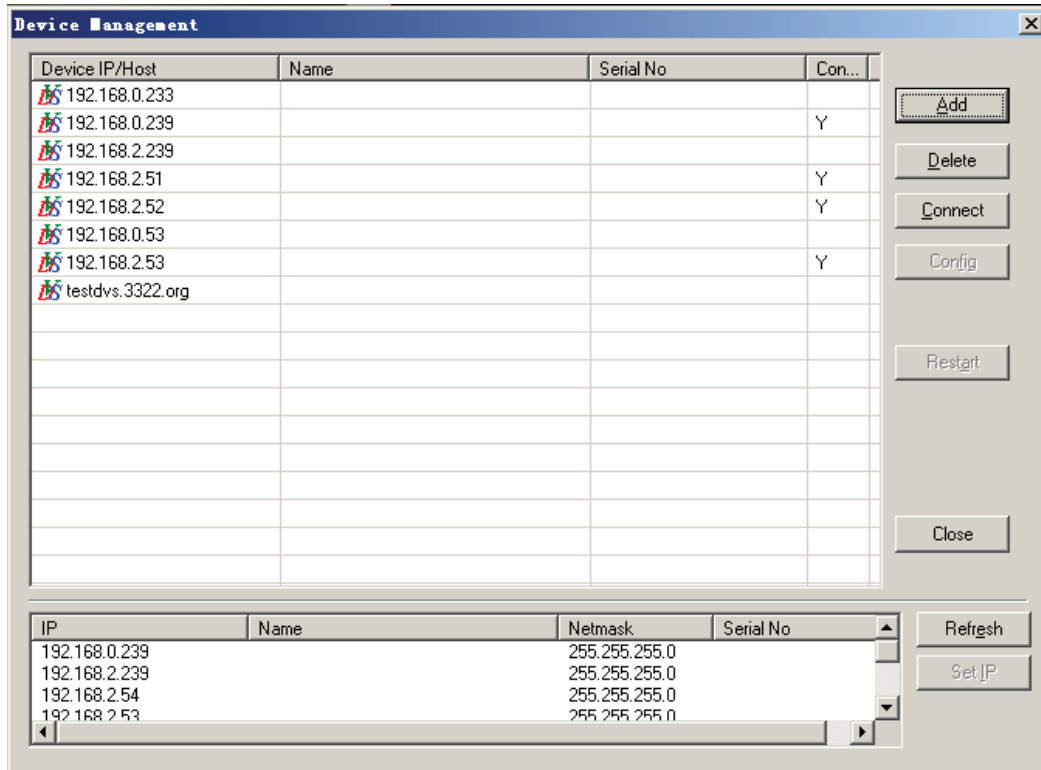
Mark1: If device not in same network segment, the software can search the IP address but can't link. Please change device and pc in same segment.

Mark2: Default IP is 192.168.0.233, gateway is 192.168.0.1.

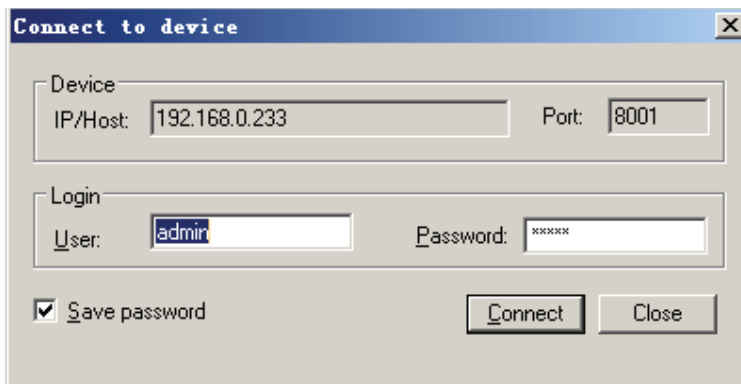
② Can add device IP address/ Domain name by manual, click **add** pop following dialog:



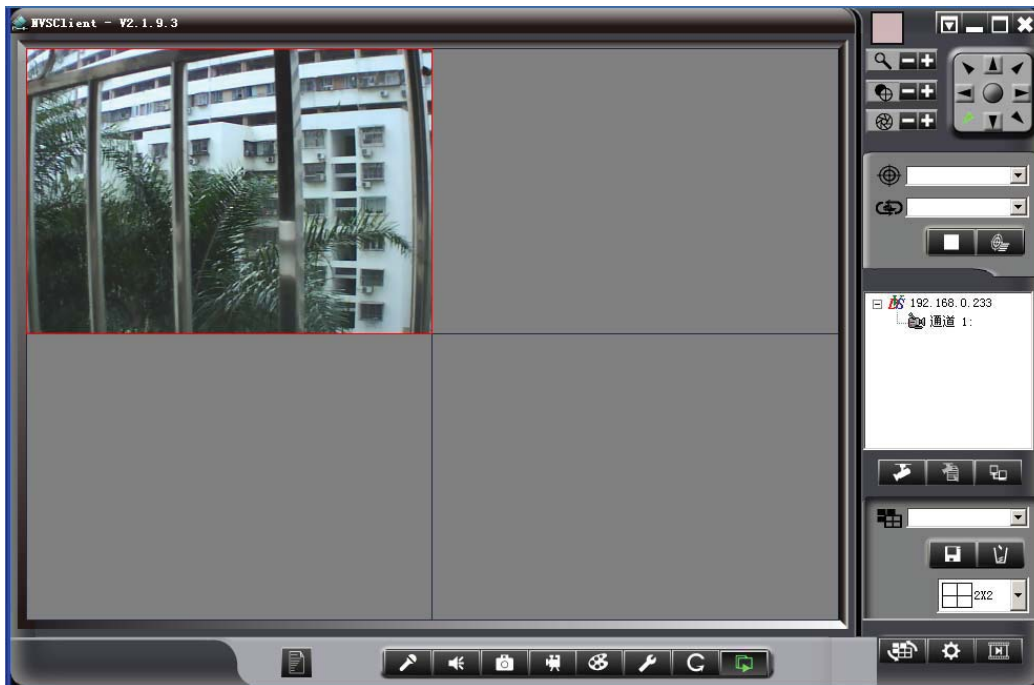
③ Input device IP/domain name, eg input IP/Host testdvs.3322.org, port 8001, device type "DVS/IP-CAM",click **OK** pop following dialog:



④ Choose the right device, input user name and password, default is **admin**, as following:



⑤ Click **【Connect】**, the right column will display the device address, choose "channel 1", hold the left button, drag it to the need window, as following:


















3.2 The function descriptions

3.2.1 Toolbar



Followed by login info, talk, sound, snap, record, color, setup, rotation, play.

- ◆  : Click to check device user number
- ◆   : Click for Talk off/on
- ◆   : Click for Sound off/on
- ◆  : Click for current channel snap

- ◆  : Click to start or off record. Click  for record path setting, Click  for record playback
- ◆ : Click for brightness/contrast/Saturation/color setting. Default 128 , range is 0-255
- ◆  : Click for current screen off/on
- ◆ : Click for screen rotation
- ◆ : Click for image quality/OSD/screen mask/MD setting

3.2.1.1 Image Quality

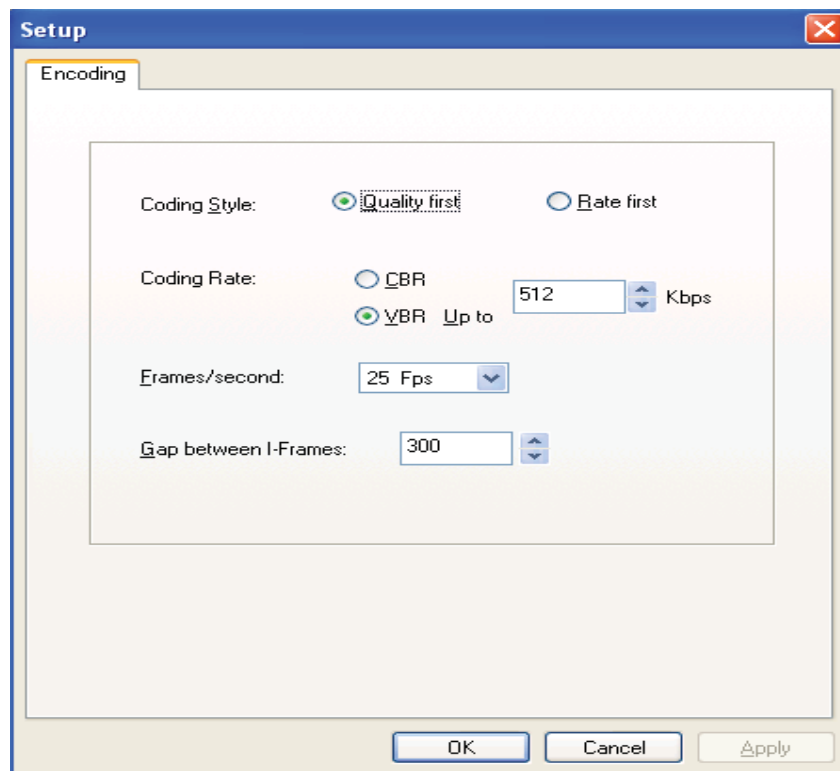
Allow setting frame mode,stream type,frame rate,I frame interval,see below:

【Coding Style】 Qualith priority or speed priority

【Coding Rate】 Fixed or dynamic. Fixed on suitable for fixed bandwidth.Dynamic suitable for record. Default dynamic stream, limits on 100Kbps.

【Frame/second】 Range is 1~25, default 10 Fps.

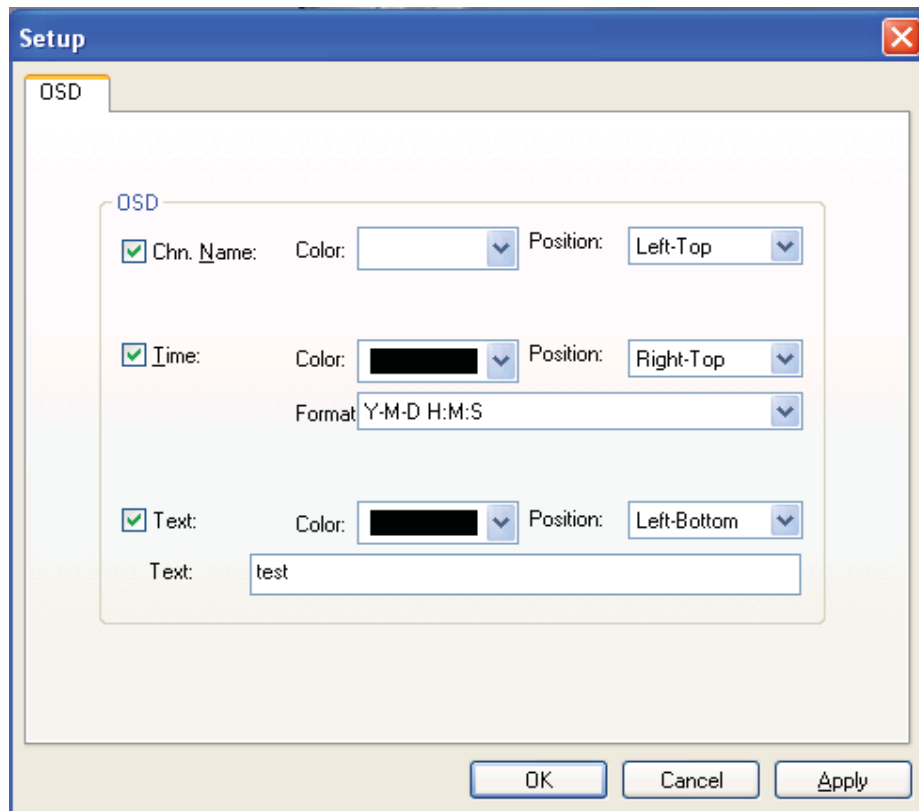
【Gap between I-frames】 One I frame in per 100 frame, default 300.



3.2.1.2 OSD

OSD is “on screen display”, mean the info accompany with the image. Allow setting

channel info, time, text color and position.



3.2.1.3 Sheltered Area

Sheltered Area as needed. Hold **【ctrl】** to drag mouse choose the area, click **【clear】** to delete it.

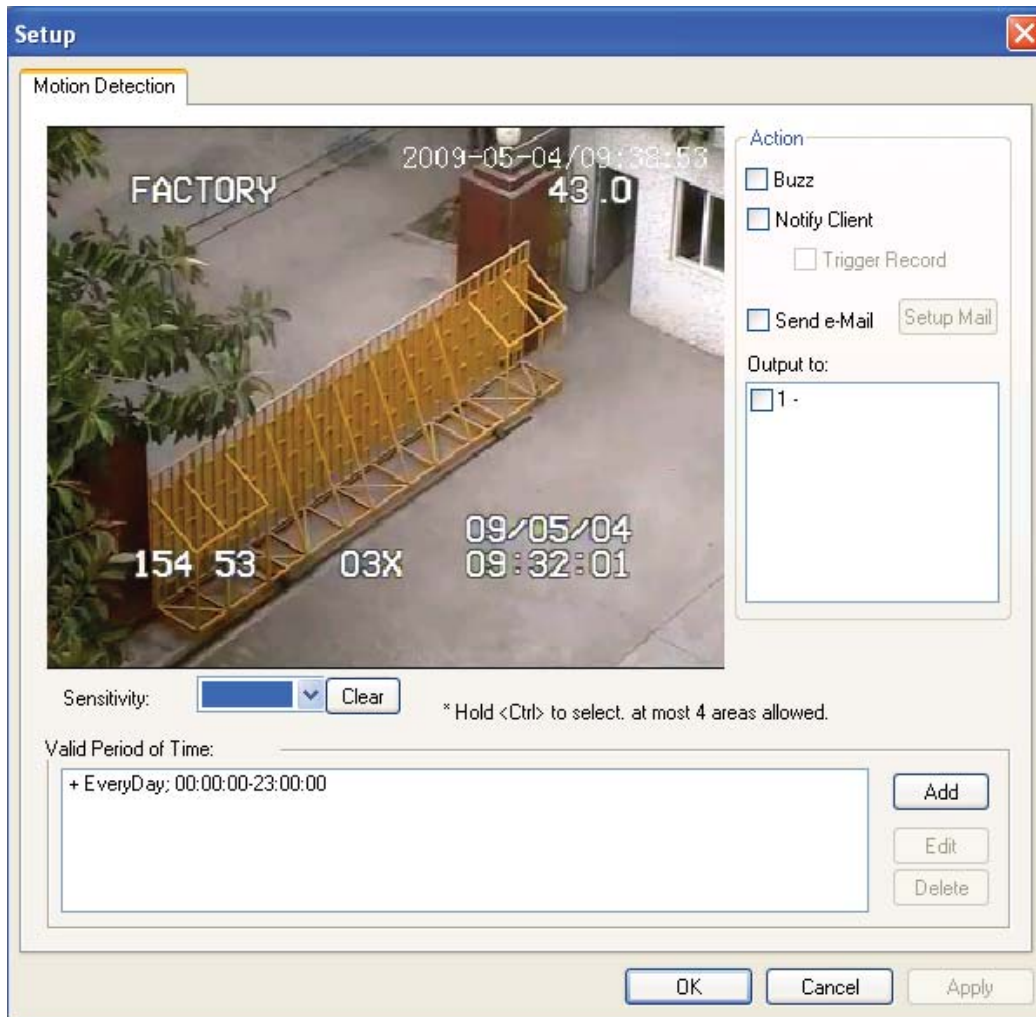


The mask effect as below:
















3.2.1.4 Motion Detection

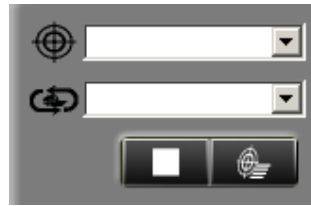
- 【Area setting】 Hold 【ctrl】 choose the area, max 4 zones allowed.
- 【Sensitivity】 Setting high for high sensitivity.
- 【Valid Period of Time】 Setting MD valid period and alarm valid period.
- 【Action】 Buzz, notify client, send e-mail.
- 【Output to】 Choose the display channel.



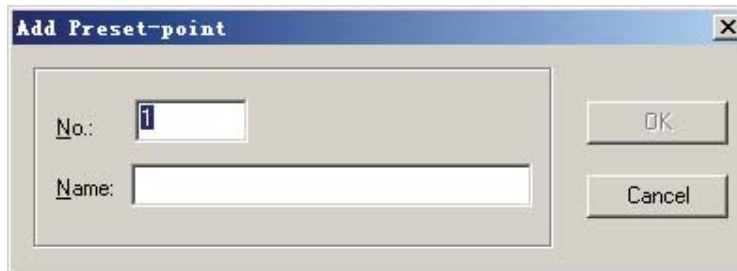
3.2.2 PTZ Control


- ◆ Click    adjust focus
- ◆ Click    adjust aperture
- ◆ Click    adjust lens
- ◆ Click up/down/left/right control pan&tlti or hold mouse left key adjust direction by drag the middle dot
- ◆ Preset : choose preset from drop down list can control pt to the setting position. Click the mouse right key then choose **【set current view as a preset point】** for preset .

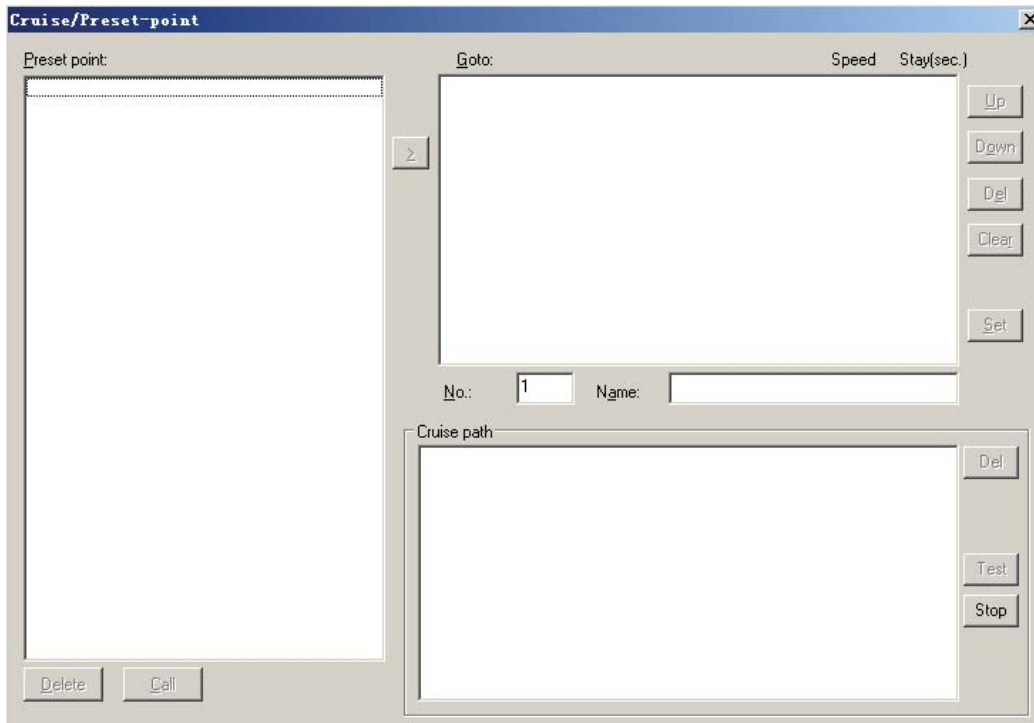
- ◆ Cruise : Click  setting the route or choose the already one by drop down list, click  to stop the cruise.






Click the mouse right key then choose **set current view as a preset point** ,pop following dialog:



Click , set your cruise route in the following dialog:





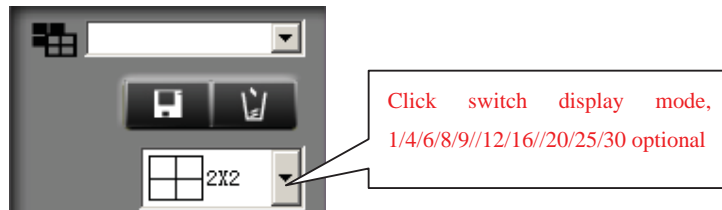
3.2.3 Device List

Display connected devices name, domain name, channel name ,etc. Click  to add device. Click  to pop device property dialog. Click  connect or disconnect device.



3.2.4 Interface Structure

Click following button can adjust your own display mode. Click  save or click  delete.



3.2.5 Other Function



3.2.5.1 Screen Switch

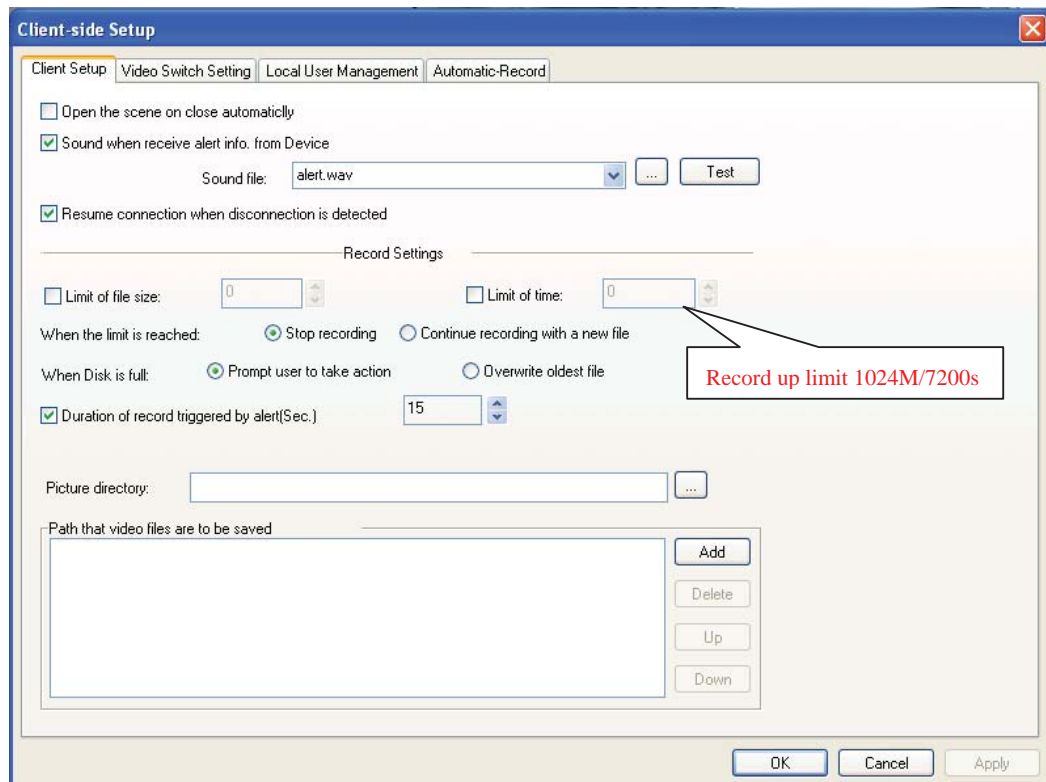
Click  to start or stop screen switch ( mean the switch is in process).

3.2.5.2 Client_side Setup



◆ Client Setup

Click  to setup record path/alarm trigger record period/sound/last time scene.

More than one path can be saved, the top one will be the default record path.




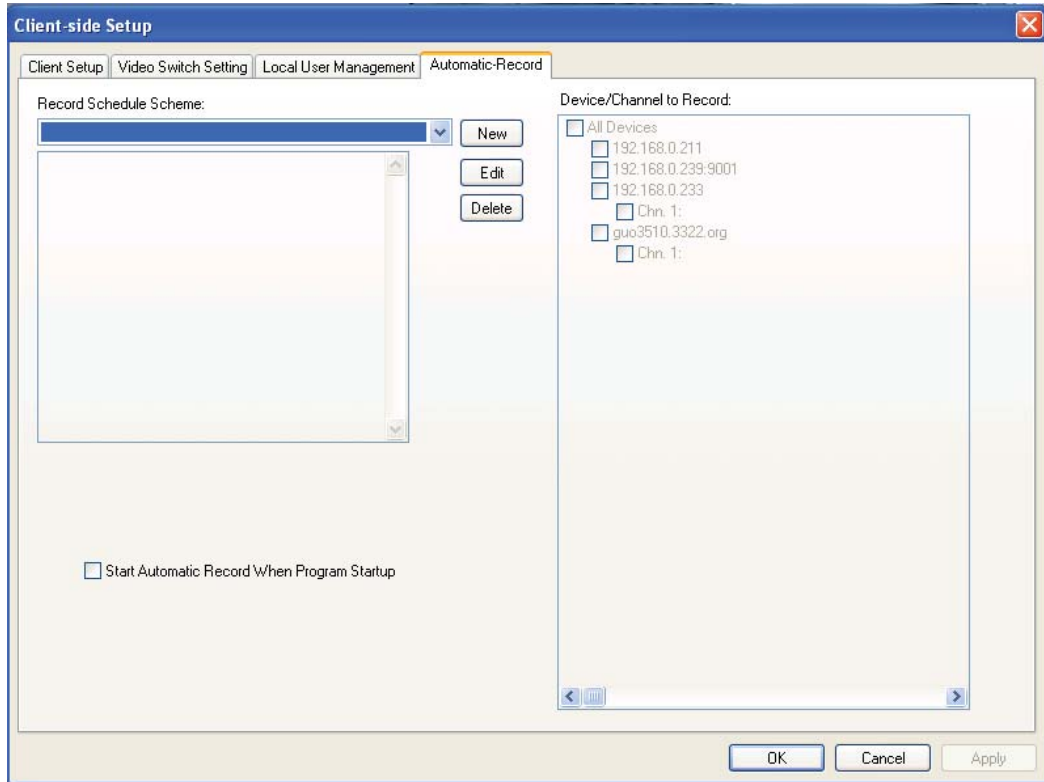
◆ Video Switch Setting

It will realize multi-device or different channels switch in one screen. Click **【page】** arrow to add/delete page, click **【stay】** arrow to add/delete standstill period, click **【 2x2 】** choose display mode, hold mouse left key drag the wanted channel to the right column or delete it by double click the channel name.


◆ Automatic_Record

Allow time record channel/period setting, save path setting in **client setup** . The

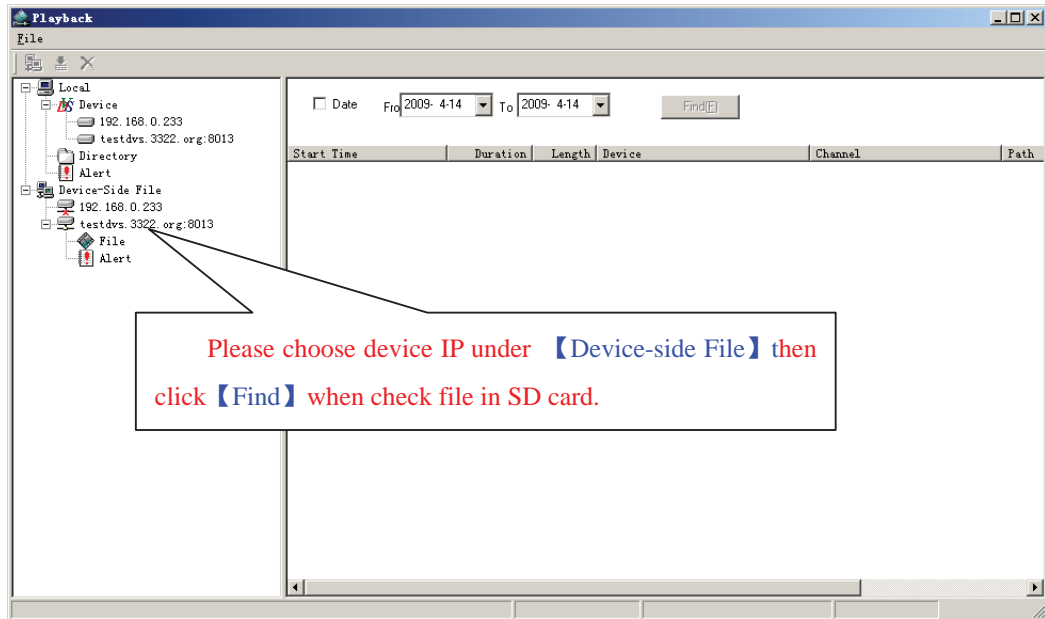
interface indicator  will blink after start this function.



3.2.5.3 Playback

Click  pop following dialog, Search need file through catalog or event list.


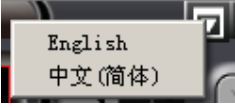
Double click to play the file.




Mark1:Event mean trigger MD or alarm, event record mean MD or alarm trigger record.

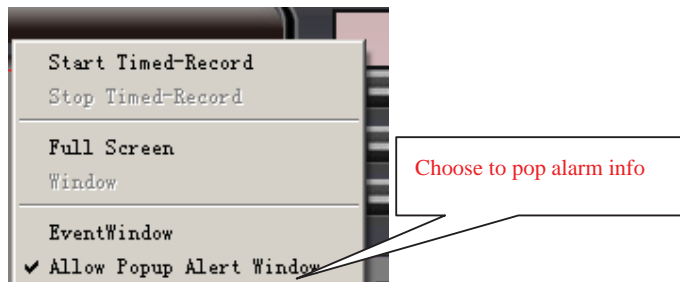
Mark2:Device port file mean file save in linked SD card.

3.2.5.4 Language Version


The software support Chinese and English, click  pop  to switch.

3.2.5.5 Full Screen

Click  change to full screen mode, all action will be locked under this mode, input administrator password when quit. Click the right button to pop:

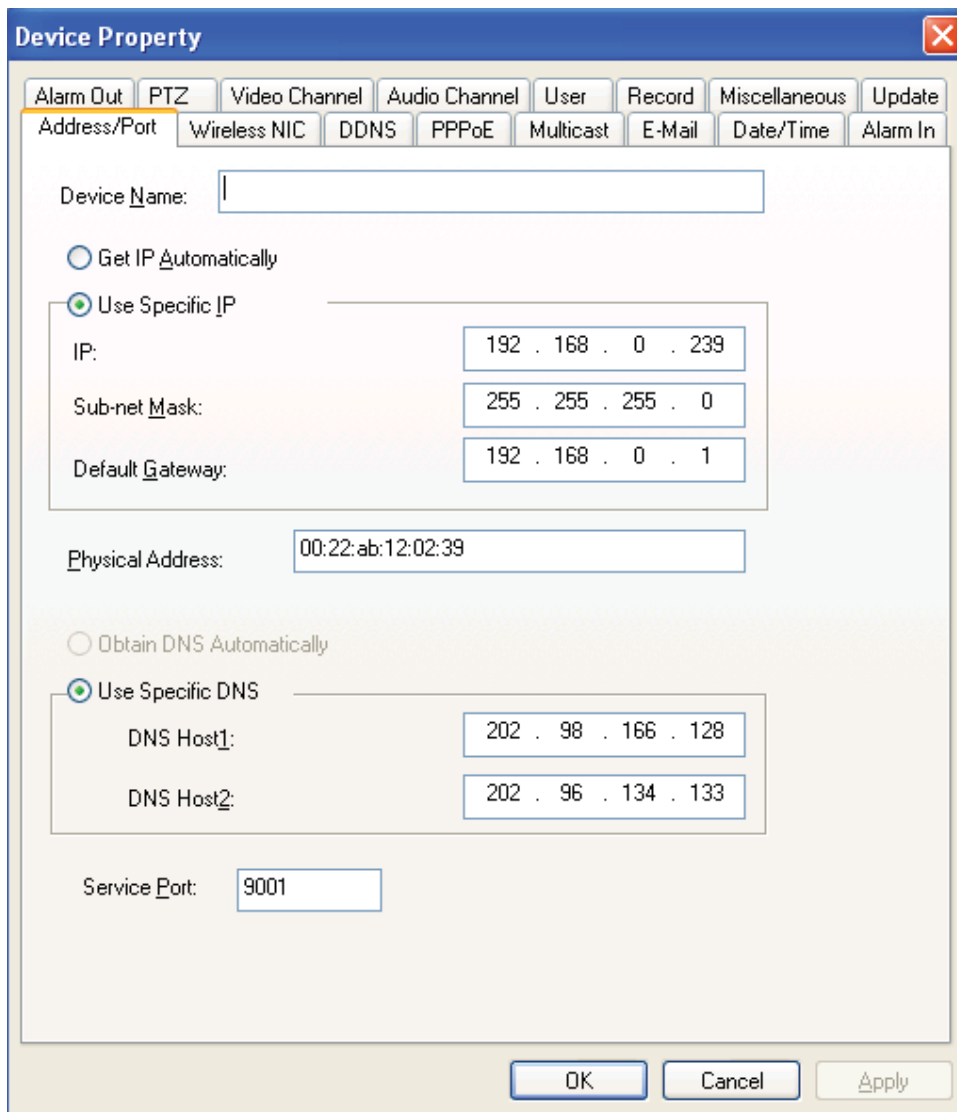


3.3 Device property

Click  or choose IP address in device list, click **【Property】** by right key to pop dialog, setup or adjust IP address、DDN、PPPoE、broadcast configuration、user management、update online,etc.

3.3.1 Address/Port

Default IP address:**192.168.0.233**, subnet mask:**255.255.255.0**, gateway:**192.168.0.1**, service port **8001**. After change, system will register you restart your device to valid the setup. Change service name not need restart.



The screenshot shows the 'Device Property' dialog box with the 'Address/Port' tab selected. The dialog has a title bar with a close button (X) and a menu bar with tabs: Alarm Out, PTZ, Video Channel, Audio Channel, User, Record, Miscellaneous, Update, Address/Port, Wireless NIC, DDNS, PPPoE, Multicast, E-Mail, Date/Time, and Alarm In. The 'Address/Port' tab is active. The 'Device Name' field is empty. There are two radio buttons: 'Get IP Automatically' (unselected) and 'Use Specific IP' (selected). Under 'Use Specific IP', there are three input fields: 'IP:' with value '192 . 168 . 0 . 239', 'Sub-net Mask:' with value '255 . 255 . 255 . 0', and 'Default Gateway:' with value '192 . 168 . 0 . 1'. Below these is a 'Physical Address:' field with value '00:22:ab:12:02:39'. There are two more radio buttons: 'Obtain DNS Automatically' (unselected) and 'Use Specific DNS' (selected). Under 'Use Specific DNS', there are two input fields: 'DNS Host1:' with value '202 . 98 . 166 . 128' and 'DNS Host2:' with value '202 . 96 . 134 . 133'. At the bottom, there is a 'Service Port:' field with value '9001'. At the very bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Apply'.

Mark1: IP address will valid only after device restart.

Mark2: When link 2 or more devices, need change related IP address and physical address.

Mark3: Outer net visit need mapping the service port, refer router configuration part. DNS server needs change to current DNS IP address also.

3.3.2 DDNS

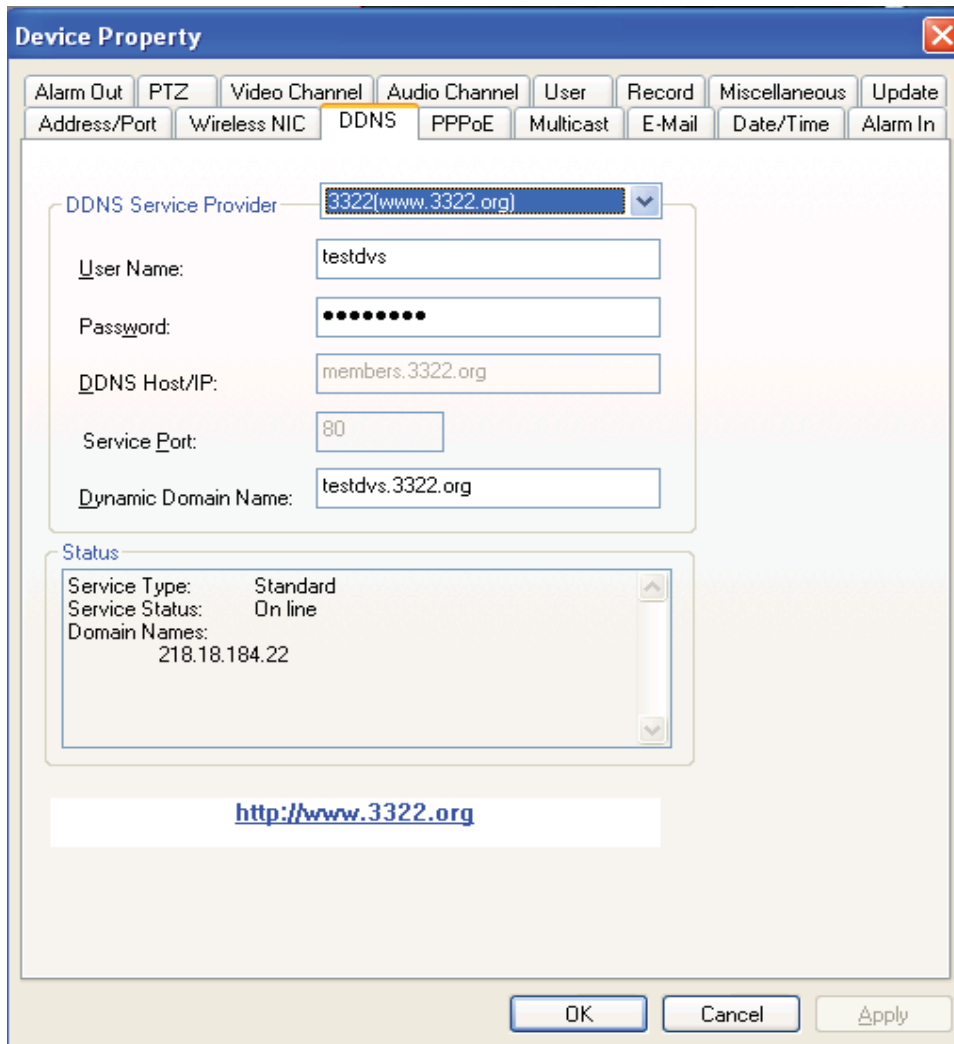
DDNS mean dynamic DNS, for unfixed IP domain name mapping. This client software support peanut shell、3322 and our company DDNS service. Just apply your domain name in the proper network station(refer to Part3.2) then click **【OK】** in the pop dialog, the DDNS will valid.

【DDNS Service Provider】 now support www.oray.net and www.3322.org.

【User Name】 One account can apply different domain name, the provider request not same.

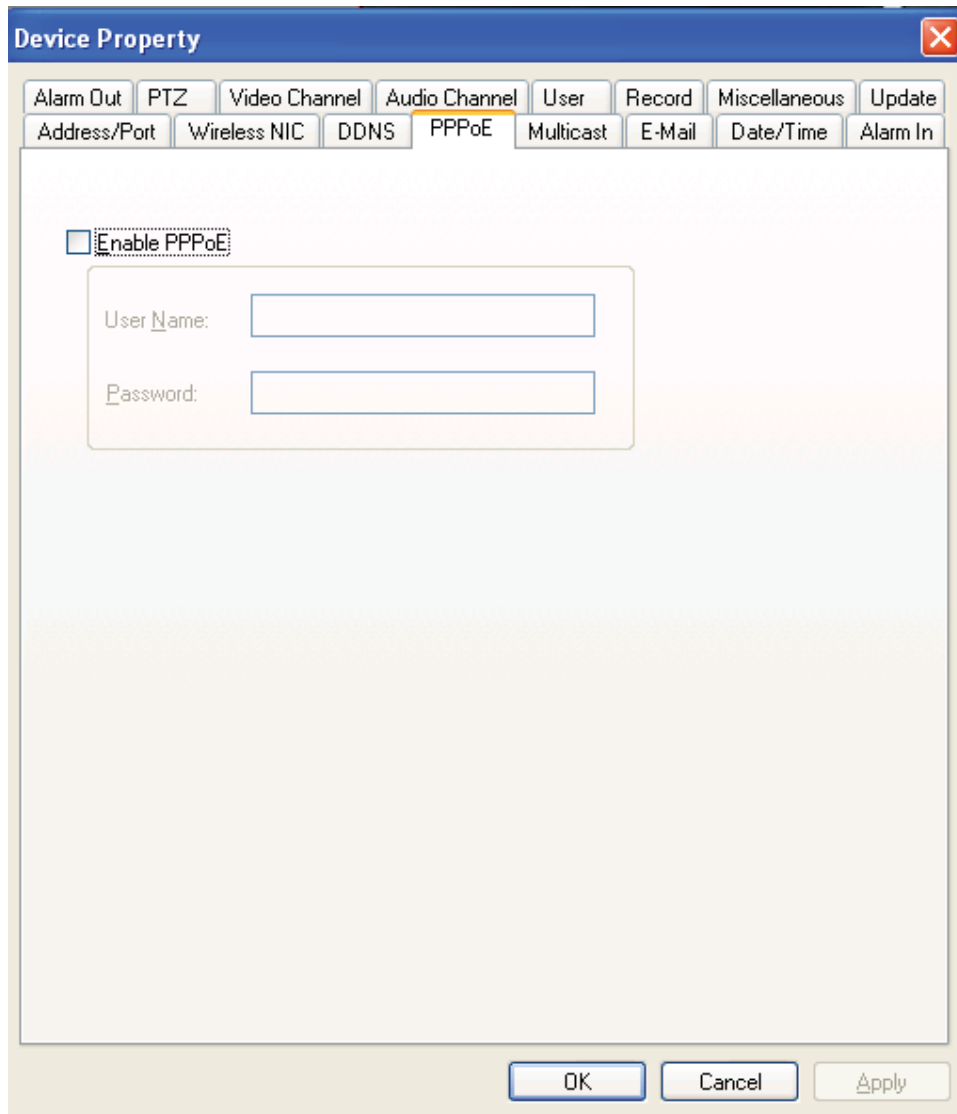
【Password】 The related password when you apply the domain name.

【Dynamic Domain Name】 According to domain integrated address.



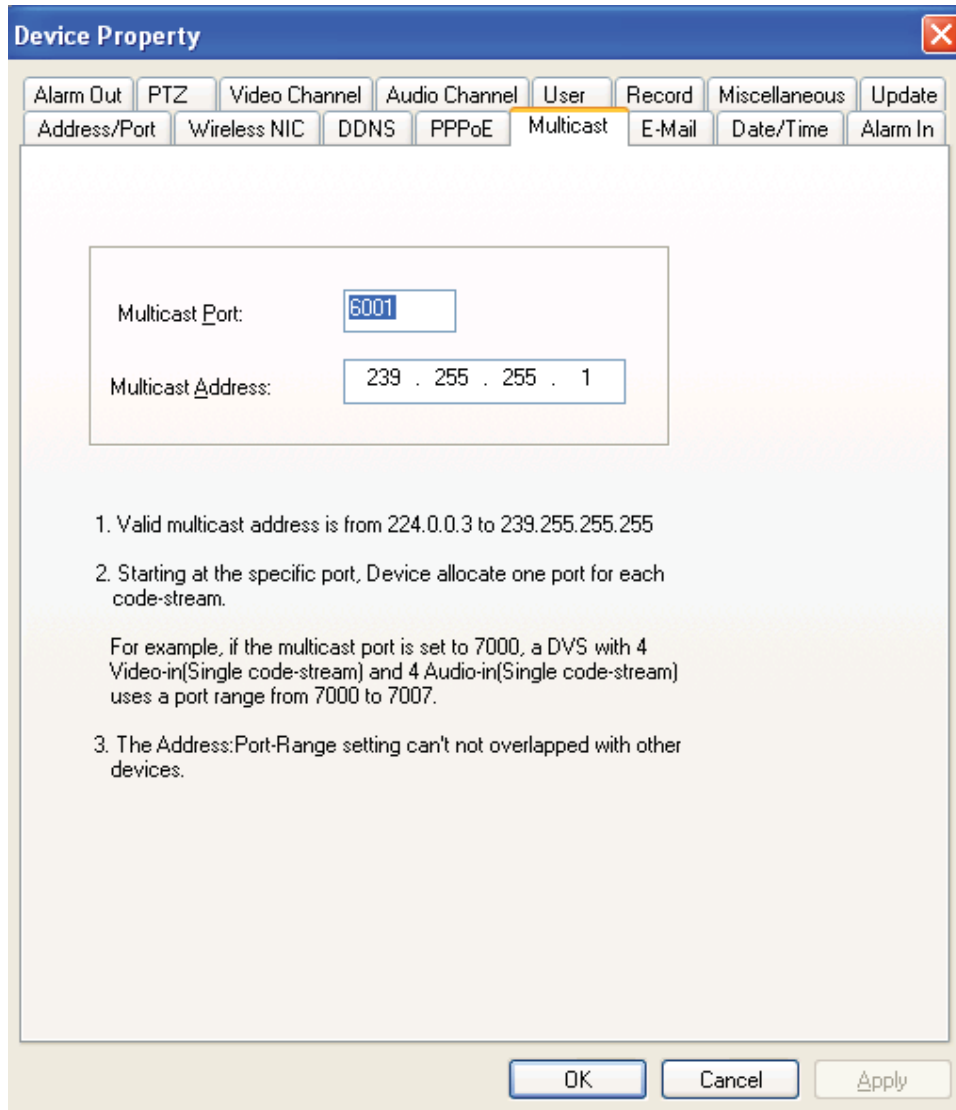
3.3.3 PPPoE

The client software allow PPPoE . Link the device to phone line through modem, dial to internet. User can visit the monitor picture by internet from long distance. Choose PPPoE in following dialog then input user name and password then click **【OK】** .



3.3.4 Multicast

Use set device as needed to realize the multicast function.



3.3.5 E-Mail

When choose mail service, the device will send event report and picture to the appointed mailbox when alarm or MD triggered.

【SMTP Server】 Follow your mailbox hints for related setup.

【SMTP Port】 default 25.

【Sender's Account】 Need according to the SMTP service if your mailbox support.

【User Account】 auto catch account info.

【Password】 Account related password.

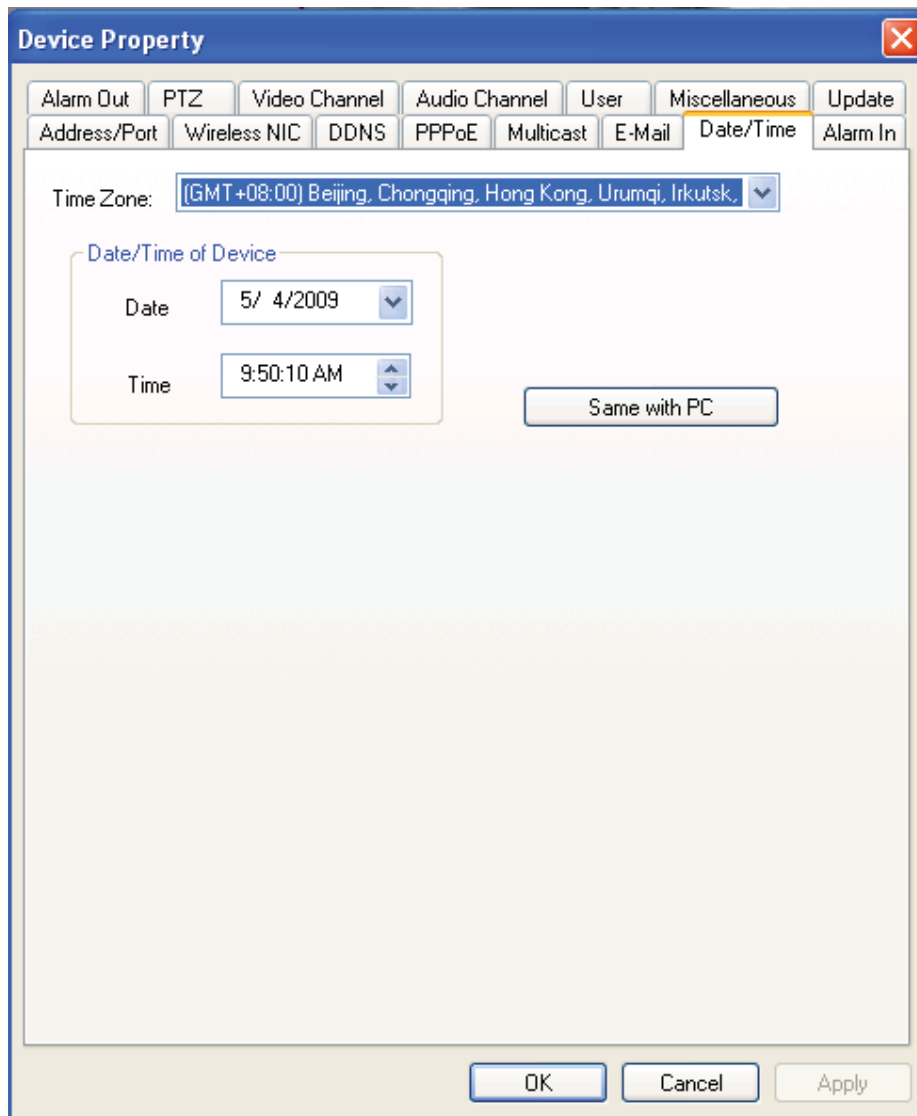
【Receiver's Account】 Any mailbox which can receive mail. Click 【Send A Test Mail】 after setup to confirm your action.

The screenshot shows a 'Device Property' window with the 'E-Mail' tab selected. The window has a title bar with a close button. Below the title bar is a navigation bar with tabs: Alarm Out, PTZ, Video Channel, Audio Channel, User, Record, Miscellaneous, Update, Address/Port, Wireless NIC, DDNS, PPPoE, Multicast, E-Mail (selected), Date/Time, and Alarm In. The main content area contains a checkbox labeled 'Enable SMTP Setting' which is currently unchecked. Below this checkbox is a form with the following fields: SMTP Server (empty), SMTP Port (25), Sender's Account (empty), User Account (empty), Password (empty), and Receiver's Account (empty). Below the form is a button labeled 'Send A Test Mail'. At the bottom of the window are three buttons: OK, Cancel, and Apply.

Mark: For outlook or foxmail user, need set the sender account to valid the function.

3.3.6 Date/Time

Adjust device date, time. Click 【Same with PC】 to synchronous with pc.



3.3.7 Alarm In

【channel】 Allow setup name for choosed channel.

【Actions take to response to alarm】 Sound alarm, notice client , send e-mail.

【Output to 】 Setup output channel.

【PTZ linkage】 Seperate、 preset、 cruise. Moniter channel must be appointed when choose preset or cruise mode.

【Valid period of time】 Setup alarm input time period. + mean valid period,- mean except the period.

Mark: The record in SD card will lead the real record time add 0-20s base the setting.

3.3.8 Alarm Out

【channel】 Allow setup name for choosed channel

【Valid period of time】 Setup alarm output time period. + mean valid period,- mean except the period

Device Property

Address/Port Wireless NIC DDNS PPPoE Multicast E-Mail Date/Time Alarm In
Alarm Out PTZ Video Channel Audio Channel User Record Miscellaneous Update

Channel: 1 Name:

Output port keeps off in normal state.

Duration of alarm out(Sec.):

Valid Period of Time:

- + Everyday: 00:00:00-23:00:00

Add Edit Delete

OK Cancel Apply

3.3.9 PTZ

【Video Channel】 choose video channel.

【Address】 Matching the PTZ address with protocol.

【Protocol】 Support Palco-D & Palco-P, default is Palco-D.

【Step Length】 Range 1~64, default 32. High speed will make the control hard , suggest under 32 for high speed dome.

【Comm Setting】 Set baud rate, data bit, stop bit, parity bit.

The screenshot shows a 'Device Property' dialog box with a 'PTZ' tab selected. The 'Video Channel' dropdown is set to 'Chn. 1 - IP239'. The 'Address' field contains '1' with a range of '(1~128)'. The 'Protocol' dropdown is set to 'Pelco-D'. The 'Step Length' field contains '32' with a range of '(1~64)'. Below these fields is a 'Comm Setting' section with four dropdown menus: 'Baud Rate' (2400 bps), 'Data Bits' (8 bits), 'Stop Bits' (1 bit), and 'Parity Bits' (0 - None). At the bottom of the dialog are 'OK', 'Cancel', and 'Apply' buttons.

3.3.10 Video Channel

【Channel】 Choose the channel no.

【Name】 Setup channel name.

【Resolution】 QCIF / CIF / Half_D1 / D1.

【PAL/NTSC】 Choose PAL or NTSC.

The screenshot shows a 'Device Property' dialog box with the 'Audio Channel' tab selected. The dialog has a title bar with a close button (X) and a menu bar with the following tabs: Address/Port, Wireless NIC, DDNS, PPPoE, Multicast, E-Mail, Date/Time, Alarm In, Alarm Out, PTZ, Video Channel, Audio Channel (selected), User, Record, Miscellaneous, and Update. The main area contains the following settings:

- Channel: 1 (dropdown menu)
- Name: IP239 (text input field)
- Status: On Off (radio buttons)
- Resolution: D1 (dropdown menu)
- PAL/NTSC: PAL (dropdown menu)
- Accompanying Audio Chn.: 1 (dropdown menu)

At the bottom of the dialog are three buttons: OK, Cancel, and Apply.

Mark1: Need restart device to valid new setup.

Mark2: 4 channel DVS only support channel 1 set as D1 format.

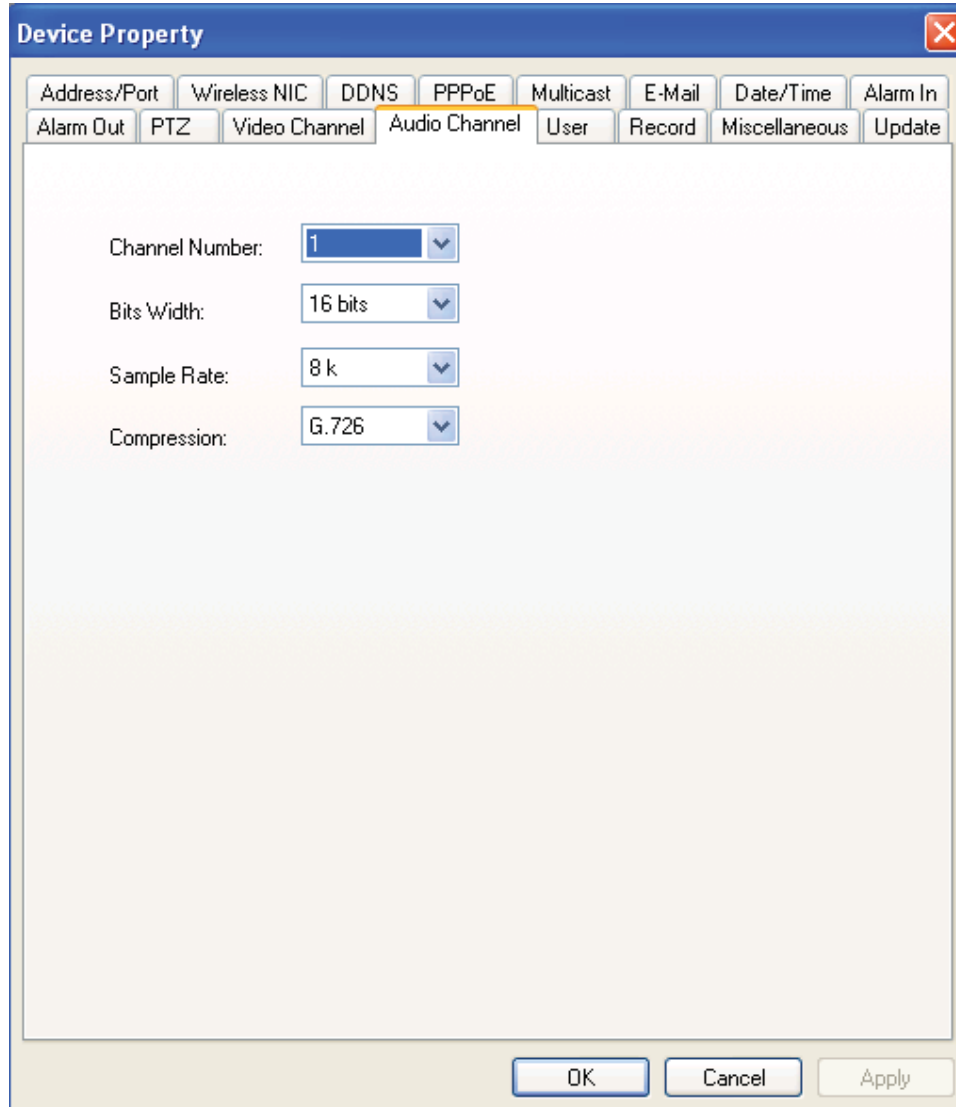
3.3.11 Audio Channel


【Channel Number】 Choose the channel no.

【Bits Width】 8bits / 16bits / 32bits optional.

【Sampling Rate】 The effect will better with frequency increase.

【Compression】 Choose different mode to compress audio steam(about 10 tims).



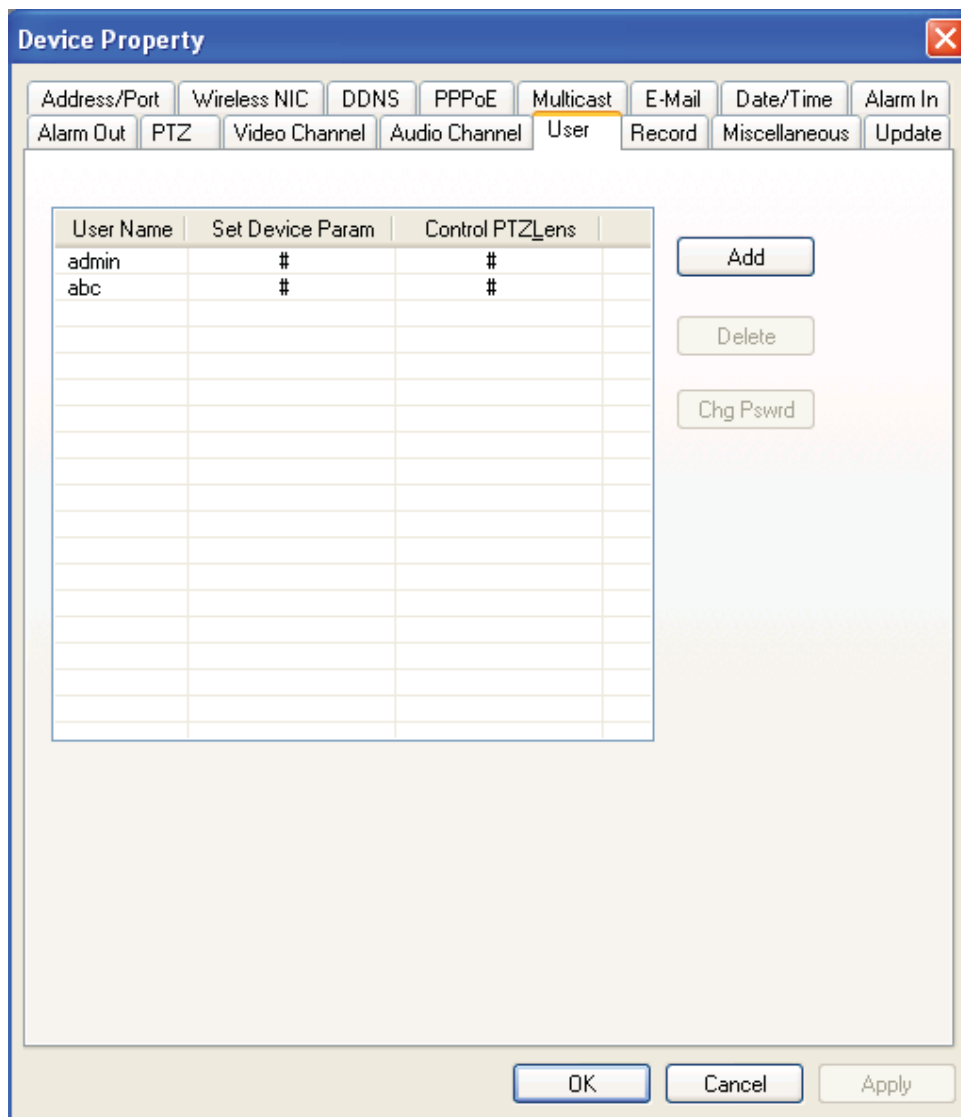
Mark: Suggest keep the default setting in normal. Just click   open talk back function.

3.3.12 User

User management is used to add, delete or modify user name and password, and setup corresponding authority. User name can only be English character or number, Chinese is not supported, maximum length of user name or password is 10 characters.

User is separated into three classes:

- ◆ Normal User: Admit to brown monitor image, no authority to setup device and manage user.
- ◆ Power User: Admit to setup device, no authority to manage user
- ◆ Administrator: Authorized to setup device and manage user. The default administrator id is **admin**, password is **admin**, the id is not allowed to delete.

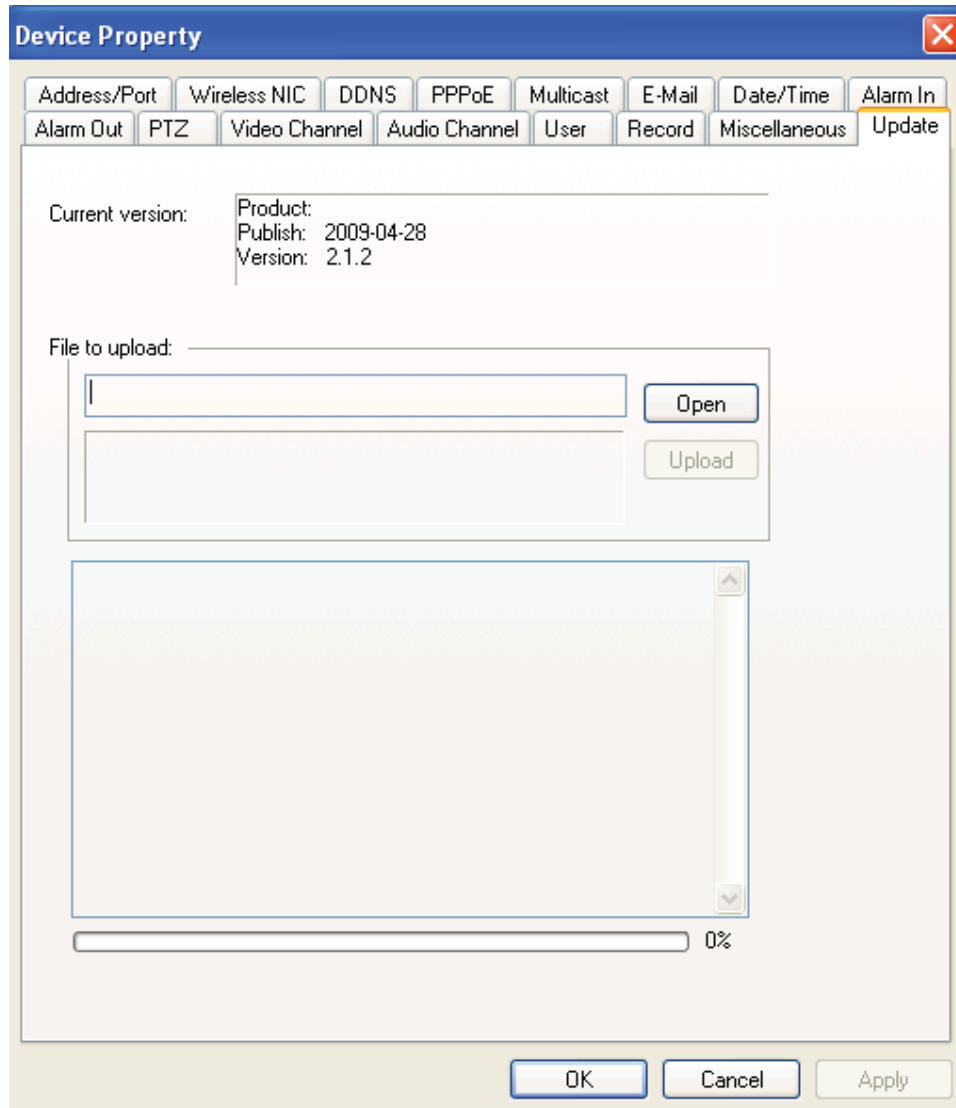


3.3.13 Update

User can update device local by client or long distance through IE. Device will auto restart after upgrade. User can check current version no. here.

【Current version】 Display current version, not allow edit.

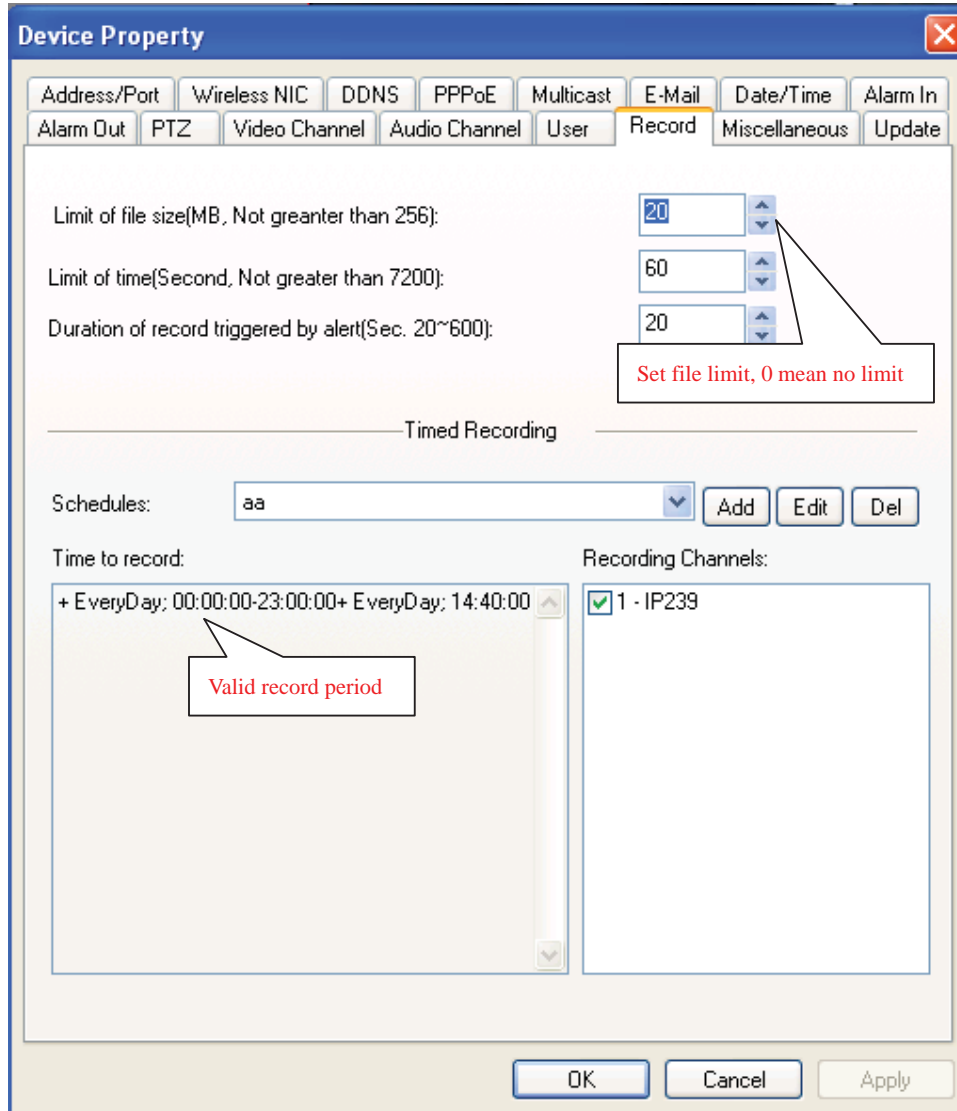
【File to upload】 Click 【Open】 find the file then click 【Upload】 , the following dialog will show the progress. The device will auto restart after upgrade, not shut off during the process.



Mark: Online upgrade file DAT is pk2. Firmware program and client program can be upgrade integrated or separated.

3.3.14 Record

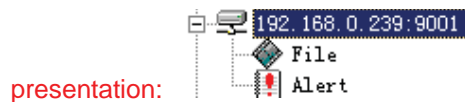
The record property will auto display when link to SD card. In other condition, please click **【IP】** → **【Property】** → **【Record】** to pop the dialog:



Mark1: Please cut off device before plug SD card.

Mark2: Choose FAT32 type when format SD card.

Mark3: Click  choose **【Device-Side File】** to review record, see diagrammatic



3.3.15 Wireless NIC

Wireless network card property will auto display; in other condition click **【IP】** → **【Property】** → **【Record】** to pop the dialog:

The screenshot shows a 'Device Property' dialog box with a blue title bar and a close button (X) in the top right corner. The dialog has a tabbed interface with the following tabs: Alarm Out, PTZ, Video Channel, Audio Channel, User, Record, Miscellaneous, Update, Address/Port, Wireless NIC (selected), DDNS, PPPoE, Multicast, E-Mail, Date/Time, and Alarm In. The 'Wireless NIC' tab is active and contains the following settings:

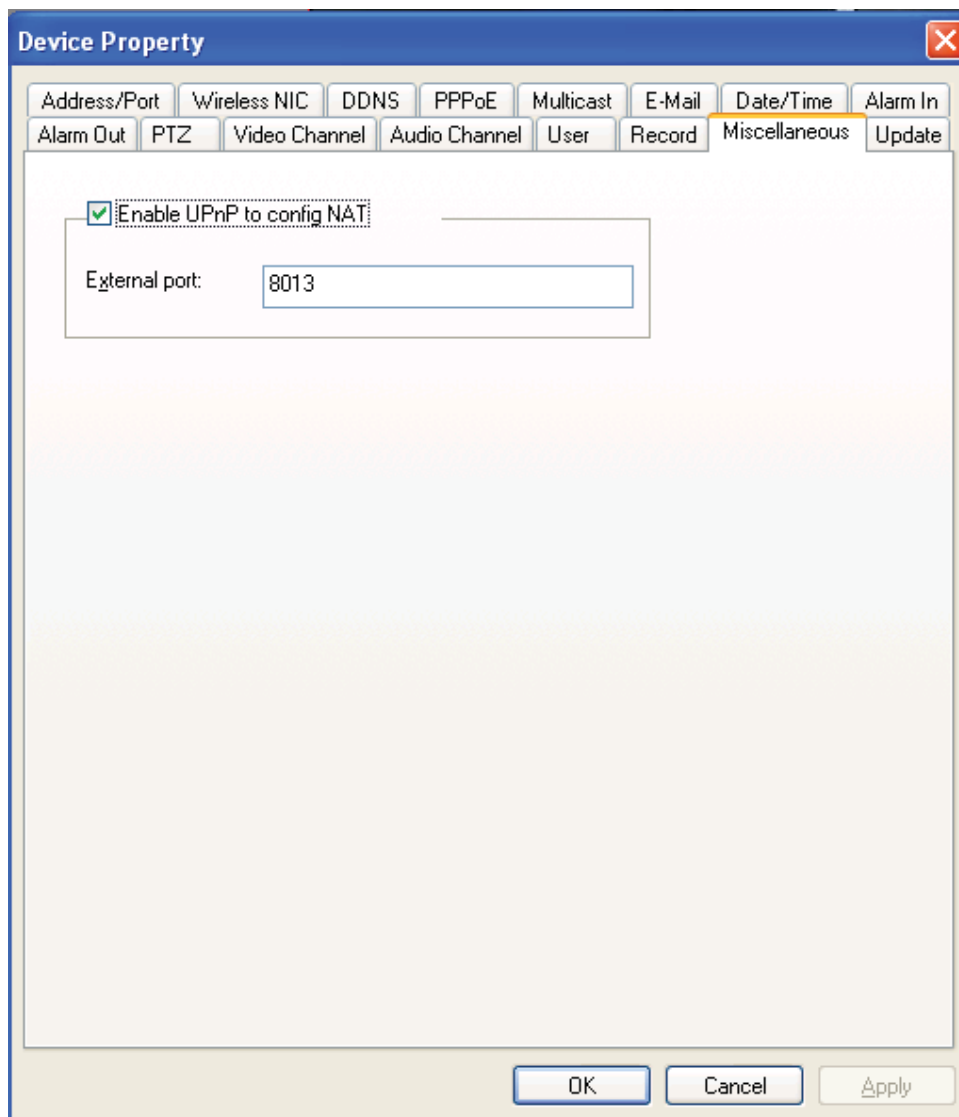
- Enable Wireless NIC
- ESSID: TAS-Tech
- Encryption: Disablk WEP
- WEP Key: ●●●●●●●●
- Get IP Automatically
- Use Specific IP
 - IP Address: 192 . 168 . 2 . 239
 - Sub-net Mask: 255 . 255 . 255 . 0
 - Default: 192 . 168 . 2 . 1
- Physical: 00:22:ab:12:01:39

* Set the IP be same with the wired NIC if they have the same network ID.

At the bottom of the dialog are three buttons: OK, Cancel, and Apply.

3.3.16 Miscellaneous (UPnP function)

UPnP(Universal Plug and Play), the router will auto mapping TCP and UDP port.



The screenshot shows a 'Device Property' window with a blue title bar and a close button. Below the title bar is a tabbed interface with the following tabs: Address/Port, Wireless NIC, DDNS, PPPoE, Multicast, E-Mail, Date/Time, Alarm In, Alarm Out, PTZ, Video Channel, Audio Channel, User, Record, Miscellaneous (highlighted), and Update. The 'Miscellaneous' tab is active, displaying a checkbox labeled 'Enable UPnP to config NAT' which is checked. Below this checkbox is a text input field labeled 'External port:' containing the value '8013'. At the bottom of the window are three buttons: 'OK', 'Cancel', and 'Apply'.


Mark1: Router must support UPnP function

Mark2: Recommend external port between 1025-32767

4 Other

4.1 LAN and WAN configuration

◆ LAN automatically search

Run DVS Client, Click , the video server in the local LAN will appear in the device list. Only PC and video server in same network segment can connect.

If there are no device in the device list, make sure the following question:

- ① If DVS is already powered?
- ② If DVS and PC have been normal connected? If yes, the light will be long bright or flashing.
- ③ If PC has firewall working? If yes, should do it again after closing the firewall.

◆ WAN manually search

If users want to login in another subnet, the device can not automatically be searched. The video device should be manually added as the following steps:

- ① Register DDNS services from a DDNS service provider. After applications a domain name will be assigned, and an account number and password will be obtained.
- ② Click mouse right key in device list up item, choose **【Property】** → **【DDNS】** set your domain info ,please see 3.3.2 for details.
- ③ When Internet IP is changed. The device will automatically tell DDNS server its new Internet IP.
- ④ Users only input domain in the network browser can run Client.

4.2 Application for DDNS

Normally users use dynamic IP address in the internet. User can use a static hostname instead of a dynamic IP address to monitor Lan device image. In this way, user should register a domain name and obtain a password. The device supports www.3322.org and www.dyndns.org , users can login it and register the domain, after doing it, set your domain info as 3.3.2 for details.

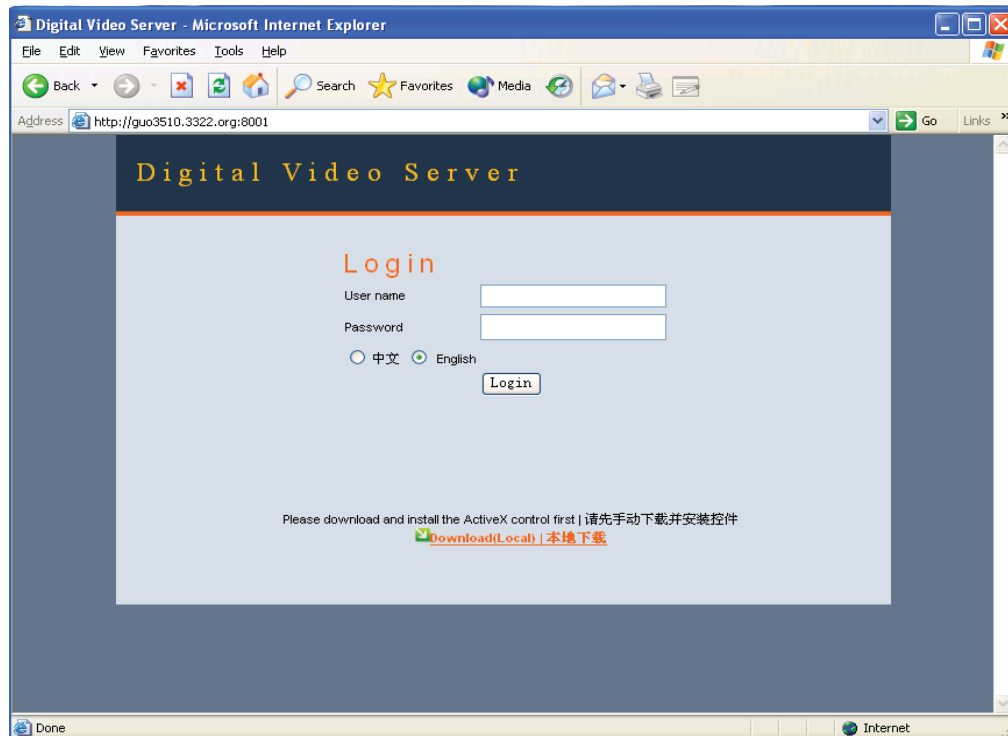
4.3 Router configuration

Routers must be set to enable a PC TCP connecting to the device. Routers use port number to decide which device request is allowed, this function is port transmitting or

virtual services.

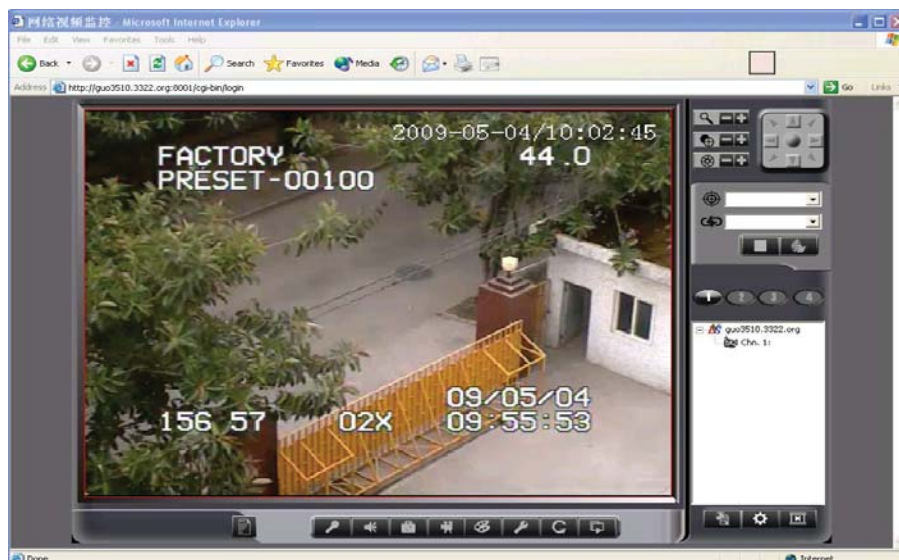
Appendix A IE mode

When first visit device through IE, user need add **http://** by manual to pop the following dialog:



Click [] download the client and control , then install it.

Then input user name and password (default is **admin**) can get monitor page, see below:



Storage IP Box Camera User's Manual



Note: WIFI function is an option of IP camera

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1 Product Overview

Storage IP box Camera is an embedded device designed for network video surveillance application. Optimized H.264 video compression algorithm assures clearer and more fluent image transmission. It uses the newest techniques and high integration single chip SOC with powerful Linux RTOS (Real-time Operating System) realized high performance and low cost digital multimedia process. Built-in mini Web Server (38x38mm double boards) that allows users to conveniently carry out remote control via Internet Explorer. Furthermore, central management software can be used for integrated surveillance and management of multiple network cameras, so it is very easy to build large video surveillance system.

1.1 Performance

- high-density and programmable communication media processor Hi3510, SOC single chip solution, equipped with two processors,ARM9 and DSP
- Support both high sensitivity SONY CCD or other CMOS sensor
- H.264 baseline profile@Level 2.2, realize transmission of High Definition video over low network bandwidth easily
- Up to 30fps(NTSC) or 25fps(PAL)
- Up to 30 viewers can directly access the camera simultaneously
- Built-in Web server enables the use of a standard Web browser for viewing and management
- Support SD card video/picture storage
- Support remote software upgrade safely function
- Support dynamic IP address , LAN, Internet (ADSL and Cable Modem)
- Network protocols: HTTP, SMTP, PPPoE, DDNS, DNS, DHCP, UPnP(CP for NAT)
- Support Bi-directional real- time transmission of audio talk-back & broadcast
- Network self-adapting technology to adjust video frame rate automatically according to the network bandwidth
- Provide motion detection/shelter /sensor alarm functions (Area & Sensitivity can be set)

- Provide RS485 serial port with several built-in high-speed domes and decoder protocols, supports transparent protocols.

1.2 Interface



Storage IP box Camera (Back)

DC12V: Power Supply, DC 12V/1.5A

RST: Reset Button

LAN: Ethernet Port

A in: Audio Input

A out: Audio Output

SD Card: SD Card slot

RS485: 485 Control interface, connect to Pan/Tilt or encoder, support many protocols

GND: Signal ground, alarm ground, RS485 ground

ALM In: 1 Alarm Input

ALM Out: 2 Alarm output

AUTO IRIS: Auto Iris port, support DC Lens

ANT: WiFi interface(optional)

2 Client Software Installation Guide

◆ System requirement

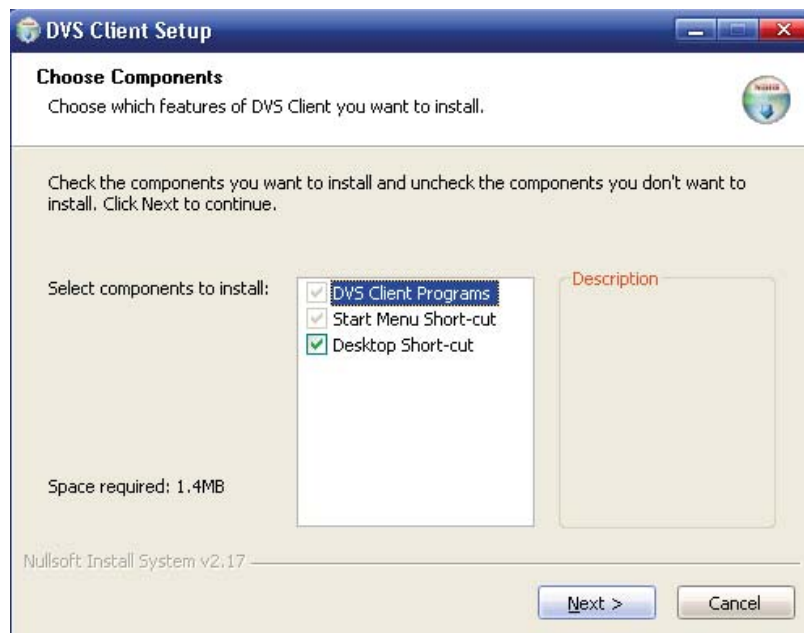
- Operating System: Windows 2000/XP/Vista
- Processor: Intel Pentium III, 1G or Higher (Pentium IV, 2G or Higher recommended)
- RAM: 256 MB or more
- Color Monitor: At least DirectX 8.1 or higher and 32M Display storage
- HD: More than 40G

◆ Software installation

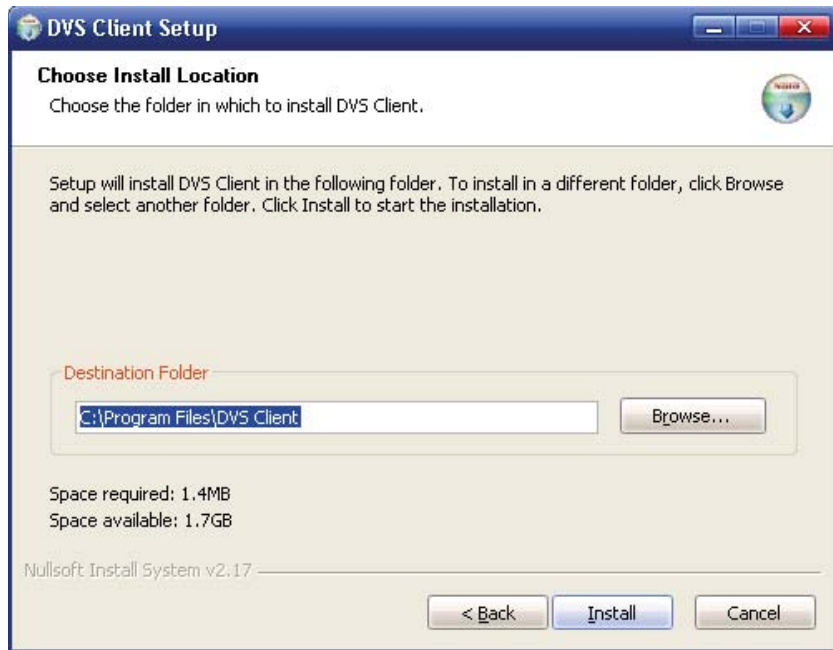
Run the client software DVS_Client_Setup.exe, the window below will pop up:



Select English, and click **【OK】**:

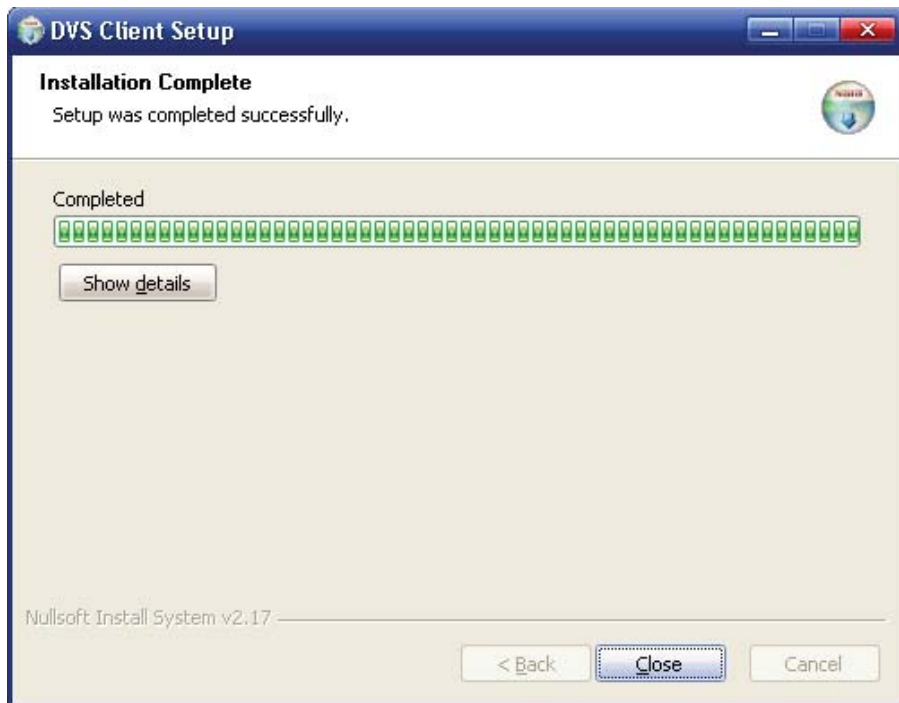


Click **【Next】** , the window below will pop up:



Press **【Browse...】** to change the default path. If you do not want to change, press **【Install】** .

The below window will pop up:

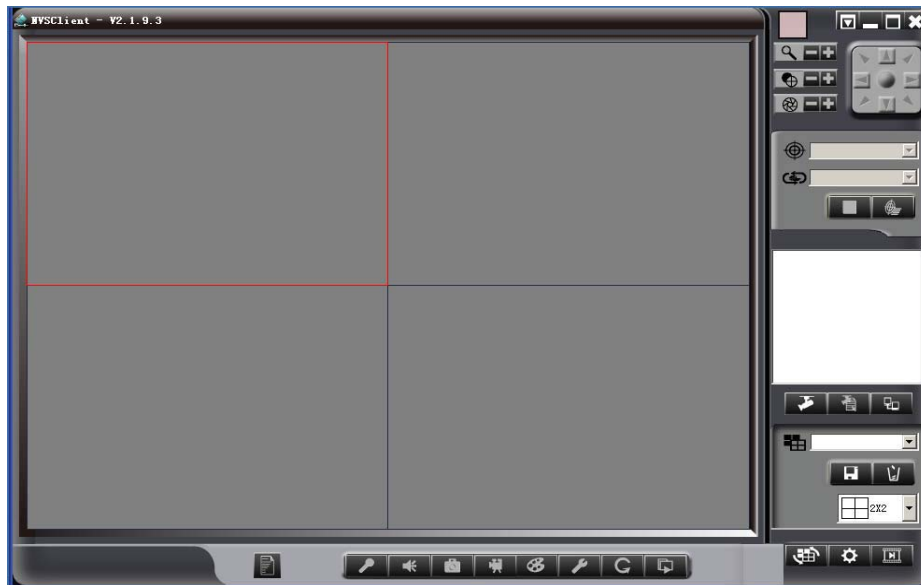


Then the setup is completed successfully.


3. Client Software Instructions Guide

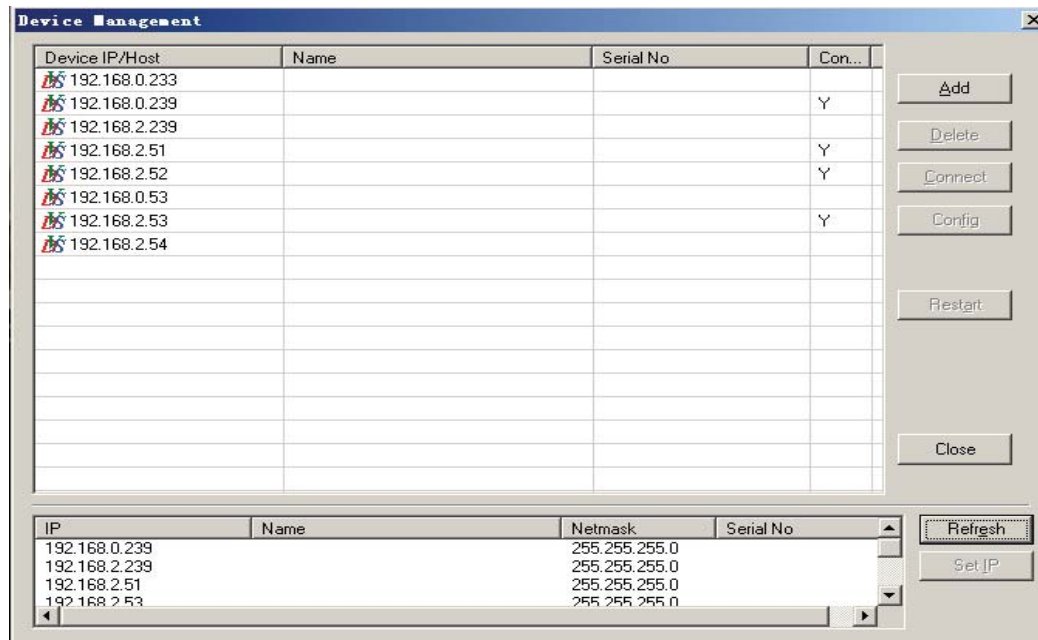
3.1 Main Interface

Run DVS Client software, need input password, default is **blank**. Pls refer **【Client Setup】** → **【local user management】** for user name and password change. The interface as below:



For the first login, user need add the IP address/domain name in order to trigger the monitor screen, the steps are as follows:

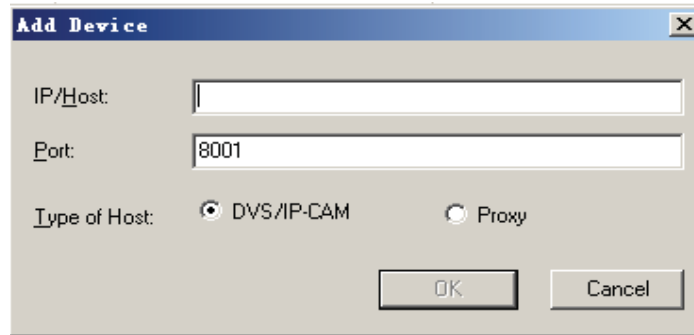
- ① Click  on the right side, pop following dialog:



Mark1: If device not in same network segment, the software can search the IP address but can't link. Please change device and pc in same segment.

Mark2: Default IP is 192.168.0.233, gateway is 192.168.0.1.

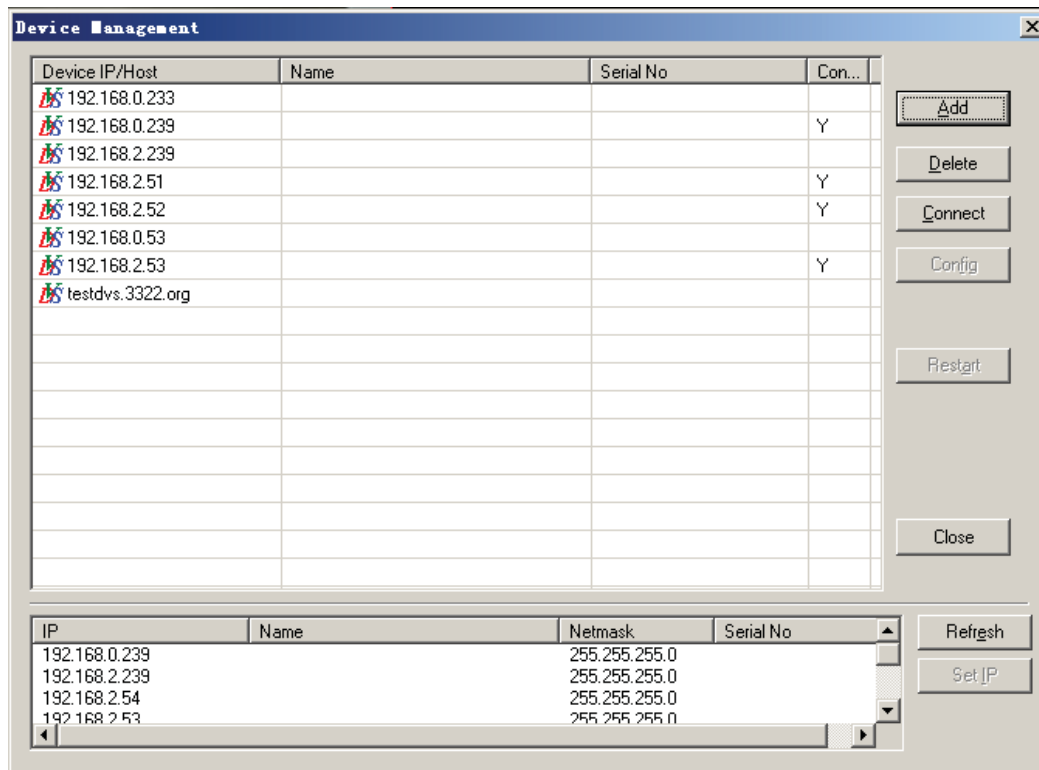
② Can add device IP address/ Domain name by manual, click **add** pop following dialog:



The 'Add Device' dialog box contains the following fields and controls:

- IP/Host: [Empty text box]
- Port: [8001]
- Type of Host: DVS/IP-CAM Proxy
- Buttons: OK, Cancel

③ Input device IP/domain name, eg input IP/Host testdvs.3322.org, port 8001, device type "DVS/IP-CAM",click **OK** pop following dialog:



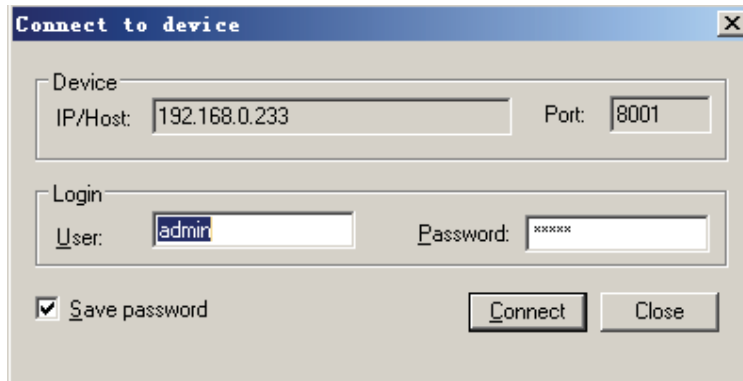
The 'Device Management' window displays a table of devices and a summary table at the bottom.

Device IP/Host	Name	Serial No	Con...
192.168.0.233			
192.168.0.239			Y
192.168.2.239			
192.168.2.51			Y
192.168.2.52			Y
192.168.0.53			
192.168.2.53			Y
testdvs.3322.org			

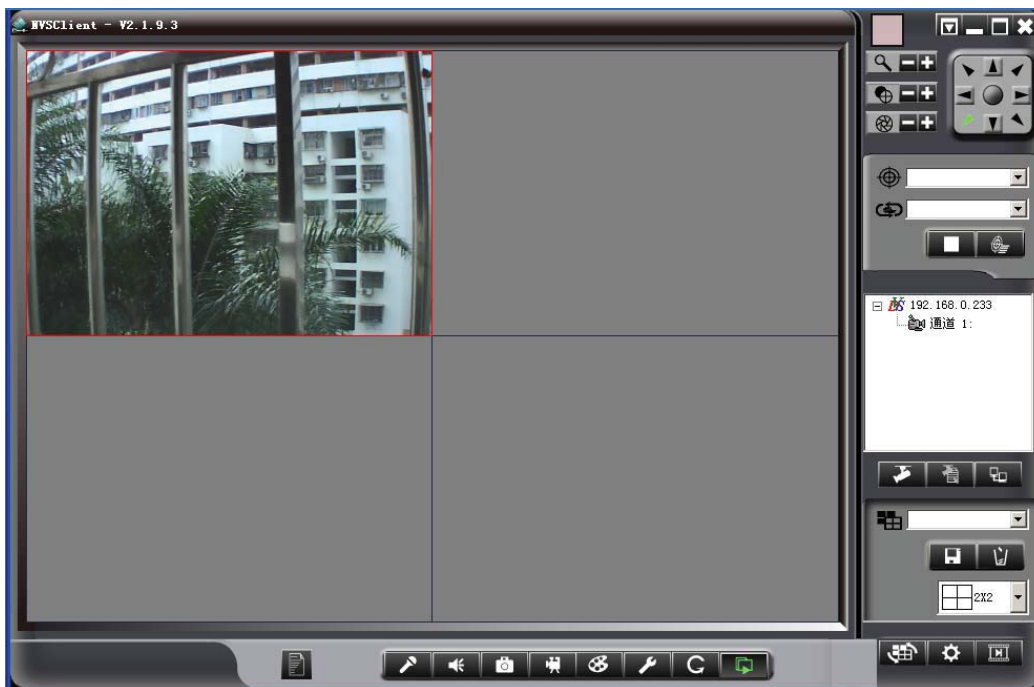
IP	Name	Netmask	Serial No
192.168.0.239		255.255.255.0	
192.168.2.239		255.255.255.0	
192.168.2.54		255.255.255.0	
192.168.2.53		255.255.255.0	

Buttons: Add, Delete, Connect, Config, Restart, Close, Refresh, Set IP

④ Choose the right device, input user name and password, default is **admin**, as following:



⑤ Click **【Connect】**, the right column will display the device address, choose “channel 1”, hold the left button, drag it to the need window, as following:


















3.2 The function descriptions

3.2.1 Toolbar



Followed by login info, talk, sound, snap, record, color, setup, rotation, play.

- ◆ : Click to check device user number
- ◆  : Click for Talk off/on
- ◆  : Click for Sound off/on
- ◆ : Click for current channel snap
- ◆  : Click to start or off record. Click  for record path setting,
Click  for record playback
- ◆ : Click for brightness/contrast/Saturation/color setting. Default 128 , range is 0-255
- ◆  : Click for current screen off/on
- ◆ : Click for screen rotation
- ◆ : Click for image quality/OSD/screen mask/MD setting

3.2.1.1 Image Quality

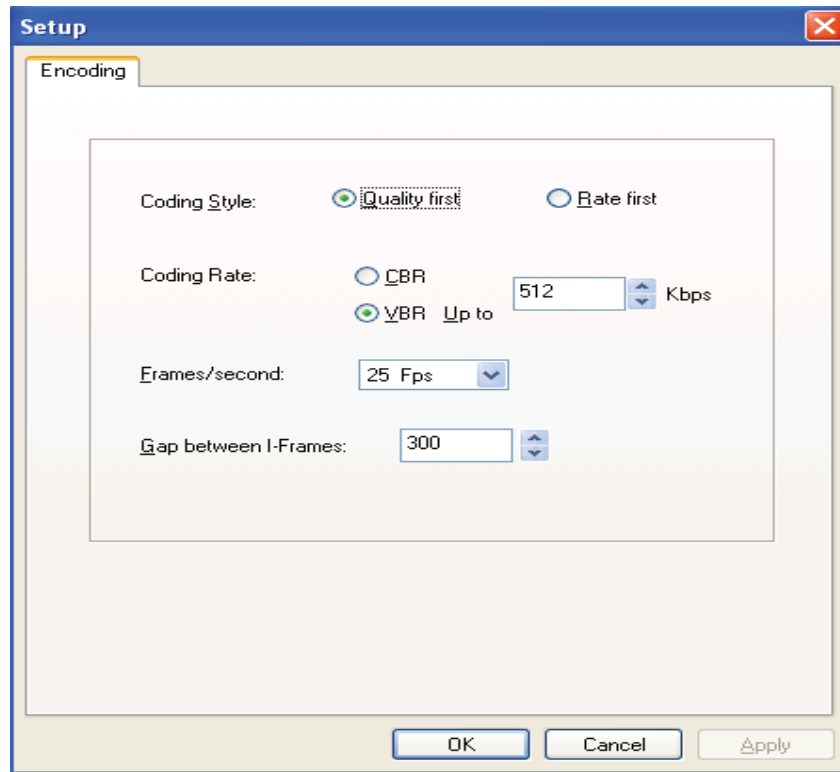
Allow setting frame mode,stream type,frame rate,I frame interval,see below:

【Coding Style】 Qualith priority or speed priority

【Coding Rate】 Fixed or dynamic. Fixed on suitable for fixed bandwidth.Dynamic suitable for record. Default dynamic stream, limits on 100Kbps.

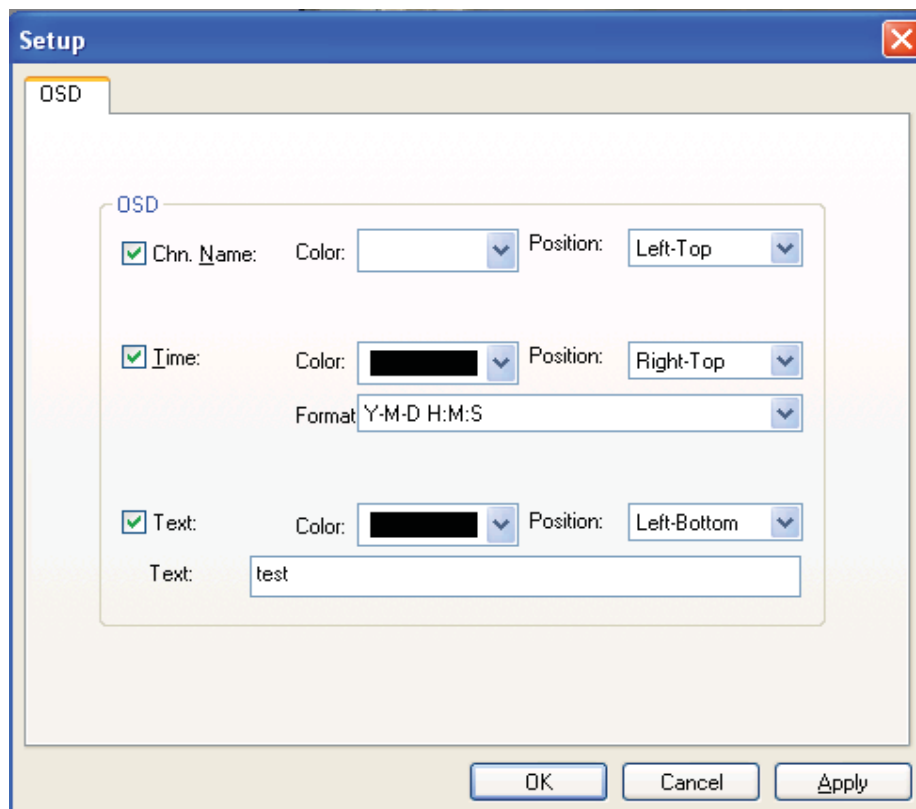
【Frame/second】 Range is 1~25, default 10 Fps.

【Gap between I-frames】 One I frame in per 100 frame, default 300.



3.2.1.2 OSD

OSD is “on screen display”, mean the info accompany with the image. Allow setting channel info, time, text color and position.



3.2.1.3 Sheltered Area

Sheltered Area as needed. Hold **【ctrl】** to drag mouse choose the area, click **【clear】** to delete it.

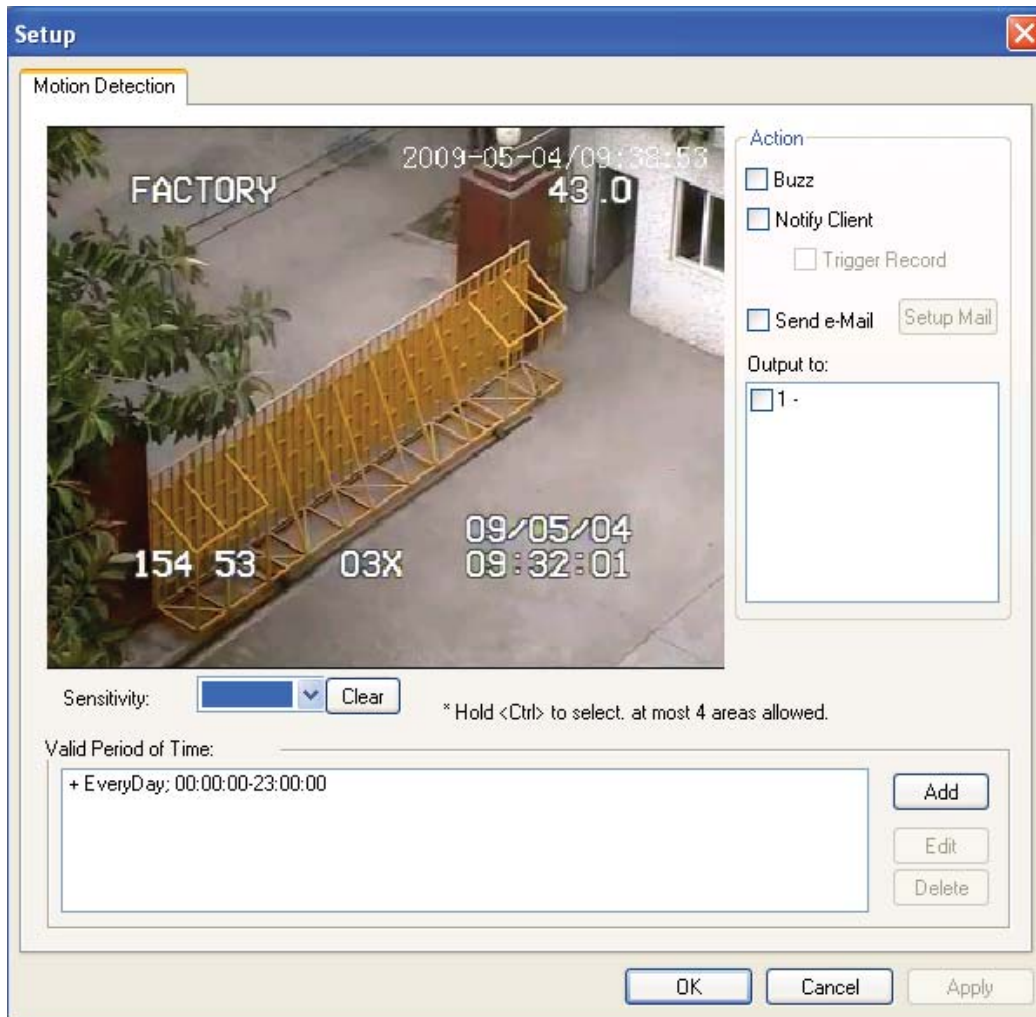


The mask effect as below:
















3.2.1.4 Motion Detection

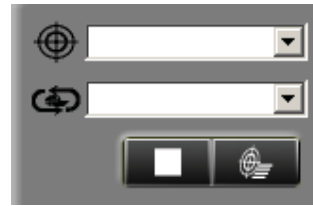
- 【Area setting】** Hold **【ctrl】** choose the area, max 4 zones allowed.
- 【Sensitivity】** Setting high for high sensitivity.
- 【Valid Period of Time】** Setting MD valid period and alarm valid period.
- 【Action】** Buzz, notify client, send e-mail.
- 【Output to】** Choose the display channel.



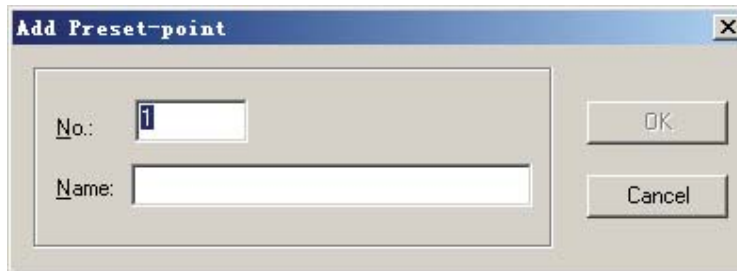
3.2.2 PTZ Control


- ◆ Click    adjust focus
- ◆ Click    adjust aperture
- ◆ Click    adjust lens
- ◆ Click up/down/left/right control pan&tlti or hold mouse left key adjust direction by drag the middle dot
- ◆ Preset : choose preset from drop down list can control pt to the setting position. Click the mouse right key then choose **set current view as a preset point** for preset .

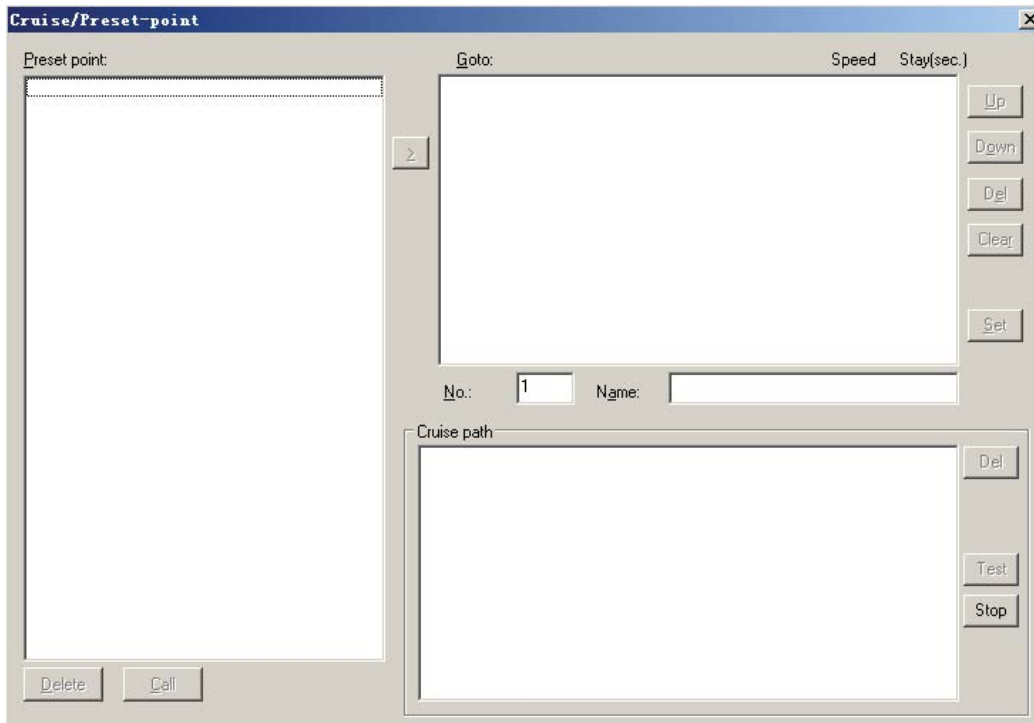
- ◆ Cruise : Click  setting the route or choose the already one by drop down list, click  to stop the cruise.






Click the mouse right key then choose **set current view as a preset point** ,pop following dialog:



Click , set your cruise route in the following dialog:





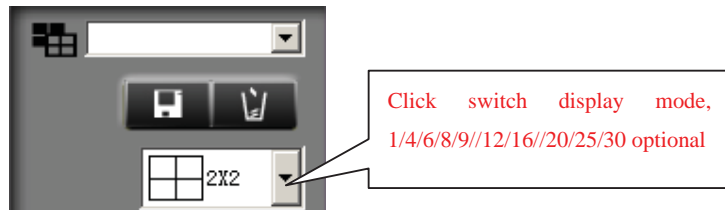
3.2.3 Device List

Display connected devices name, domain name, channel name ,etc. Click  to add device. Click  to pop device property dialog. Click  connect or disconnect device.



3.2.4 Interface Structure

Click following button can adjust your own display mode. Click  save or click  delete.



3.2.5 Other Function



3.2.5.1 Screen Switch

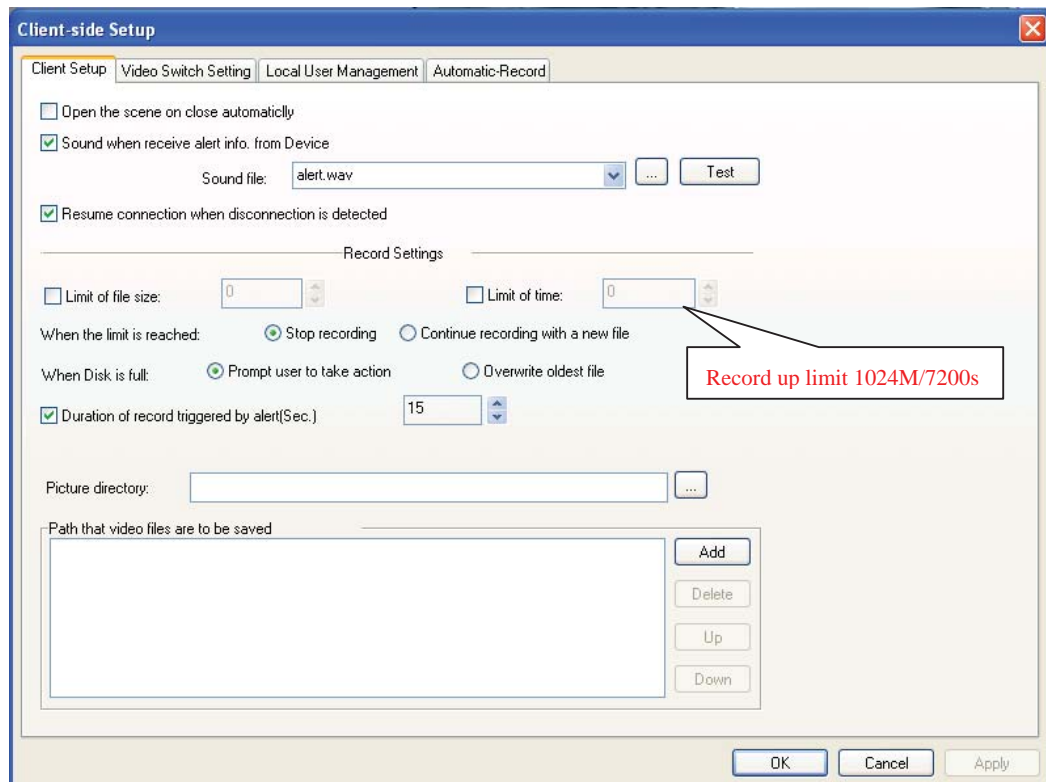
Click  to start or stop screen switch ( mean the switch is in process).

3.2.5.2 Client_side Setup



◆ Client Setup

Click  to setup record path/alarm trigger record period/sound/last time scene.

More than one path can be saved, the top one will be the default record path.




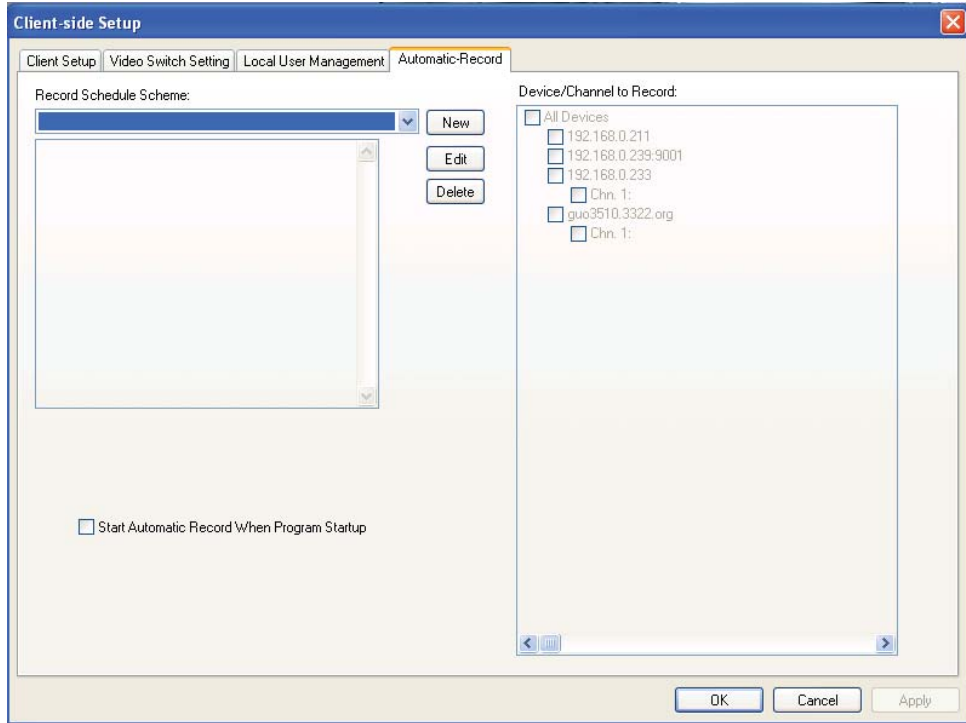
◆ Video Switch Setting

It will realize multi-device or different channels switch in one screen. Click **【page】** arrow to add/delete page, click **【stay】** arrow to add/delete standstill period, click **【 232 】** choose display mode, hold mouse left key drag the wanted channel to the right column or delete it by double click the channel name.


◆ Automatic_Record

Allow time record channel/period setting, save path setting in **client setup** . The

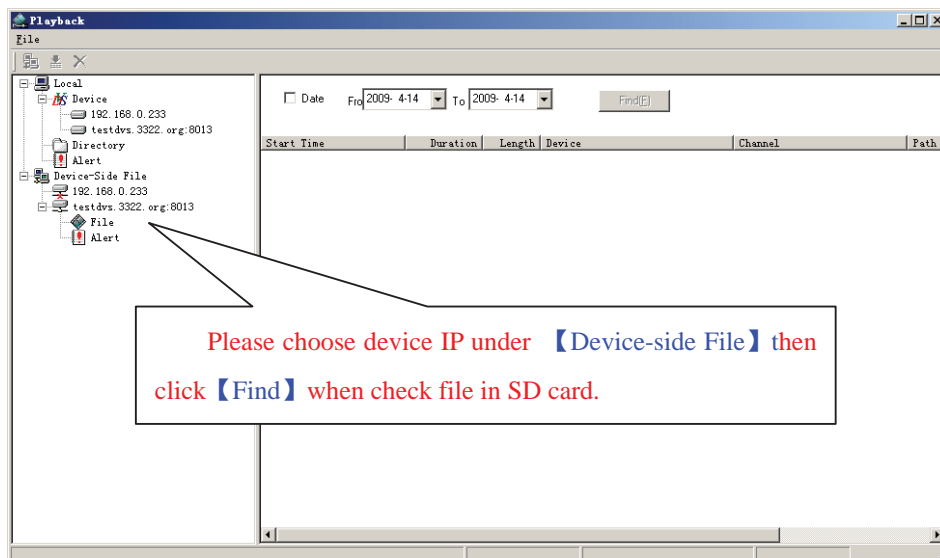
interface indicator  will blink after start this function.



3.2.5.3 Playback

Click  pop following dialog, Search need file through catalog or event list.


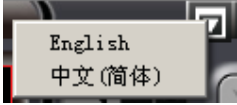
Double click to play the file.

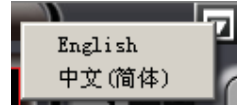


Mark1:Event mean trigger MD or alarm, event record mean MD or alarm trigger record.


Mark2:Device port file mean file save in linked SD card.

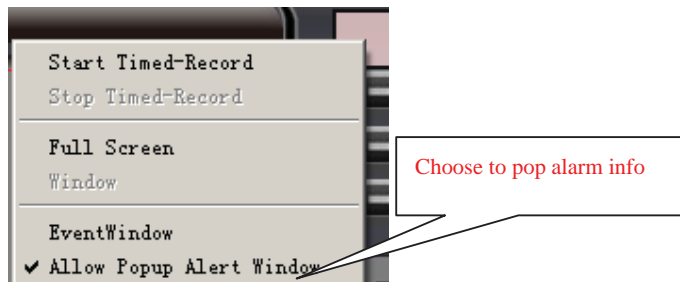
3.2.5.4 Language Version

The software support Chinese and English, click  pop  to switch.




3.2.5.5 Full Screen

Click  change to full screen mode, all action will be locked under this mode, input administrator password when quit. Click the right button to pop:



3.3 Device property

Click  or choose IP address in device list, click **【Property】** by right key to pop dialog, setup or adjust IP address、DDN、PPPoE、broadcast configuration、user management、update online,etc.

3.3.1 Address/Port

Default IP address:**192.168.0.233**, subnet mask:**255.255.255.0**, gateway:**192.168.0.1**, service port **8001**. After change, system will register you restart your device to valid the setup. Change service name not need restart.

Device Property

Alarm Out | PTZ | Video Channel | Audio Channel | User | Record | Miscellaneous | Update

Address/Port | Wireless NIC | DDNS | PPPoE | Multicast | E-Mail | Date/Time | Alarm In

Device Name:

Get IP Automatically

Use Specific IP

IP:

Sub-net Mask:

Default Gateway:

Physical Address:

Obtain DNS Automatically

Use Specific DNS

DNS Host1:

DNS Host2:

Service Port:

OK | Cancel | Apply

Mark1: IP address will valid only after device restart.

Mark2: When link 2 or more devices, need change related IP address and physical address.

Mark3: Outer net visit need mapping the service port, refer router configuration part. DNS server needs change to current DNS IP address also.

3.3.2 DDNS

DDNS mean dynamic DNS, for unfixed IP domain name mapping. This client software support peanut shell、3322 and our company DDNS service. Just apply your domain name in the proper network station(refer to Part3.2) then click **【OK】** in the pop dialog, the DDNS will valid.

【DDNS Service Provider】 now support www.oray.net and www.3322.org.

【User Name】 One account can apply different domain name, the provider request not same.

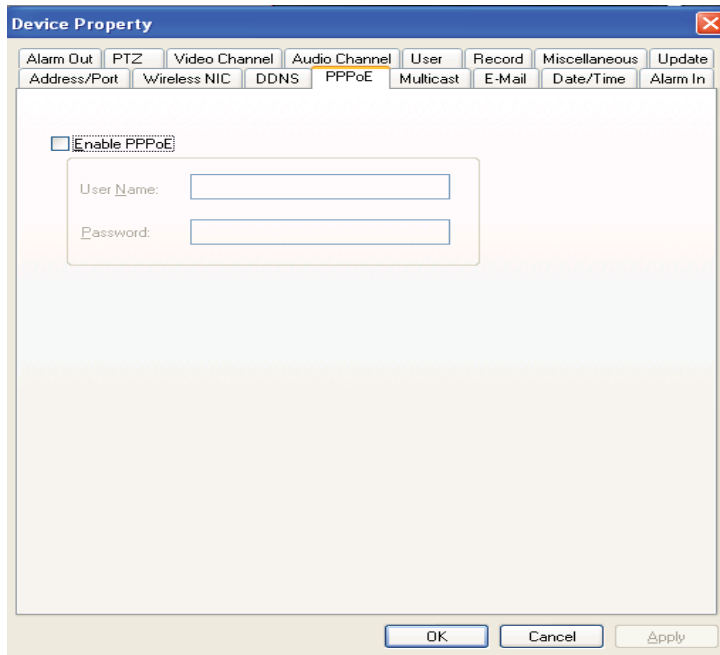
【Password】 The related password when you apply the domain name.

【Dynamic Domain Name】 According to domain integrated address.

The screenshot shows the 'Device Property' dialog box with the 'DDNS' tab selected. The 'DDNS Service Provider' dropdown is set to '3322(www.3322.org)'. The 'User Name' field contains 'testdvs', the 'Password' field is masked with dots, the 'DDNS Host/IP' field contains 'members.3322.org', the 'Service Port' field contains '80', and the 'Dynamic Domain Name' field contains 'testdvs.3322.org'. The 'Status' section displays 'Service Type: Standard', 'Service Status: On line', and 'Domain Names: 218.18.184.22'. A URL 'http://www.3322.org' is shown at the bottom. The dialog has 'OK', 'Cancel', and 'Apply' buttons at the bottom right.

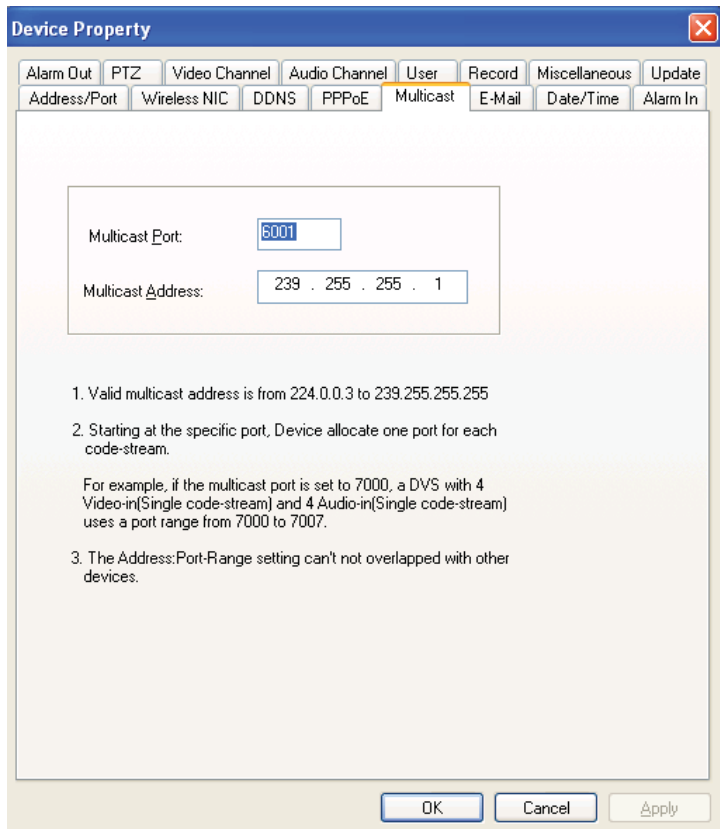
3.3.3 PPPoE

The client software allow PPPoE . Link the device to phone line through modem, dial to internet. User can visit the monitor picture by internet from long distance. Choose PPPoE in following dialog then input user name and password then click 【OK】 .



3.3.4 Multicast

Use set device as needed to realize the multicast function.



3.3.5 E-Mail

When choose mail service, the device will send event report and picture to the appointed mailbox when alarm or MD triggered.

【SMTP Server】 Follow your mailbox hints for related setup.

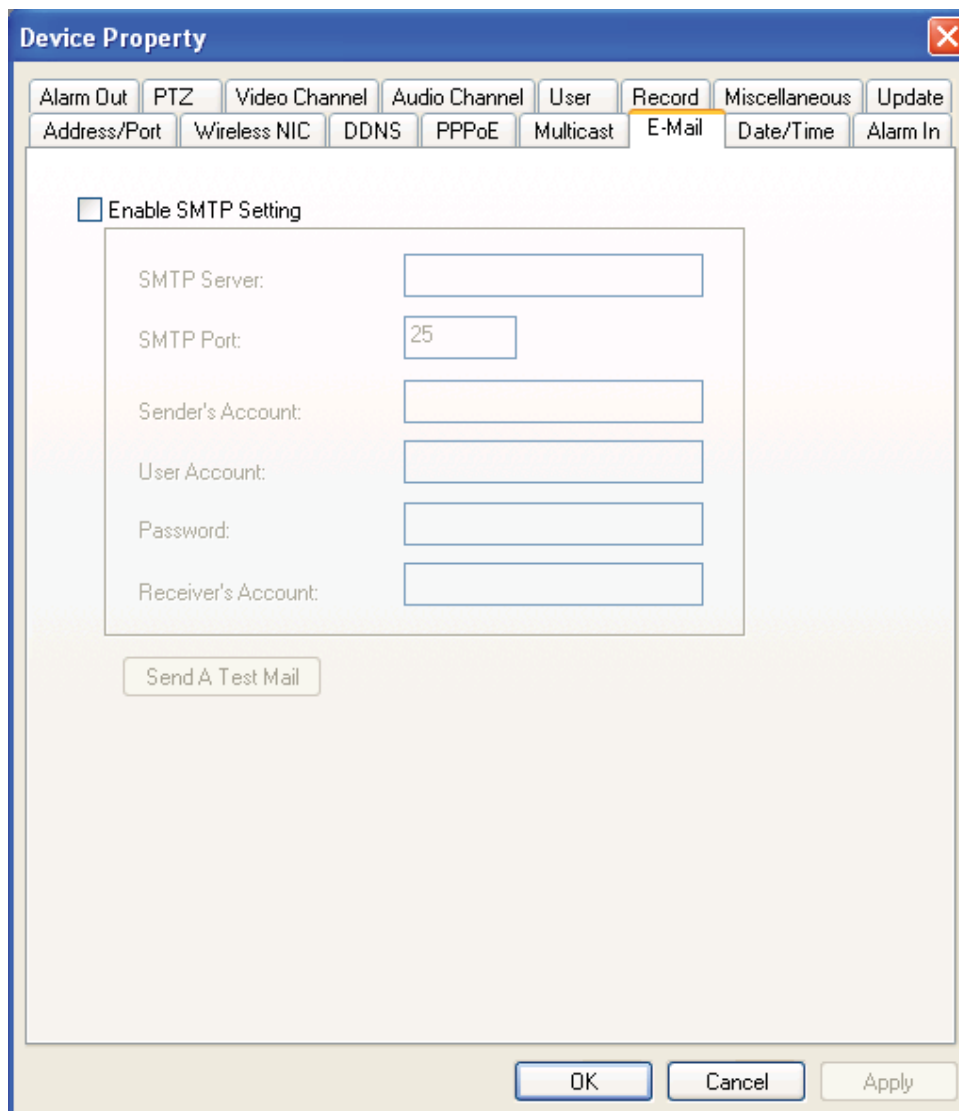
【SMTP Port】 default 25.

【Sender's Account】 Need according to the SMTP service if your mailbox support.

【User Account】 auto catch account info.

【Password】 Account related password.

【Receiver's Account】 Any mailbox which can receive mail. Click 【Send A Test Mail】 after setup to confirm your action.

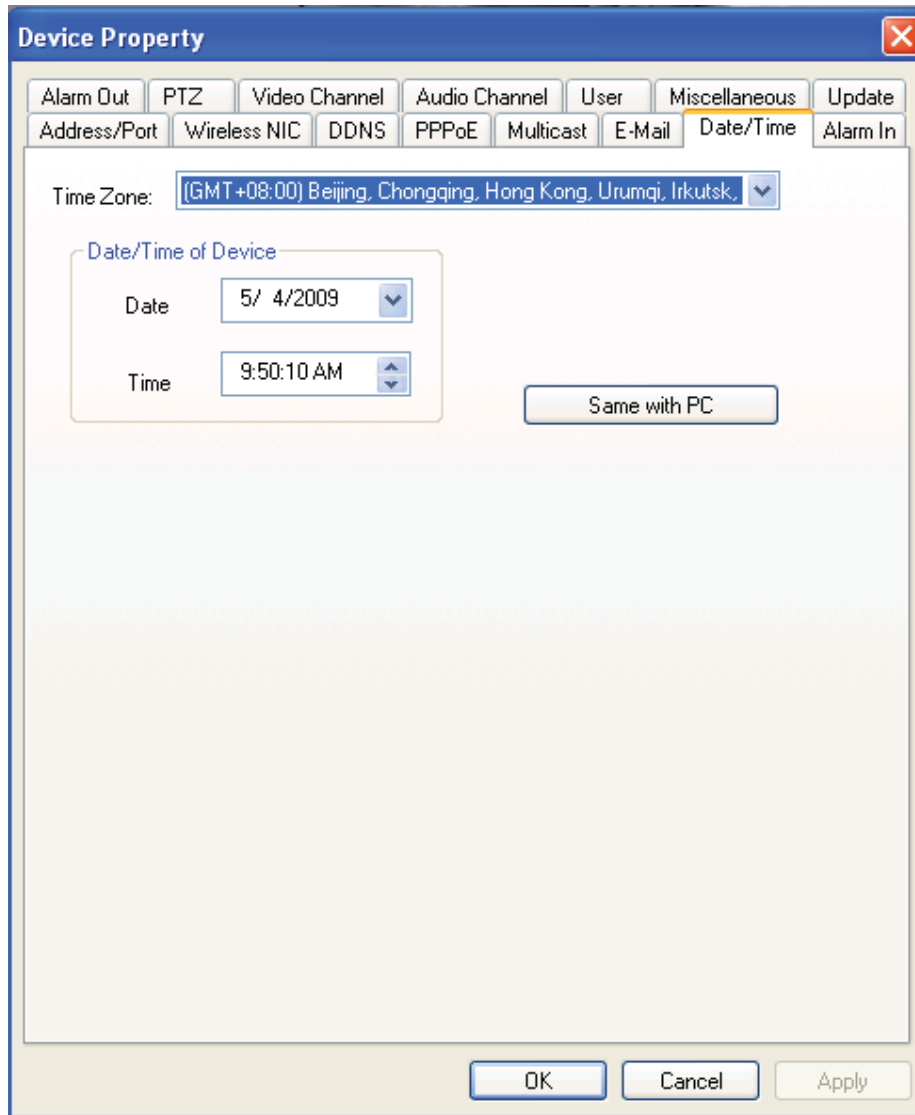


The screenshot shows a 'Device Property' dialog box with the 'E-Mail' tab selected. The dialog has a title bar with a close button (X) and a menu bar with tabs: Alarm Out, PTZ, Video Channel, Audio Channel, User, Record, Miscellaneous, Update, Address/Port, Wireless NIC, DDNS, PPPoE, Multicast, E-Mail, Date/Time, and Alarm In. The 'E-Mail' tab is active. Below the menu bar, there is a checkbox labeled 'Enable SMTP Setting' which is currently unchecked. Below the checkbox is a form with six input fields: 'SMTP Server', 'SMTP Port' (containing '25'), 'Sender's Account', 'User Account', 'Password', and 'Receiver's Account'. Below the form is a button labeled 'Send A Test Mail'. At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Apply'.

Mark: For outlook or foxmail user, need set the sender account to valid the function.

3.3.6 Date/Time

Adjust device date, time. Click **【Same with PC】** to synchronous with pc.



3.3.7 Alarm In

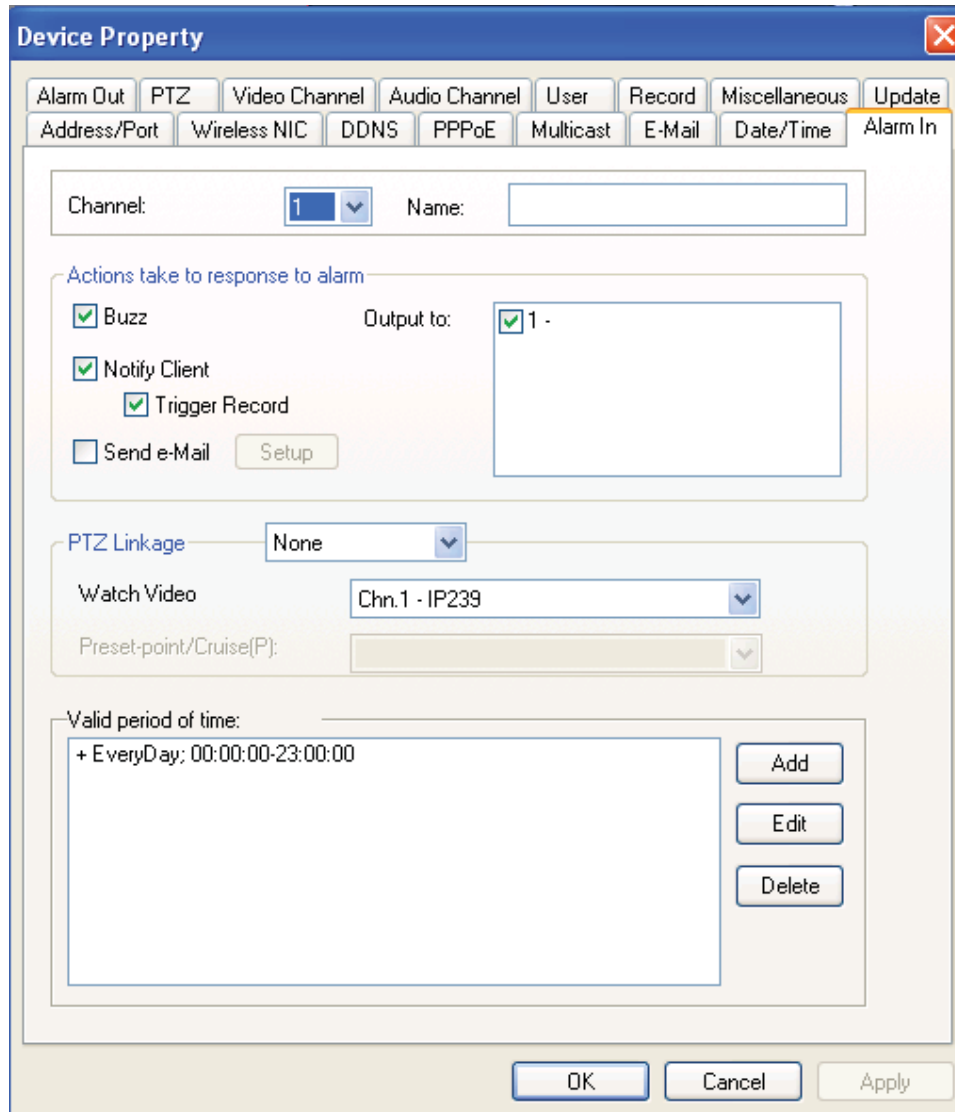
【channel】 Allow setup name for choosed channel.

【Actions take to response to alarm】 Sound alarm, notice client , send e-mail.

【Output to 】 Setup output channel.

【PTZ linkage】 Seperate、 preset、 cruise. Moniter channel must be appointed when choose preset or cruise mode.

【Valid period of time】 Setup alarm input time period. + mean valid period,- mean except the period.

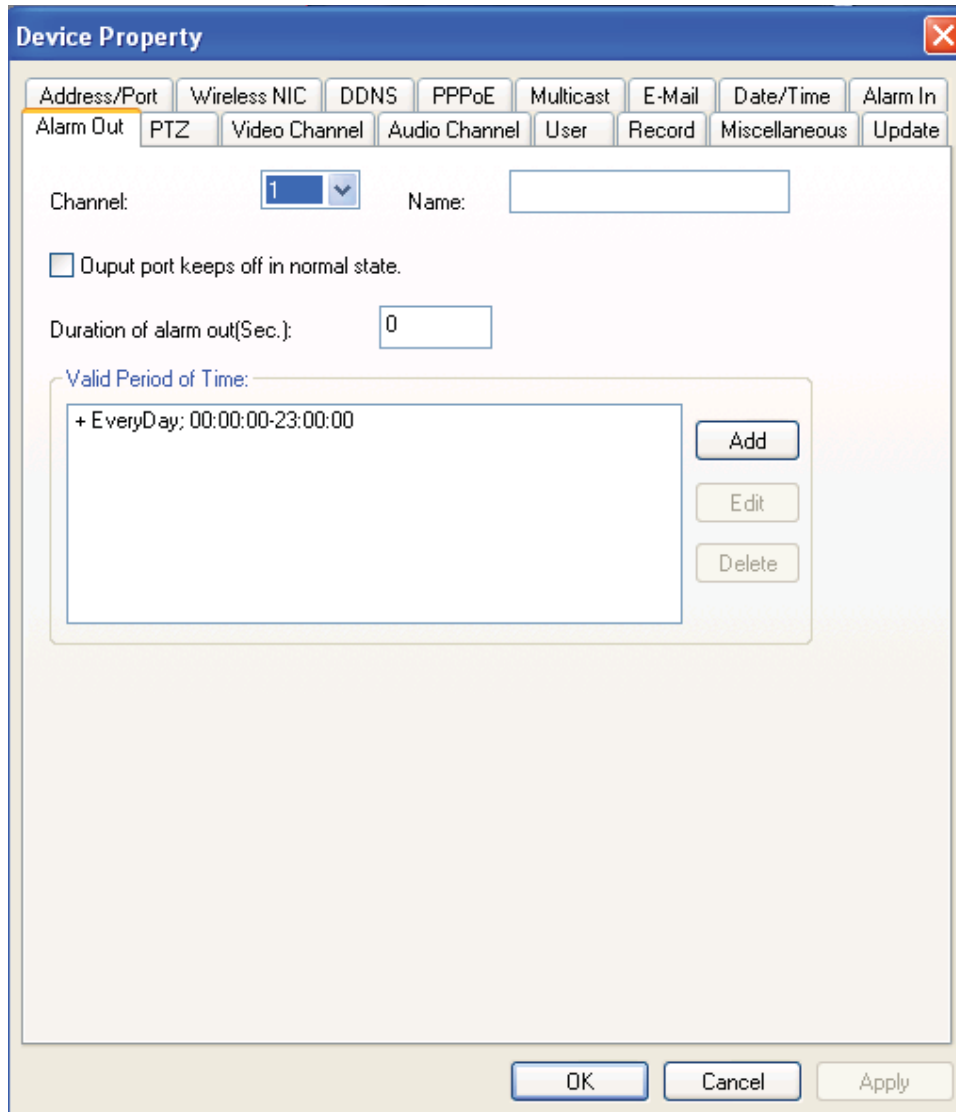


Mark: The record in SD card will lead the real record time add 0-20s base the setting.

3.3.8 Alarm Out

【channel】 Allow setup name for choosed channel

【Valid period of time】 Setup alarm output time period. + mean valid period,- mean except the period



3.3.9 PTZ

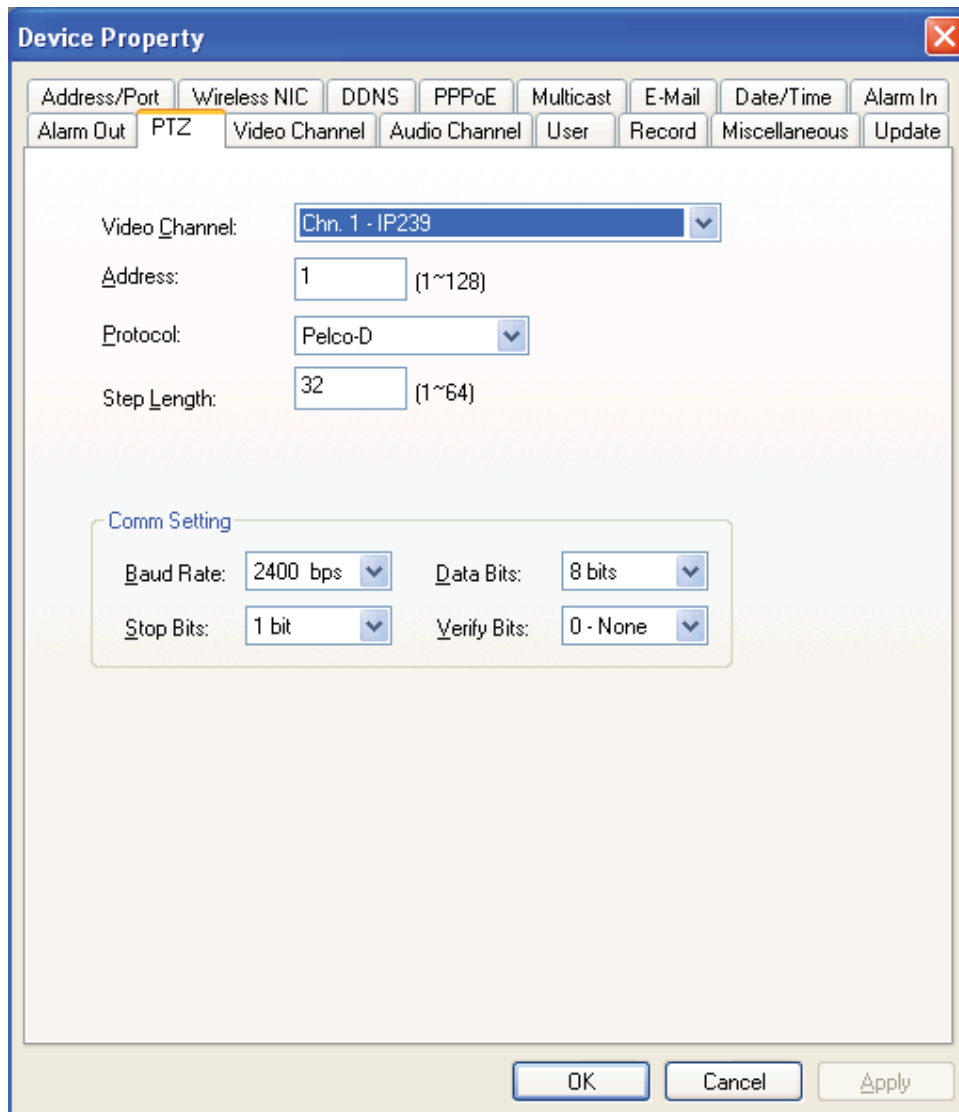
【Video Channel】 choose video channel.

【Address】 Matching the PTZ address with protocol.

【Protocol】 Support Palco-D & Palco-P, default is Palco-D.

【Step Length】 Range 1~64, default 32. High speed will make the control hard , suggest under 32 for high speed dome.

【Comm Setting】 Set baud rate, data bit, stop bit, parity bit.



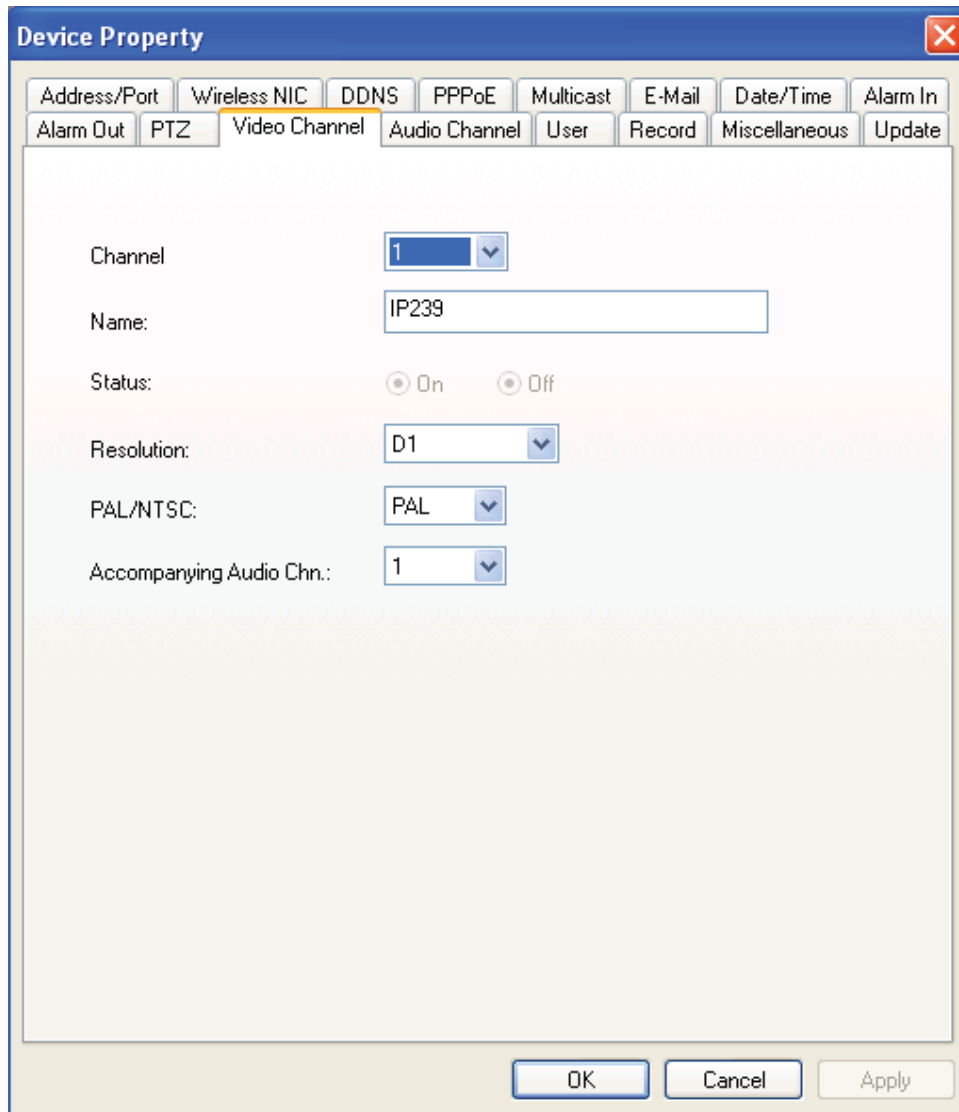
3.3.10 Video Channel

【Channel】 Choose the channel no.

【Name】 Setup channel name.

【Resolution】 QCIF / CIF / Half_D1 / D1.

【PAL/NTSC】 Choose PAL or NTSC.



Mark1: Need restart device to valid new setup.

Mark2: 4 channel DVS only support channel 1 set as D1 format.

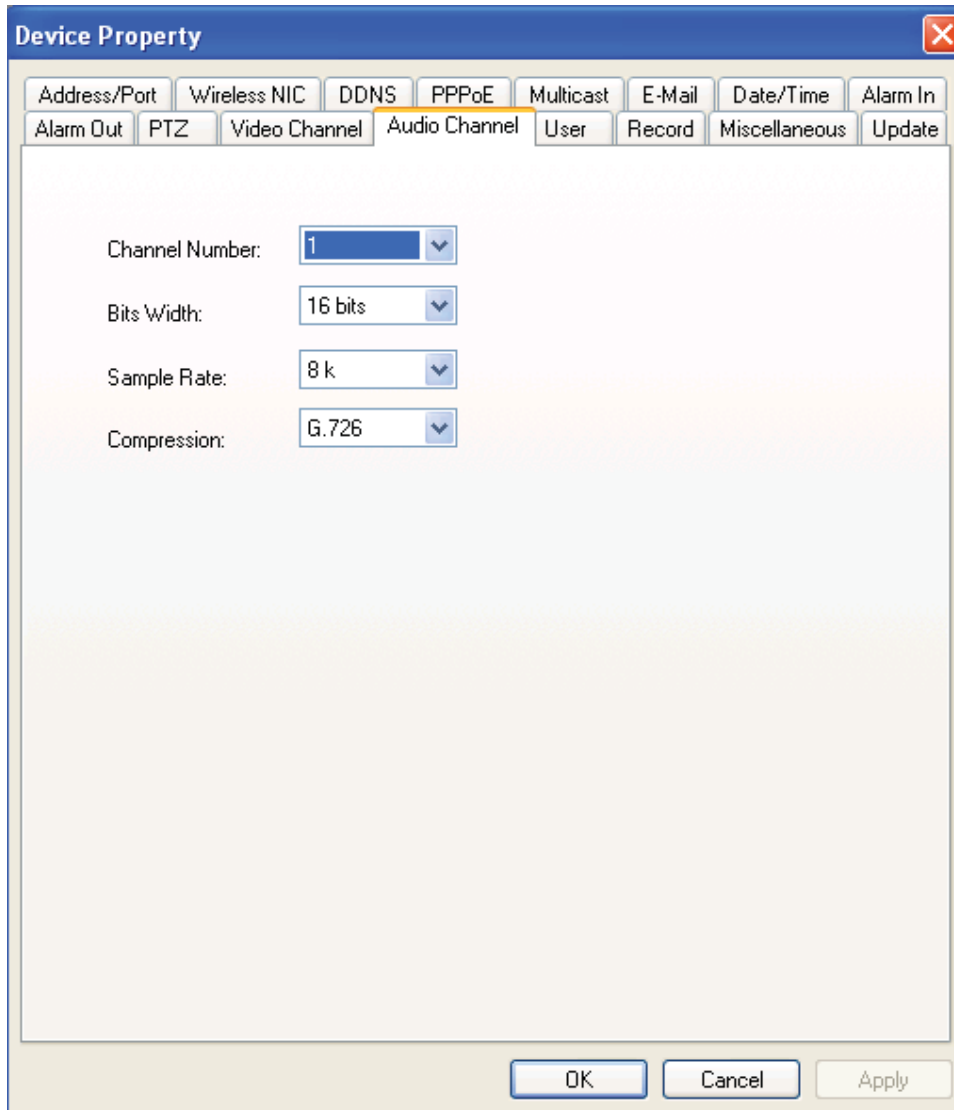
3.3.11 Audio Channel


【Channel Number】 Choose the channel no.

【Bits Width】 8bits / 16bits / 32bits optional.

【Sampling Rate】 The effect will better with frequency increase.

【Compression】 Choose different mode to compress audio steam(about 10 tims).



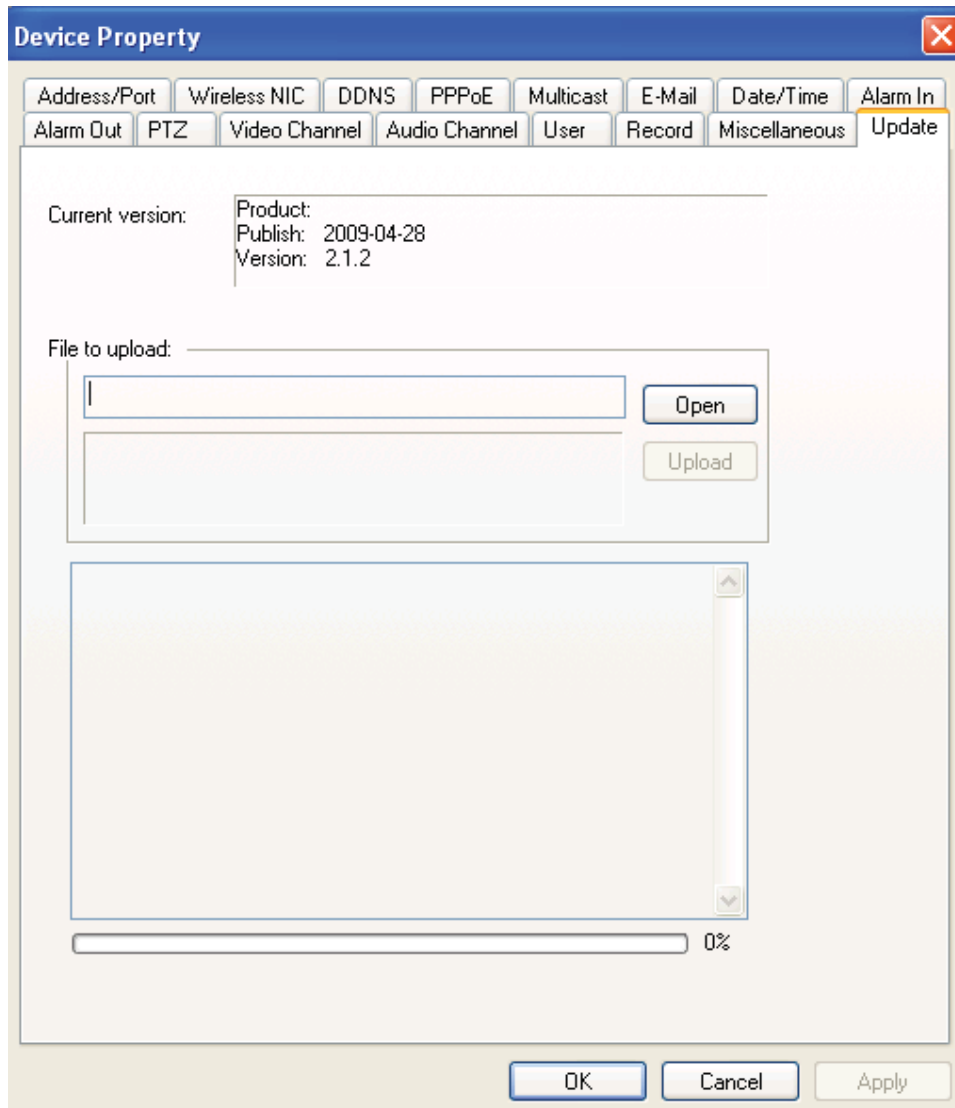
Mark: Suggest keep the default setting in normal. Just click   open talk back function.

3.3.12 User

User management is use to add, delete or modify user name and password, and setup corresponding authority. User name can only be English character or number,Chinese is no supported, maximum length of user name or password is 10 characters.

User is separated into three classes:

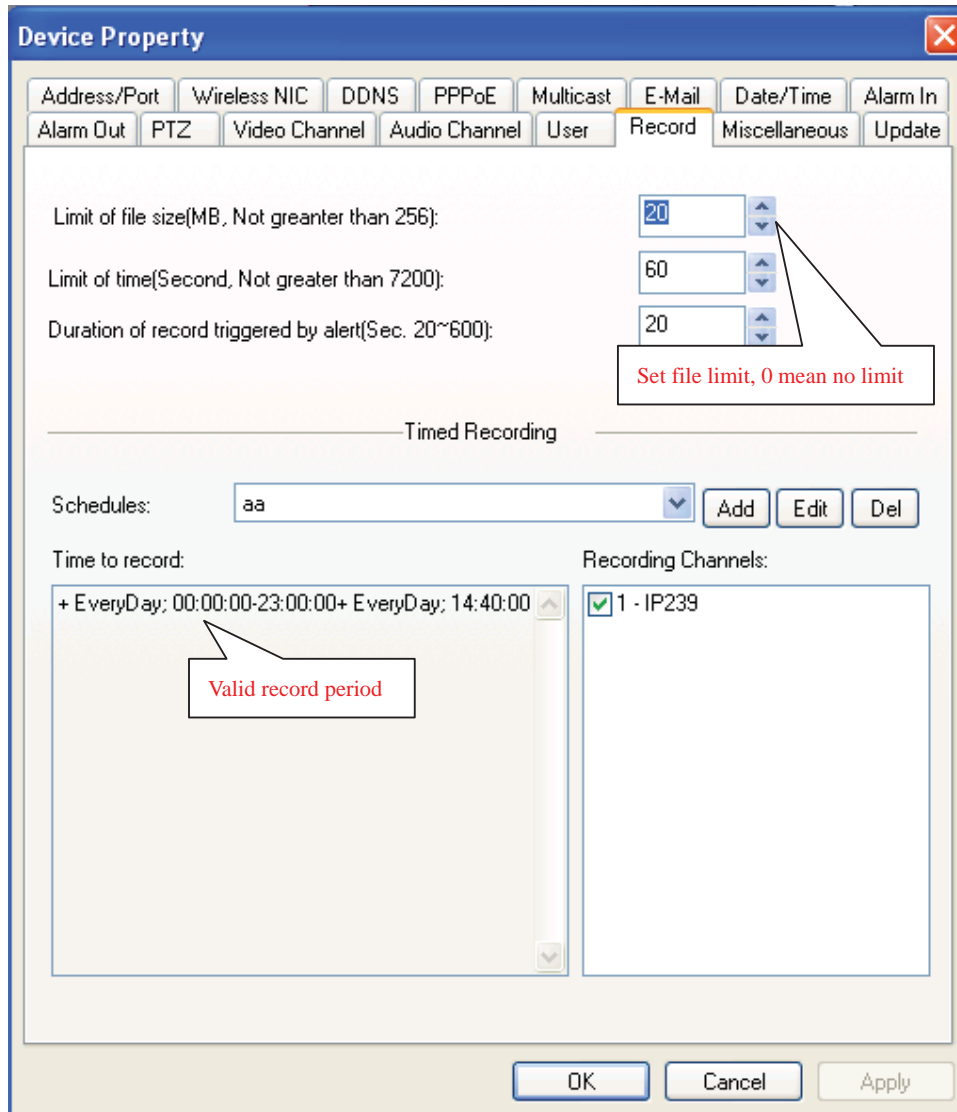
- ◆ Normal User: Admit to brown monitor image, no authority to setup device and manage user.
- ◆ Power User: Admit to setup device, no authority to manage user



Mark: Online upgrade file DAT is pk2. Firmware program and client program can be upgrade integrated or separated.

3.3.14 Record

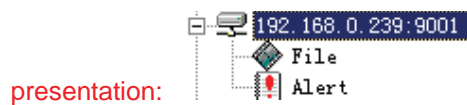
The record property will auto display when link to SD card. In other condition, please click **【IP】** → **【Property】** → **【Record】** to pop the dialog:



Mark1: Please cut off device before plug SD card.

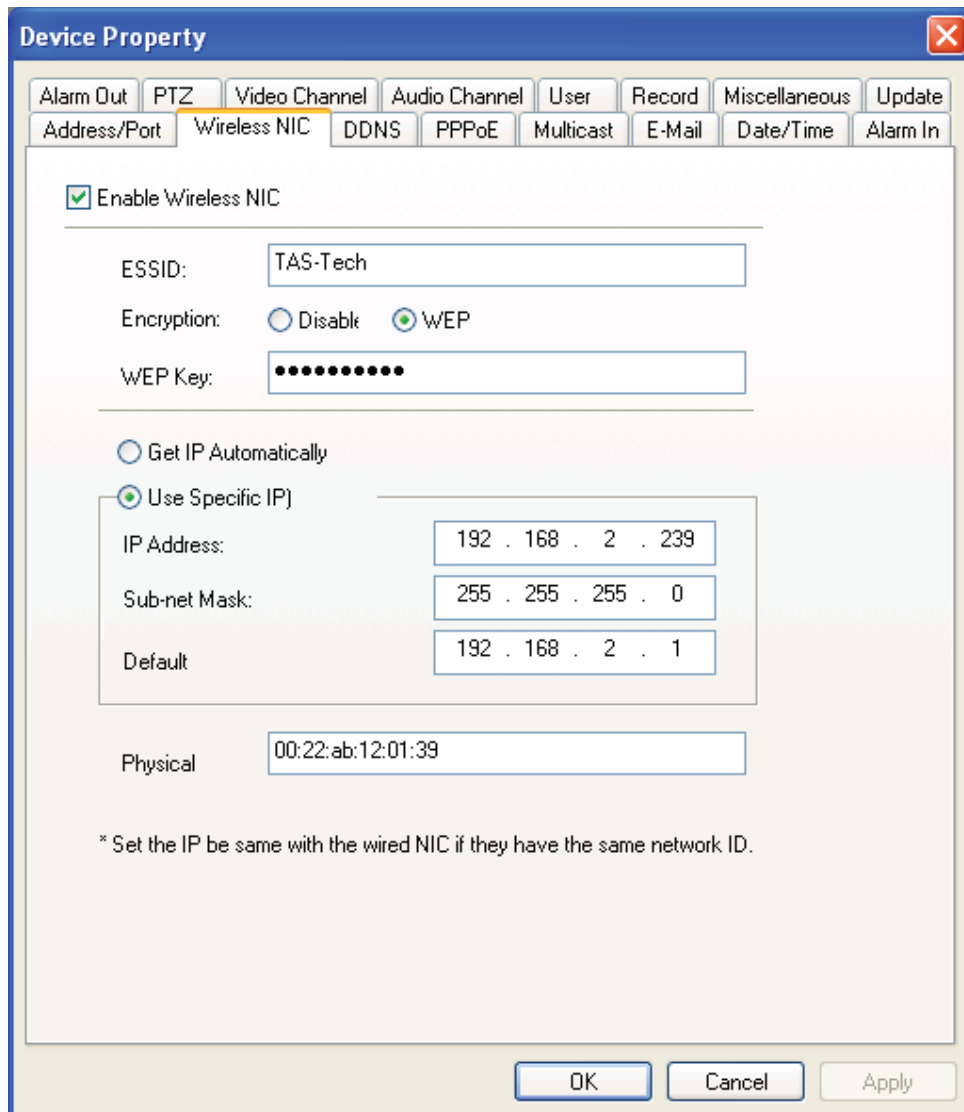
Mark2: Choose FAT32 type when format SD card.

Mark3: Click  choose **【Device-Side File】** to review record, see diagrammatic



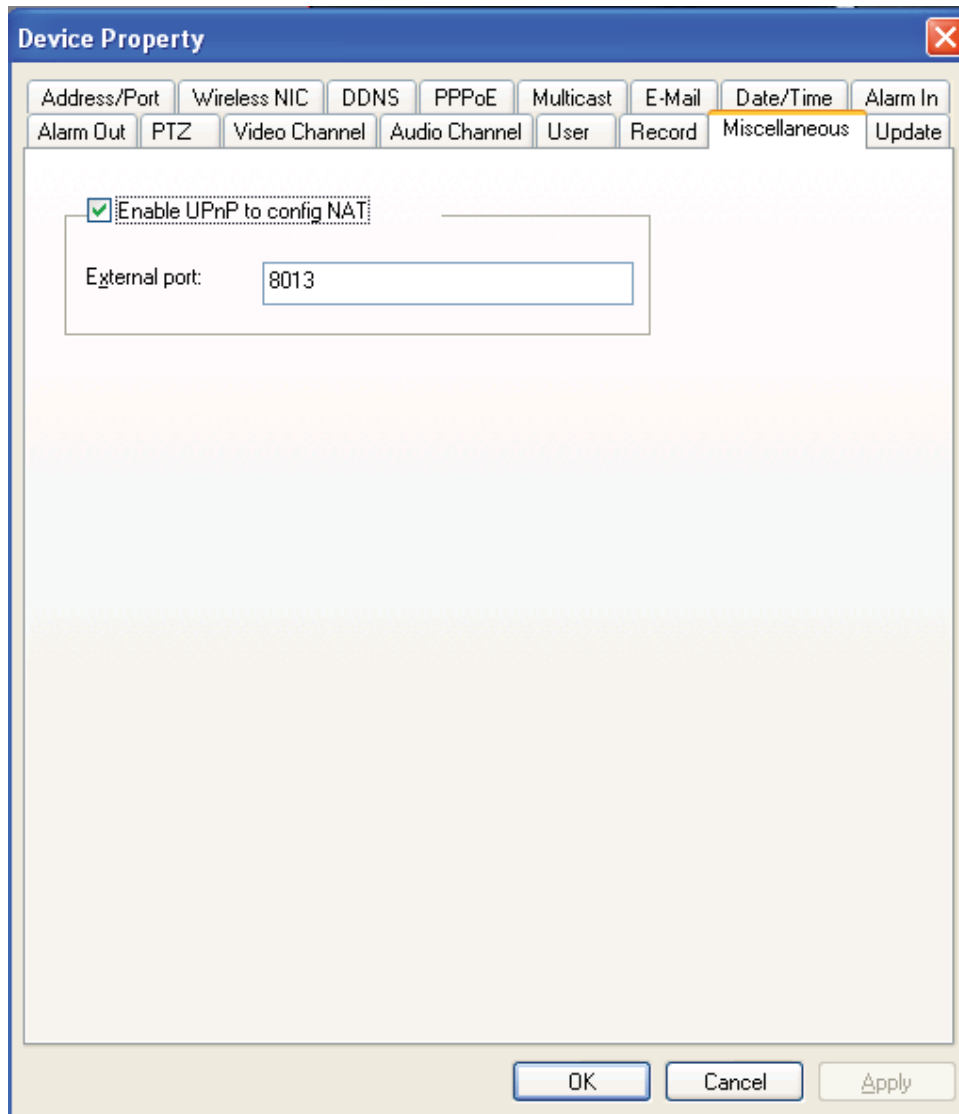
3.3.15 Wireless NIC(optional)

Wireless network card property will auto display; in other condition click **【IP】** → **【Property】** → **【Record】** to pop the dialog:



3.3.16 Miscellaneous (UPnP function)

UPnP(Universal Plug and Play), the router will auto mapping TCP and UDP port.




Mark1: Router must support UPnP function

Mark2: Recommend external port between 1025-32767

4 Other

4.1 LAN and WAN configuration

◆ LAN automatically search

Run DVS Client, Click , the video server in the local LAN will appear in the device list. Only PC and video server in same network segment can connect.

If there are no device in the device list, make sure the following question:

- ① If DVS is already powered?
- ② If DVS and PC have been normal connected? If yes, the light will be long bright or

flashing.

- ③ If PC has firewall working? If yes, should do it again after closing the firewall.

◆ WAN manually search

If users want to login in another subnet, the device can not automatically be searched.

The video device should be manually added as the following steps:

- ① Register DDNS services from a DDNS service provider. After applications a domain name will be assigned, and an account number and password will be obtained.

- ② Click mouse right key in device list up item, choose **【Property】** → **【DDNS】** set your domain info ,please see 3.3.2 for details.

- ③ When Internet IP is changed. The device will automatically tell DDNS server its new Internet IP.

- ④ Users only input domain in the network browser can run Client.

4.2 Application for DDNS

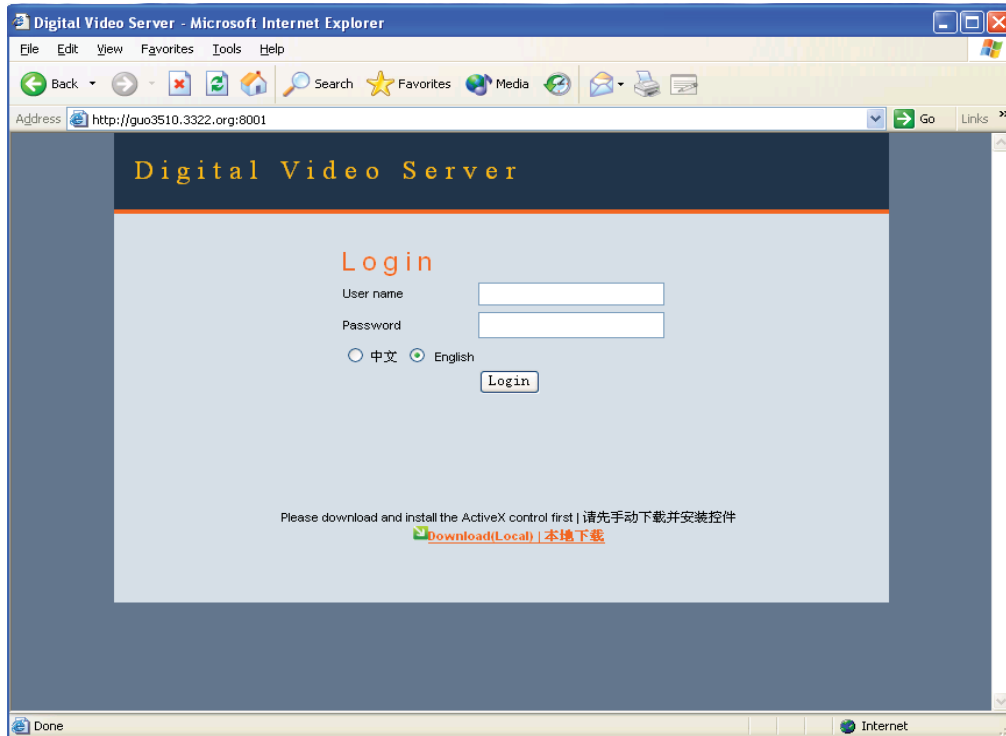
Normally users use dynamic IP address in the internet. User can use a static hostname instead of a dynamic IP address to monitor Lan device image. In this way, user should register a domain name and obtain a password. The device supports www.3322.org and www.dyndns.org , users can login it and register the domain, after doing it, set your domain info as 3.3.2 for details.

4.3 Router configuration

Routers must be set to enable a PC TCP connecting to the device. Routers use port number to decide which device request is allowed, this function is port transmitting or virtual services.

Appendix A IE mode

When first visit device through IE, user need add **http://** by manual to pop the following dialog:



Click [Download\(Local\) | 本地下载](#) download the client and control , then install it.

Then input user name and password (default is **admin**) can get monitor page, see below:

