

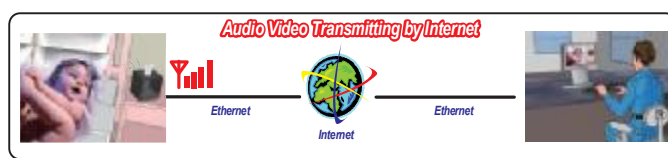
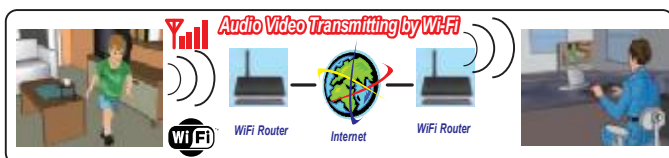
# H.264 Wifi IP Cam

## Tissue Box Covert DVR Camera

Wifi IP Camera is Accessible from Anywhere in the World by Internet

### TBX-DVRWF

- \* **COLOR** 1/3" CCD 480 TVL High Resolution
- \* Sending Live Video and Audio wirelessly by Wi-Fi / 3G Phone / Ethernet
- \* H.264 Algorithm hardware compression
- \* Easy Recording setup by Internet
- \* Super Low Lux Night Vision 0.001Lux
- \* Wide Angle 2.5mm Mini Lens
- \* Real-time Recording D1 640X480
- \* Support 32GB SD card up to 64 Hours
- \* Rechargeable Li-Ion Battery Pack 94h



MODEL	TBX-DVRWF
TYPE	Tissue Box covert DVR Camera
PICK-UP DEVICE	1/3" <b>COLOR</b> CCD
HORIZONTAL RESOLUTION	520TVL
MINI ILLUMINATION	0001 LUX Slow Shutter
LENS	Super Wide Angle 2.5mm Lens
VIDEO OUTPUT	1Vp-p, 75 Ohms
Video Resolution	PAL:352*288(CIF),704*288(2CIF),704*576(D1); NTSC:352*240(CIF),704*240(2CIF),704*480(D1)
Video Frame Rate	PAL: 1-25frames/second NTSC:1-30frames/second
Audio Input	1channel
Audio Compression	G.726
Audio Output	1channel,Unbalanced, 1.4Vp-p, 1Vrms
Supported Protocols	HTTP, SMTP, PPPoE, DDNS, DNS, DHCP, UPnP(CP for NAT)
System Interface	10M/100M self-adapting Ethernet port, SD card slot WiFi port, 802.11b/g wireless network (optional)
Alarm Input	1 channel on/off input
Alarm Output	1 channel on/off output
POWER SUPPLY	DC 12V (-/+10%)
POWER CONSUMPTION	500mA (-/+10%)

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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

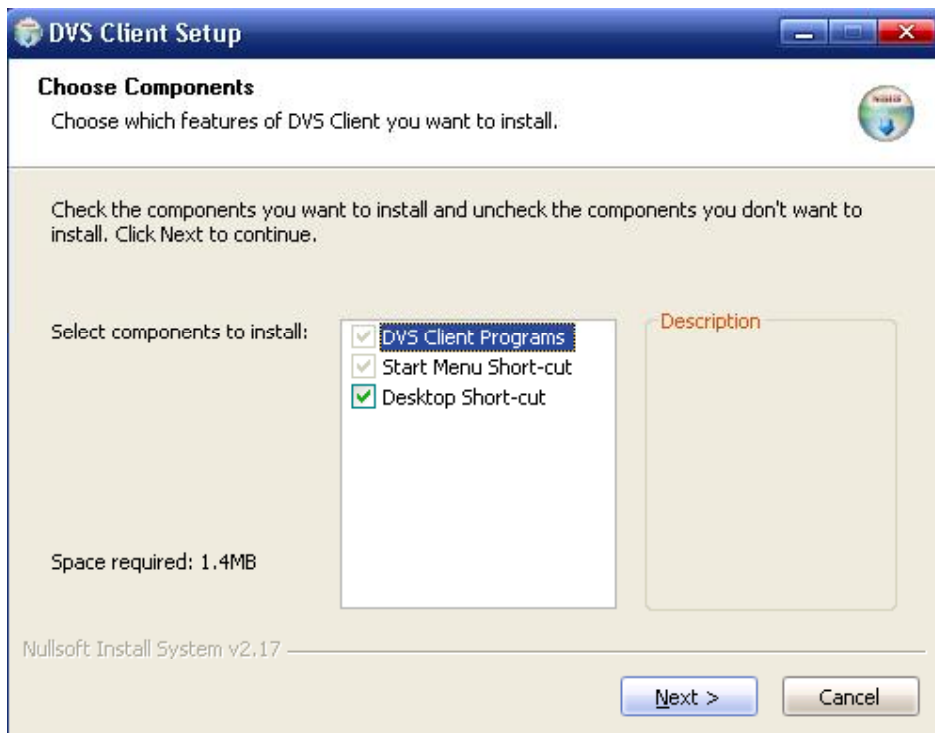
- Operating System: Windows 2000/XP/Vista
- Processor: Intel Pentium III, 1G or Higher (Pentium IV, 2G or Higher recommended)
- RAM: 256 MB or more
- Color Monitor: At least DirectX 8.1 or higher and 32M Display storage
- HD: More than 40G

### ◆ Software installation

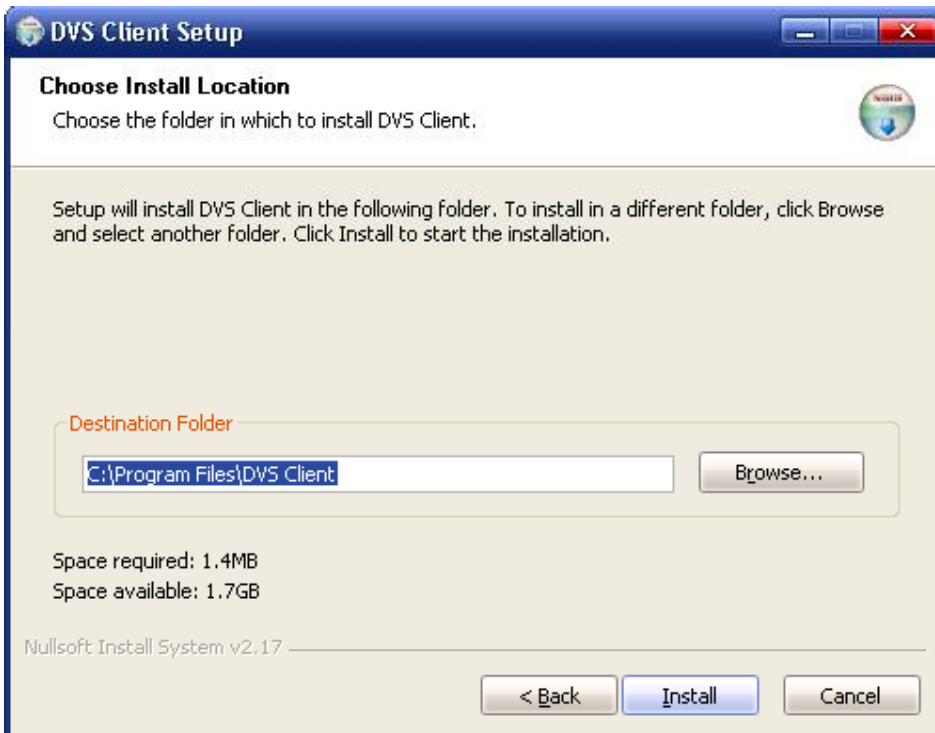
Run the client software DVS\_Client\_Setup.exe, the window below will pop up:



Select English, and click **OK**:

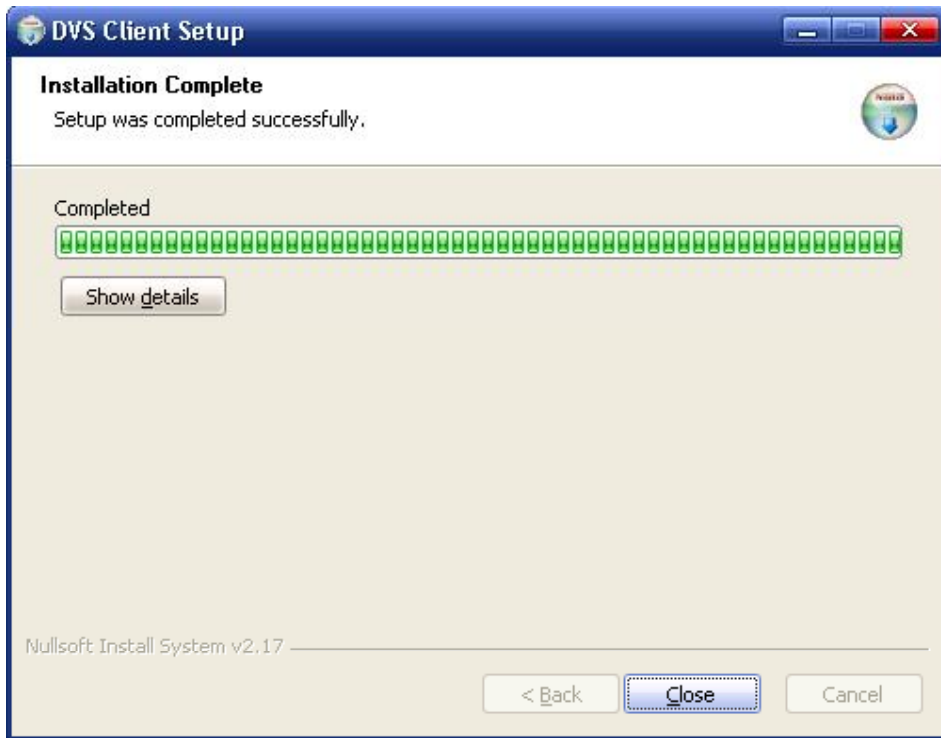


Click **Next** , the window below will pop up:



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

The below window will pop up:

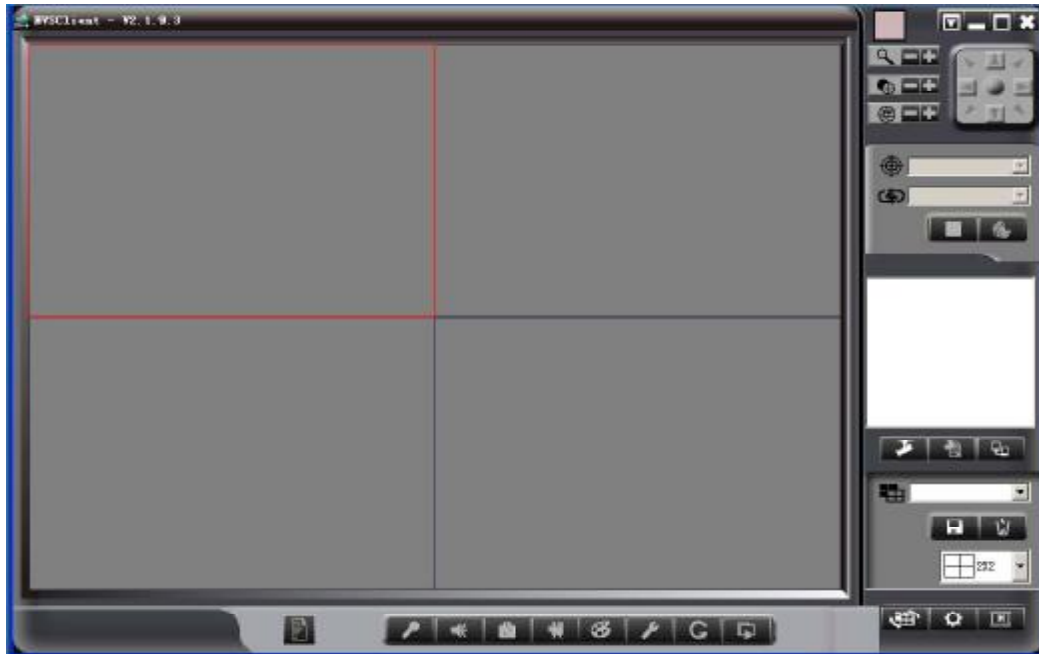


Then the setup is completed successfully.


## 3 Software Instructions

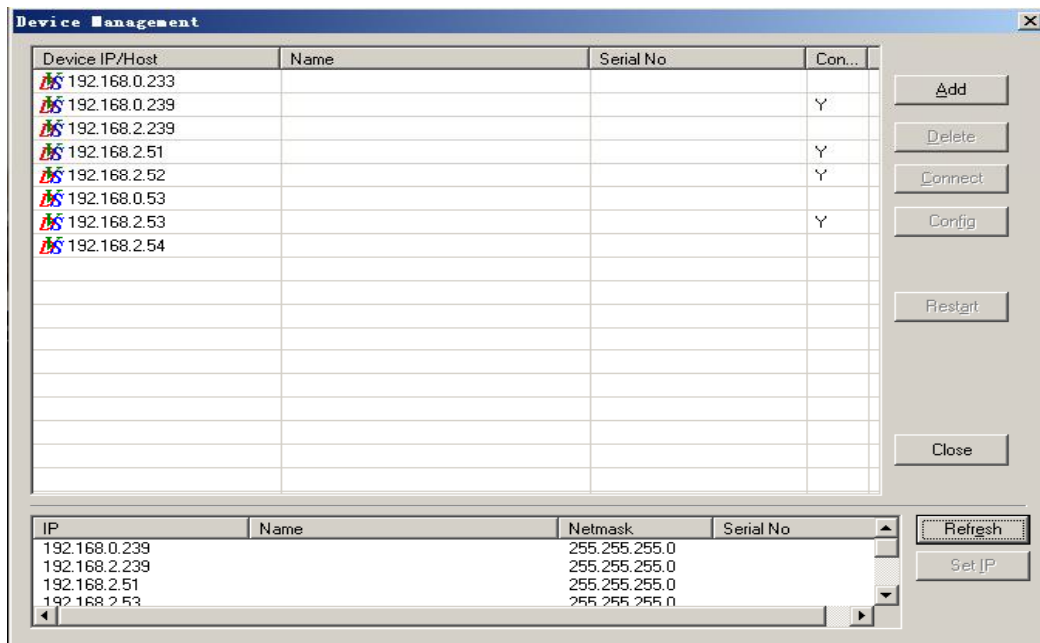
### 3.1 Main Interface

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.

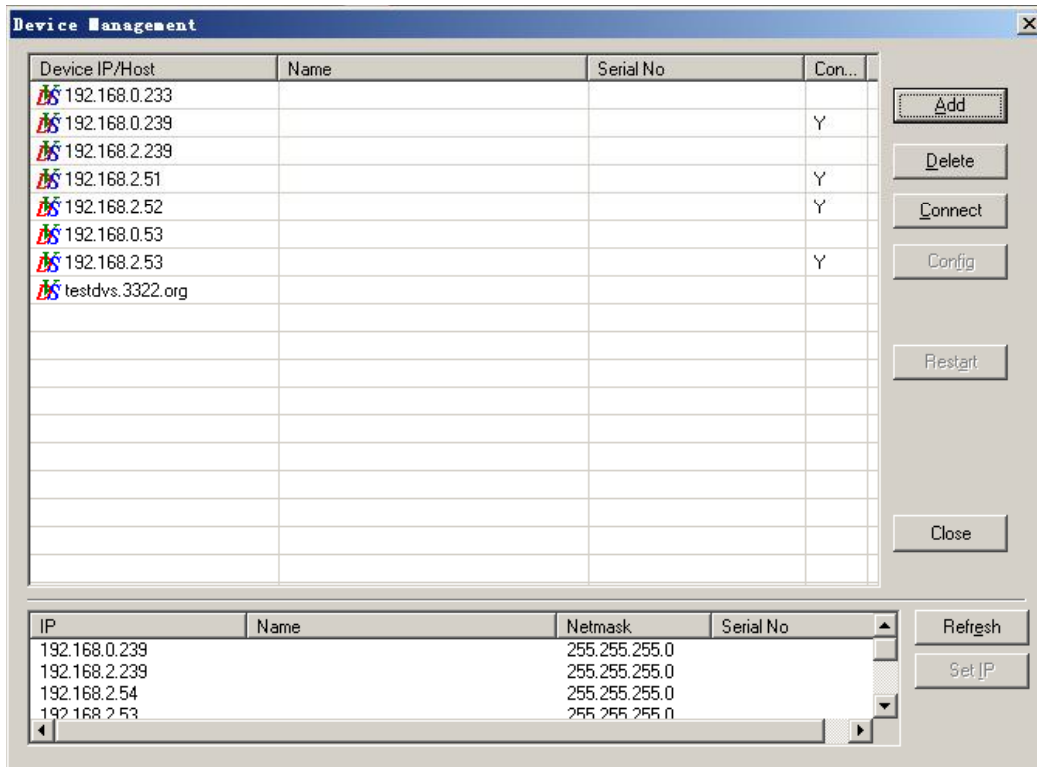
② Can add device IP address/ Domain name by manual, click **add** pop following dialog:



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

- 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 list of IP addresses.

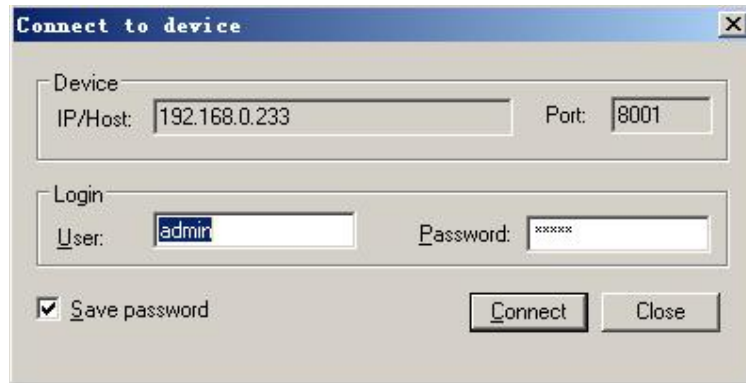
Device IP/Host	Name	Serial No	Con...
192.168.0.233			
192.168.0.239			Y
192.168.2.239			
192.168.2.51			Y
192.168.2.52			Y
192.168.0.53			
192.168.2.53			Y
testdvs.3322.org			

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 on the right: Add, Delete, Connect, Config, Restart, Close, Refresh, Set IP.

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



Connect to device

Device  
IP/Host: 192.168.0.233 Port: 8001

Login  
User: admin Password: xxxxxx

Save password

Connect Close

- 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 main interface function

### 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

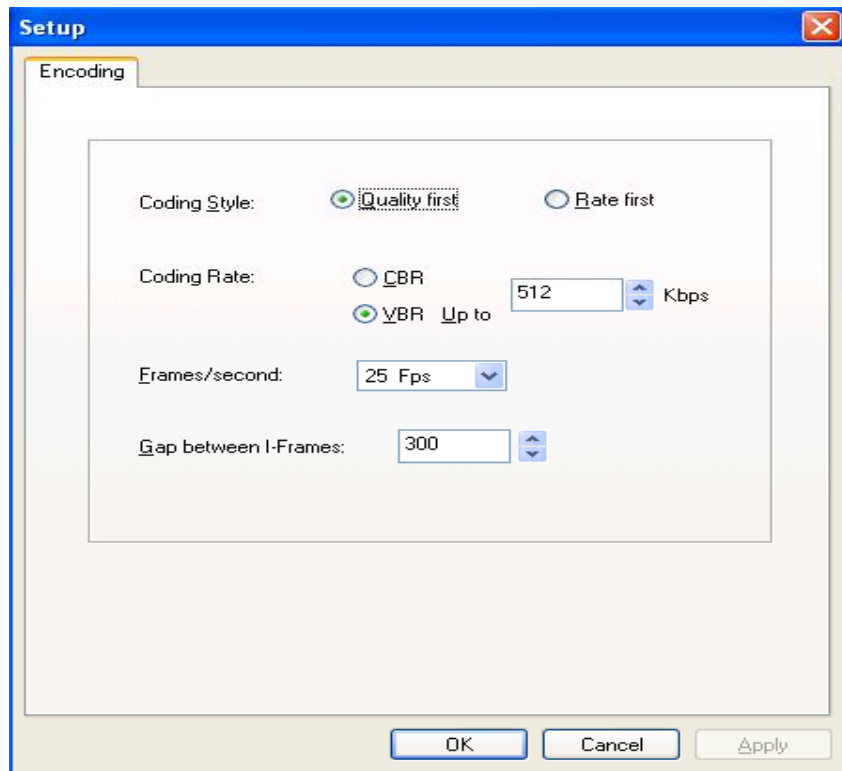
Allow setting frame mode, stream type, frame rate, I frame interval, see below:

**【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.

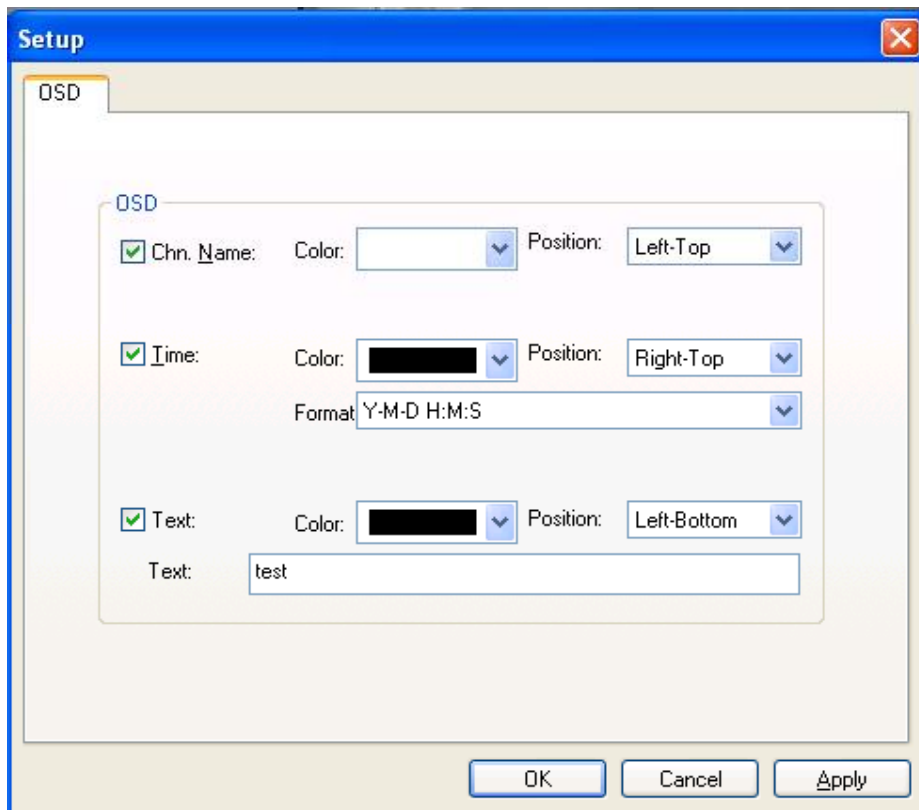
**【Frame/second】** Range is 1~25, default 10 Fps.

**【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

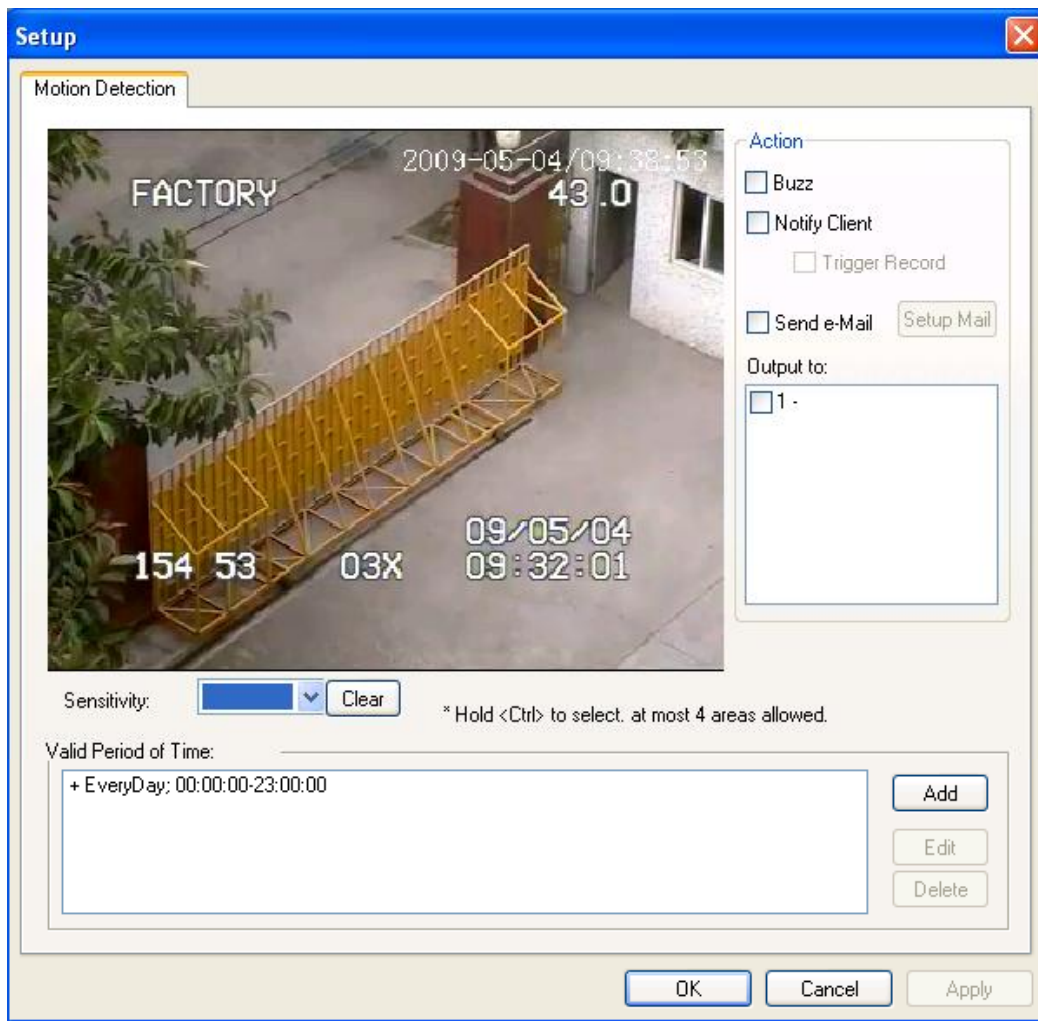
**【Area setting】** Hold **【ctrl】** choose the area, max 4 zones allowed.

**【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.

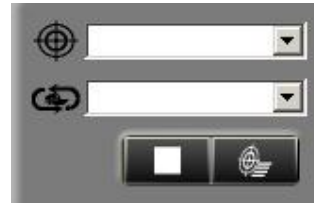
**【Output to】** Choose the display channel.



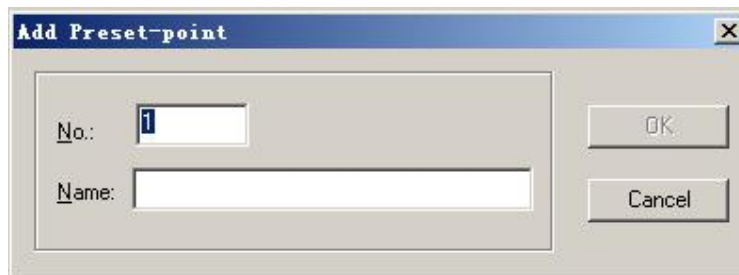
### 3.2.2 PTZ Control


- ◆ Click    adjust focus
- ◆ Click    adjust aperture
- ◆ Click    adjust lens
- ◆ Click up/down/left/right control pan&tltiti 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

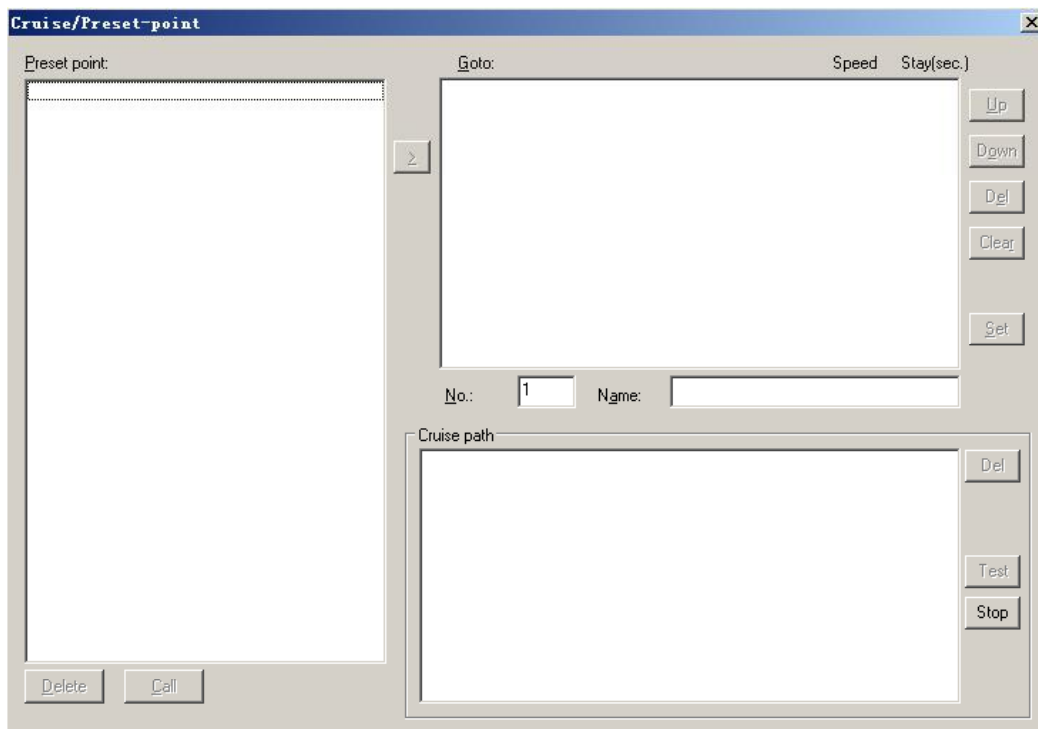
 to stop the cruise.






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:





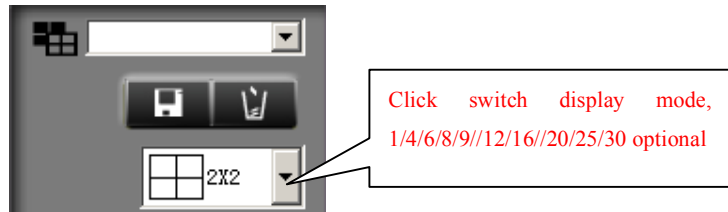
### 3.2.3 Device List

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




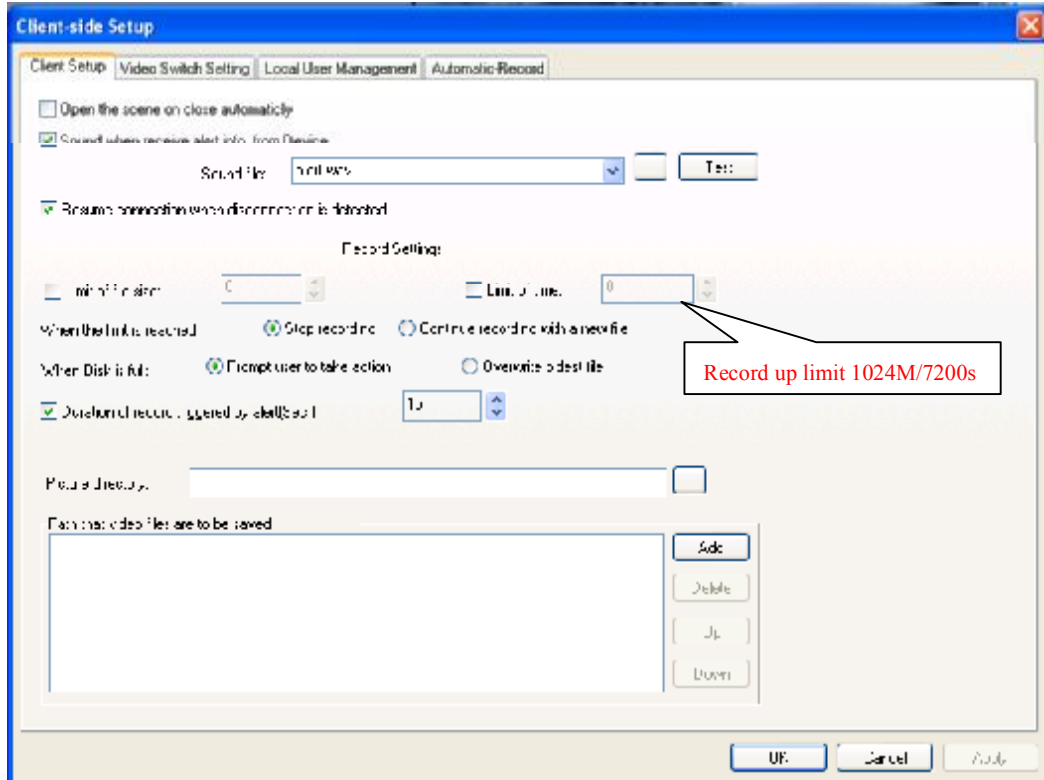
#### 3.2.5.1 Screen Switch

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

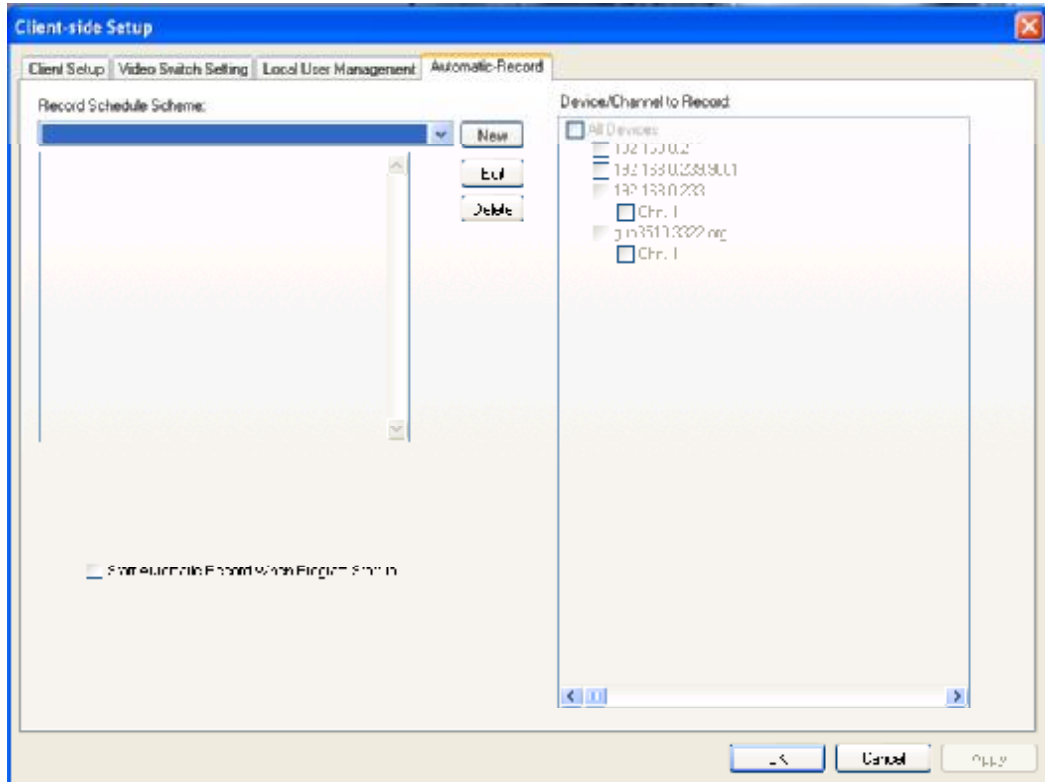
It will realize multi-device or different channels switch in one screen. Click **【page】** arrow to add/delete page, click **【stay】** arrow to add/delete standstill period, click **【 2/2】** choose display mode, hold mouse left key drag the wanted channel to the right column or delete it by double click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




### ◆ Automatic\_Record

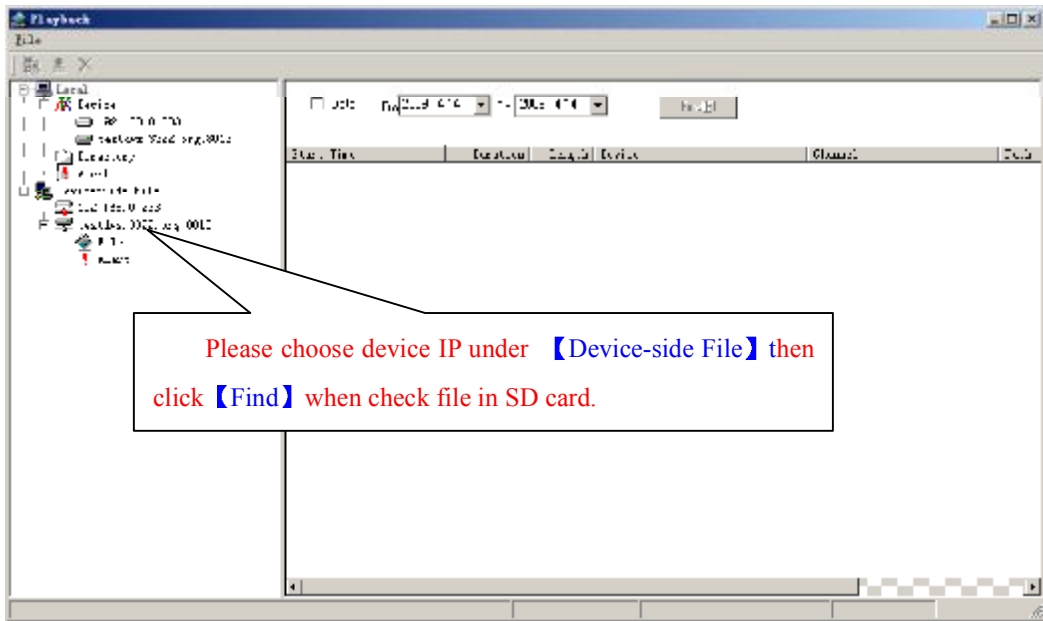
Allow time record channel/period setting, save path setting in **client setup**. The interface

indicator  will blink after start this function.



### 3.2.5.3 Playback


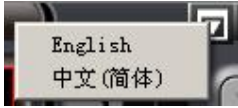
Click  pop following dialog, Search need file through catalog or event list. Double click to play the file.




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

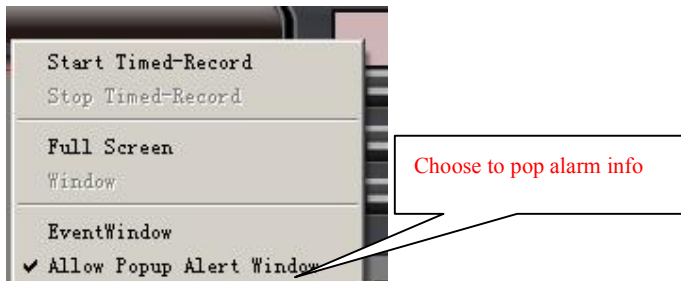
Mark2:Device port file mean file save in linked SD card.

### 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:

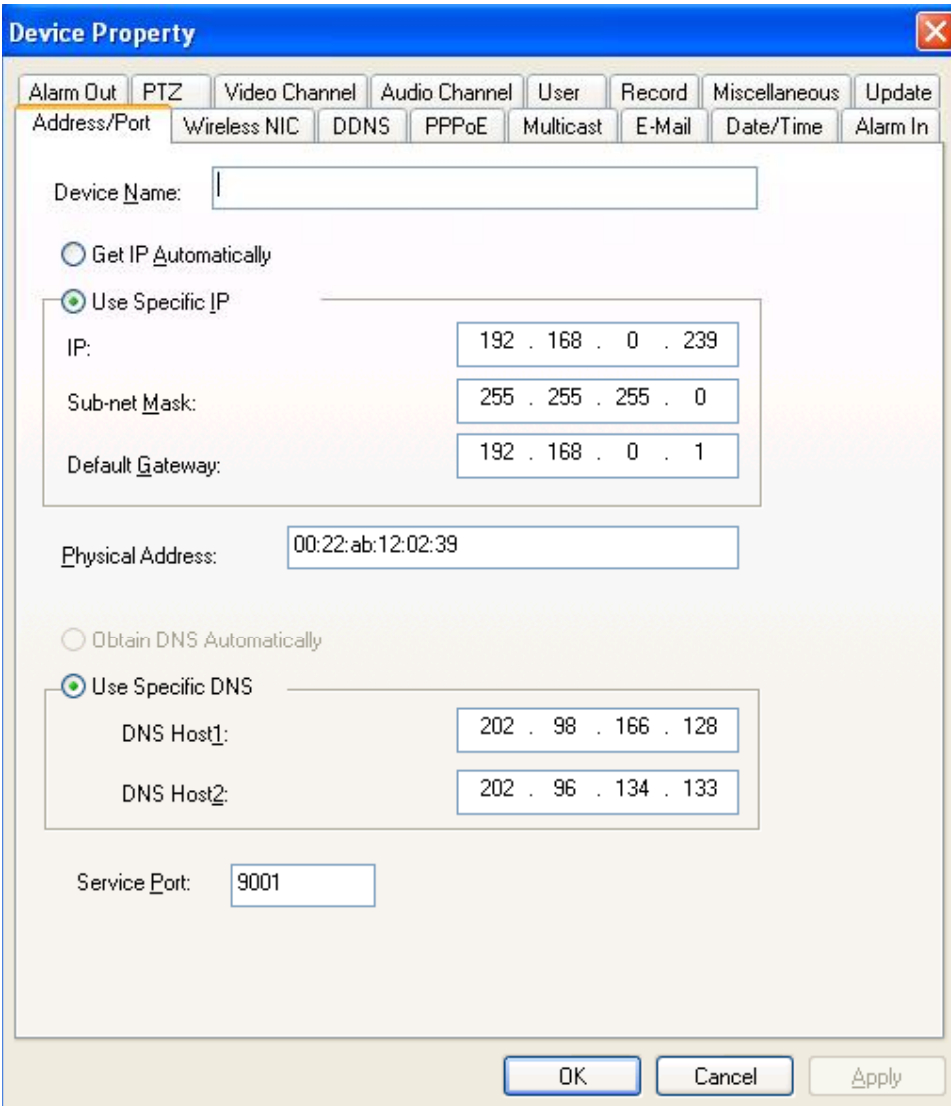


### 3.3 Device property

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 blue title bar and a close button in the top right corner. Below the title bar is a row of tabs: Alarm Out, PTZ, Video Channel, Audio Channel, User, Record, Miscellaneous, Update, Address/Port (selected), Wireless NIC, DDNS, PPPoE, Multicast, E-Mail, Date/Time, and Alarm In. The main content area contains the following fields and options:

- Device Name: [Empty text box]
- Get IP Automatically:
- Use Specific IP: 
  - IP: [192 . 168 . 0 . 239]
  - Sub-net Mask: [255 . 255 . 255 . 0]
  - Default Gateway: [192 . 168 . 0 . 1]
- Physical Address: [00:22:ab:12:02:39]
- Obtain DNS Automatically:
- Use Specific DNS: 
  - DNS Host1: [202 . 98 . 166 . 128]
  - DNS Host2: [202 . 96 . 134 . 133]
- Service Port: [9001]

At the bottom right, there 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](http://www.oray.net) and [www.3322.org](http://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 configuration fields are as follows:

- DDNS Service Provider: 3322(www.3322.org)
- User Name: testdvs
- Password: [masked]
- DDNS Host/IP: members.3322.org
- Service Port: 80
- Dynamic Domain Name: testdvs.3322.org

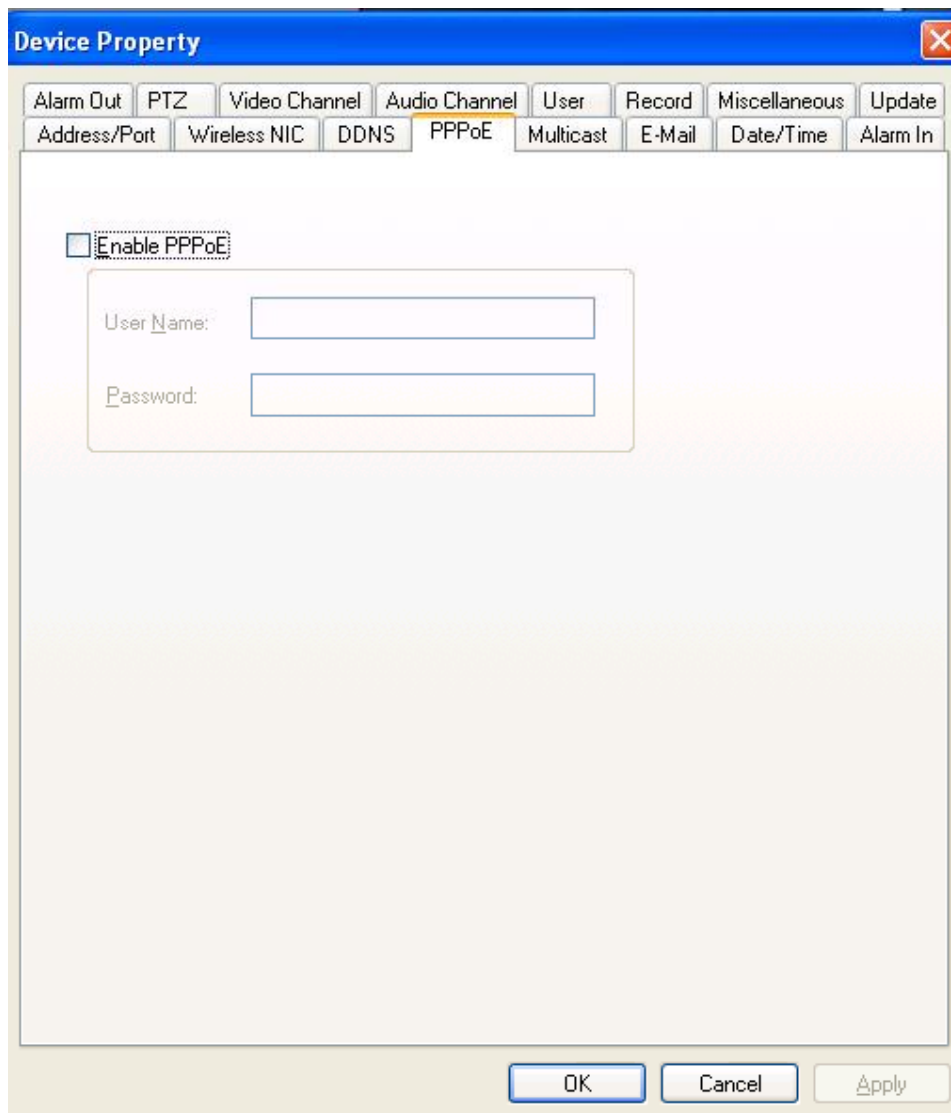
The Status section displays:

- Service Type: Standard
- Service Status: On line
- Domain Names: 218.18.184.22

A URL field at the bottom contains <http://www.3322.org>. The dialog has 'OK', 'Cancel', and 'Apply' buttons at the bottom right.

### 3.3.3 PPPoE

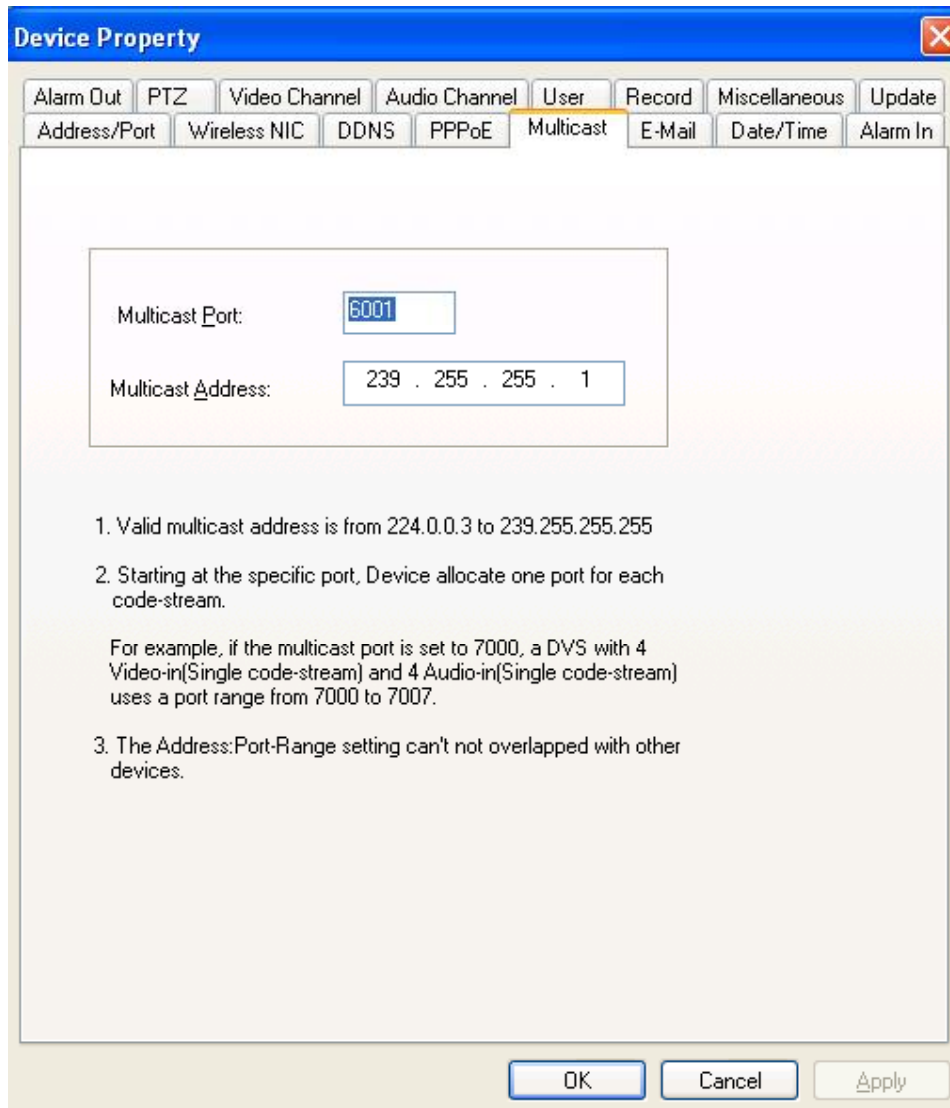
The client software allow PPPoE . Link the device to phone line through modem, dial to internet. User can visit the monitor picture by internet from long distance. Choose PPPoE in following dialog then input user name and password then click **【OK】** .



The image shows a screenshot of a software window titled "Device Property". The window has a blue title bar with a close button (X) in the top right corner. Below the title bar is a tabbed interface with the following tabs: Alarm Out, PTZ, Video Channel, Audio Channel, User, Record, Miscellaneous, Update, Address/Port, Wireless NIC, DDNS, PPPoE (selected), Multicast, E-Mail, Date/Time, and Alarm In. The main content area of the window contains a checkbox labeled "Enable PPPoE" which is currently unchecked. Below this checkbox is a rectangular box containing two input fields: "User Name:" followed by an empty text box, and "Password:" followed by an empty text box. At the bottom of the window, there are three buttons: "OK", "Cancel", and "Apply".

### 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.

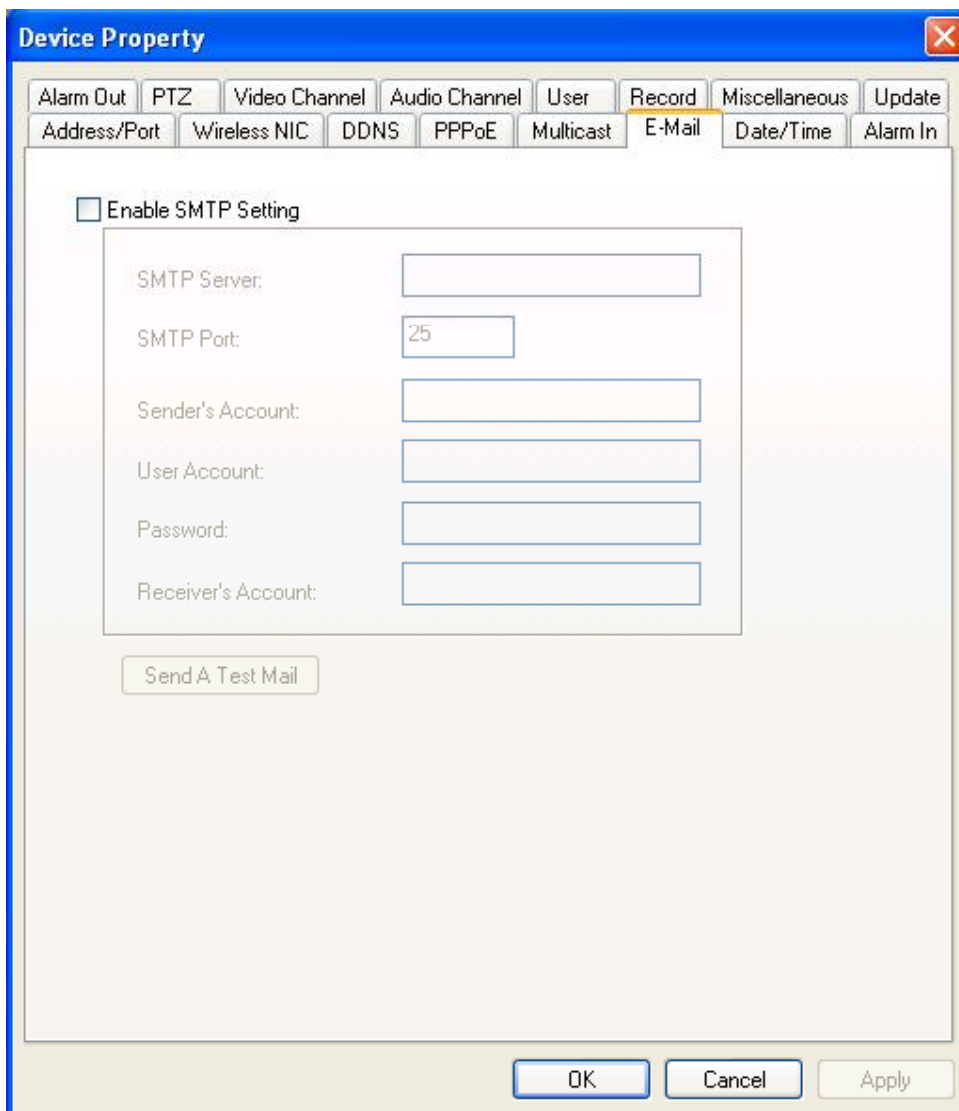
**【SMTP Port】** default 25.

**【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.

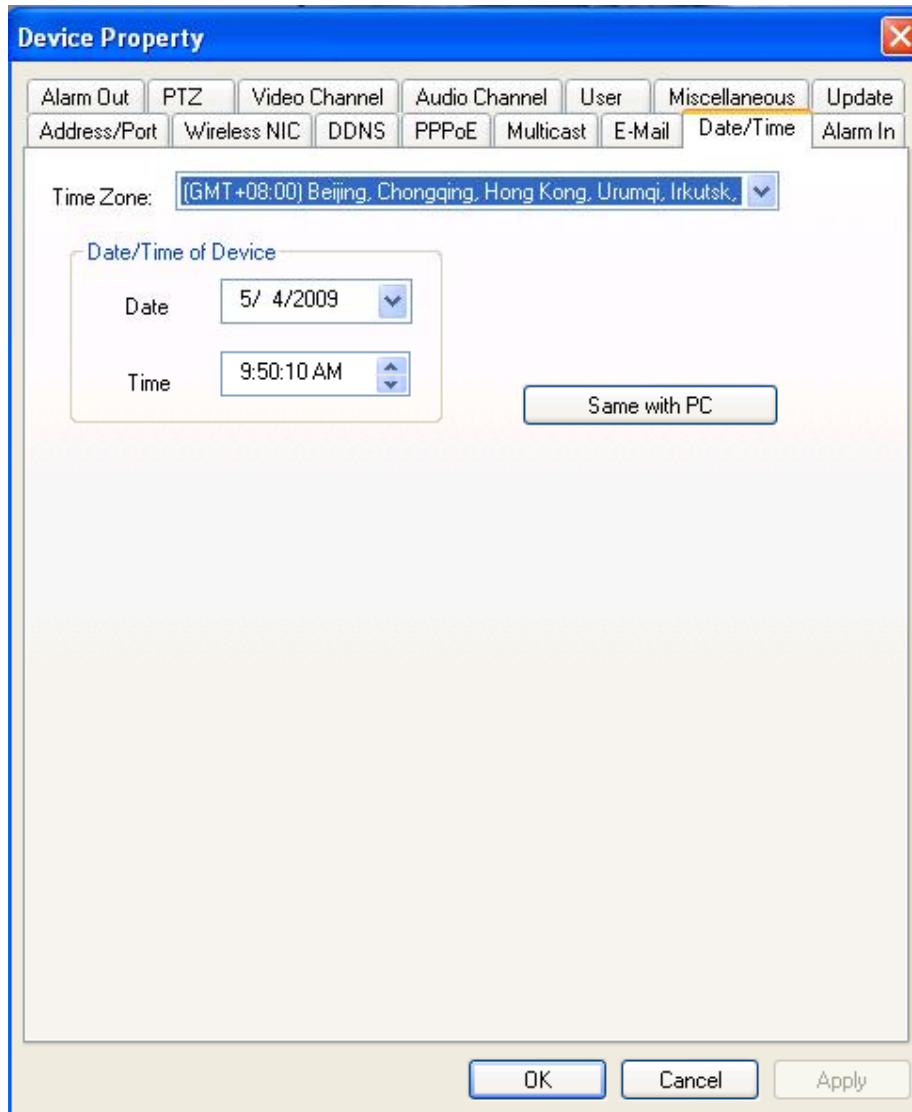


The screenshot shows a 'Device Property' dialog box with the 'E-Mail' tab selected. The dialog has a title bar with a close button. Below the title bar is a row of tabs: Alarm Out, PTZ, Video Channel, Audio Channel, User, Record, Miscellaneous, Update, Address/Port, Wireless NIC, DDNS, PPPoE, Multicast, E-Mail, Date/Time, and Alarm In. The 'E-Mail' tab is highlighted. Inside the dialog, there is a checkbox labeled 'Enable SMTP Setting' which is currently unchecked. Below this checkbox is a form with six input fields: 'SMTP Server:', 'SMTP Port:' (containing the number '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.

The screenshot shows the 'Device Property' dialog box with the 'Alarm In' tab selected. The 'Channel' is set to '1'. Under 'Actions take to response to alarm', 'Buzz', 'Notify Client', and 'Trigger Record' are checked, and 'Send e-Mail' is unchecked. The 'Output to' is set to '1'. The 'PTZ Linkage' is set to 'None'. The 'Watch Video' is set to 'Chn.1 - IP239'. The 'Valid period of time' is set to '+ Everyday: 00:00:00-23:00:00'. Buttons for 'Add', 'Edit', and 'Delete' are visible next to the time period list. At the bottom are 'OK', 'Cancel', and 'Apply' buttons.

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

The screenshot shows the 'Device Property' dialog box with the 'Alarm Out' tab selected. The 'Channel' dropdown is set to '1'. The 'Name' field is empty. The checkbox 'Output port keeps off in normal state' is unchecked. The 'Duration of alarm out(Sec.)' field is set to '0'. The 'Valid Period of Time' section contains a list with one entry: '+ Everyday: 00:00:00-23:00:00'. The 'Add', 'Edit', and 'Delete' buttons are visible next to the list. The 'OK', 'Cancel', and 'Apply' buttons are at the bottom of the dialog.

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

- Video Channel:** Chn. 1 - IP239 (dropdown menu)
- Address:** 1 (text input, range 1~128)
- Protocol:** Pelco-D (dropdown menu)
- Step Length:** 32 (text input, range 1~64)

Below these settings is a 'Comm Setting' section with the following options:

- Baud Rate:** 2400 bps (dropdown menu)
- Data Bits:** 8 bits (dropdown menu)
- Stop Bits:** 1 bit (dropdown menu)
- Verify Bits:** 0 - None (dropdown menu)

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

### 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 a blue title bar and a close button (X) in the top right corner. The dialog has 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 (selected), Audio Channel, User, Record, Miscellaneous, and Update. The 'Video Channel' tab is active, displaying 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, there 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.

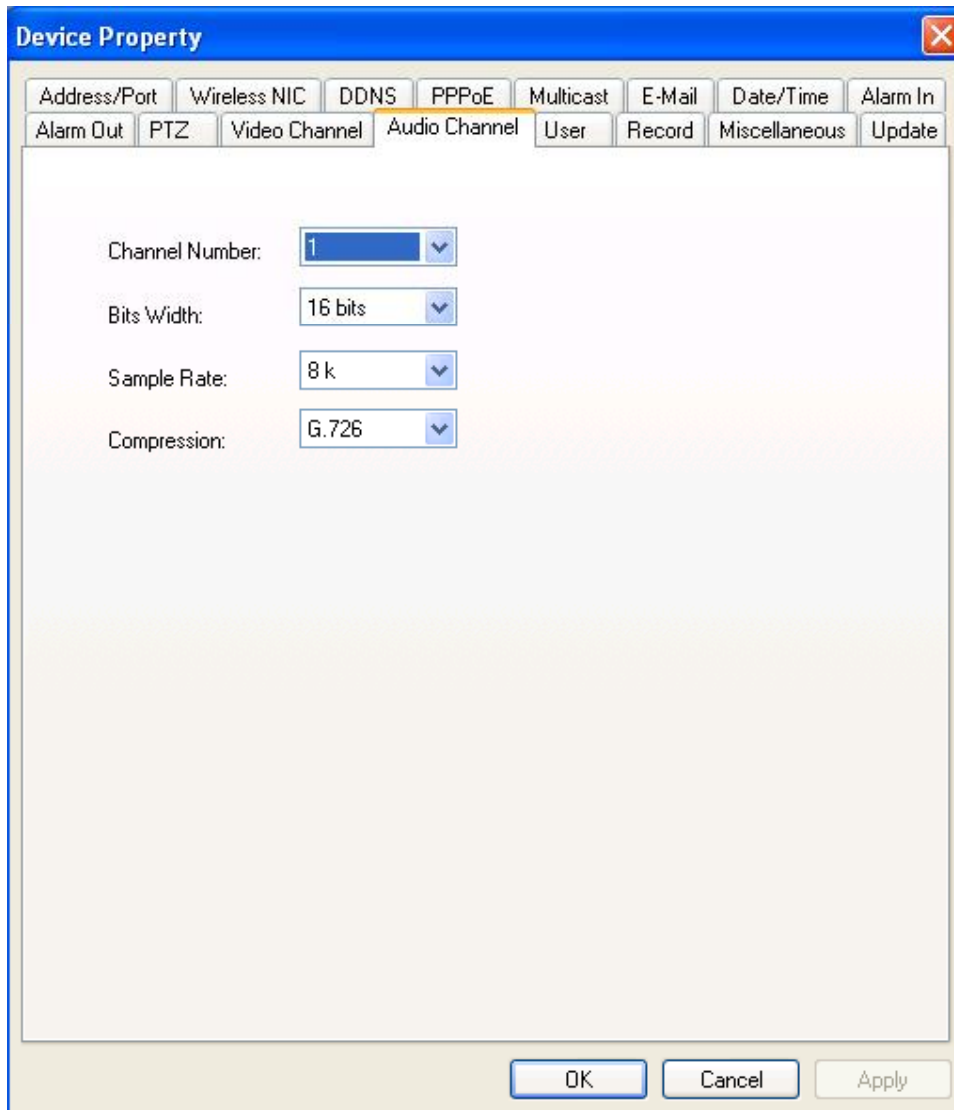
### 3.3.11 Audio Channel



**【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.

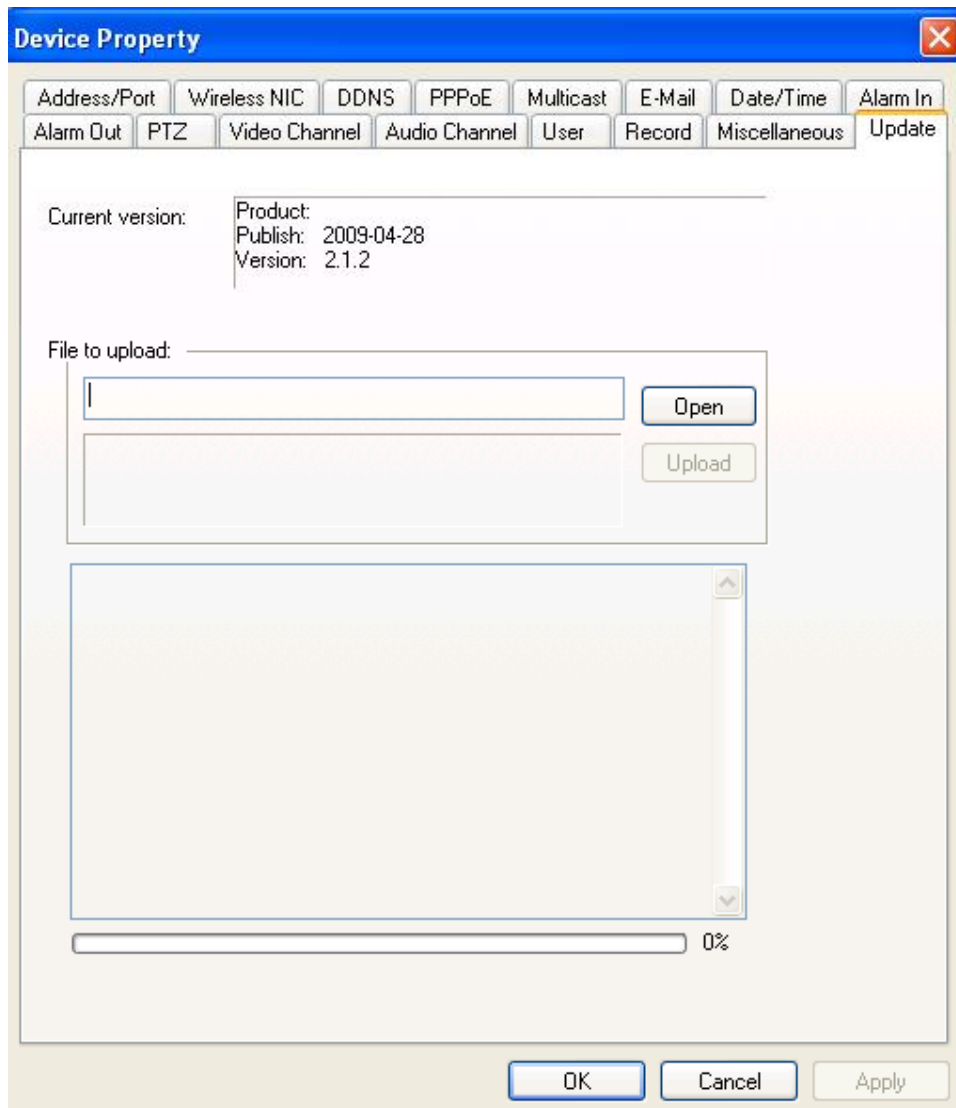


### 3.3.13 Update

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.

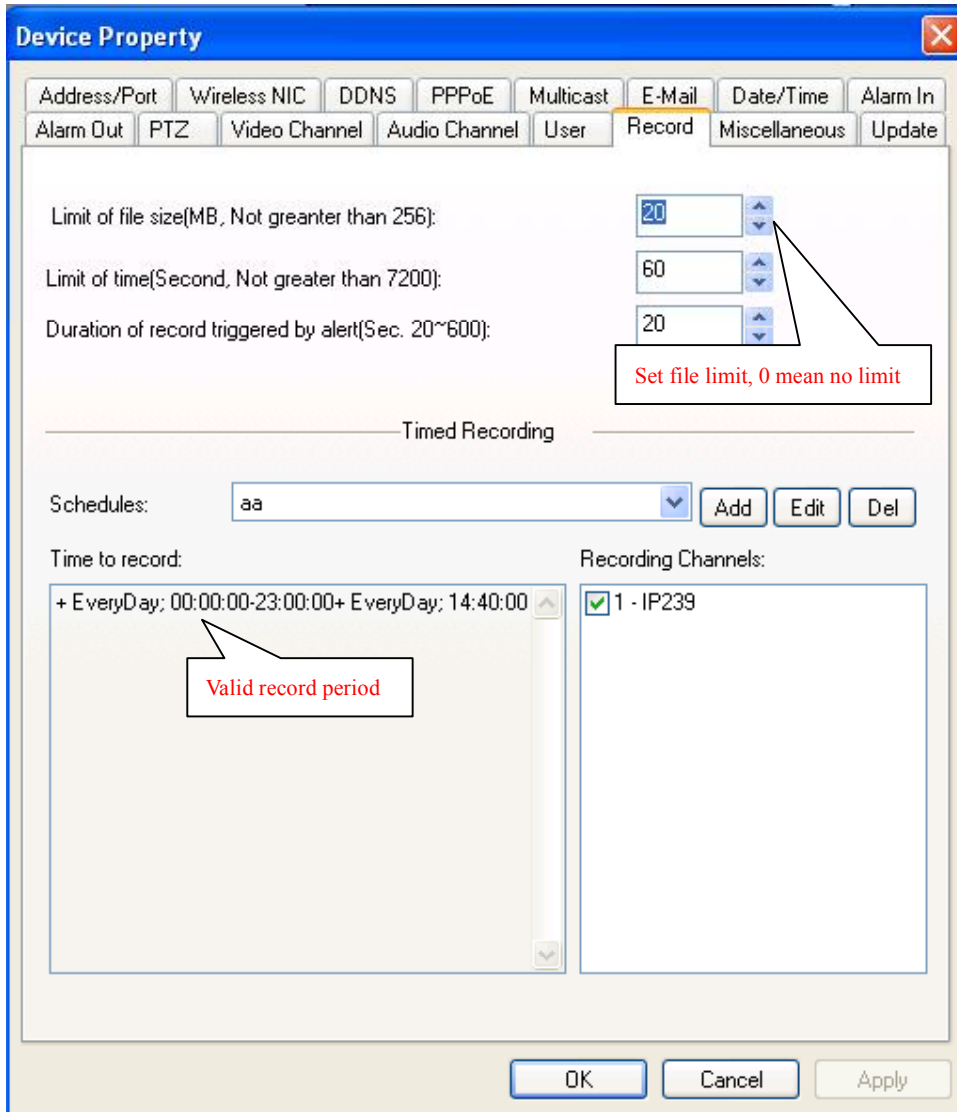
**【File to upload】** Click **【Open】** find the file then click **【Upload】**, the following dialog will show the progress. The device will auto restart after upgrade, not shut off during the process.



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

### 3.3.14 Record

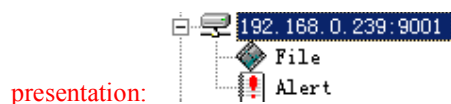
The record property will auto display when link to SD card. In other condition, please click **【IP】** → **【Property】** → **【Record】** to pop the dialog:



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. The 'Wireless NIC' tab is selected. The dialog contains the following fields and options:

- Enable Wireless NIC
- ESSID: TAS-Tech
- Encryption:  Disable  WEP
- WEP Key: [Redacted]
- 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.

Buttons: OK, Cancel, 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 row of tabs: Address/Port, Wireless NIC, DDNS, PPPoE, Multicast, E-Mail, Date/Time, Alarm In, Alarm Out, PTZ, Video Channel, Audio Channel, User, Record, Miscellaneous, and Update. The 'Miscellaneous' tab is selected. In the main area, there is a checked checkbox labeled 'Enable UPnP to config NAT'. Below it is a text input field labeled 'External port:' containing the number '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](http://www.3322.org) and [www.dyndns.org](http://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:

