

User's Manual

Box IP Camera



TABLE OF CONTENTS

1 Product Summarize.....	2
1.1 Key features	2
1.2 Product Interface.....	3
2 Installation Guide	3
2.1 System requirement	3
2.2 Software installation	3
3. Instructions	6
3.1 Client Mode	6
3.2 The main interface function	9
3.2.1 Toolbar	9
3.2.2 PTZ	15
3.2.4 Adjusting the layout window	17
3.2.5 Path and Replay	18
3.3 Device Property	20
3.3.1 Address	21
3.3.2 DDNS	22
3.3.3 PPPoE	23
3.3.4 Multicast	24
3.3.5 E-Mail	24
3.3.6 Date/Time	26
3.3.7 Alarm In	26
3.3.8 Alarm Out	27
3.3.9 PTZ	28
3.3.10 Video Channel.....	29
3.3.11 Audio Channel	30
3.3.13 Update.....	33
4 Others	33
4.1 LAN and WAN configuration.....	34
4.1.1 LAN automatically search	34
4.1.2 WAN manually search	35
4.2 Application for account.....	35
4.2.1 www.oray.net	35
4.2.2 www.3322.org.....	37
4.3 Router configuration.....	40
Appendix A IE mode	41

1 Product Summarize

1.1 Key features

CCD Sony 1/3' CCD Image Sensor 480TVL

Video resolution D1 704*576

Support image shield, image capture

Real-time bidirectional speaks

Auto-recovery function if exception occurs and auto-connection if the network disruptions

H.264 compression, realize transmission of high definition video over low

Network bandwidth easily

Video lost, motion detection and sensor alarm functions(area and sensitivity can be set)

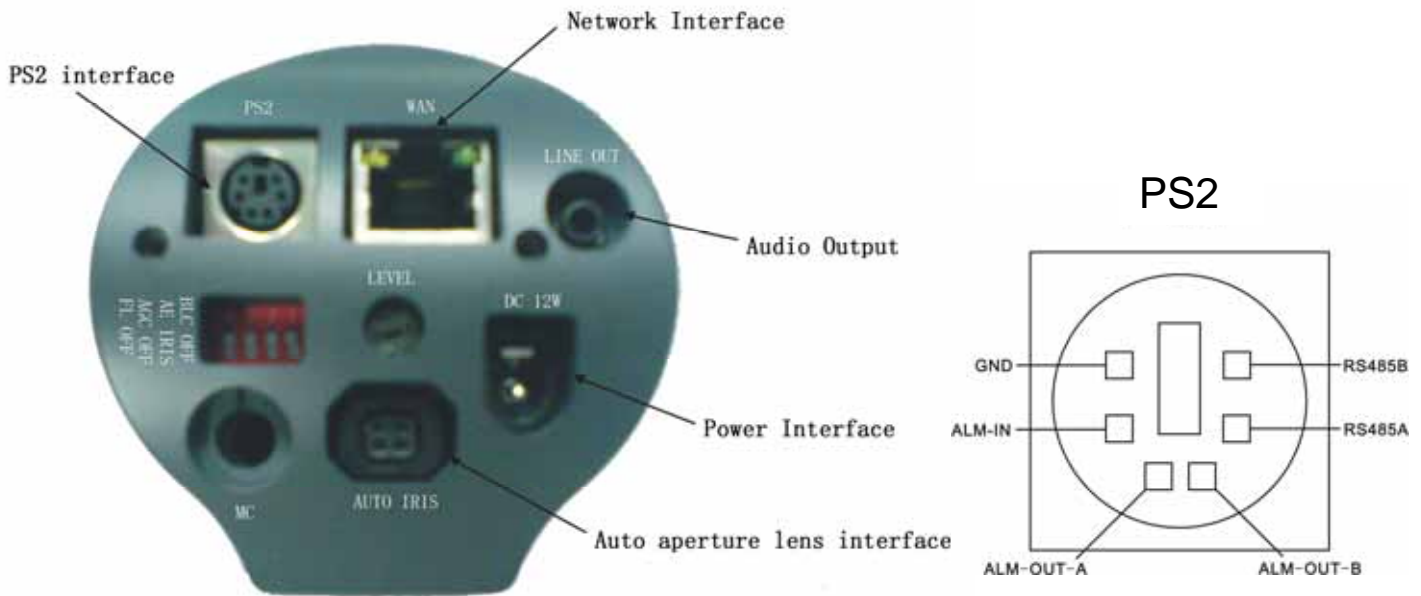
Network self-adapting technology to adjust video frame rate automatically according to the network bandwidth

Permit multi-user simultaneously visit, multilevel user password management

Support HTTP, TCP/IP, SMTP and others network protocols.

Apply to homes, offices and public places monitor, or only for leisure and entertainment venues monitor

1.2 Product Interface



Network: Network interface

Power: Power interface

PS2: Use for alarm

2 Installation Guide

2.1 System requirement

Operating System: Windows 2000/XP

Processor: Intel Pentium III, 1G or Higher (Pentium IV, 2G or Higher recommended)

RAM: 256 MB or more

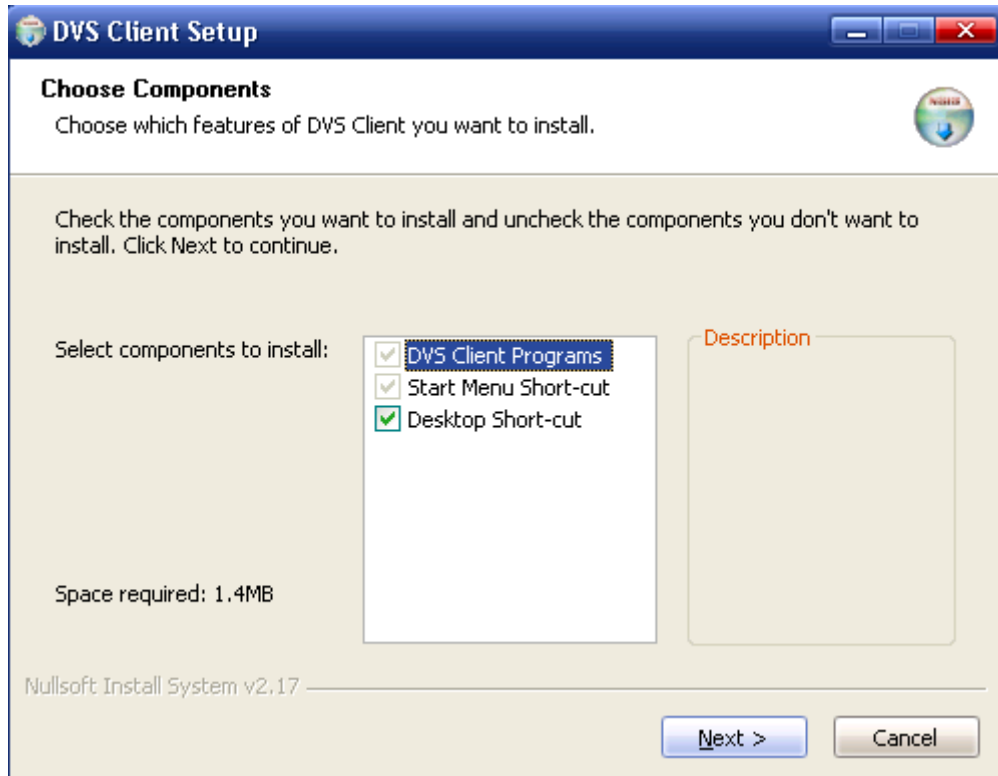
Color Monitor: At least DirectX 8.1 or higher and 32M Display storage

2.2 Software installation

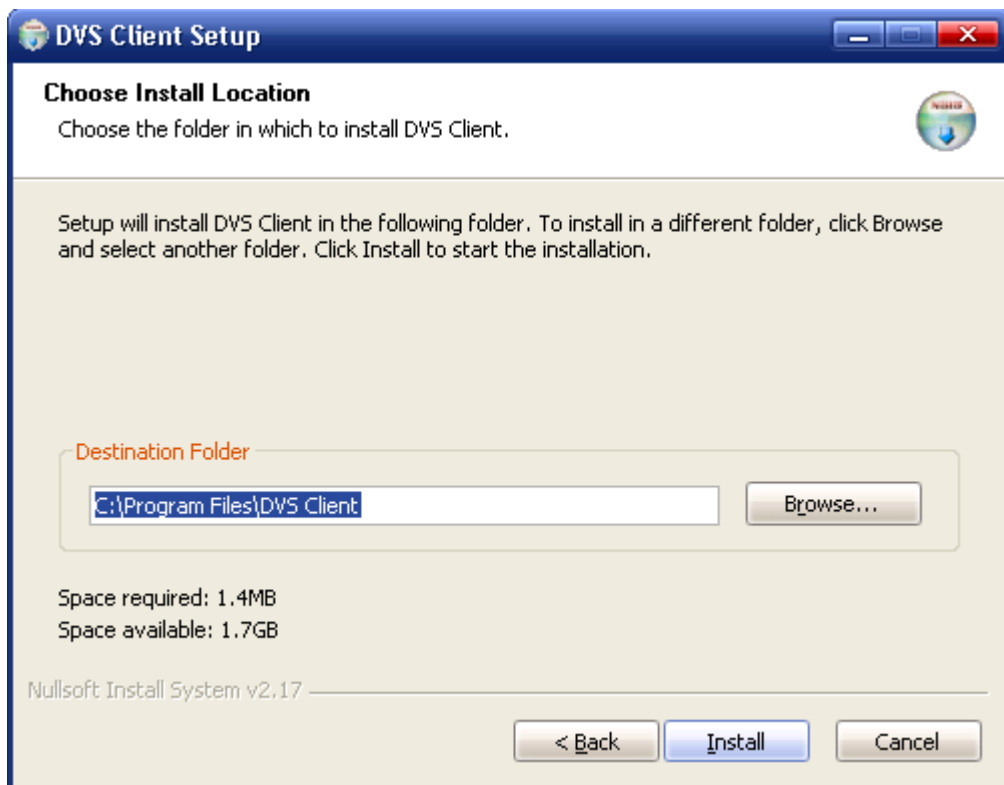
Run the client software DVS_Client_Setup.exe, the window below will pop up:



Select English, and click OK

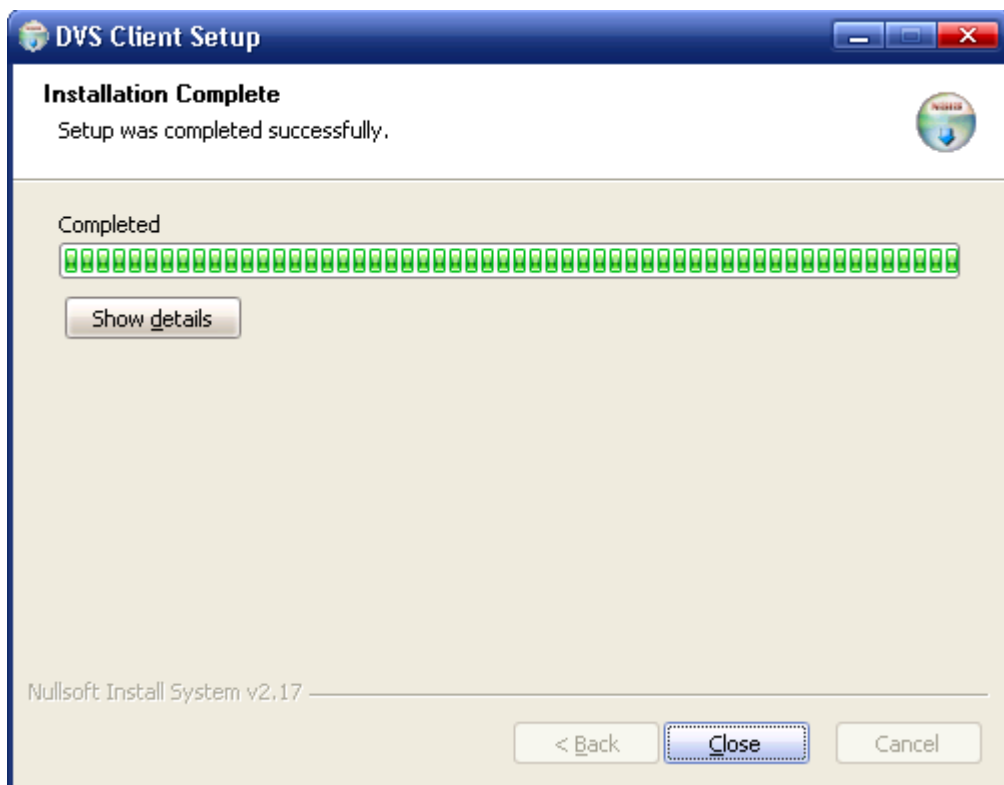


Click [Next], the window below will pop up:



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

The below window will pop up:



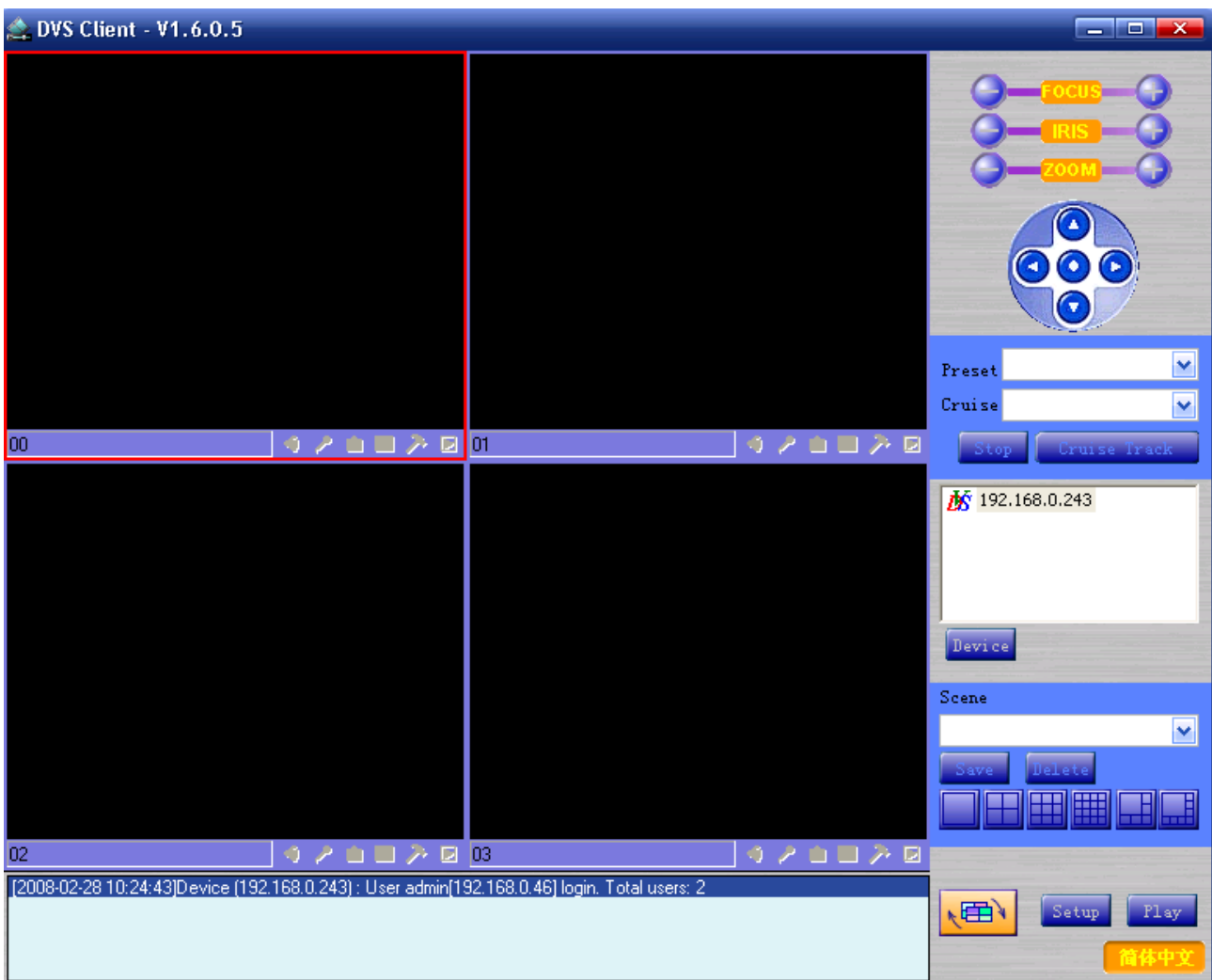
Then the setup is completed successfully.

3. Instructions

You can select either mode to review the images, web browser or client software.

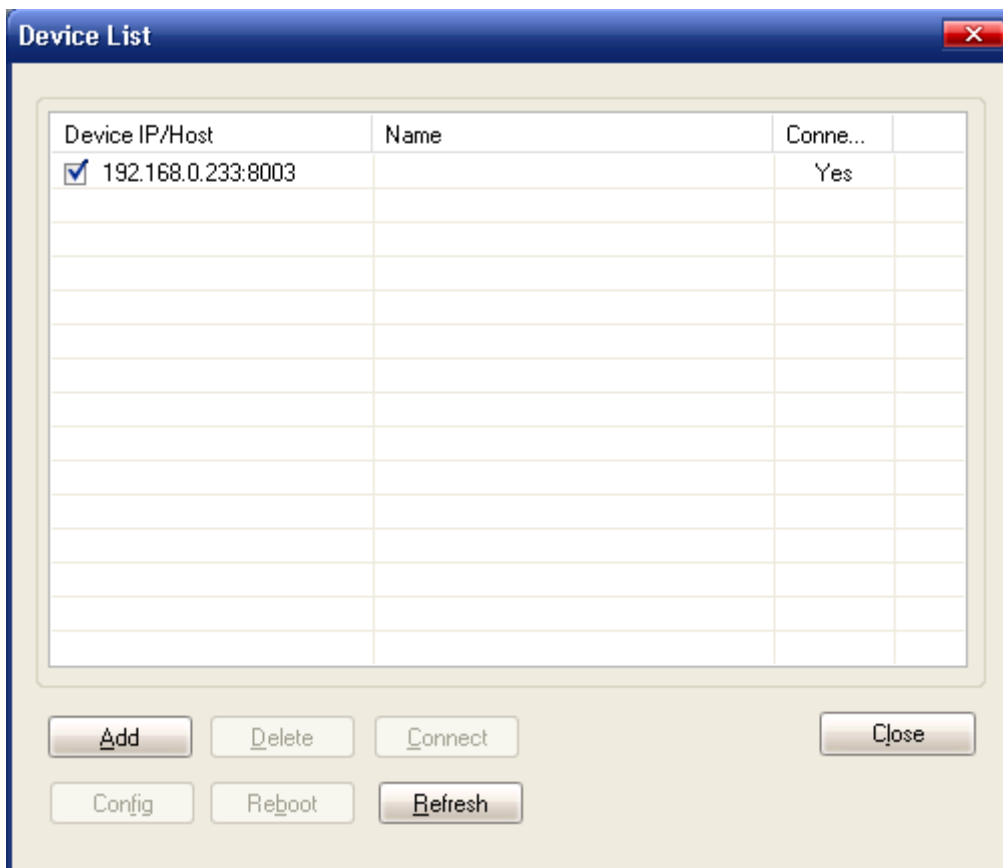
3.1 Client Mode

Run DVS Client, it will appear:



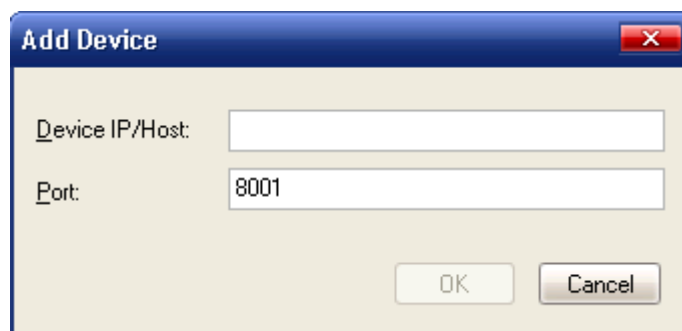
When the client is used the first time, user needs to input the IP address or domain name to the client in order to open the monitor screen, the steps are as follows:

Click [Device] on the right side, pop following dialog:



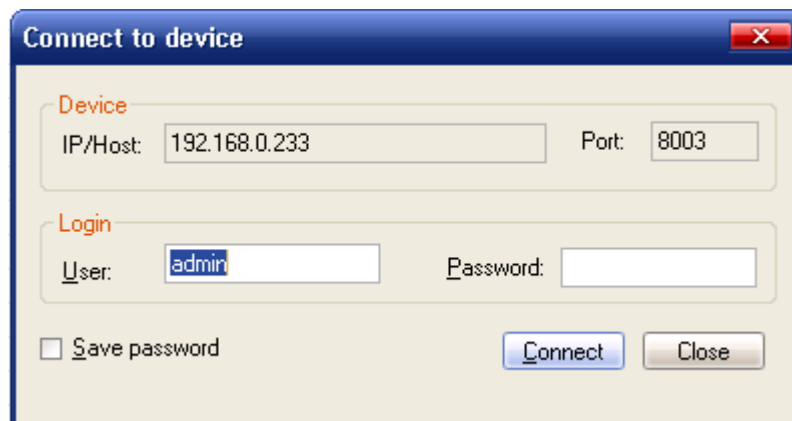
devices IP/Host have been automatic searched.

Click[Add] , pop following dialog:

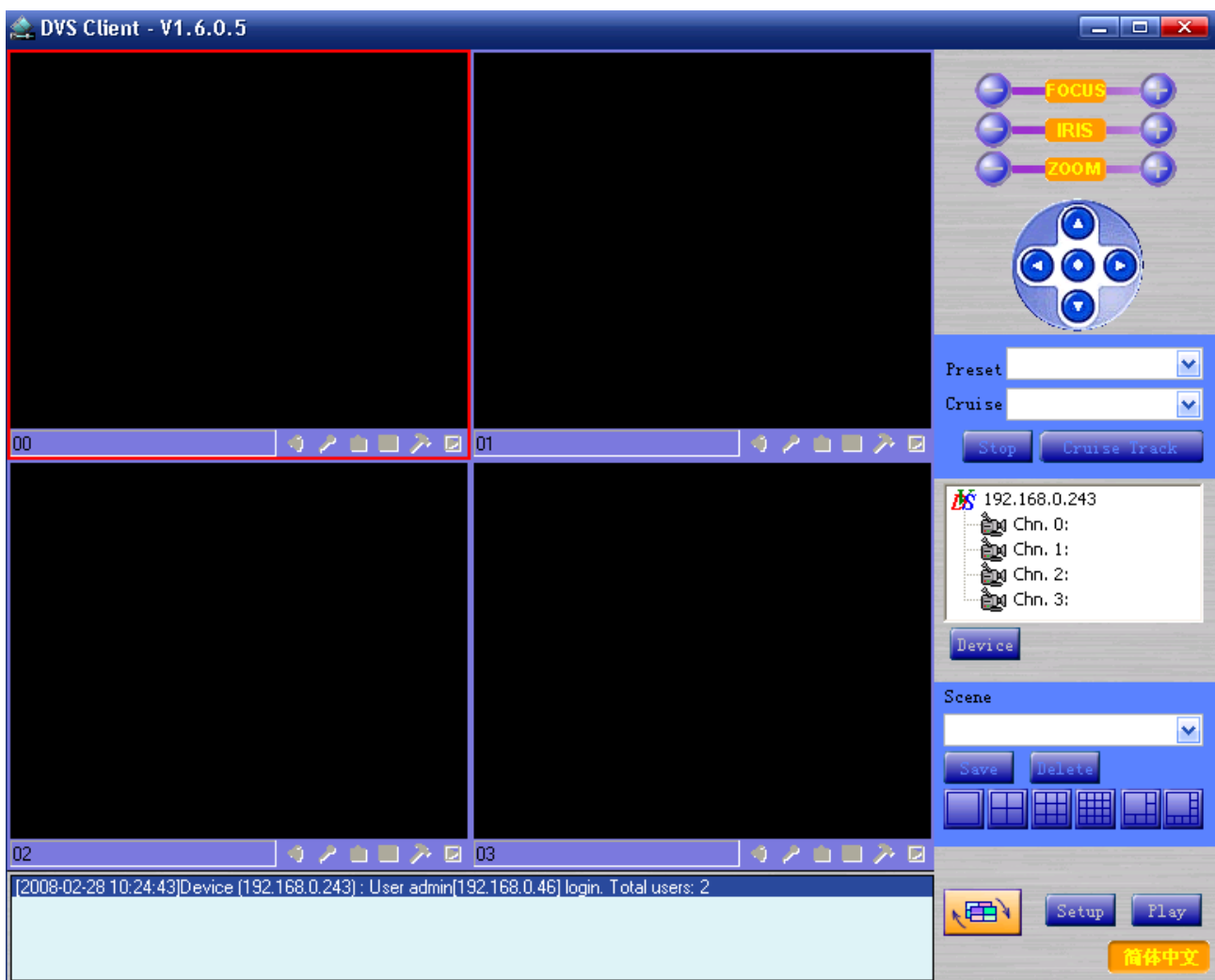


You can input the assigned IP and click [OK]

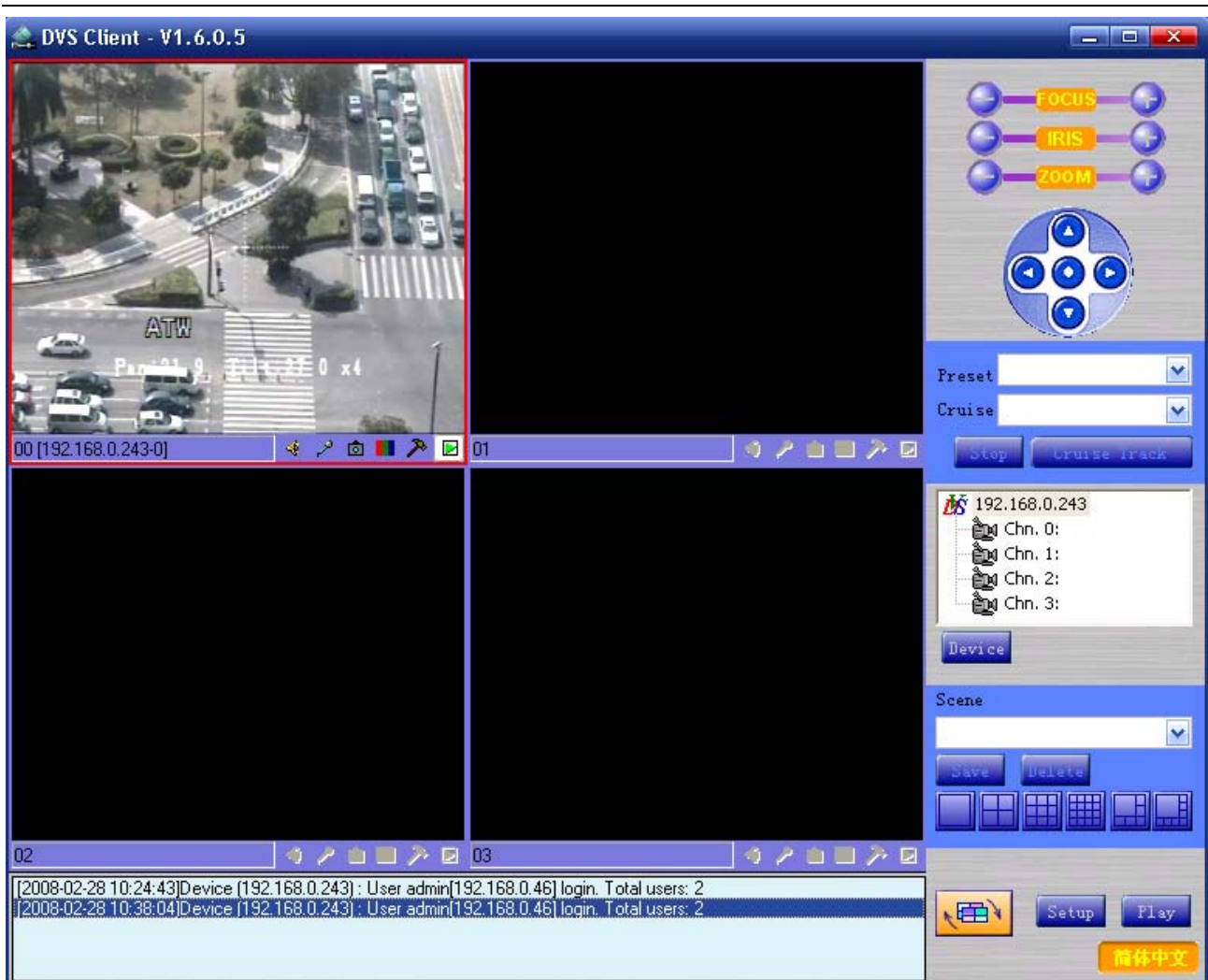
Select the IP address that you want and click [Connect],the window below will pop up:



Input the correct username and password (the default both are admin), and click [Connect],the window below will pop up:



select “chn. 0 ” press and left click and drag it to any window, as follow:



So far, the client is properly working.

3.2 The main interface function

3.2.1 Toolbar



Followed by sound, talk, record, color, setup, play/stop.

Sound: Click it to turn on/off the volume.

Talk: Click it to turn on/off the talk.

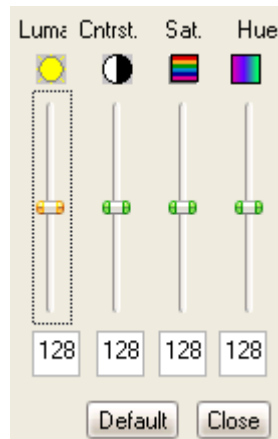
Record: Click once to start a record, click one more to stop record. When the

below window appear:



Click **Setup** button to set the path, and you can click **Play** to replay the record.

Color: Adjust the color of current channel

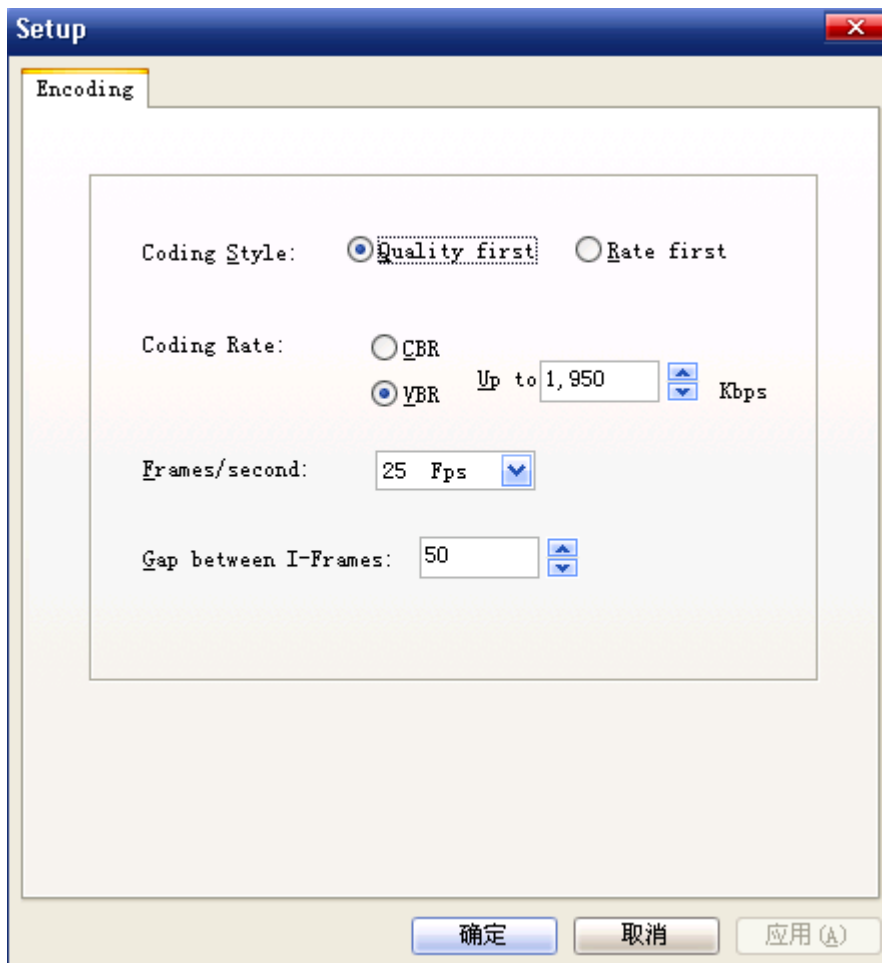


Include brightness, contrast, saturation and hue. Range form 0 to 255, the default value is 128.

Setup: Encoding, OSD, Shelter, motion detection can be set up.

Play/stop: Click to switch between play and stop.

3.2.1.1 Encoding



You can setup Coding Style, Coding Rate, Frames/second, Gap between I-Frames.

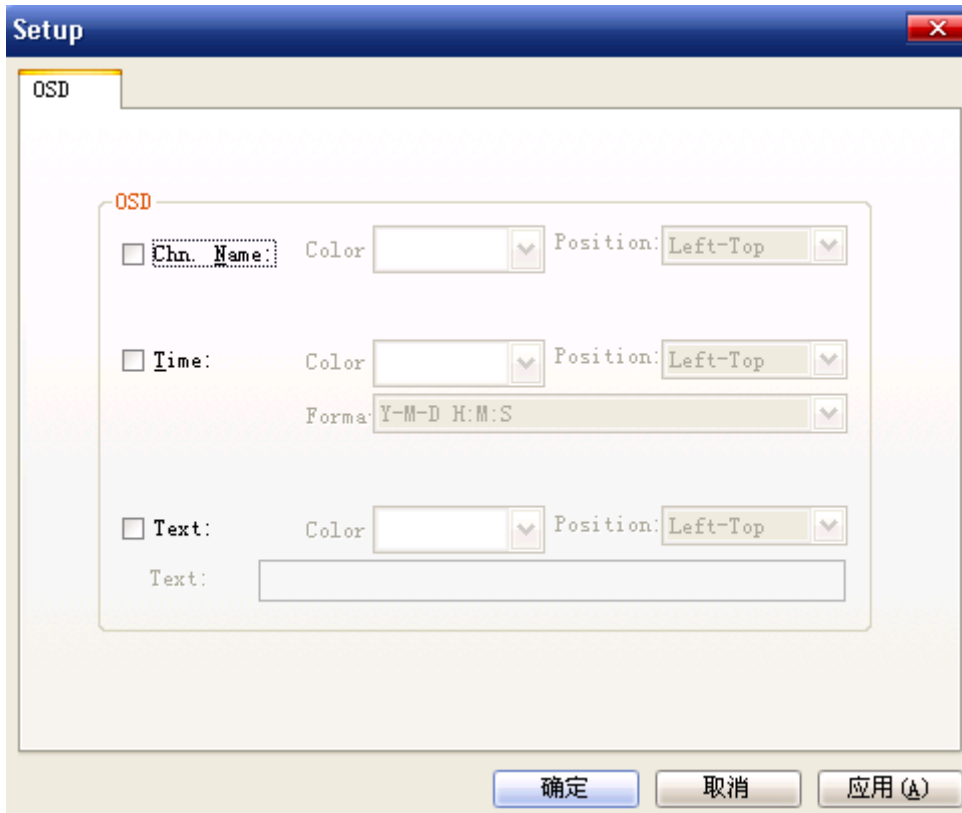
[Coding Style] Select Quality first or Rate first

[Coding Rate] Select CBR or VBR, CBR is more stability, but it is poor quality when mass data flow is transmitting. It is more suitable for fixed-bandwidth transmission. VBR mode relates with the image complexity and data flow, suitable for storage.

[Frames/second] Transfer frames one second, range from 1 to 25, the default is 4 Fps

[Gap between I-Frames] From 100 Frames there is 1 I-Frames, the default is 50

3.2.1.2 OSD



OSD (On Screen Display) is use to setup channel information, time, color, and display position.

3.2.1.3 Shelter

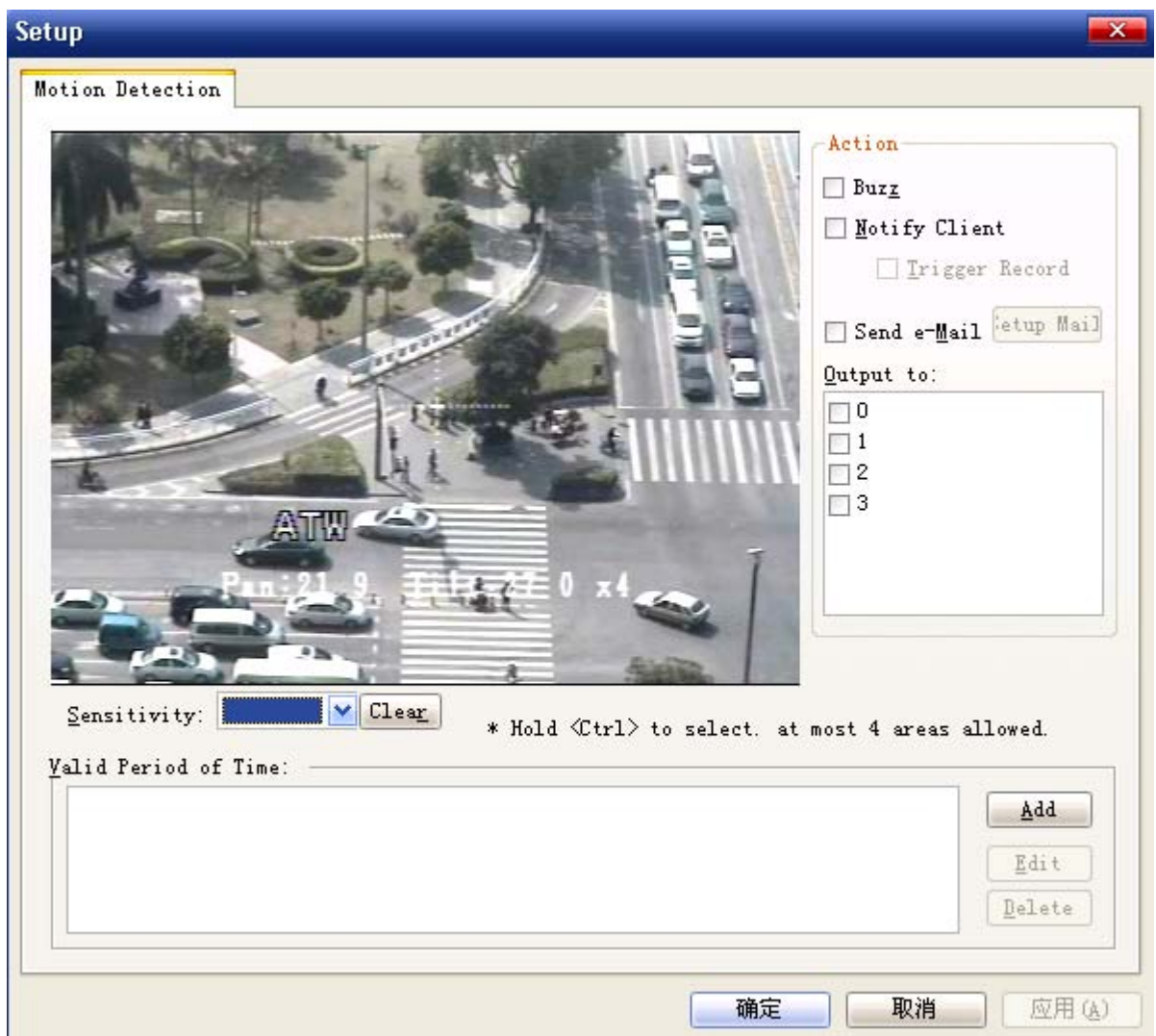


Here you can shelter some area in accordance with the actual situation. Press [Ctrl] and move mouse, click [Clear] to remove what have been sheltered.



3.2.1.4 Motion Detection

Hold [Ctrl] to select, at most 4 areas.



[Sensitivity] The lower setup value, the higher sensitivity

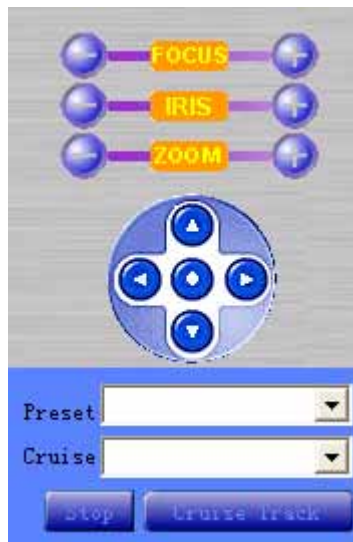
[Valid Period of Time] Setup working time

[Action] 3 option for alarm: Buzz, Notify Client or send e-mail

[Output to] Show detection image to another channel except current channel

3.2.2 PTZ

Here introduce Pan/Tilt Setup.



FOCUS: To control lens focus

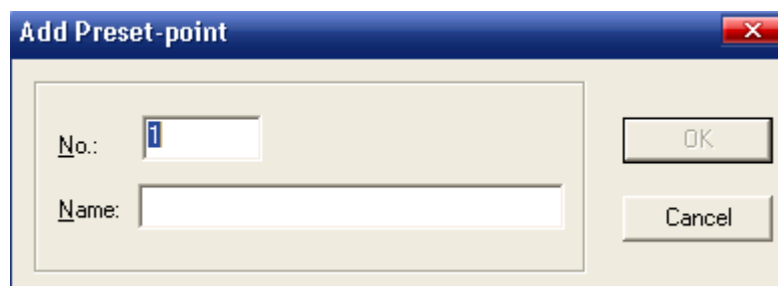
IRIS: To control aperture

ZOOM: To control lens zoom

Press to control lens up, down, left, and right.

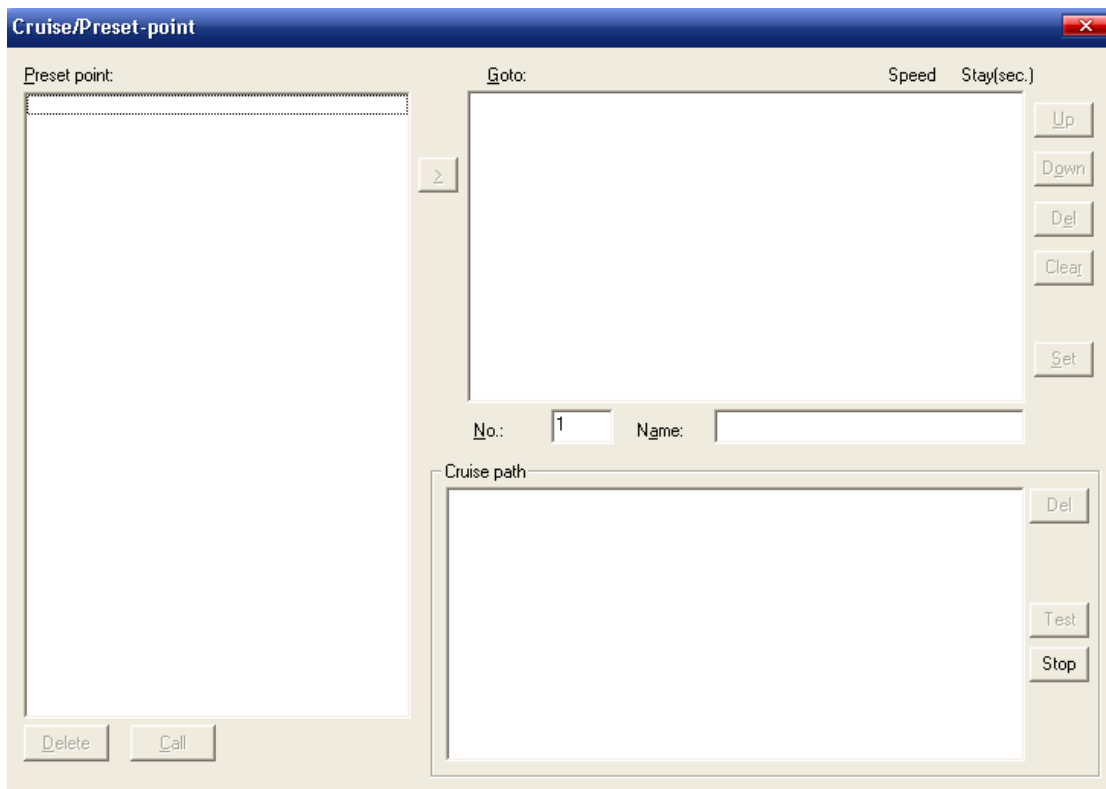
[Preset] Select a preset number from the list box, the camera will move to the Pan/Tilt position of the selected preset number.

On the monitoring image, right click and select [Set current view as a Preset-point], will pop:

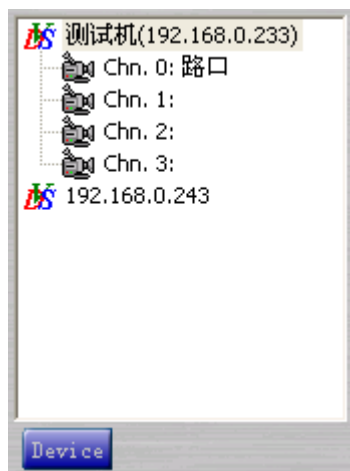


[Cruise] Click [Cruise Track] to set cruise track, select track from the list box. Click [Stop] to stop cruise.

Click [Cruise Track], will pop:



3.2.3 Device list



Show some information of server name, domain, and channel name. Click [Device] to add device.

3.2.4 Adjusting the layout window

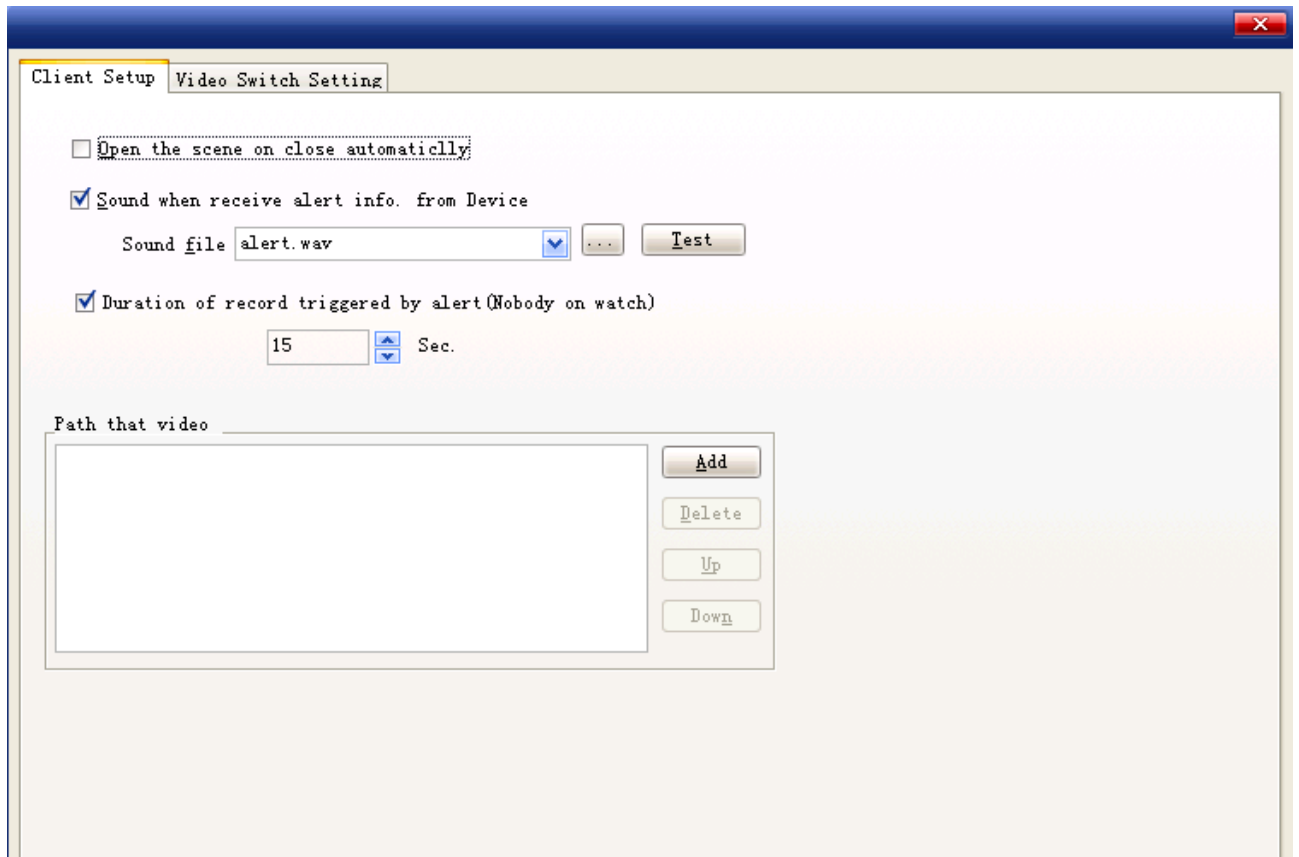


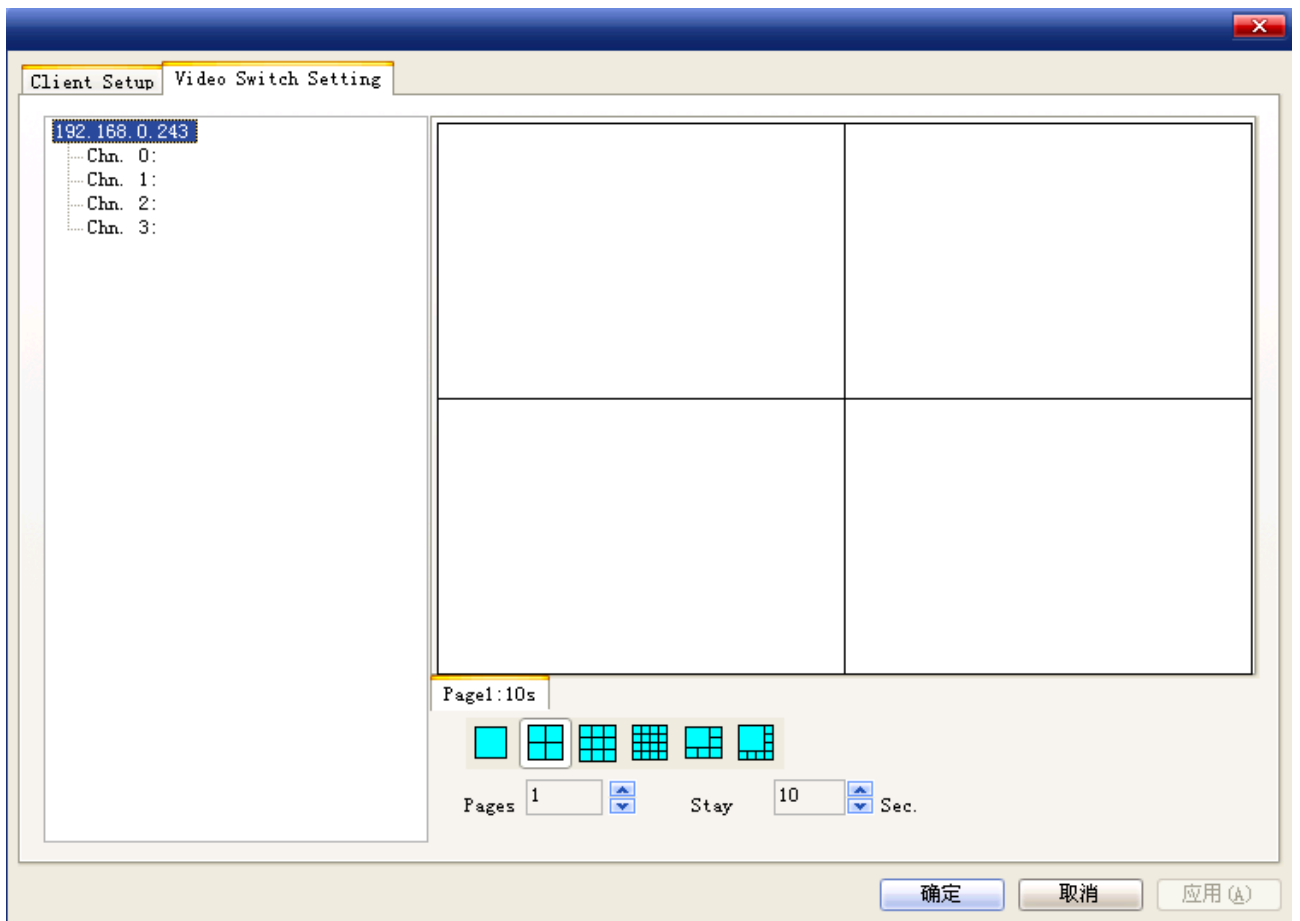
Select window style you want. Click [Save] can save the window style.

3.2.5 Path and Replay

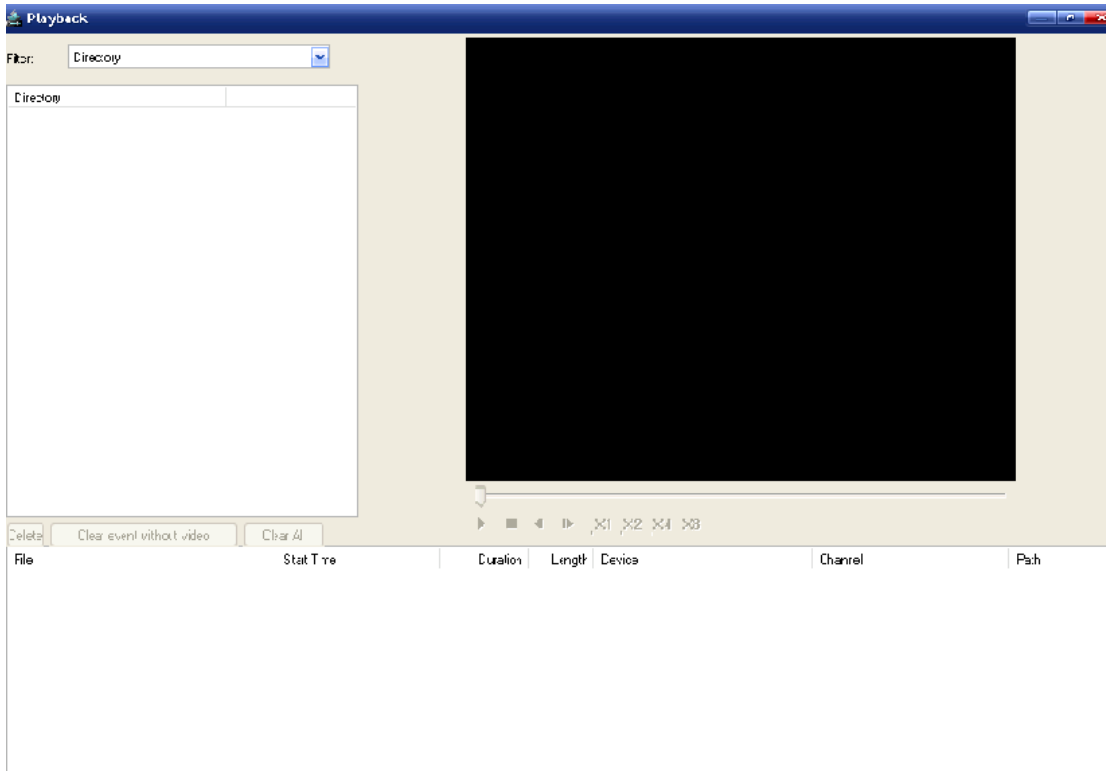


Click **Setup**, the window below will pop up:





Click **Play** the window below will pop up:



3.3 Device Property

Right click device and select property, the window below will pop up:

3.3.1 Address

Product default IP is 192.168.0.233, Sub-net Mast is 255.255.255.0, Default Gateway is 192.168.0.1, and you can modify this to what you want in accordance with the actual situation.

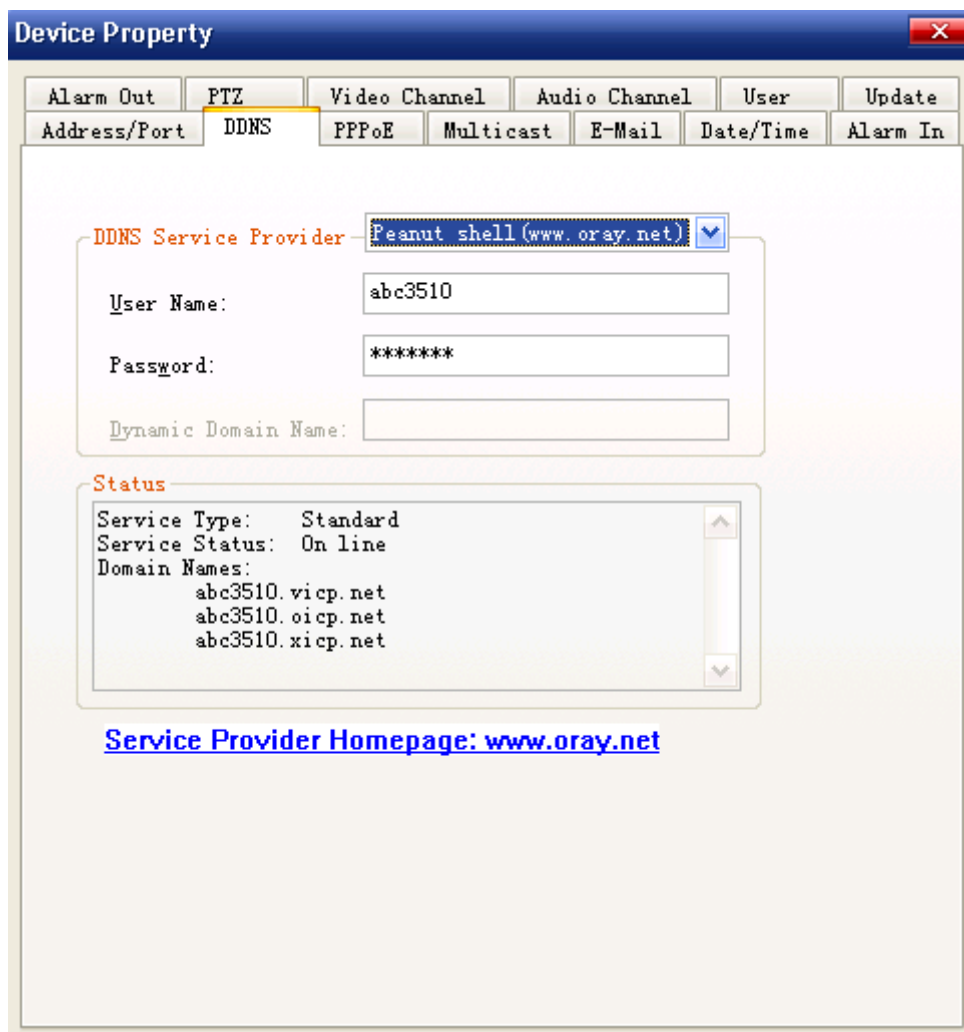
Notes:

- 1: If change IP, must restart device, click [Restart device].
- 2: If there are several devices on the same LAN, must change IP and Physical Address of same of devices.
- 3: If the main port and http beyond the scope, setup as default value 8001 and

80.

3.3.2 DDNS

Dynamic DNS is simply a way of attaching a static hostname to a dynamic IP address. It is easy and convenient to find your DVS by the static hostname instead of a dynamic IP address.



[DDNS Service Provider] Support www.oray.net or www.3322.org

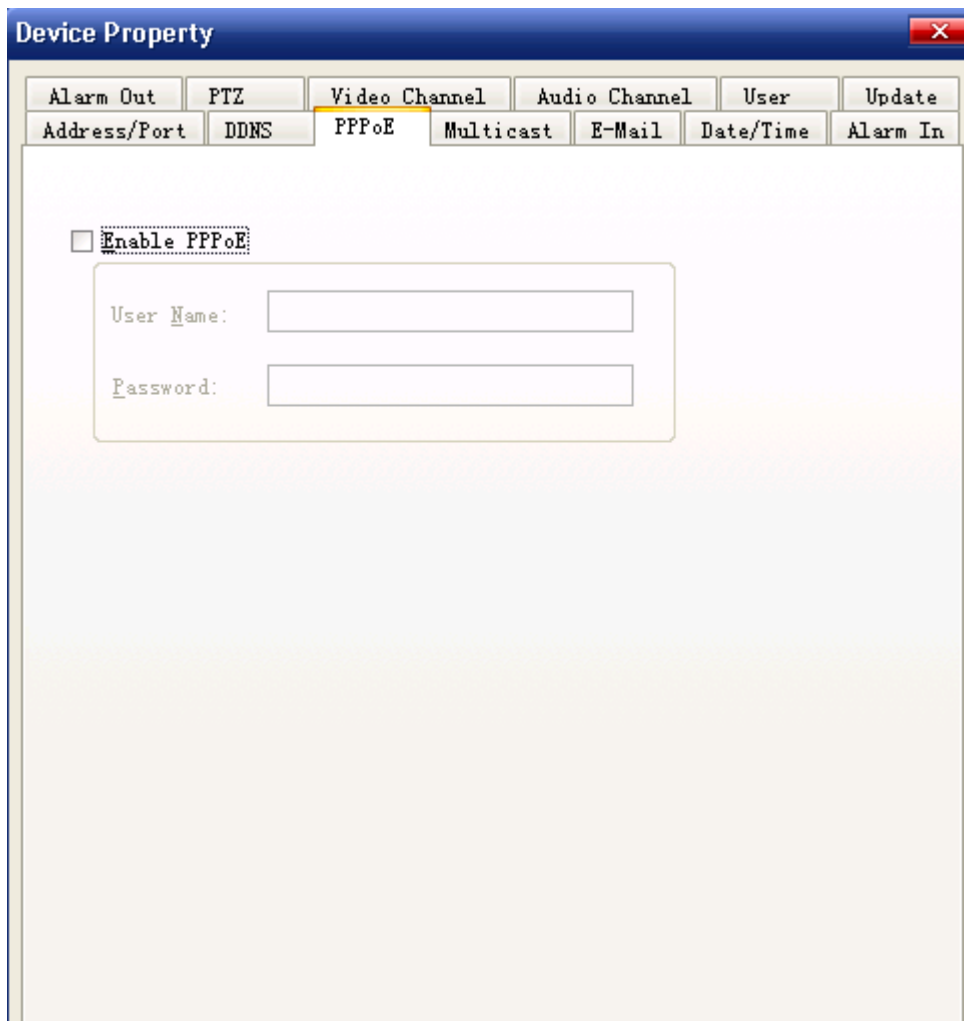
[User name] Enter the user name you have obtain form www.oray.net or www.3322.org

[Password] Enter the user name's password

[DNS Host/IP] DNS Service, for 3322 use.

3.3.3 PPPoE

Some XDSL services use PPPoE (Point-to-Point Protocol over Ethernet)



The screenshot shows a window titled "Device Property" with a blue header and a red close button. The window contains a tabbed interface with the following tabs: Alarm Out, PTZ, Video Channel (selected), Audio Channel, User, Update, Address/Port, DDNS, PPPoE, Multicast, E-Mail, Date/Time, and Alarm In. The PPPoE tab is active, displaying a checkbox labeled "Enable PPPoE" which is currently unchecked. Below the checkbox is a form with two input fields: "User Name:" and "Password:".

[Enable PPPoE] Enable or disable PPPoE connection

[User name] Enter a user name

[Password] Enter a password

Then click OK to confirm your settings.

3.3.4 Multicast

The screenshot shows a 'Device Property' window with a tabbed interface. The 'Multicast' tab is selected. The 'Multicast Port' is set to 6101 and the 'Multicast Address' is set to 239.255.255.1. Below the input fields, there are three numbered instructions regarding valid multicast addresses, port allocation, and overlapping settings.

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

Multicast Port:

Multicast Address:

1. Valid multicast address is from 224.0.0.3 to 239.255.255.255
2. Starting at the specific port, Device allocate one port for each code-stream.

For example, if the multicast port is set to 7000, a DVS with 4 Video-in(Single code-stream) and 4 Audio-in(Single code-stream) uses a port range from 7000 to 7007.
3. The Address:Port-Range setting can't not overlapped with other devices.

[Multicast Port] Default is 6101

[Multicast Address] Default is 239.255.255.1

3.3.5 E-Mail

When IP changes or motion detection triggers, it will send an e-mail to receiver, to report IP changes or Image Transfer.

The screenshot shows a window titled "Device Property" with a tabbed interface. The "E-Mail" tab is selected. The "Enable SMTP Setting" checkbox is unchecked. Below it are several input fields: "SMTP Server:", "SMTP Port:" (with the value "25"), "Sender's Account:", "User Account:", "Password:", and "Receiver's Account:". A "Send A Test Mail" button is located at the bottom of the form area.

[Enable SMTP Notification] Enable or disable SMTP notification

[Main Mail Server] Enter the name or IP address of the SMTP server you want to use for sending an e-mail

[SMTP Port] The default value is 0

[Sender's Account] Set the sender's e-mail address

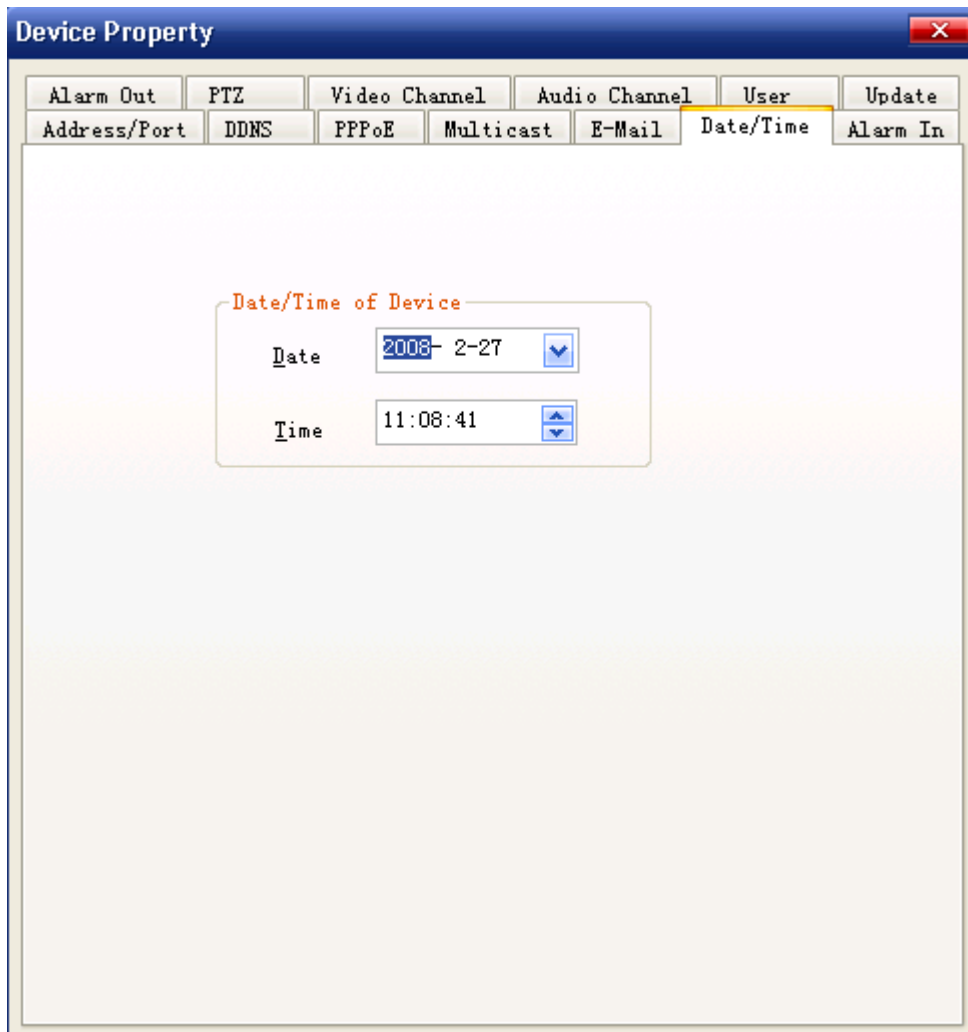
[User Account] Set the user's e-mail. This setting is necessary to validate the SMTP server.

[Password] Enter user's password

[Receiver's Account] Set the receiver's e-mail address

3.3.6 Date/Time

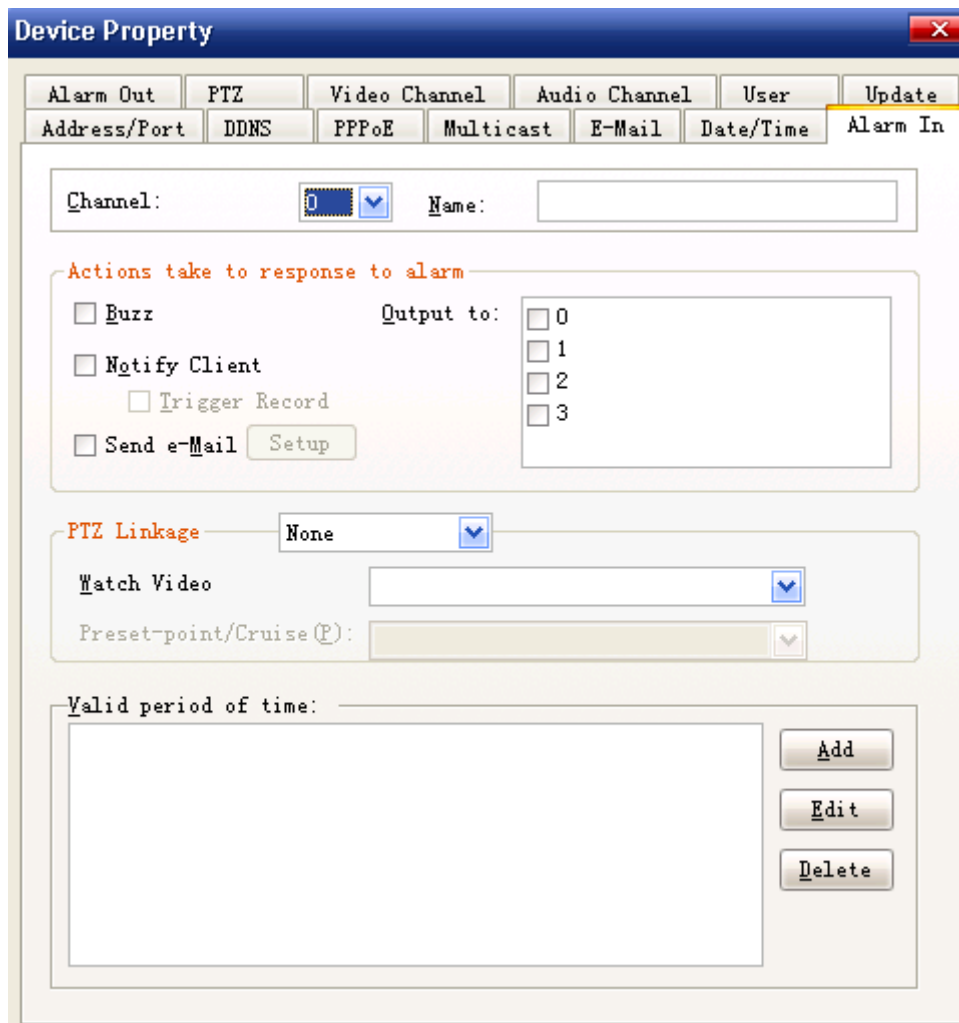
User can modify Date and Time, and no need to restart machine after modification, but need to re-connect.



[Date] Date

[Time] Time

3.3.7 Alarm In



[Channel] Select the input channel, and setup up corresponding name.

[Actions take to response to alarm] Three options to select: Buzz, Notify Client or e-mail.

[Output to] Select corresponding output channel.

[PTZ Linkage] Three modes to select: No Linkage, Preset Point or Cruise mode.

[Valid period of time] Setup valid period of time for alarm input.

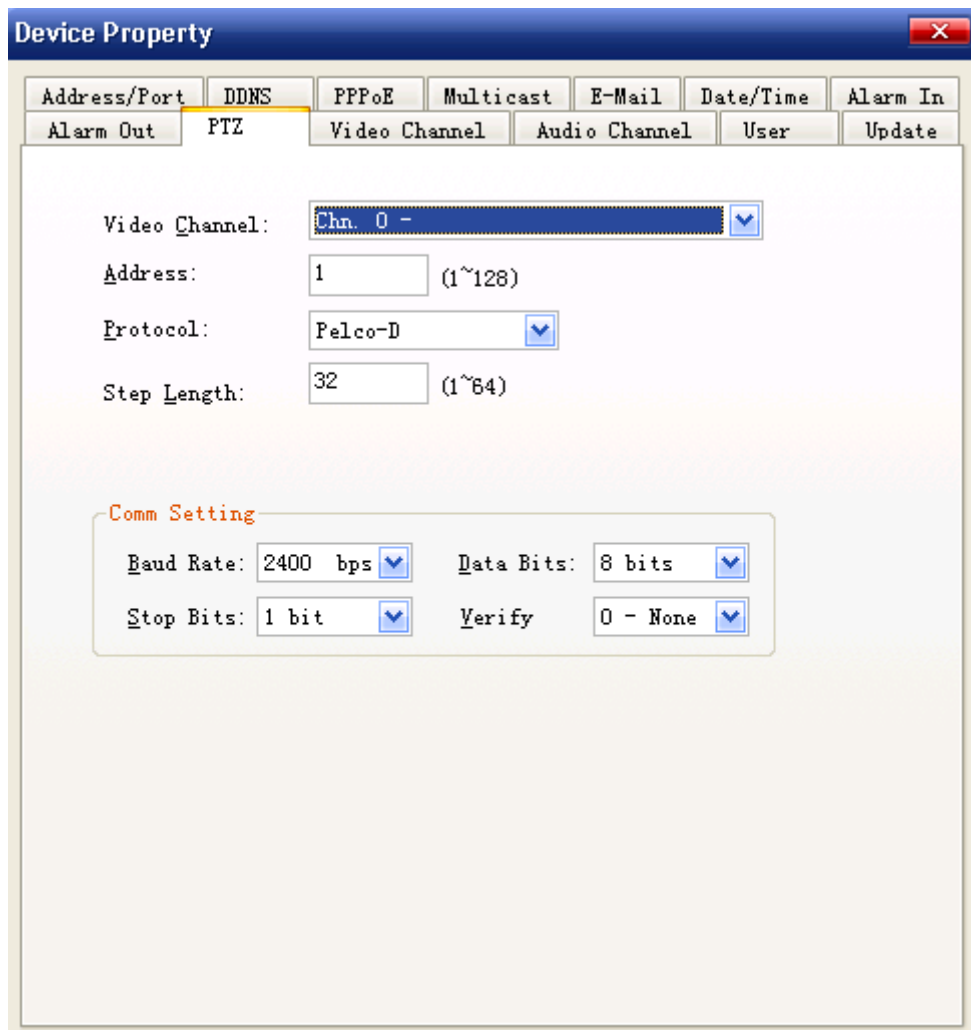
3.3.8 Alarm Out



[Channel] Select certain output channel, and setup up corresponding name.

[Valid period of time] Setup valid alarm output time. "+" in front indicate valid time, "-" indicate except that time period.

3.3.9 PTZ



[Video Channel] Select certain video channel

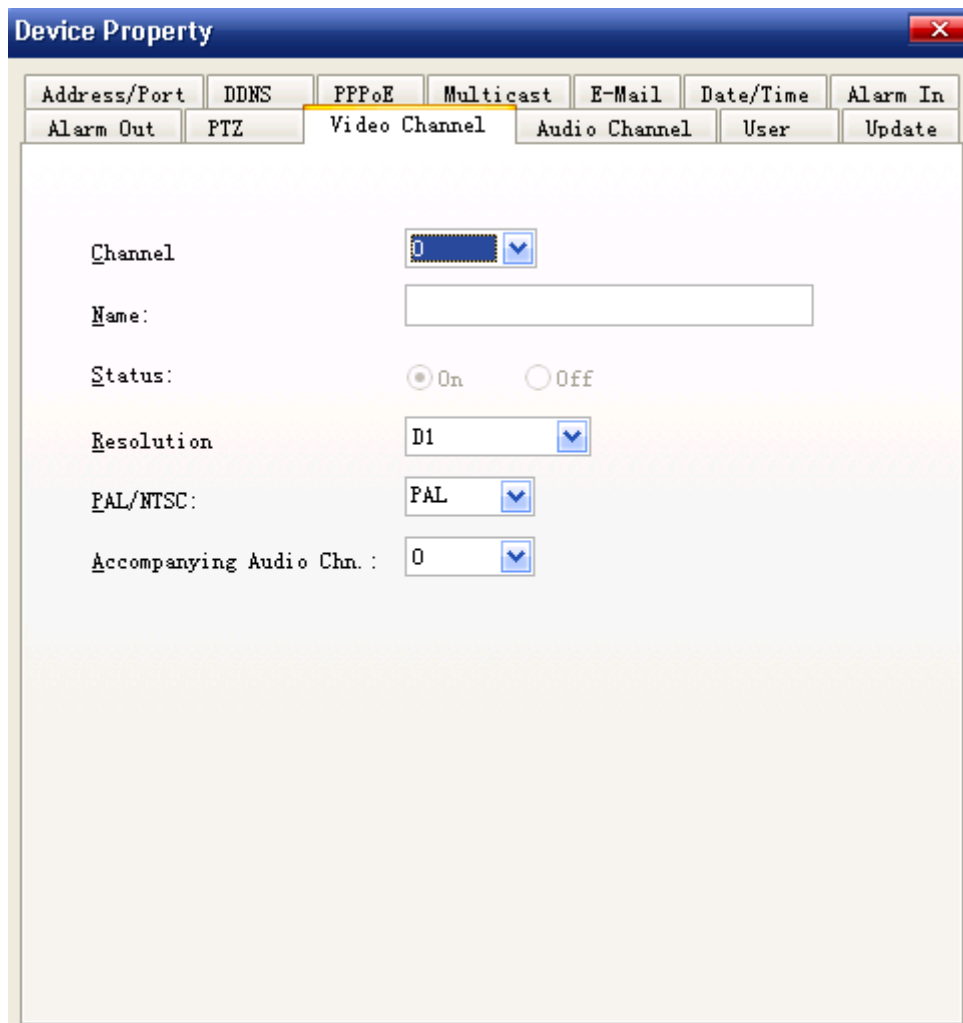
[Address] Set the address gear to the Protocol

[Protocol] Support Palco-D and Palco-P, the default is Palco-D

[Step Length] Unit length of lens moving when clicking on Pan/Tilt button

[Comm Setting] Setup Baud Rate, Date Bits, Stop Bits, verify accordance with the actual situation

3.3.10 Video Channel



[Channel] Select the channel to be adjusted

[Name] Enter corresponding channel name

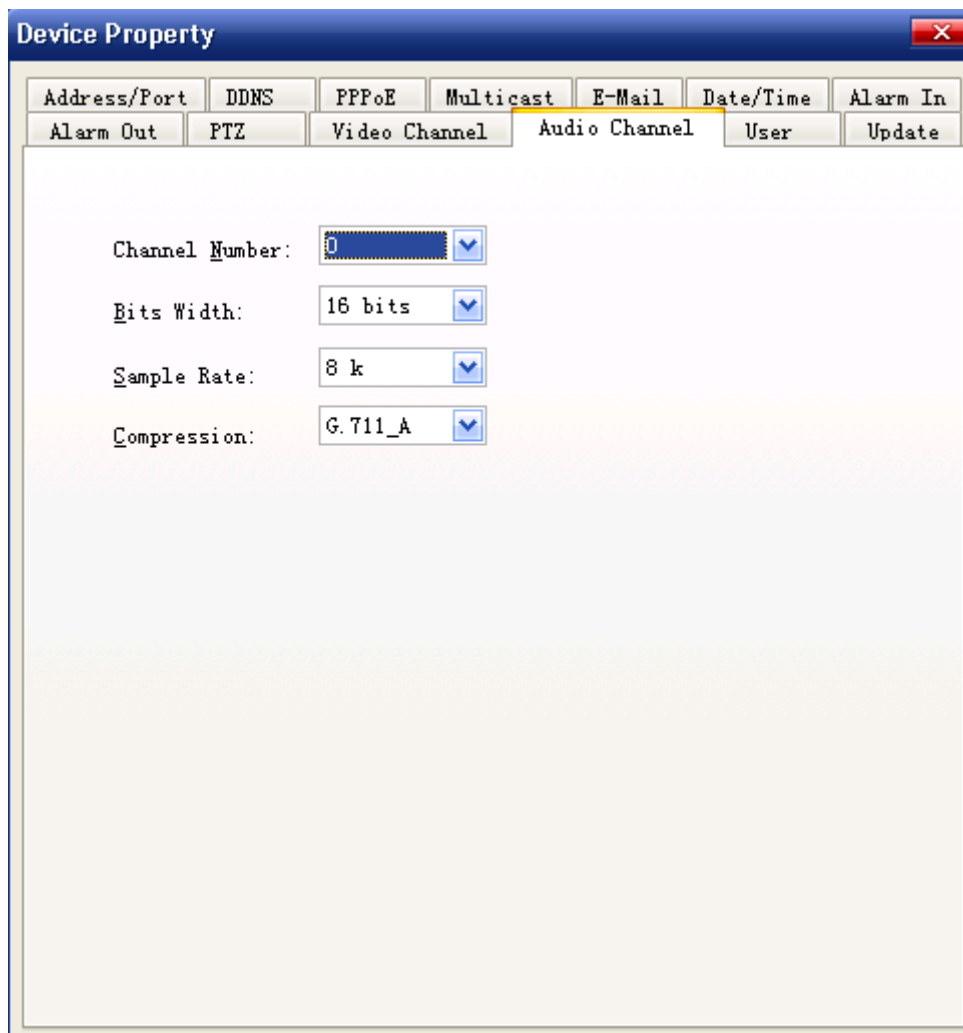
[Status] Select On or Off

[Resolution] Only support D1 or 0

[PAL/NTSC] Select PAL or NTSC

[Accompanying Audio Chn] Select corresponding audio channel

3.3.11 Audio Channel



[Channel Number] Select the channel to be adjusted

[Bits Width] Select 8 bits, 16 bits or 32 bits, default is 16 bits

[Sample Rate] Determine sound effect, the higher Sample Rate, the better sound effect

[Compression] Select different compression mode

3.3.12 User

User management is use to add, delete or modify user name and password, and

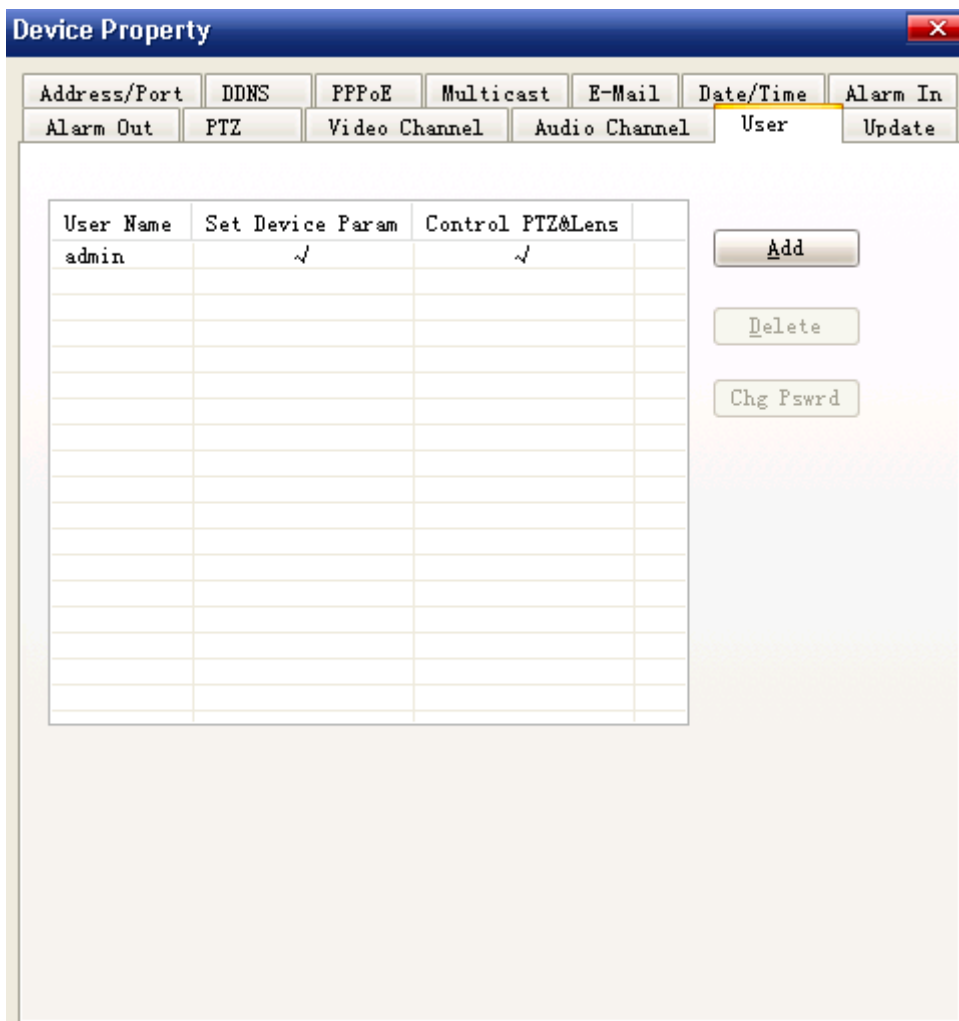
set up corresponding authority. User name can only be English character or number, Chinese is no supported, maximum length of user name or password is 10 characters.

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

Administrator: Authorized to setup device and manage user. The default administrator id is Admin, password is Admin, the id is no allowed to delete. User should modify Admin password immediately after using the device.



3.3.13 Update

User can download the latest version form Internet or Technical Support Site.

And the upgrade can be finished locally or through Long-distance remote control.



[Current] Display current firmware version of the device

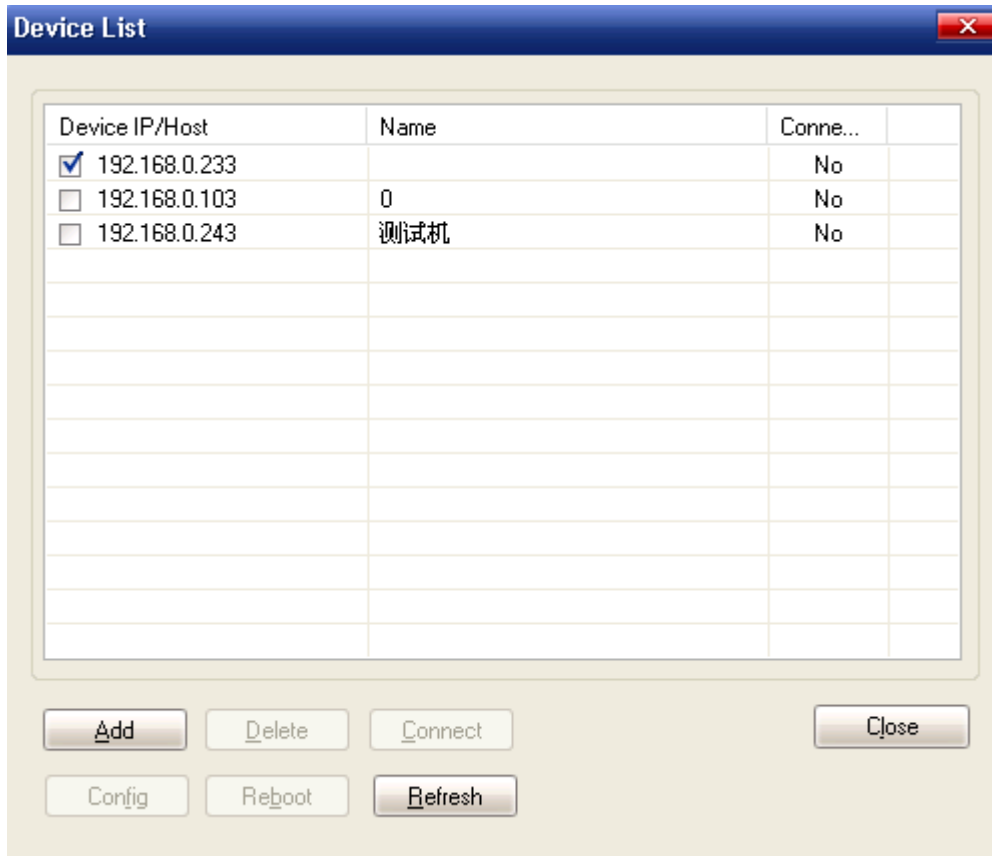
[File to] Click [Open] to search for the latest Firmware downloaded, and than click [Upgrade]. The upgrade procedure will finish automatically. It is important that it will reboot automatically when above steps are finished.

4 Others

4.1 LAN and WAN configuration

4.1.1 LAN automatically search

Run DVS Client, Click [Device], the video server in the local LAN will appear in the device list, for example:



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

If DVS is already powered?

If the device network configuration and PC network configuration are in the same network section? If no, Set the PC IP to 192.168.0.**, because the default device network is 192.168.0.233. Or you can manually add the device, see 4.1.2 section.

If DVS and PC have been normal connected? If yes the light will be long bright or flashing.

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

4.1.2 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, do as the following steps:

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. Company recommends peanut shell provided www.oray.net or 3322 provided www.3322.org . For details, please see 4.2.

Input correct DDNS, please see 3.3.2 for details.

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

Users input domain in the network browser, details see 3.1.1. Or you can run Client, detail see 3.1.2.

By this way, users only need to remember the domain, not need to remember the device's address,

4.2 Application for account

Because many users use a dynamic IP address in the internet. User can use a static hostname instead of a dynamic IP address. In this way, user should first register a domain name and obtain a password. So far, the device supports www.oray.net or www.3322.org , users can login it and register the domain, after doing it, setup the DDNS as 2.3.2 tells.

4.2.1 www.oray.net

Login www.oray.net, follow the notes to register the domain, such as:

Oray护照:

密码安全性:

密码:

确认密码:

密码保护问题: 自定义

系统定义

答案:

电子邮件:

验证码:

Oray用户协议

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[顶级域名过户](#) [域名价格](#)

[域名工具](#)

可用金额: **0元** 红包: **0个** [管理红包](#)

[护照充值](#) [护照间转账](#) [账务明细](#) [索取发票](#)

上次登陆: 2007-07-19 10:03

护照类型: 个人用户

Click【注册域名】

首页 > 域名中心

全球实时注册, 实时生效;
结合花生壳实现动态域名解析和域名管理;
拥有强大的[域名管理系统](#), 免费提供A记录、MX记录、CName、URL转发功能;
无限添加域名的域名记录(子域名)数量;
多种域名增值服务, 域名分享、委托管理、域名交易等;

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[.com](#) [.net](#) [.org](#) [.biz](#) [.info](#) [.name](#)

[.mobi](#) [.travel](#)

已注册 即将到期 未注册

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域名价格查询

输入您要查询价格的域名后

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Click【免费域名】



Click **【查询域名】**

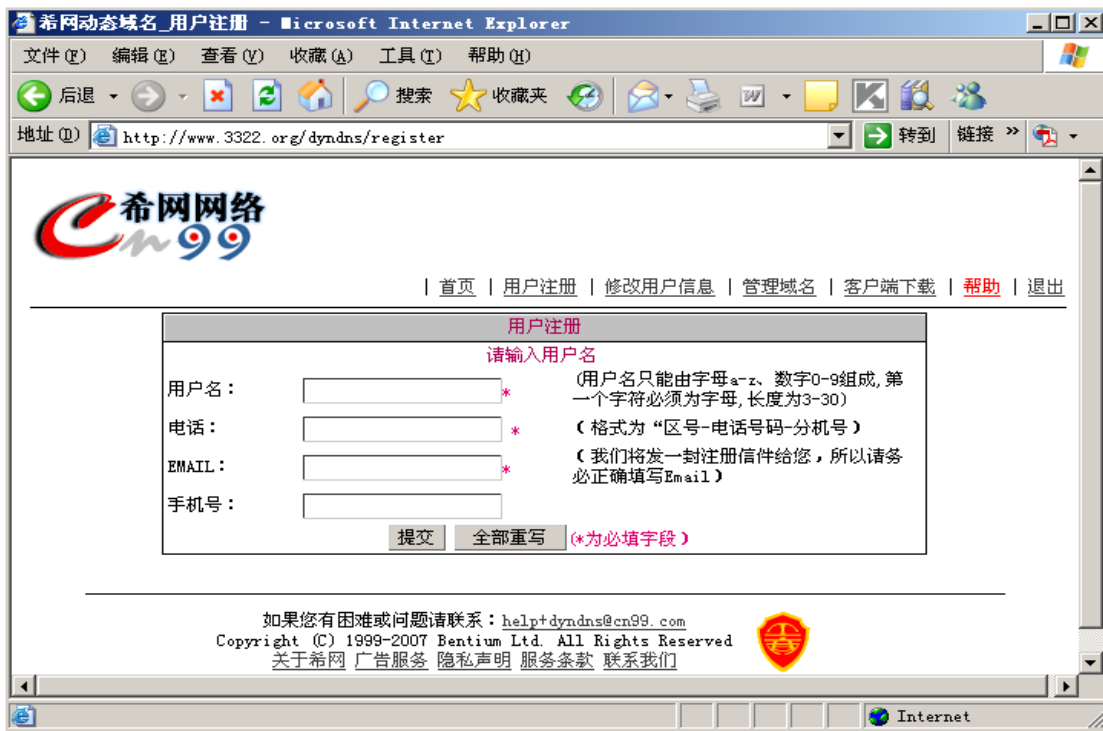


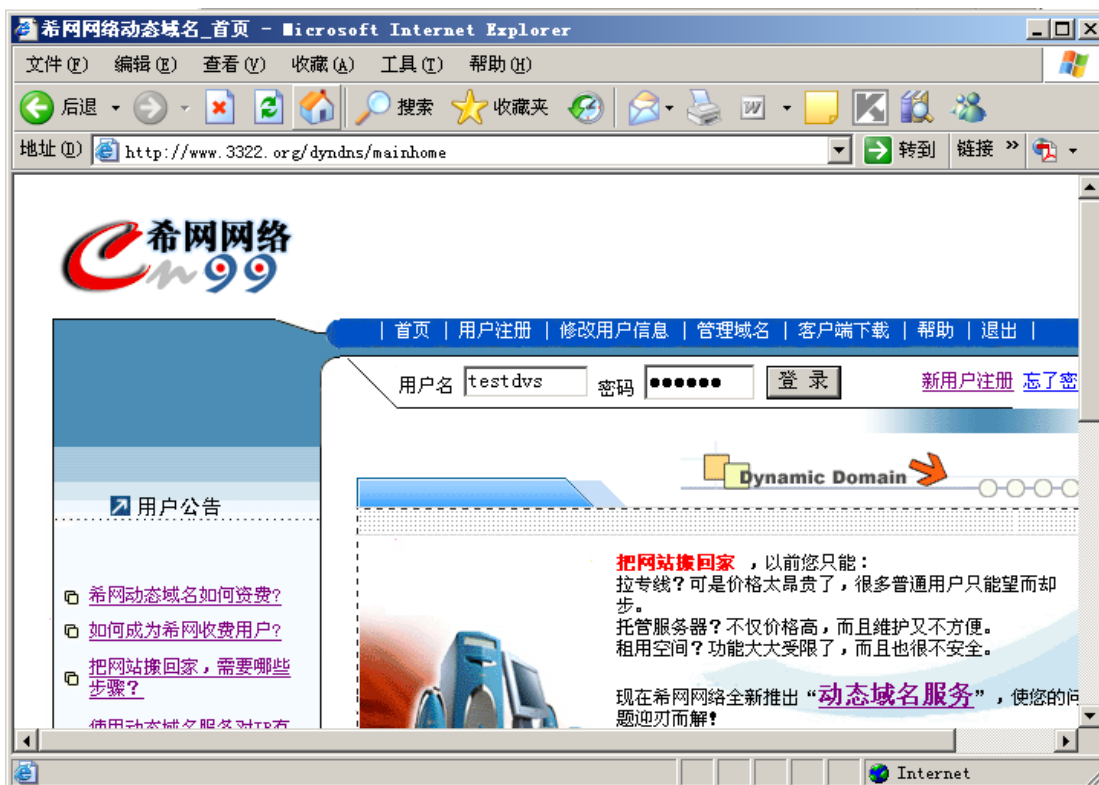
Click **【注册免费域名】**, and then Click **【确定】**



4.2.2 www.3322.org

Login www.3322.org, follow the notes to register the domain, such as:





Click 【管理域名】



Click 【动态域名】 【新建】



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.

For example, Router external IP is 222.125.68.12, LAN IP is 192.168.0.233, port number is 8001.

Open the router, find the port transmitting (or virtual services) page, set as following:

<input checked="" type="checkbox"/>	dvs3510	192.168.0.233	Both 8001/8001
<input checked="" type="checkbox"/>	dvs3510	192.168.0.233	Both 80/80

When users enter <http://222.125.68.12>, router will automatically request and transmit to 192.168.0.233, port is 8001, then the device is connected to PC, users can monitor image from PC.

Notes:

1: When use client software to review the images, must setup port 8001 and use IE to review must setup port 80, so if there are two devices on the same LAN, should setup as follows:

<input checked="" type="checkbox"/>	dvs233	192.168.0.233	Both 80/80	任何时间
<input checked="" type="checkbox"/>	dvs233	192.168.0.233	Both 8001/8001	任何时间
<input checked="" type="checkbox"/>	DVS243	192.168.0.243	Both 8001/8003	任何时间
<input checked="" type="checkbox"/>	DVS243	192.168.0.243	Both 80/83	任何时间

Such as, login dvs243, enter <http://222.125.68.12:83> , when use software, change port 8001 to 8003.

2: When user changes the device's main port, for example, main port is 8005, http is 85, the router should setup as follows:

<input checked="" type="checkbox"/>	dvs233	192.168.0.233	Both 8005/8005	任何时间
<input checked="" type="checkbox"/>	dvs233	192.168.0.233	Both 85/85	任何时间

When logindvs233, enter <http://222.125.68.12:85>

If the router setup as follows:

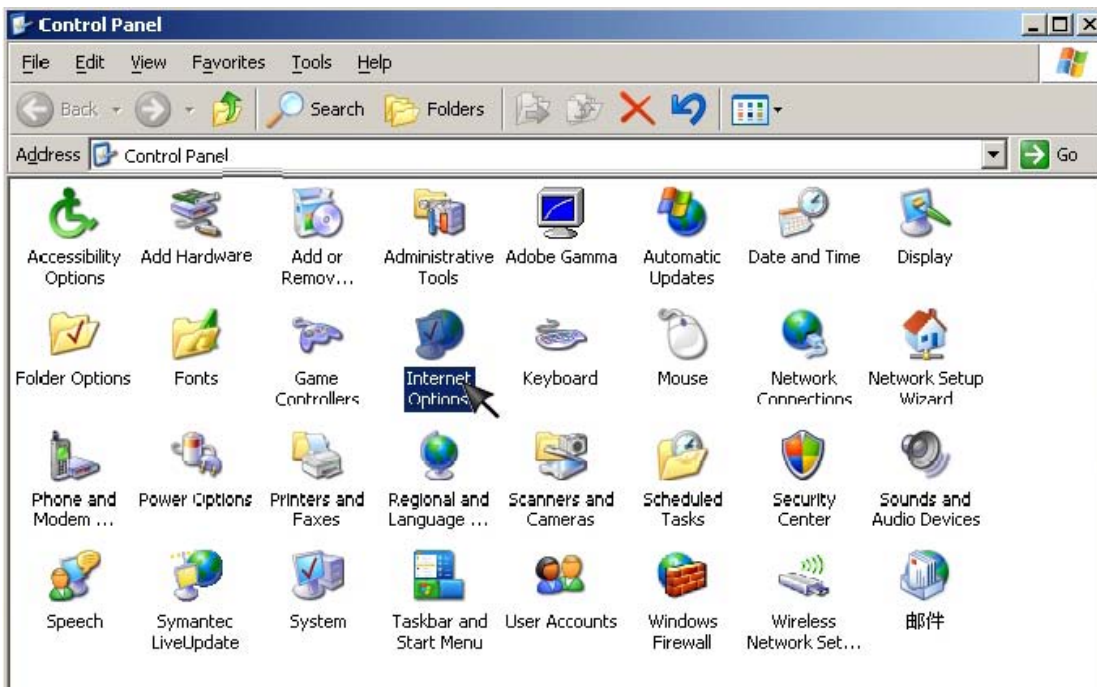
<input checked="" type="checkbox"/>	dvs233	192.168.0.233	Both 8005/8005	任何时间
<input checked="" type="checkbox"/>	dvs233	192.168.0.233	Both 85/86	任何时间

When logindvs233, enter <http://222.125.68.12:86>

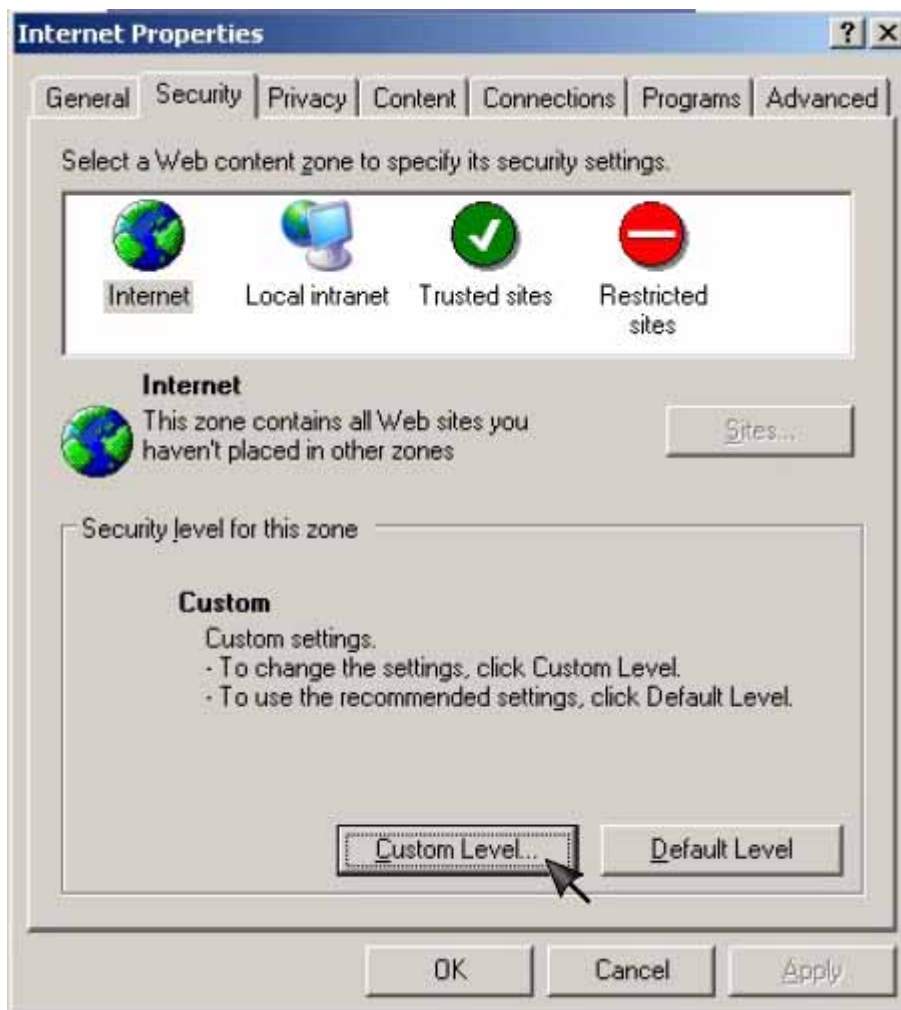
Appendix A IE mode

When use the first time, users need to reset the Internet Explorer safety attribution.

Click [Start]->[Settings]->[Control Panel]->[Internet Options].



Click [Security] ->[Custom Level]



Set the security as the following:

Set “Automatic prompting for ActiveX controls” as Enable.

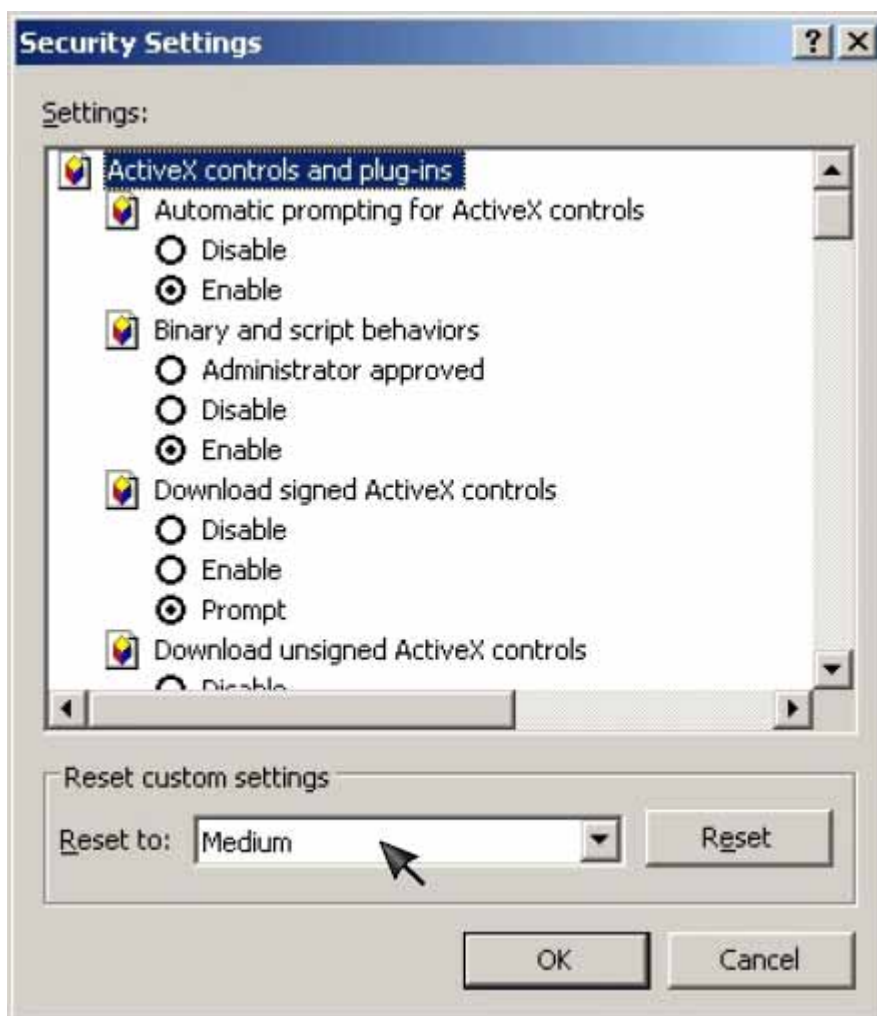
Set “Download signed ActiveX controls” as Enable.

Set “Download unsigned ActiveX controls” as Enable or Prompt. You are recommended to set as Prompt.

Set “Initialize and script ActiveX controls not marked as safe” as Enable or Prompt. You are recommended to set as Prompt.

Set “Run ActiveX controls and plug-ins” as Enable.

Set “Script ActiveX controls marked safe for scripting” as Enable.



Then click OK.

Then input the assigned IP address or domain name on the Web Browser, Take 192.168.0.*** as example, when first time used, will show a warning window, click[OK], slightly later, installation finish and you will see the welcome page:



Input the correct username (the default is admin) and password (the default is admin), and you can select the language (the default is Chinese), Click [OK], you are allowed to enter:



So far the Web Browser is properly working.