

Standard Version Client Software Manual

Product Installation	3
Installation Instruction	3
Hardware Installation	
Connection for Network Video Server	7
Connection for IP camera	7
Check Network Parameters	7
Connect Test	9
Operation Guide for Client Software	15
Login	15
View Control	16
Play/ Stop	16
Manual Record	17
Play Record	18
Settings	19
1>Local Set.....	19
2>Channel Set.....	22
3>Assign IP.....	23
4>Reindex Record.....	24

Basic and advanced Control	25
Snapshot	26
Camera Option	26
1>Video.....	26
2>Audio.....	27
3>Network.....	27
4> OSD.....	28
5>User Management.....	29
6>About.....	29
Statement Display	30
Multi-image switch	30
Show Channel Number	31
OSD	31
Display Time	31
Motion Detection	32
Notice	32

Product Introduction

Thank you for choosing our product. Besides all functions of traditional camera, network camera, as a new product combining traditional camera with network video technologies, has been incorporated with a built-in digital compression controller and WEB-based operating system, which enables transferring the compressed and enciphered data to the end user through LAN, Internet or wireless network. The remote user, by using standard network browser or the client software in his/her own PC, may access to the network camera by its independent IP address, and fulfill real-time monitoring of target site, real-time edition and storage of video data; moreover, the user may implement omnidirectional monitoring by controlling the pan/tilt and lens of network camera via network.

The hardware of network camera includes network video service module and CCD module, which can work as soon as connected with power and network cable, without the necessity for connecting the computer. Only with the software program installed in the computer, the user can, through network, use IE browser or client software to watch real-time video and listen the field voice. The network camera has functions such as network video recording, image framing, video record playback, pan/tilt control and dynamic motion detection. The transfer speed of image in compression form of MPEG-4 may be up to 25 frame/second on network, thus realize real-time watching without delay; for the recovery of image, the maximum definition for image quality is D1. For the application of software, it is extremely easy-to-use, for its interface is provided with the buttons for pan/tilt operation, lens control and network video, and options for function setting and administrator setting etc.

Product Characteristics

1) Equipment characteristics

It consists of three parts: network camera, player software for network camera and configuration software for network camera.

- ✓ D1 high-definition image, fluent voice, with various display formats
- ✓ Support IE browse
- ✓ MPEG-4 high compression ratio arithmetic
- ✓ Applicable to network environment of ADSL, LAN, etc.
- ✓ Transfer speed for image up to 25 frame/second
- ✓ With the function of dynamic motion detection, and the sensibility of detection is adjustable
- ✓ Support the capture and archiving of individual image in the format of JPG and

BMP

- ✓ Support parameter setting on Internet with easy update
- ✓ Support characters overlap
- ✓ Automatically search IP and connect it
- ✓ Encryption function for image
- ✓ Multiple protocol support-TCP/IP, HTTP, ARP and RARP, etc.

Security		Account number, password, user privilege
Alarm		Video image dynamic motion detection
Control of pan/tilt and lens		RS485 interface, remote control of pan/tilt and electronic lens by client
Requirements to computer		Windows2000/XP Version
		IE 4.0 version or above
		NET4.5 version or above
Hardware	CPU	32Bit RSIC Embedded Processor
	Operating system	Embedded Linux system
Network	Network protocol	Support TCP/IP,HTTP,ARP,RARP, etc.
	Network interface	RJ45 10/100m Self-adaptive to Ethernet network interface
Video	Compression	MPEG-4
	Frame frequency	10-30fps (D1)
	Resolution	D1:720×576 CIF:320×288 FIELD:720×288 QCIF:192×144
	Input	1Ch
	Output	1Ch
CCD module	Sensor	1/3 Sony CCD,420 bus ,32MM×32MM
	Signal-to-Noise	More than 48DB (automatic gain is off)
	Lens interface	C/CS lens interface
	Automatic white balance	Automatic white balance
	Back light compensation	Automatic back light compensation
Camera power		Power: DC 12V, Current 1A
Application scope		Enterprise, community, government institutions , traffic, power, financing and national defense etc.

2) Network Characteristics

- 1> User-defined http port-allows the gateway of Internet to use “port mapping”, therefore the network video/audio products and web server may share one Internet IP address.
- 2> Support DDNS to release network video/audio products to Internet through secondary dynamic domain name resolution.

3) Security Characteristics

- 1> User identification: if necessary, only known user is allowed to access real-time video, before that, user must input user name and password. The maximum number of users is 5.
- 2> Security: password protection and IP filtering, MAC filtering
- 3> Motion Detection

Panel structure



POWER/STATUS LED

Power on: Yellow light on LAN is uninterruptedly on

NETWORK LED

Network link (connected): Two lights on LAN are uninterruptedly on

In transformation of signal: Green light flashes in high frequency, 10/100M self-adaptive

Network disconnection: Green light is off

LAN

RJ-45 port may connect with Grade-5 twisted pair wire (IEEE802.3 10Base T standard)

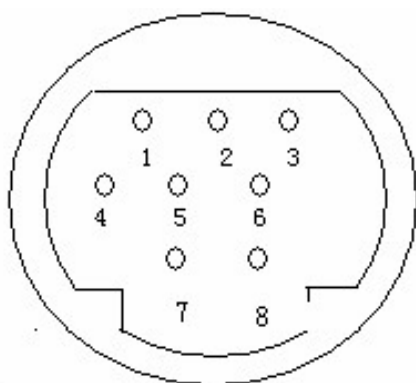
DC 12V

The specification of DC input power is 12V; a DC power with AC 100-240 input and DC 12V 1A output is packed with the camera (Please use the power packed with the camera or else improper use of power may easily damage the core).

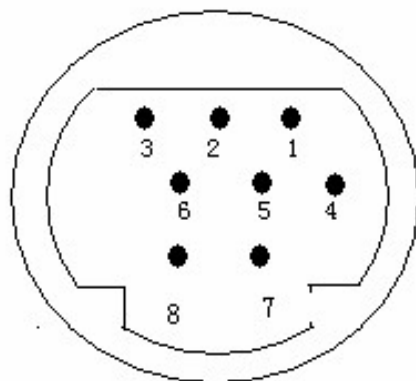
RS485

The camera has a pan/tilt RS485 port, which may be connected with pan/tilt decoder to realize pan/tilt control; it supports protocol PELCO-P with baud rate at 9600 and effective address at 0.

Pin number	Color of corresponding lead wire	Signal purpose	Signal direction	Remarks
Pin 1	Purple	I/O Channel	Input	
Pin 2	Black	RS485+	Output	
Pin 3	Grey	RS485-	Input	
Pin 4	Yellow	I/O Channel	Output	
Pin 5	Green	I/O Channel	Input	
Pin 6	Blue	COM		
Pin 7	Orange	I/O Channel	Output	
Pin 8	Red	I/O GND		



Layout of each pin numbering in 8-core S terminal socket



Layout of each pin numbering of connection wire plug in 8-core S terminal

Connect the 485+ and 485- wire on S terminal to the 485+ pole and 485- pole on the PTZ decoder or decoder kit; set the protocol of decoder as PELCO-P baud rate 9600 with address on 0 through DIP on decoder.

The alarm signal is input or output on the I/O channel, but this function is not ready now, we will build it in the future.

Product Installation

1) Installation Instruction

Thank you for choosing our products. Before use our products, please read carefully and understand all safety instructions before installation

The package of IP camera shall include:

- A. IP Camera
- B. Power adaptor
- C. 8-core terminal connection wire
- D. Installation disc
- E. User Manual
- F. 1m cable

The inner part of the camera mainly consists of two parts: network video server and CCD module. Since we do not provide optical lens, users may select lens by themselves according to actual needs.

Use cable to directly connect computer with other computers or LAN through router. The terminal of IP camera shall be installed indoor; waterproof cover or lightning-proof facility shall be considered if installed outdoor.

Do not touch lens since it may leave fingerprint which results in blurred or invisible image; only maintainer authorized by the manufacturer is allowed to repair the terminal of this IP camera.

Please return the network video/audio products to our company for repair in case the followings happen:

Power or plug is damaged

When liquid leaks into network video/audio products

Network video/audio products are damaged arising from falling

Network video/audio products fail to work normally after setting and adjustment according to the operation manual.

2) Hardware installation:

1> Installation of lens

The installation of lens for IP camera supports the types of C and CS. The screw threads of both types are 1 inch 32 thread with diameter in 1 inch and the difference lies in their distance from lens to CCD board. For the C-type installation base, the distance from base level to the focus is 17.562 mm, which is longer than that of CS type from CCD board of the length of a special adapter ring; since the distance from CS-type lens to focus is 12.5mm, an adapter ring of lens is required for C-type installation; meanwhile, an after-image adjustment ring at the installation port of IP camera is used for the after-image adjustment. During the adjustment, use the screwdriver to loose the screw on the side of adjustment ring and turn

the adjustment ring, then the CCD format will move forward (backward) from the installation base to fulfill the adjustment of lens focus.

2> Installation and fixing instruction

A standard fixing base for installing camera (M5 British measurement) is incorporated respectively on the up and down part on the shell of IP Camera.

3> Internet cable: Use grade-5 twisted pair wires and RJ-45 (LAN) connector to connect the video/ audio products with your network; it is also available to connect it to the concentrator or switcher through standard cable or directly connect to PC through crossover cable.

4> Make sure the norms of your power adapter (110V or 220 V AC input, 12V.1A DC output) match the power line; and connect the power with network video/audio products.

5> Check if the LED on the power indicator LAN is on or not; the connection indicator LAN is on if the connection of network is correct.

6> The IP address of the PC shall be set in the same IP address of video/audio, for example, if the initial IP address of network products is 192.168.1.126, the IP address of PC shall be set between 92.168.1.2 and 192.168.1.255.

Connection for Network Video Server

The default network settings of network video server produced by our company are:

IP: 192.168.1.126

Gateway: 192.168.1.1

Subnet mask: 255.255.255.0

DNS server: 168.95.1.1

The IP address or gateway of IP camera and video server is changeable. It shall be noted that if the IP or gateway is changed, the IP address of PC shall be changed into the same IP address of IP camera, as well as the gateway the same as that of camera.

Connection for IP camera

The network video server is connected to the camera through AV video cable and to the PC or router through RJ 45 port by network cable. Open the package, take out the video server for package, install the software of network video monitoring on PC, connect power (use original power connection) to video server, connect the video server with PC or router through network cable, and ensure the network connection is correct (the yellow-green indicator on the back of server is on normally).

Check network parameters

Only matching of PC network parameters with that of video sever can ensure the successful connection.

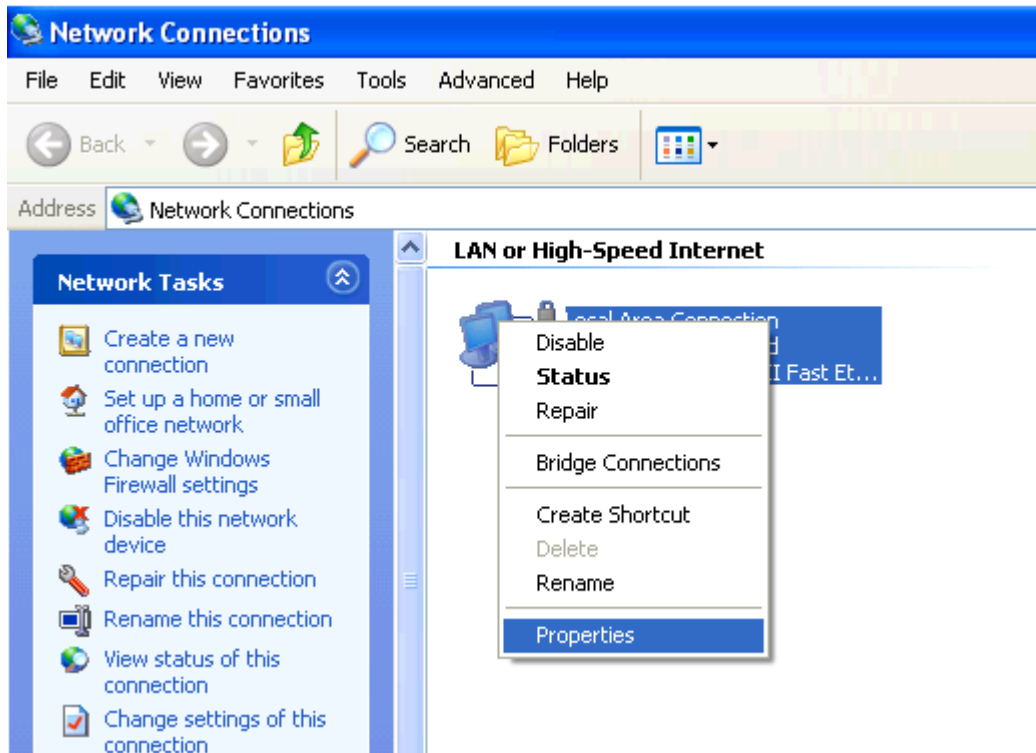
At first, the gateway must be the same. For example, if the default gateway of video server is 192.168.1.1, the gateway of PC shall be also 192.168.1.1 so as to establish the connection.

The IP address shall be the same, for example, if the default IP address of camera is 192.168.1.126, the IP address of PC shall be one of the addresses in 192.168.1.0~255.

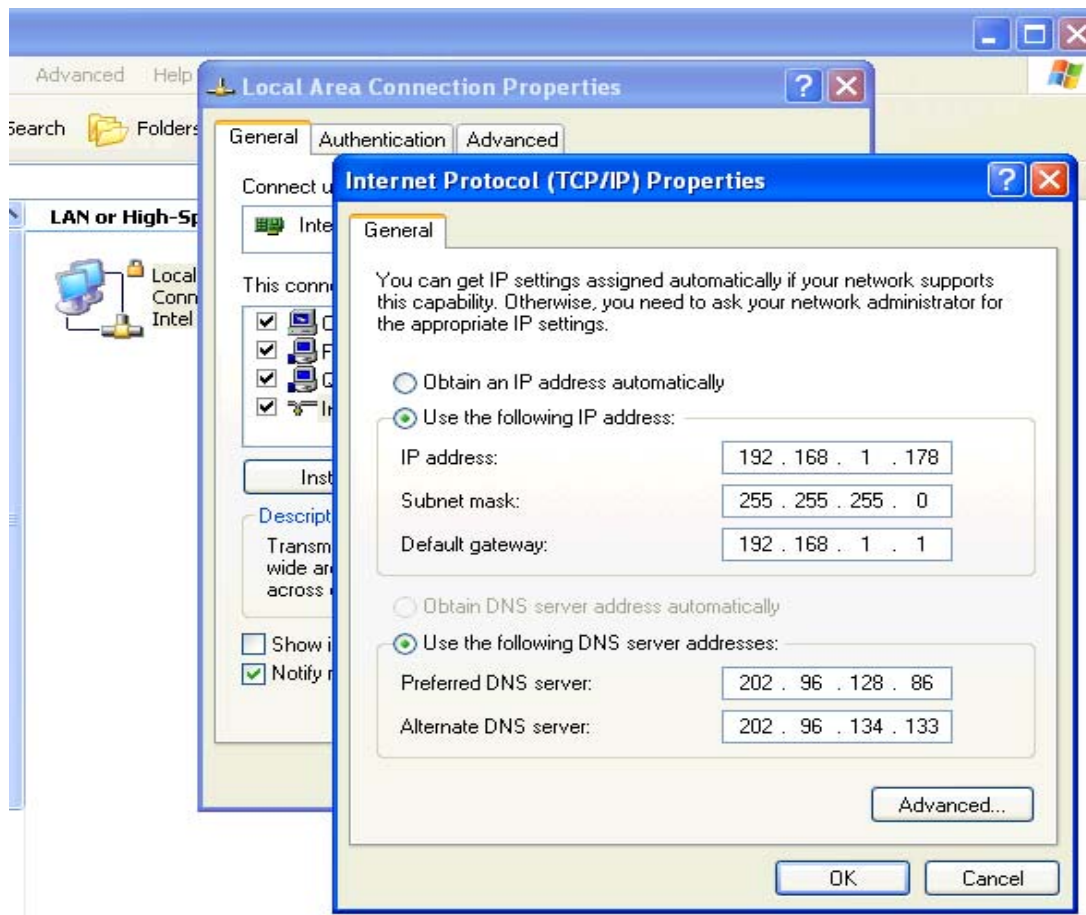
In case of any inconformity between your network parameters and the default setting of the network camera server, it is required to modify the network parameters of your PC to match the default setting of the network camera server.

Right click the 'network neighborhood', and then click 'properties'



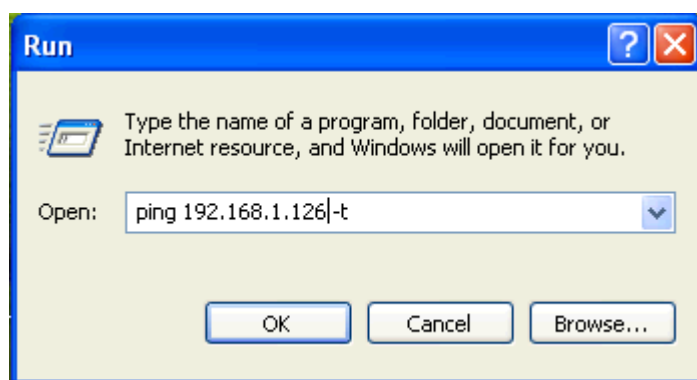
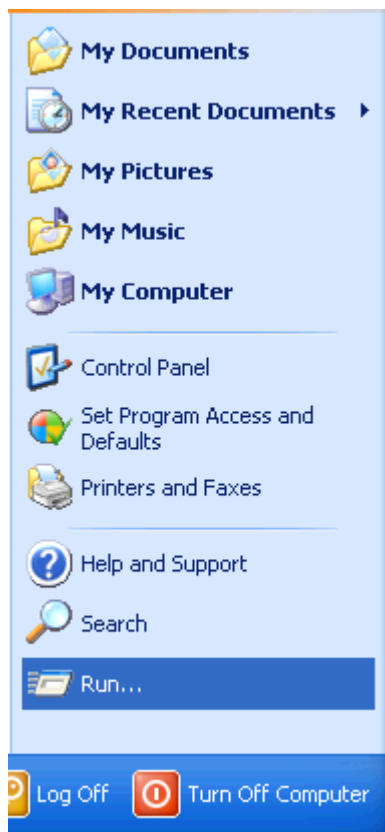


Double-click 'Internet protocol (TCP/ IP)' to check the current network parameters

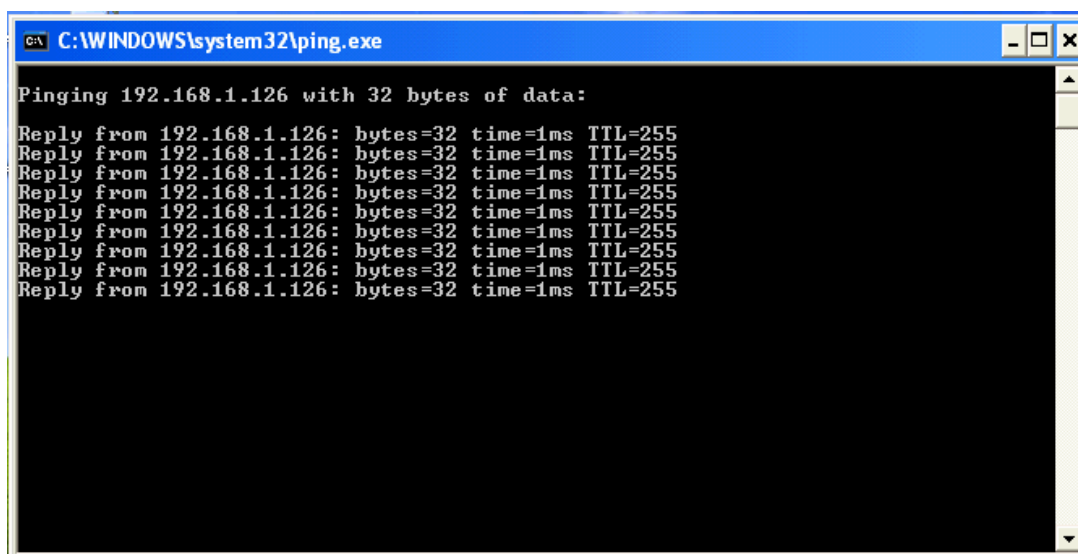


Connection Test

After confirmation the conformity of the settings for your network setting and network video server, and then click 'Start'—>'Operation', input 'ping. network video server IP. -t' (input 'ping 192.168.1.126 -t' for camera with unchanged setting) in the dialogue box, use the ping order to ensure whether the connection of network video server is correct:



The data displayed in the picture means the correct connection of network video server:



```
C:\WINDOWS\system32\ping.exe

Pinging 192.168.1.126 with 32 bytes of data:

Reply from 192.168.1.126: bytes=32 time=1ms TTL=255
Reply from 192.168.1.126: bytes=32 time=1ms TTL=255
Reply from 192.168.1.126: bytes=32 time=1ms TTL=255
Reply from 192.168.1.126: bytes=32 time=1ms TTL=255
Reply from 192.168.1.126: bytes=32 time=1ms TTL=255
Reply from 192.168.1.126: bytes=32 time=1ms TTL=255
Reply from 192.168.1.126: bytes=32 time=1ms TTL=255
Reply from 192.168.1.126: bytes=32 time=1ms TTL=255
```

Provided that your original network parameters is not in conformity with default network parameters of the network video server, the network parameters of network video server of the client software may be modified to your original network parameters after the connection of network video server, then the network video server may be connected with your whole network after changed the network parameters of your PC into the original one.

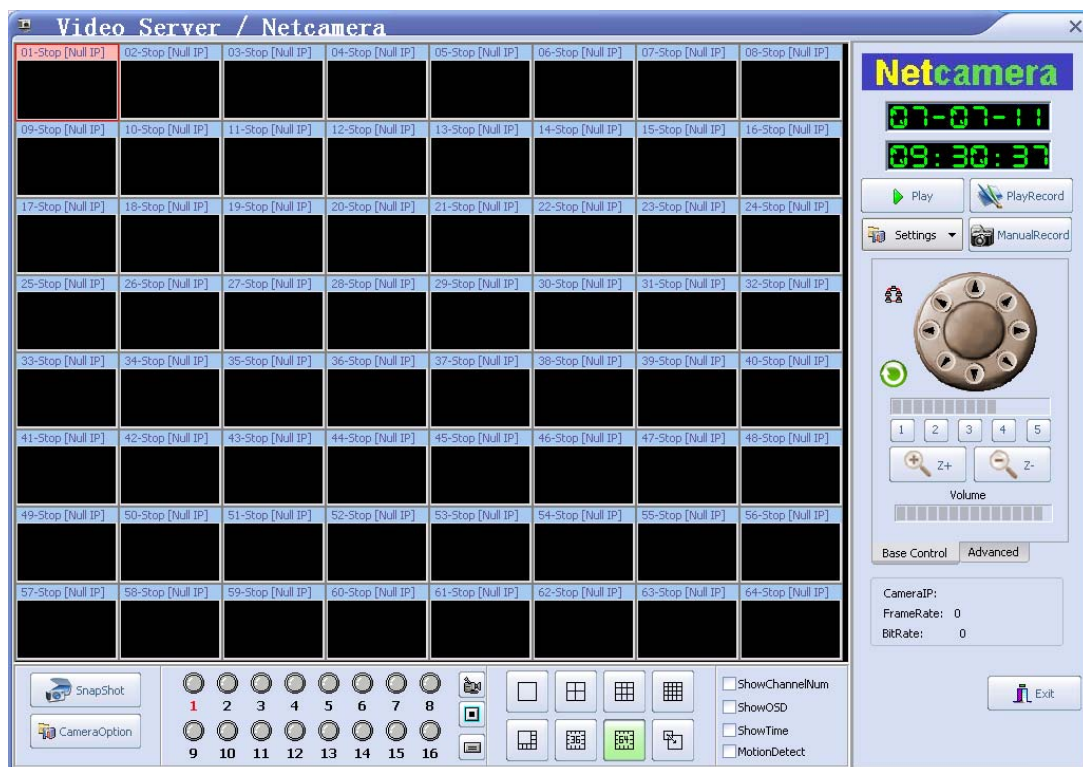
Operation Guide for Client Software

Login

Double click 'Client' on the desktop icon or click 'start' -----> 'procedure'----->'Client Software', Loginbox will come:



Enter username and password (Default set: username: admin, password: admin) , click 'OK' to enter the client.

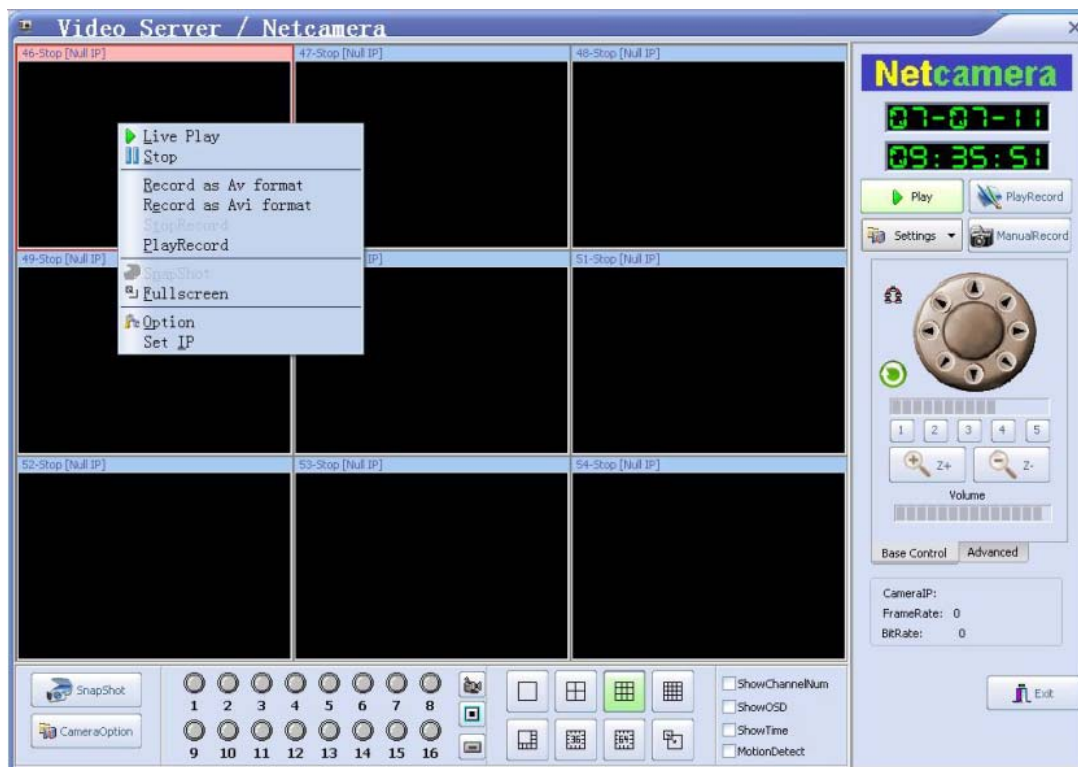


View Control

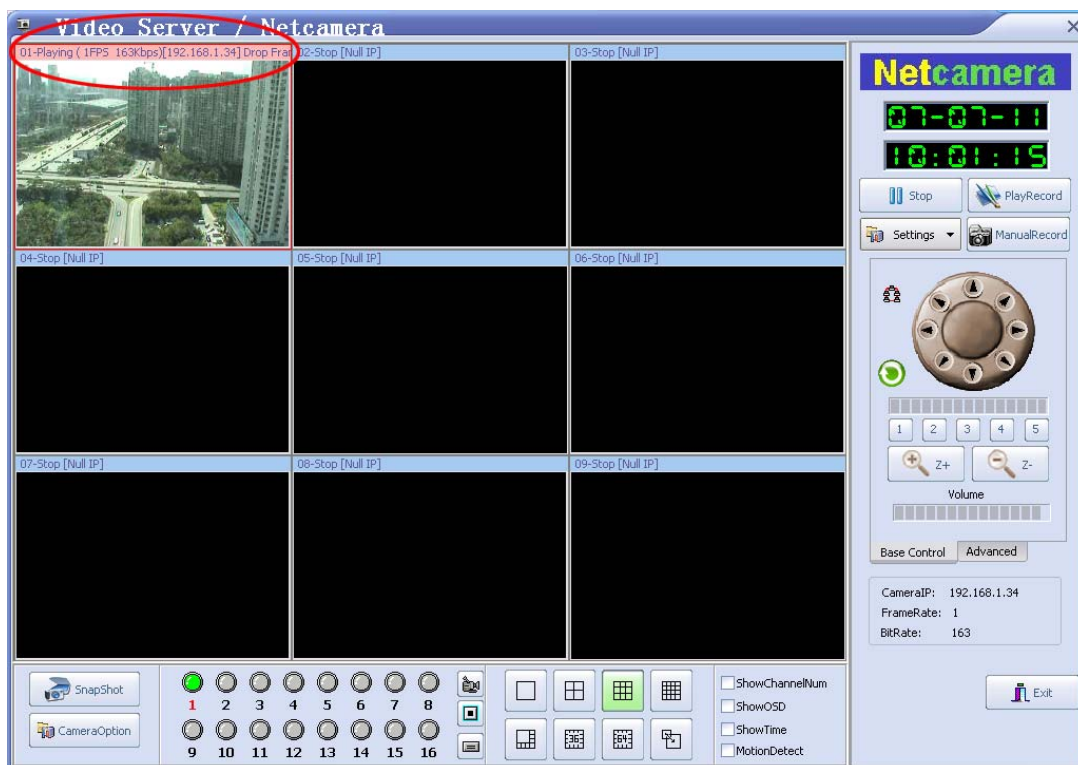
Current date and time will show on the right-up of the screen.

Under the time display area is View Control area which contains 4 options: Play, Play Record, Settings, Manual Record.

Display: Set IP information to all the channels and click 'Play' or click right button to choose 'Live Play' on the certain channel, and then the certain channel will play the real video picture.



Channel number, Play state, frame rate, bit stream and IP address will shows on the top:

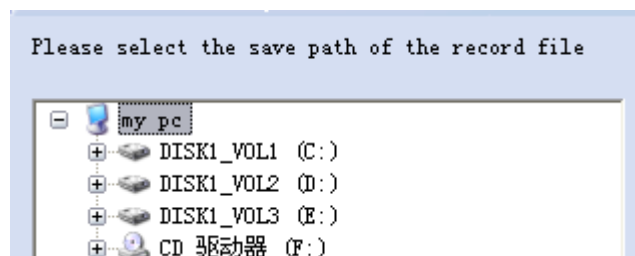


Stop: When the channel is on play state, the 'play' button will change to 'Stop', click 'Stop'

to stop all the play channel.

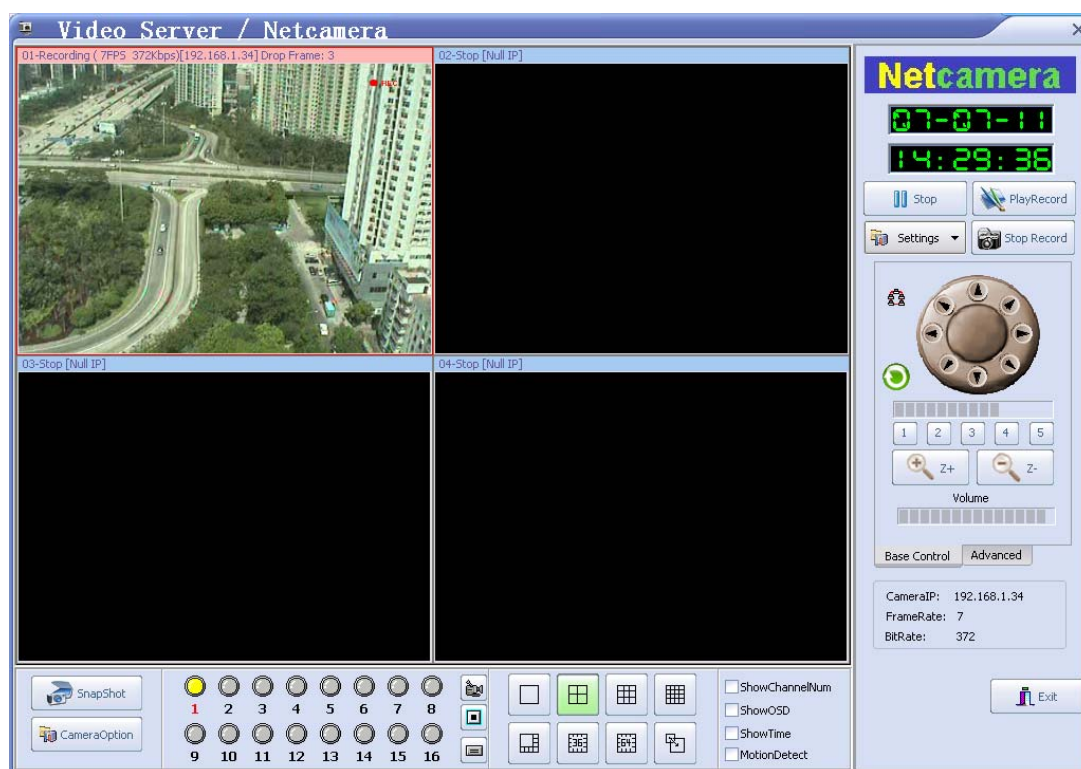
Manual Record: Click the 'Manual Record', the client starts to record directly and save as AV Format, it finishes one file as 15 minutes.

Click the right button to choose 'AV Format' or 'AVI Format', and choose save file path as click 'settings'—'Local Setting'—'Disks Setting', shows as the following:



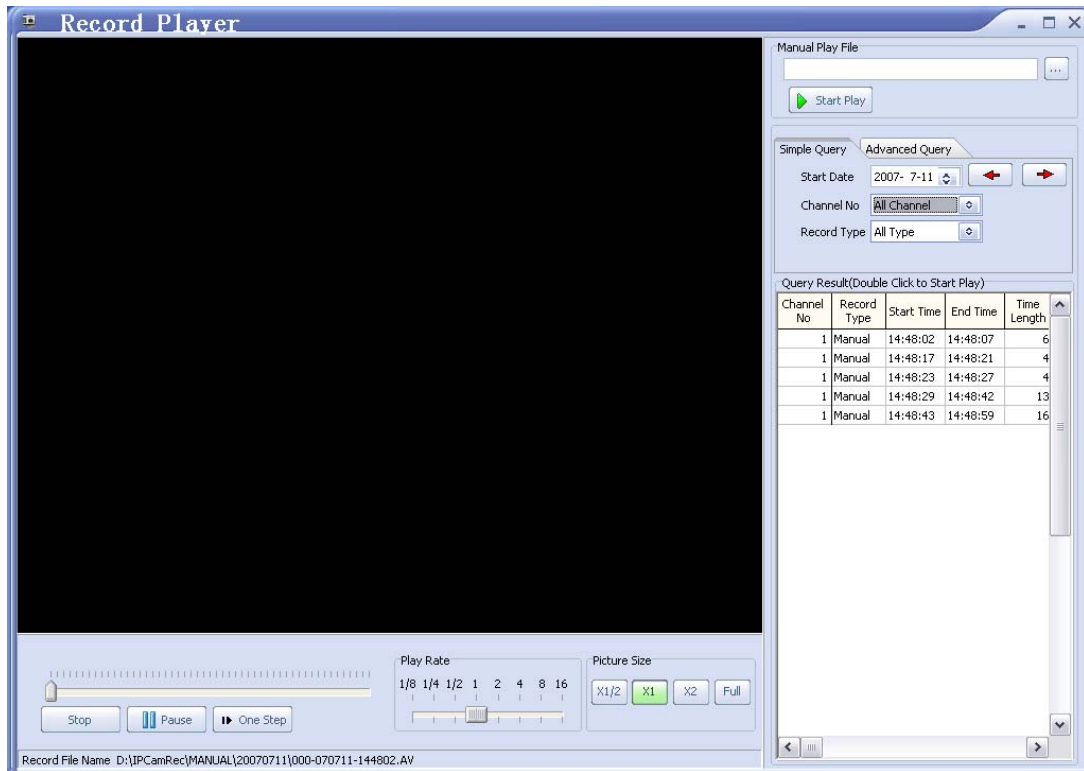
When start recording, 'Manual Record' becomes to 'Stop Record', 'REC' display on the right -up of the screen.

Click 'Stop Record' to stop record state.



Play Record: Click 'Play Record' to open the display record surface, and then you should choose the record file you need, shows as follows:

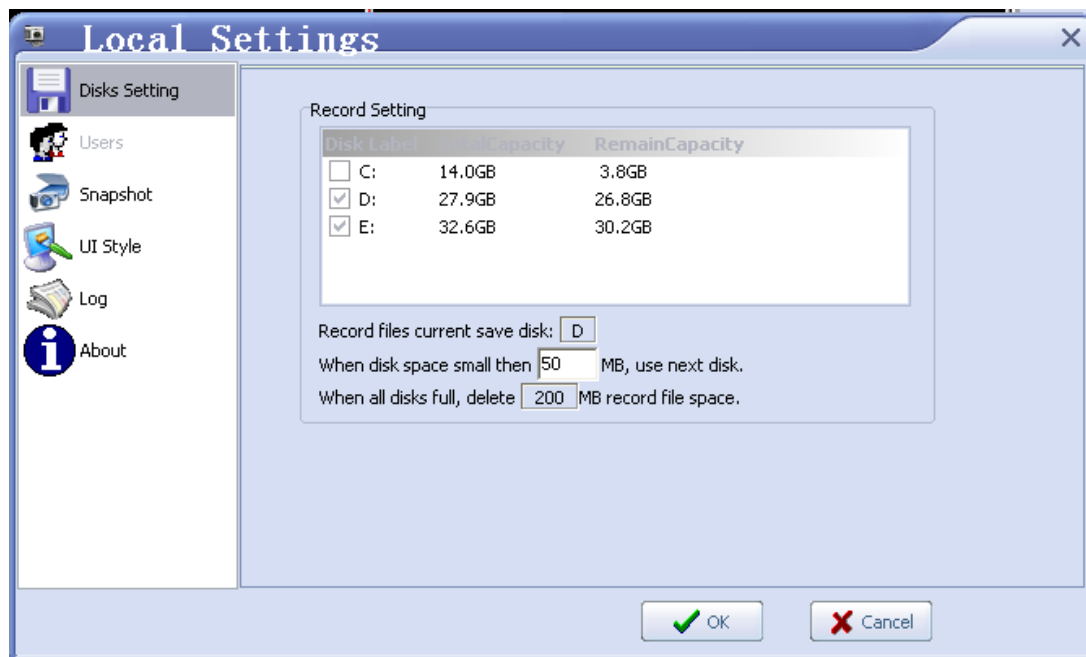
Double click the file you need, it begins to display and the record time is shown on the right-bottom of the screen.



Settings: Click 'Settings', there are 4 options: Local setting, Channel setup, Assign IP, Reindex record

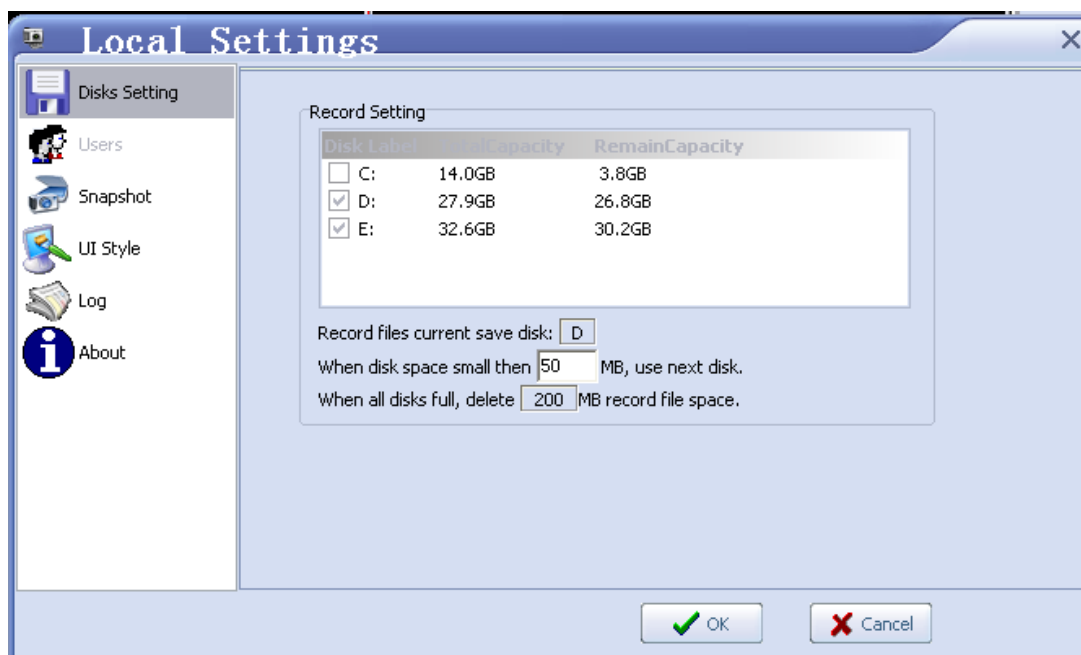


There are 6 options in 'Local Setting': Disc Setting, Users, Snapshot, UI Style, Log, About.



1> Disks Setting

Shows as follows:

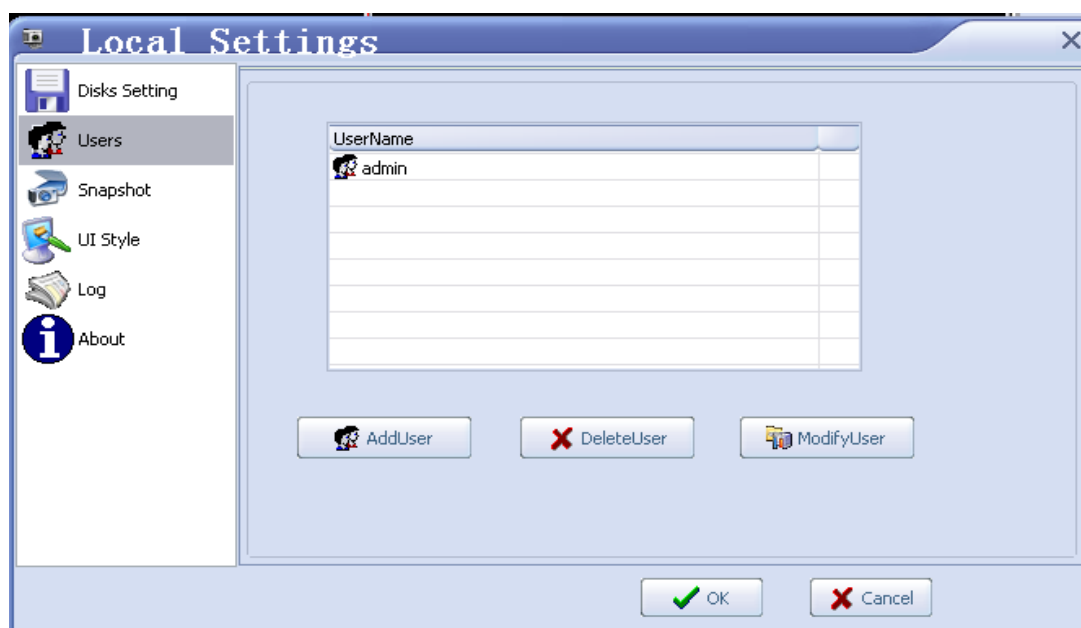


Set save path for the record file, the record file will be saved at chosen disk. When one disk is full, the file will be saved in next chosen disk. If all the disks are full, the earliest file will be deleted. (200MB as a unit)

You could set: When disk space less than which you set, it saves directly to next disk; and when all the disks are full, it deletes how many files.

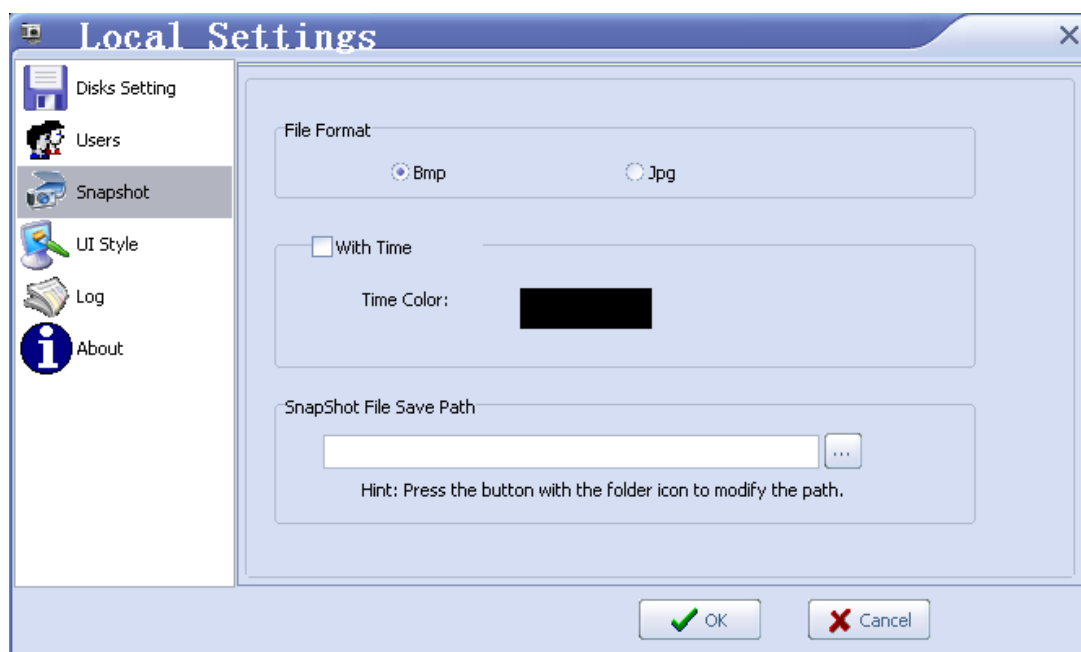
2> Users

You could add or delete the users, and also modify users' information (Default 'admin' can not be deleted)



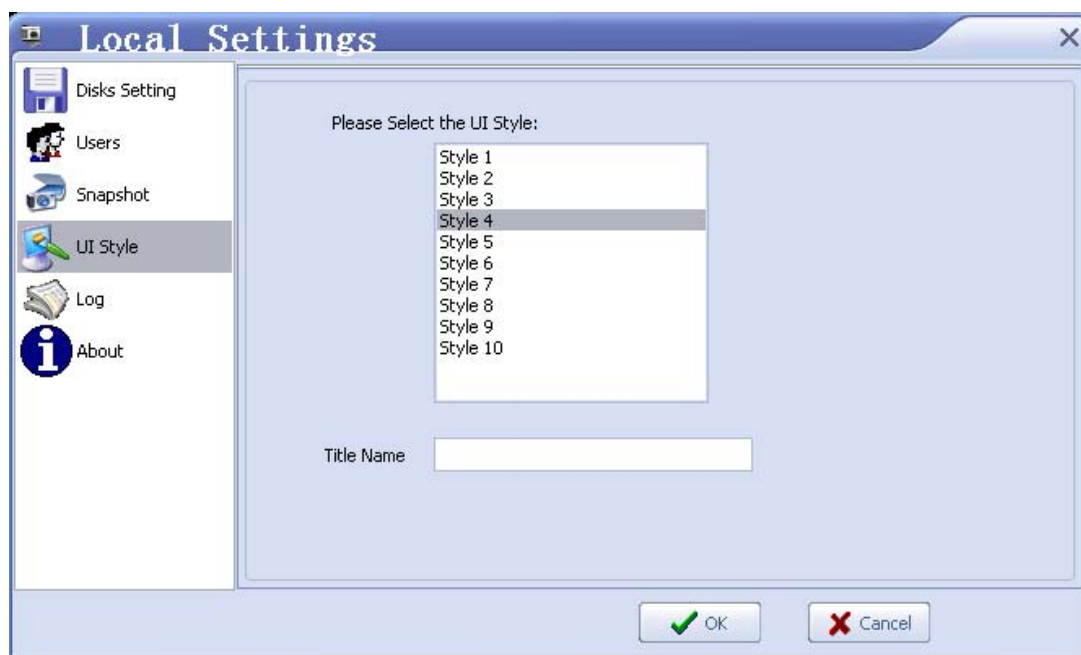
3> Snapshot

Set BMP or JPG format to save the snapshot. Choose adding the time on or not while set the font color and the saving path.



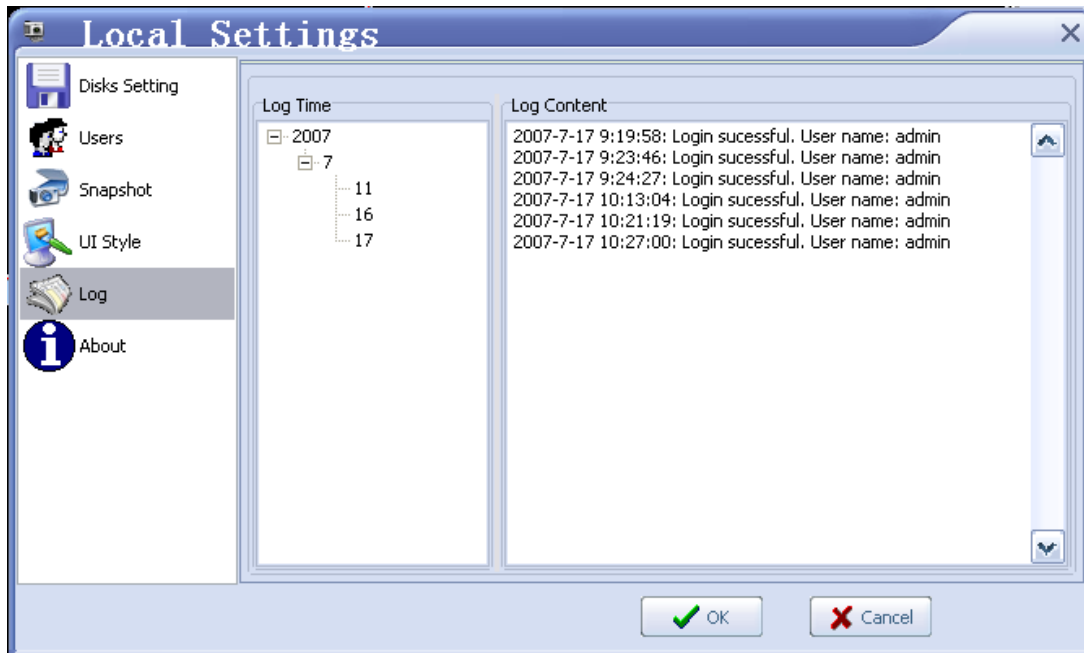
4> UI Style

Our client supply 10 different types surface to suit different needs.



5> Log

It includes Login time, Login result, and Username. All the contents list in terms of the day.

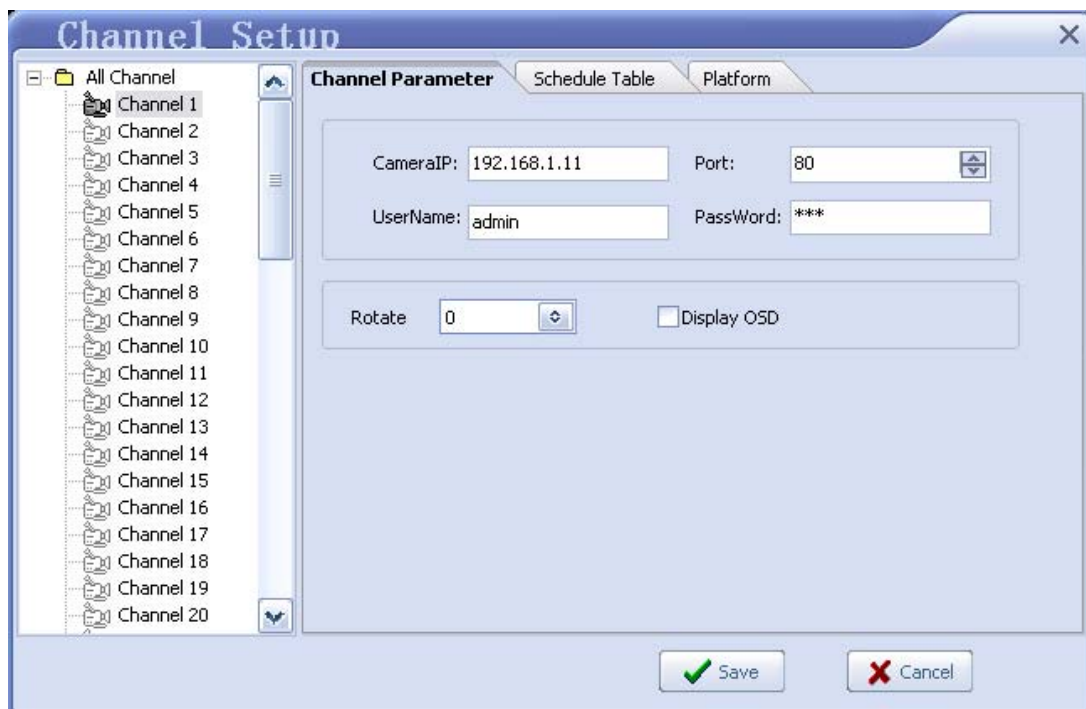


6> About

It contains some simple description for Client system.



You could set the Parameter, Schedule information and Platform in 'Channel Setup',
Click from 'Channel 1' to 'Channel 64' to set each camera's Parameter, Schedule Table,
Platform. Shows as follows:



Click 'Channel Parameter', you could set Camera IP, Port number, Username, Password, set Rotation angle for the display picture and also Display OSD.

Click 'Schedule Table', shows as follows:

Channel Parameter **Schedule Table** Platform

Record Type
☒ Schedule ☐ Alarm

Run Mode
☒ Run Once ☐ Daily ☐ Weekly ☐ Monthly

StartTime 2007- 7-17 10:27:00 EndTime 2007- 7-17 10:27:00

Add Delete

Is Valid	Record Type	Run Mode	Start Time	End Time

Record Type: Schedule Record, Alarm Record

Click 'Schedule' record, set the time in the "Start Time" and "End time", and then click "Add". The record task will display in the list.

Platform

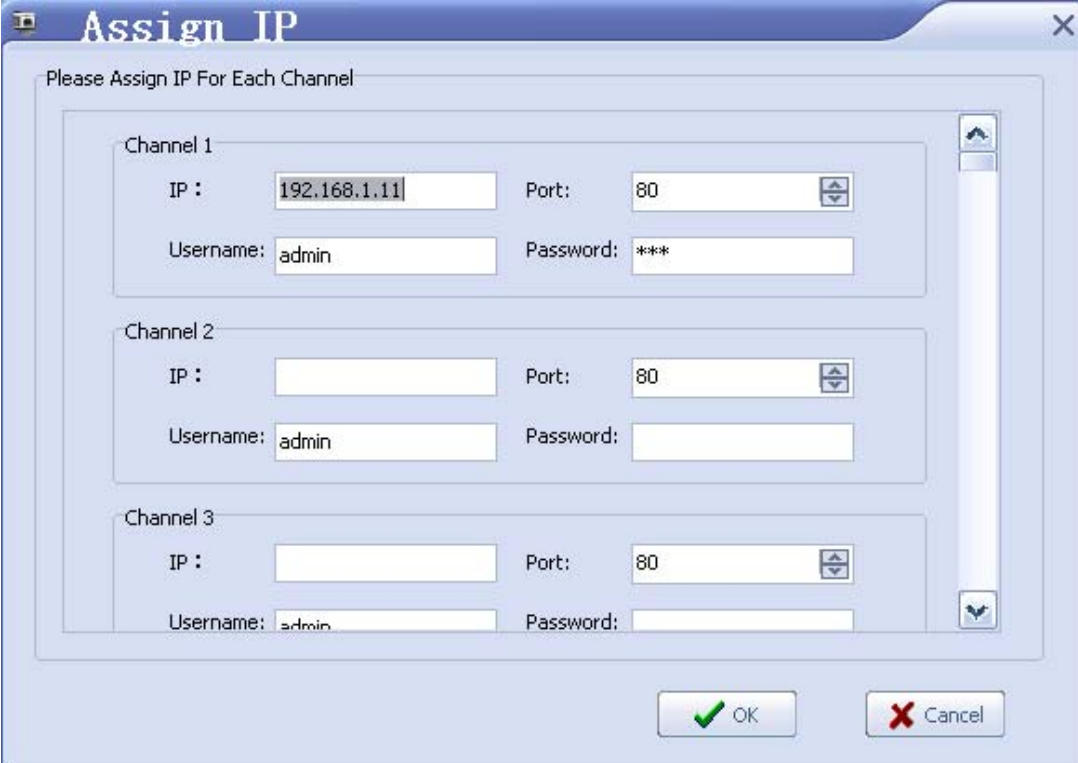
The screenshot shows the 'Platform' tab of a software interface. Inside, there is an 'Adjustment' section with two sub-sections. The first sub-section contains settings for 'Up', 'Down', 'Left', 'Right', and 'Auto Pan'. Each of these has a numeric input field (all set to 1 except 'Auto Pan' which is 10) and a spin button. A note below these settings states 'One unit means 0.5 second'. The second sub-section contains settings for 'Zoom in', 'Zoom out', 'Far', and 'Near'. Each of these also has a numeric input field (all set to 1) and a spin button. A note below these settings states 'One unit means 0.2 second'.

Set the rotation angle, time of auto-rotation with single way, range of Zoom out and Zoom in.

Assign IP

Our Client software supply 64 Channels view at the same time, you could set IP information for all channels here: IP address, port number, username, password.

Take 33ch as example, enter IP: 192.168.1.126, port number: 80, username: admin, password: (blank), and click 'OK' to save. (or click right button on the channel, and choose 'Live Play'), now the IP information display on 33ch is what you set.



The image shows a software window titled "Assign IP" with a close button (X) in the top right corner. Below the title bar, the text "Please Assign IP For Each Channel" is displayed. The window contains three sections for Channel 1, Channel 2, and Channel 3. Each section has fields for IP, Port, Username, and Password. Channel 1 has IP: 192.168.1.11, Port: 80, Username: admin, and Password: ***. Channel 2 and Channel 3 have empty IP and Password fields, and Port: 80, Username: admin. A vertical scrollbar is on the right side of the channel sections. At the bottom right, there are "OK" and "Cancel" buttons.

Assign IP

Please Assign IP For Each Channel

Channel 1

IP : 192.168.1.11 Port: 80

Username: admin Password: ***

Channel 2

IP : Port: 80

Username: admin Password:

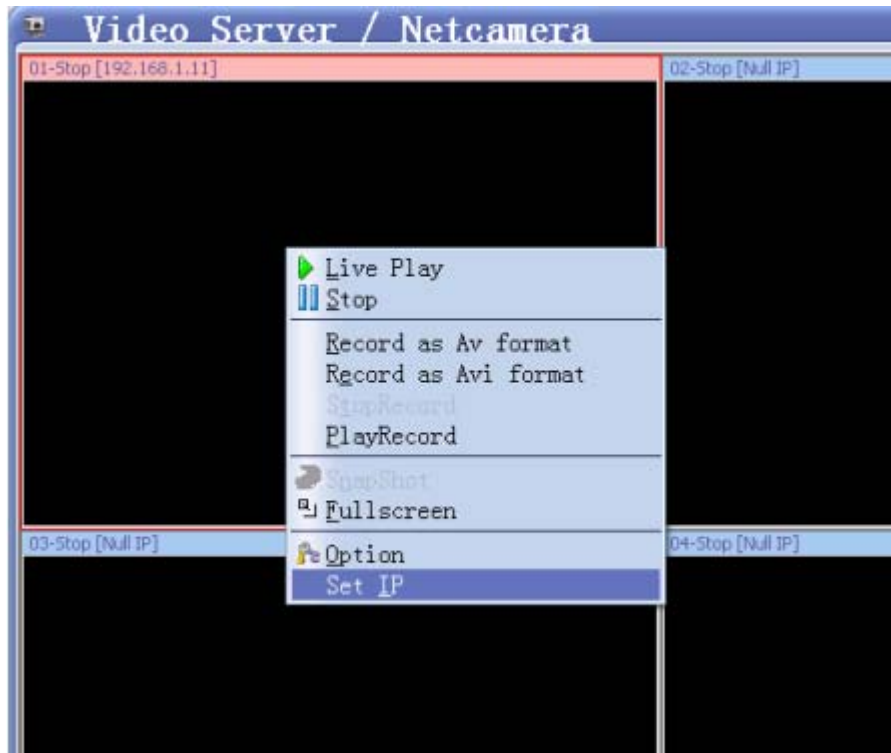
Channel 3

IP : Port: 80

Username: admin Password:

OK Cancel

Or use right button to choose 'Set IP address' to set IP information for each channel.



All Channels IP information column also accept the English Domain name, Eg: enter: szsuv.vicp.net



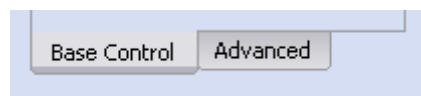
‘ Reindex Record’

Establish the index relationship between client and record file again, it often uses when

re-install client software.



Basic Control and Advanced Control



Basic Control

Platform Control:

It needs to connect with Platform decoder (set the right protocol, bitrate, right address) to control platform.

Click the direction arrowhead to control the turn directions for the platform.

Left-up button from the Direction Disk controls All channels Auto Pan.

Right-down button from the Direction Disk controls Auto Pan for the chosen channel.

The bar down upon the Direction Disk direction adjusts the turn speed of the platform.
(For High-Speed Dome)

Click '1', '2', '3', '4', '5' button to turn directly to 1—5 preset point.

Focal length control:

Zoom in, zoom out to control the multiple of the lens. (It needs network video server connect with camera which has auto Vari-focal lens)

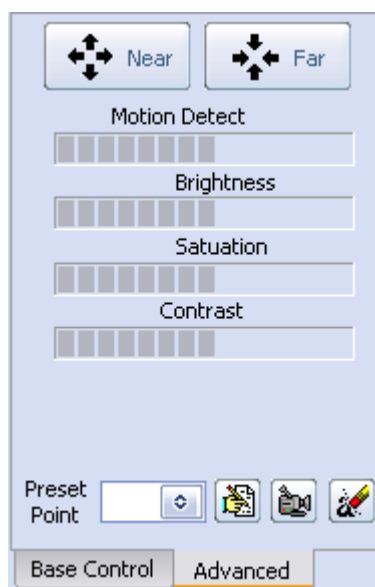
Near, far button to adjust the focal length of the lens. (It needs network video server connect with camera which has auto Vari-focal lens)

Through keyboard, you could also control the turn, vari-focal functions for platform; up, down, left, right button on the keyboard to control turn direction; 'PageUp' and 'PageDown' button control the 'near' and 'far' functions.

Audio:

Adjust the sound volume of the camera.

Advanced Control



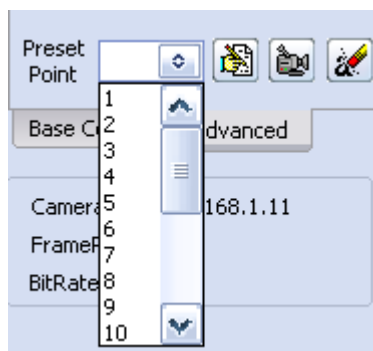
Motion Detection Sensitivity:


For adjusting the sensitivity of capturing the motion when starting the function of motion detection; If the sensitivity was adjusted to a lower degree, there will be a warning response only if an obvious motion occurs in the image (a red square could be seen where motion occurs in the image); if the sensitivity was adjusted to a higher degree, there will be a warning response even when a light motion occurs.


Brightness: Adjust the brightness of the video image

Saturation: Adjust the color (dark and light) of the video image

Contrast: Adjust the Contrast of the video image

Set preset point:

Choose number and click  to set the current point which locates at the current picture as preset point.

Choose number and click  to turn the chosen preset point directly.

Choose number and click  to clear the chosen preset point.

Information for the chosen camera:

```
CameraIP: 192.168.1.11
FrameRate: 0
BitRate: 0
```

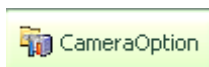
IP address: It shows IP address of the chosen camera

Frame rate: It shows at the current time, the transmission of frame amount per second

Bit Rate: Transmission speed for Image data (K bit/ s)

Snapshot:

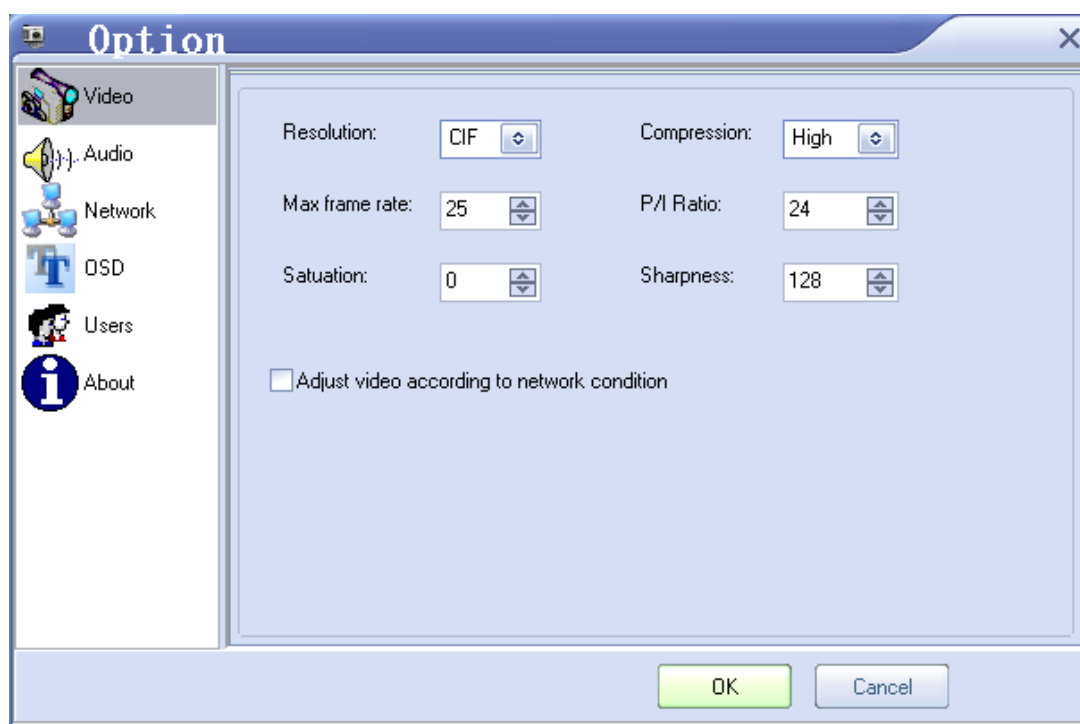
Click this button, you could make a snapshot for the current time and save. And by 'Settings'—'Local setting'—'Snapshot' to choose the save path you need.

Camera Option

Through Click 'Camera Option' button or right key to choose 'option' on the chosen channel, you could set the parameters of the camera.

'**Camera Option**' contains: Video, Audio, Network, OSD, Users, About

1> Video



Video Resolution: There are two formats for setting the quality of video image----QCIF and D1. D1 provides the best effect. The resolution under PAL and NTSC systems is shown as below:

	D1	CIF
PAL	720*576	352*288
NTSC	720*480	352*240

Compression ratio: Setting the compression degree of data with high or low. The high compression ratio can improve the transmission rate while the low compression ratio can restore a truer image, resulting in an image more satisfied.

The maximum frame rate: Setting the maximum frame number of images which can be transmitted by the camera per second, with an effective value of 1~30 (the defaulted is 30).

P/I ratio: The ratio between P frame and I frame can be changed (the increase of the P/I ratio can decrease the data volume to-be transmitted), with an effective value of 0~29 (the defaulted is 15).

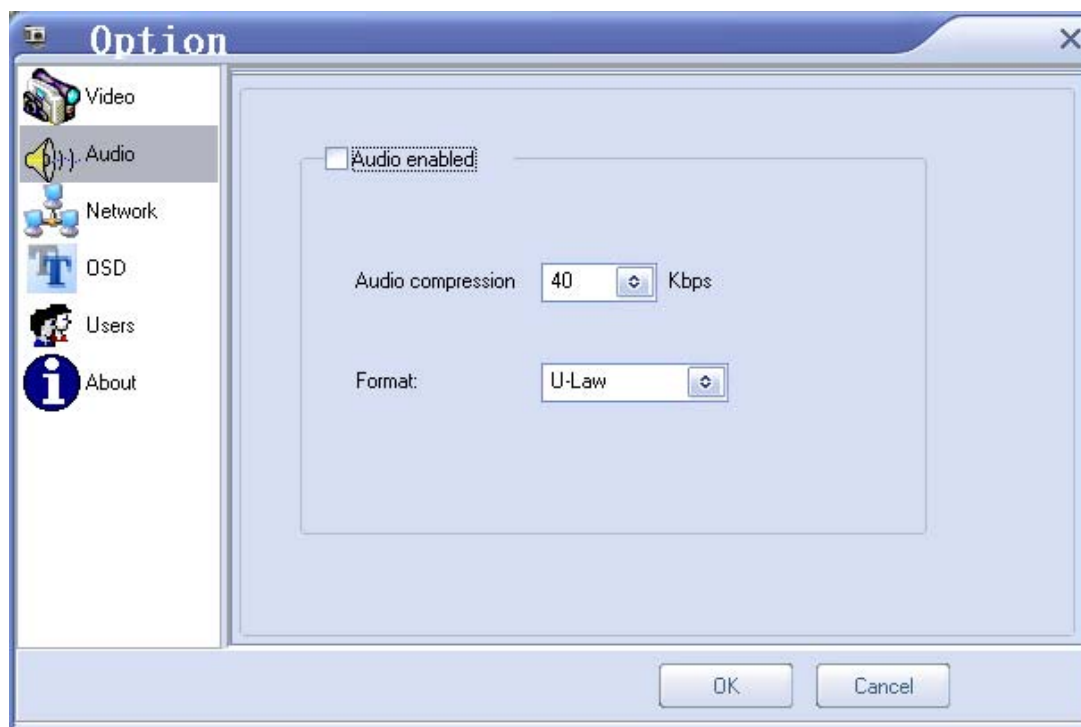
Saturation: Setting the saturation of video image, with an effective value of 0~255 (the defaulted is 0).

Sharpness: for adjusting the edge sawtooth of the image, with an effective value of 0~255 (the defaulted is 128).

Adjust the video according to network condition: automatically set various relevant parameters of video images according to the actual transmission of the network, and the relevant function could be enabled by ticking (✓) in the blank in front of the function options. There are two reference object options, namely, the "Image's Quality" and the "Frame Rate".

If you choose the former one, the aim of setting all parameters is to obtain the best image quality; if the latter one is selected, the aim is to achieve the maximum frames transmitted per second and for a more stable image transmission.

2> Audio



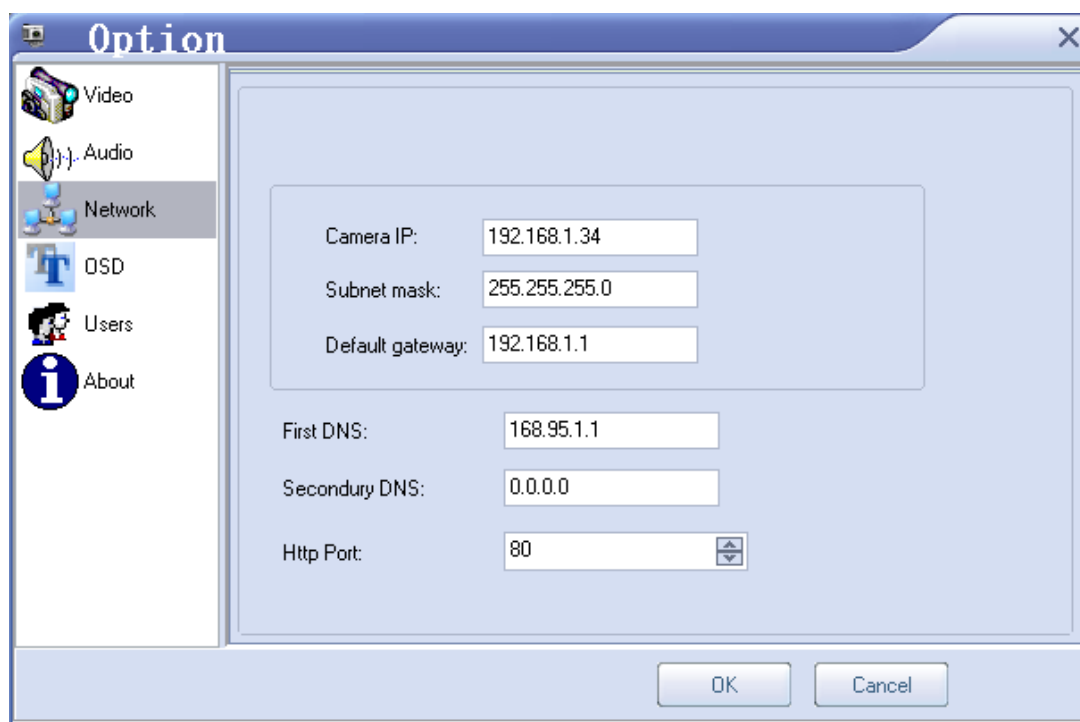
The setting of video parameters cannot be modified until selecting “Allow Sound”

Audio Compression: set the compression degree of audio data stream

Audio format: set the format of audio compression

Click “OK” to save the setting and exit

3> Network



IP camera IP Address: display hereof is the IP address of video server connected with the selected channel, which can be modified here.(After modifying the IP address, normal operation cannot be resumed until switching off and restarting the server)

Subnet mask: display hereof is the subnet mask of video server connected with the selected channel, which shall be consistent with that of the serving network (255.255.255.0 generally)

Default gateway: displays hereof is the gateway of video server connected with the selected channel, which shall be consistent with that of PC machine, otherwise the PC machine cannot be connected with the video server (any PC machine planed to display the video pictures of the network camera must be configured with the gateway conforming to that of the video server after network connection, otherwise there is no way to display the video pictures)

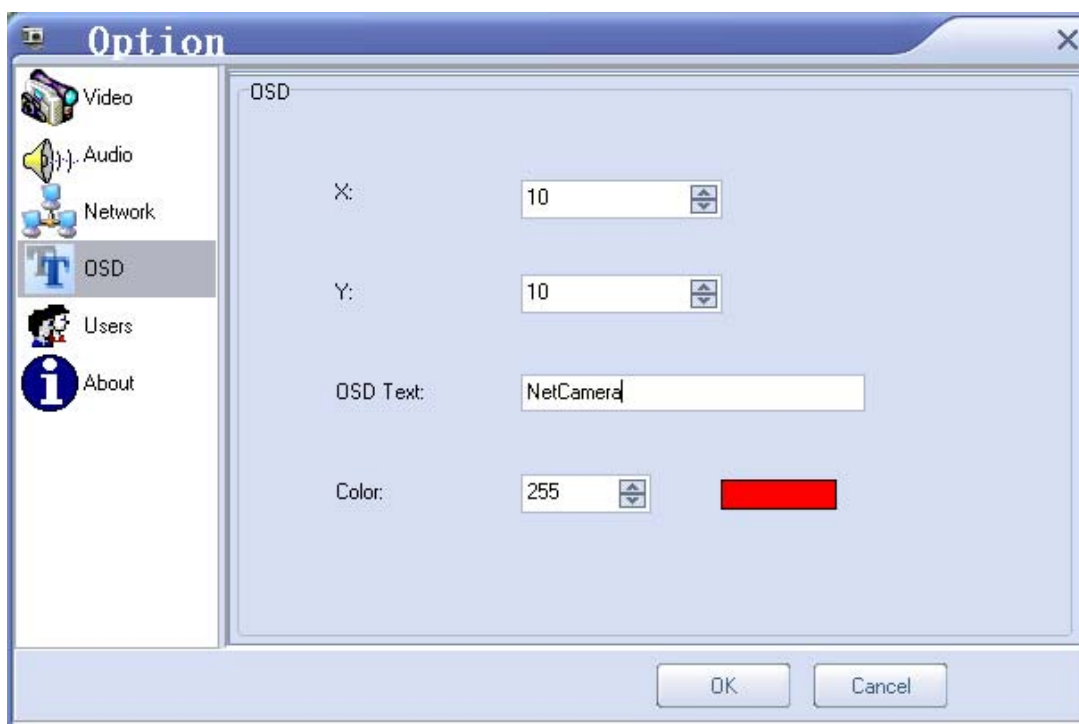
First DNS: displays hereof is the preferred DNS address of the video server which is in connection with the selected channel connected with the outer network, which can be modified here (the setup of this date is of unimportance, if the server has not been connected with the Internet)

Second DNS: displays hereof is the backup DNS address for the connection with the outer network of the video server connected with the selected channel, which can be modified here

Http server port: the port is used for setup of server monitoring, which is usually defaulted as 80

After setup, click "OK" to save setup and exit (The port set must be HTTP port, otherwise the server cannot send and receive signal)

4> OSD



X and Y-axis of character: set up by up and down arrow to change the value or directly inputting the value, according to the requirement and taking the top left point of the picture as the origin. The effective value of X-axis is within 0~720; and that of Y-axis is within 0~576.

Character to be overlapped: set the character in the video picture, which supports Chinese and English input. (After setting the character, click the option of 'Show OSD' at the main interface, and the character you designated shall be displayed at the location you set in the picture)

Character color: click color bar to enter into color table for selection of the color of adding character.

After setting, click "OK" to save setup and exit.

5> Users

Add/ delete the user who could connect the IP Products.



Delete User: Choose the certain user in the user list, and click 'Delete User'.

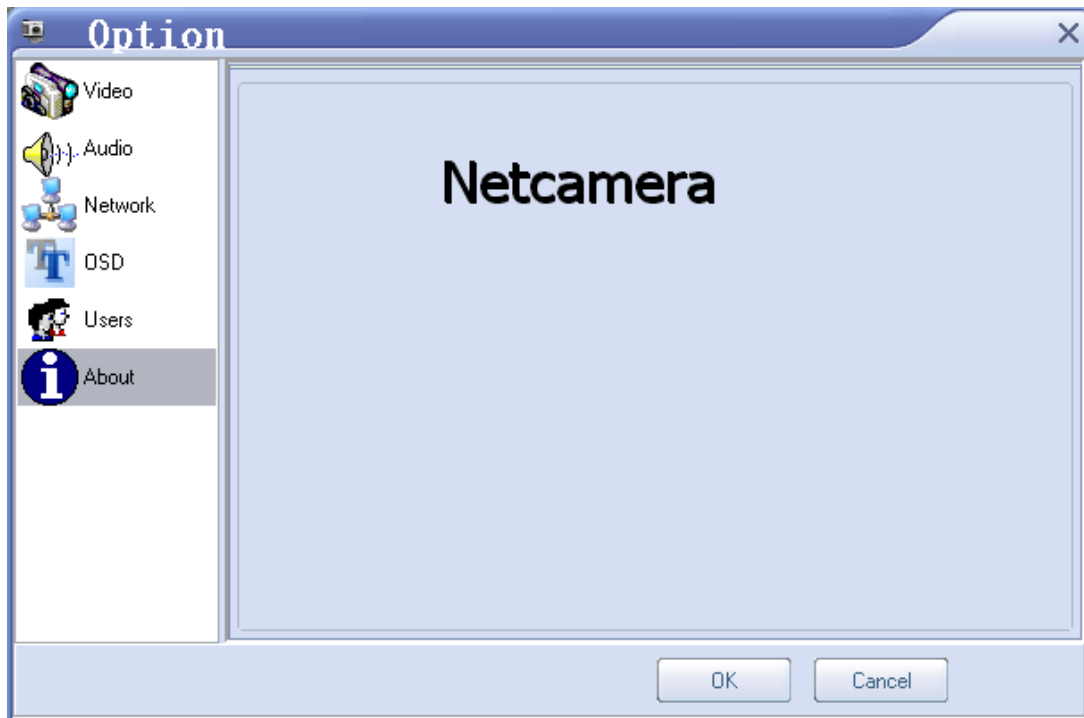
Add New User: Enter user name, password into the 'New User', if need to set it as administrator, click tick on 'administrator', and then click 'Add User' to add it. (If don't click 'administrator', it is normal user, normal user can not modify the parameters of the camera)

Current User: It displays current user name, click 'Change Password' to modify the password of the current user.

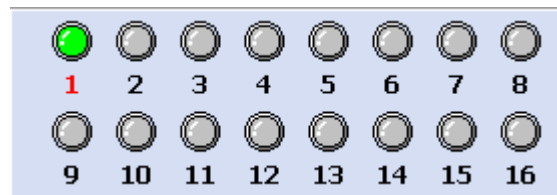


6> About

It is some simple information for Network Video Server and IP Camera.



Statement Display



The light display the working statement for 1ch—16ch camera

Grey: Stop

Green: Normal Play

Yellow: Record

Red: Motion Detection

Click the statement light to realize functions as stop, play, open the channel option, open the camera option, set IP address.



Play button: Play the image for all channels (If the channel which doesn't set IP address will not display)

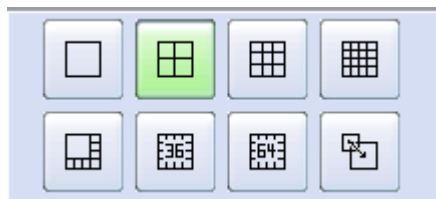


Stop button: Stop recording for all channels

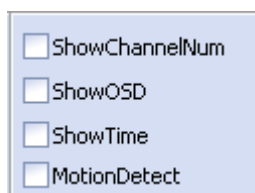


Record button: Open manual recording for all channels

Multi-image switch



Client system has the function of multi-image browse with 7 modes: single picture, 4 pictures, 9 pictures, 16 pictures, 25 pictures, 36 pictures and 64 pictures, among which user can make the choice according to the need; these modes can be realized by clicking the button for the corresponding number of cutting channels; full screen browse is possible for picture transferred through any channel (by using the last button).



Show Channel Number

Click this option, the Number of each channel will display on the right-bottom of the screen.



Show OSD

Click this option, the words you set in 'Camera Option'----> OSD will display in the screen of the certain channel.



Show Time

Click this option, the date and time will display on the right-up of the screen. Each channel need to set respectively.



Motion Detection

By clicking this item, the Client will produce warning response to any motion appeared in the picture, and any change between the previous frame and following frame shall generate red square in the picture, with the precision of the square determined by the sensitivity of motion detection, as shown in the following picture:



Notice

- 1、Working voltage of the product is DC 12V, and please employs the suitable power source during operation. Excessively low voltage will lead to unstable working condition of the equipment; too high voltage will burn out the circuit chip.
- 2、Please remember the user name and password for log-in, if they are got lost, please return the equipment to the factory for regeneration of chip data, so as to restore the factory defaults.
- 3、Measures of lightning protection shall be made during operation; waterproof measures are required for non-waterproof series products so as to avoid short circuit.
- 4、Wire pressing method for crystal heads of network cable is recommend to adopt the wiring method of standard type A or B, so as to achieve the best transmission effect.

5、The default protocol for platform is Pelco-D 、2400(baud rate), startup with 1 address. For operation, please select the decoder or decoder board supporting the default protocol, decoder which does not match protocol or does not support 1 address start cannot control the pan/tilt normally.