Gebruikers Handleiding voor Netwerk Camera’s

Versie 1.1

Thank you for purchasing our product. If there is any question or request, please do not feel hesitated to contact us.

This manual may contain several technical incorrect places or printing errors, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into “Warnings” and “Cautions”

Warnings: Serious injury or death may cause if any of the warnings is neglected.

Cautions: Injury or equipment damage may cause if any of the cautions is neglected.

Warnings Follow these safeguards to prevent serious injury or death.	**Cautions** Follow these precautions to prevent potential injury or material damage.

Warnings

1. In the use of the product, you must be strict compliance with the electrical safety regulations of the nation and region.

2. Input voltage should meet both the SELV(Safety Extra Low Voltage) and the Limited Power Source with AC 24V or DC 12V according to the IEC60950 - 1 standard. Please refer to technical specifications for more details.

3. Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.

4. Please make sure that the plug is firmly inserted into the power socket.

5. When the product is installed on wall or ceiling, the device shall be firmly fixed.

6. If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

7. If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

Notice：

1. Make sure the power supply voltage is correct before using the camera.
2. Do not drop the camera or subject it to physical shock.
3. Do not touch CCD (Charge Coupled Device) modules with fingers. If cleaning is necessary, use clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period, please turn on the lens cap to protect the CCD from dirt.
4. Do not aim the camera at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of CCD at the same time.
5. The CCD may be burned out by a laser beam, so when any laser equipment is on using, make sure that the surface of CCD will not be exposed to the laser beam.
6. Do not place the camera in extremely hot, cold(the operating temperature shall be - 10℃ ~ + 60℃), dusty or damp locations, and do not expose it to high electromagnetism radiation.
7. To avoid heat accumulation, good ventilation is required for operating environment.
8. Keep the camera away from liquid while on using.
9. While on a delivery, the camera shall be packed in its original packing, or packing of the same texture.
10. Regular part replacement: a few parts (e.g. electrolytic capacitor) of the equipment shall be replaced regularly according to their average enduring time. The average time varies because of differences between operating environment and using history, so regular checking is recommended for all the users. Please contact with your dealer for more details.

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Chapter 1 Introduction

Network camera is a kind of embedded digital surveillance product that combines the features of both traditional analog camera and net DVS (Digital Video Server). Due to the embedded Linux operation system and the latest Davinci hardware platform of TI, the system operates with high scheduling efficiency. Furthermore, the firmware is burned in the flash, which makes the product small, reliable and highly stable.

1.1 Network camera Functions and Features

Functions

- DS-2CD852F、DS-2CD852MF-E、DS-2CD752F、DS-2CD752MF-E series camera Support E-PTZ function.
- DS-2CD852、DS-2CD752 series Possess of OSD (On-Screen-display) while click 95th preview points.
- DS-2CD852F、DS-2CD852MF-E、DS-2CD752F、DS-2CDMF-E series camera adopted MPEG4 video Encoding techniques.
- DS-2CD802、DS-2CD812、DS-2CD892、DS-2CD702、DS-2CD712、DS-2CD792、DS-2CD832、DS-2CD732 series support H.264 video Encoding techniques.
- Video encoding standard which provides high compact ratio and flexible processing.
- Network Function：Support the complete TCP/IP protocols, video/alarm/audio data and IE browsing.
- Heartbeat Function: The server can acquire real time operating performance of the network camera through the heartbeat function.
- Alarm：The product includes 1 channel of alarm signal input and 1 channel of alarm on/off output, and supports motion detection, video missing, mask alarm and external alarm input.
- Voice Talking：Support bidirectional voice talking and monomial voice broadcasting.
- User Management: Support multilevel right management. The administrator can create up to 15 separate users with different right levels, which highly improves the system security.
- （-E）illustration of support PoE (power over ethernet).

Compression Functions

- DS-2CD802、DS-2CD812、DS-2CD892、DS-2CD702、DS-2CD712、DS-2CD792、DS-2CD832、DS-2CD732 series camera support 1 channel video signal and 25fps in Pal(704*576) ,30fps in NTSC(704*480) real time H.264 video Encoding standard compression, which supports both variable bit rate and variable frame rate; besides, you can self-define both the video quality and its compressed bit rate.
- DS-2CD852 、 DS-2CD752 series camera Support resolutions of UXGA (1600*1200),HD720p(1280*720), SVGA(800*600), VGA(640*480), 4CIF（PAL：704*576，

NTSC：704*480），DCIF (PAL：528*384，NTSC：528*320), 2CIF（PAL：704*288，NTSC：704*240）, CIF（PAL :352*288 ,NTSC :352*240） to QCIF（PAL :176*144 ,NTSC :176*120）.

- DS-2CD802、DS-2CD812、DS-2CD892、DS-2CD702、DS-2CD712、DS-2CD792、DS-2CD832、DS-2CD732 series camera Support resolution of 4CIF（PAL :704*576 ,NTSC :704*480）, DCIF (PAL：528*384，NTSC：528*320), 2CIF（PAL：704*288，NTSC：704*240）, CIF（PAL：352*288，NTSC：352*240） QCIF（PAL：176*144，NTSC：176*120）.
- DS-2CD852F、DS-2CD852MF-E、DS-2CD752F、DS-2CD752MF-E Support OSD menu.
- Support watermark techniques.

Remote Control

- The product offers a 10M/100M self-adaptive Ethernet interface.
- Support PPPoE and DHCP protocols.
- You can set the parameters, browse real time videos or check the camera performance through software or IE, and get external alarming and store the compressed bit rate through network.
- Support remote upgrades and maintenance.
- RS-485 supports monomial transparent channel function so that clients on remote PC can control the serial devices. But DS-2CD852 and DS-2CD752 series do not support RS-485 remote control.

1.2 Applications

This camera is ideal for remote control network applications. E.g.:

- Network surveillance for ATM, bank counters, supermarkets and factories.
- Remote surveillance for nursing homes, kindergartens and schools.
- AI janitors.
- AI building/district management systems.
- Self-service systems of power plants.
- Outdoor monitoring systems for bridges, tunnels and crossroad traffic.
- Pipelining and warehouse monitoring.
- 24-hour monitoring for road traffic.
- Remote monitoring of forest and water resources.
- Surveillance for airdrome, railway station, bus stop etc.

Chapter2 Installation

2.1 Notice options

1. Please check if all the items on the package list have been included with your camera.
2. Read the following contents carefully before the installation.
3. Make sure that all the related equipment is power-off during the installation.

4. Check the power supply to prevent any damage caused by mismatching problems.
5. This product is not for any environment of high humidity or high temperature. Conditions of rain, airlessness or frequent shaking are also prohibited.
6. If the product does not operate properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. Users are responsible for any problem caused by modification or repairing without authorization.

【Notice】Power supply, lens and SD card are optional.

2.2 Panels Description

2.2.1 Side Elevation of the Camera

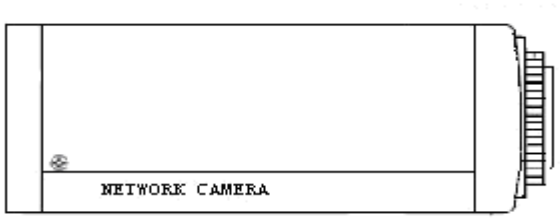
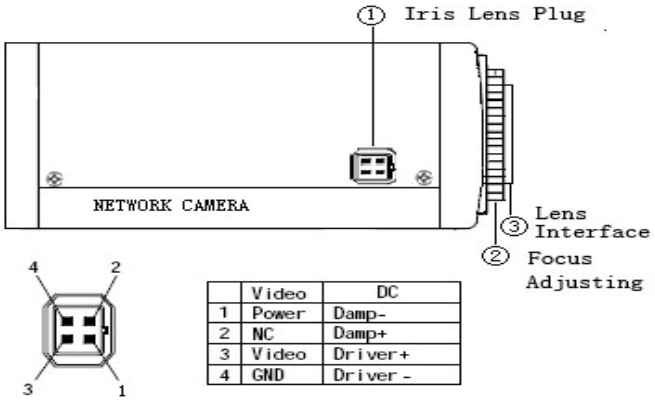


Fig 2.2.1 Side Elevation of DS-2CD832、 DS-2CD852 series



	Video	DC
1	Power	Damp-
2	NC	Damp+
3	Video	Driver+
4	GND	Driver-

Fig 2.2.2 Side Elevation of DS-2CD802、 DS-2CD812 、DS-2CD892 series

【Notice】: This camera only support manual Iris lens.

2.2.2 Rear Panel Description

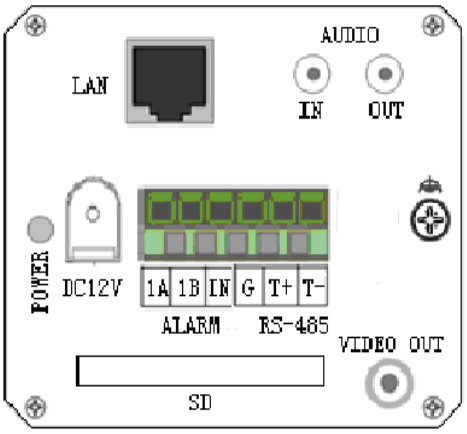


Fig. 2.2.3Rear Panel of DS-2CD832、 DS-2CD852 series

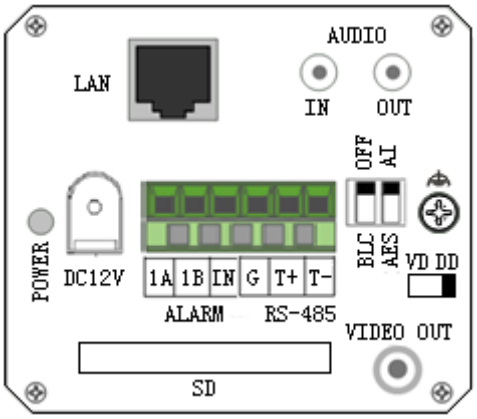
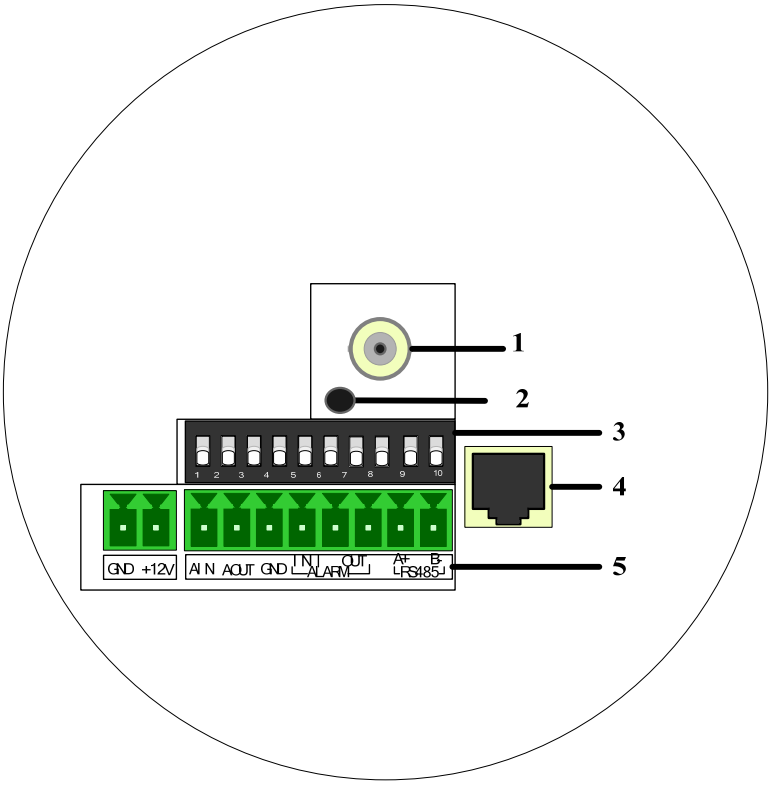


Fig. 2.2.4 Rear Panel of DS-2CD802、 DS-2CD812 、DS-2CD892 series

Rear panel interfaces descriptions (from left to right and top to bottom):

1. Standard BNC for Ethernet (UTP) RJ45 (10M/100M self-adaptive).
2. 1 channel voice talk input,3.5mm audio interface, 2.0～2.4Vp-p, 1kΩ.
3. 1 channel voice talk output, 3.5mm audio interface, electric line level, 600Ω.
4. Power lamp.
5. Power supply (DC12V). Please refer to the appendix for detailed specification, and always remember to use a matched regulator.
6. 1 channel alarm output (1A 1B). Please refer to Section 2.3.2 for pin definition. (The external series-wound power shall be under 12V DC/ 30mA.)
7. 1 channel alarm input signal.
8. RS-485 bus interface.
9. SD card slot (Support SDHC).
10. Standard BNC for 1 channel video output.



1 Anolog video output（ BNC）
2 Power lamp
3 Address& protocols dial switch
4 Internet Interface
5 Power, voice input& output, alarm input& output and RS-485

Fig. 2.2.5 Rear Panel of DS-2CD702、DS-2CD712、DS-2CD732、DS-2CD752 、DS-2CD792 series camera

2.3 Hardware Installation

2.3.1 Topological Graph of Network

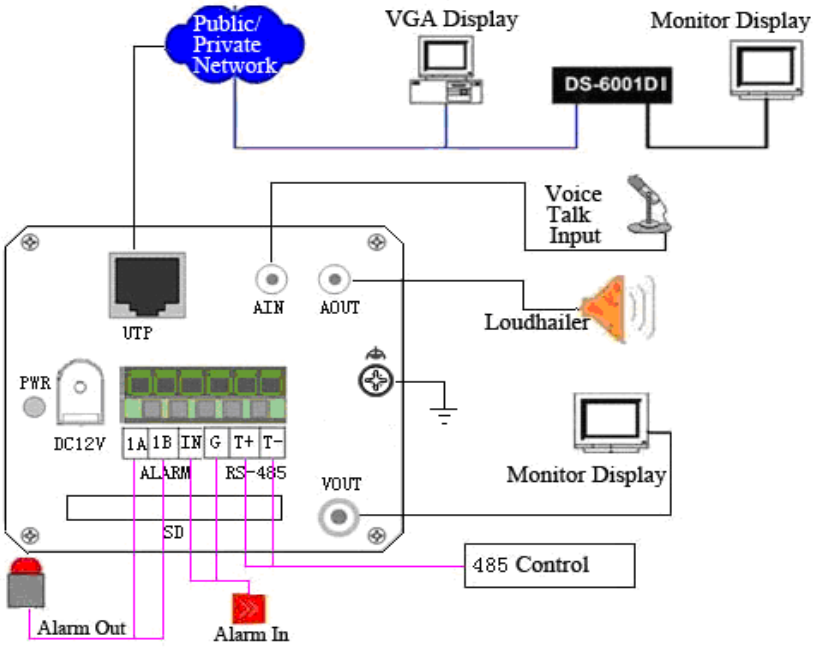


Fig.2.3.1 Topological Graph of Network camera for DS-2CD832、 DS-2CD852 series

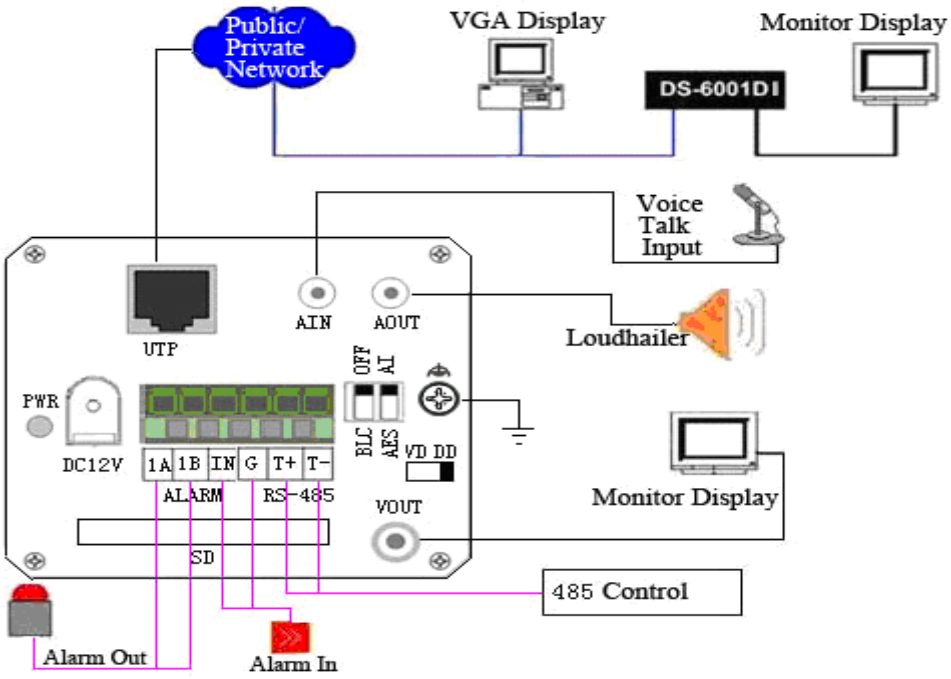


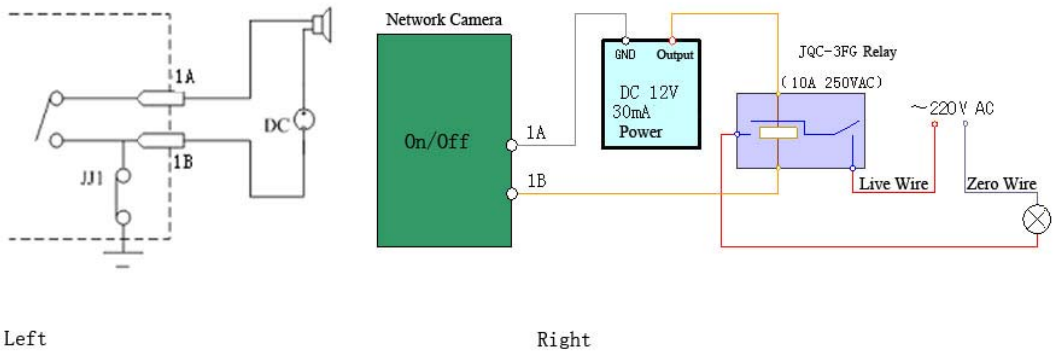
Fig.2.3.1 Topological Graph of Network camera for DS-2CD802, DS-2CD812 、DS-2CD892 series

Physical Interface	Connection
UTP Network Interface	Connect to network devices, such as switch , HUB, etc. Please refer to Appendix B for pin Definition.
Audio Input（AIN）	Connect to audio input devices such as active tone **(**2.0～2.4Vp-p, 1kΩ**)**
Audio Output （AOUT）	Connect to sounders like loudhailer.
Power Supply （DC12V）	Please refer to the appendix for specified types. Please use a matched regulator.
Alarm Output（1A 1B）	1 channel alarm out. Please refer to Section 2.3.2 for connecting instructions. (external series-wound power shall be under 12V DC / 30mA)
Alarm Input（IN G）	1 channel alarm in.
RS-485 Interface（T+ T-）	Connect to RS-485 devices like PTZ**.**

SD card slot	Insert an SD card for local storage.
Video Output (VOUT)	Standard BNC, connect to monitor.

2.3.2 Alarm Output Connection

Description of Alarm Output Connection



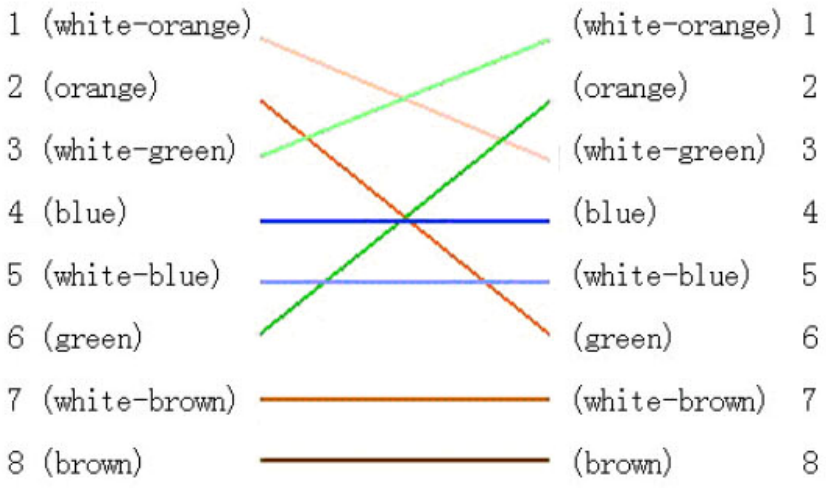
Left Right

The alarm output is an on/off output that requires external power supply on connection. The external power supply shall be 12V DC/30mA, or use AC with external relays. Equipment damage or electric shock may cause if without relays.

2.3.3 Pin Definition

（1）UTP between the network port of camera and HUB (Direct Cable)

（2）UTP between the network port of camera and PC (Cross Cable):



2.4 Installation of Client software 4.01

【Notice】Your PC adaptor shall support colorspace conversion and zooming .Adaptors like Nvidia Tnt/Tnt2、Geforce Mx 200/400/420/440 Fx5200/5600, ATI Radeon 7000/7200/7500/8500 /9000/9200 /9500/9600, MatroxG450/550 , INTEL845G/865G are already tested. Be aware of that the drive of adaptor should support BLT.

Step1: Double click “Client software (v4.01)” under Windows Operating System. The “Preparing Setup” dialog box will pop up as Fig.2.4.1 and go to Fig2.4.2 automatically.

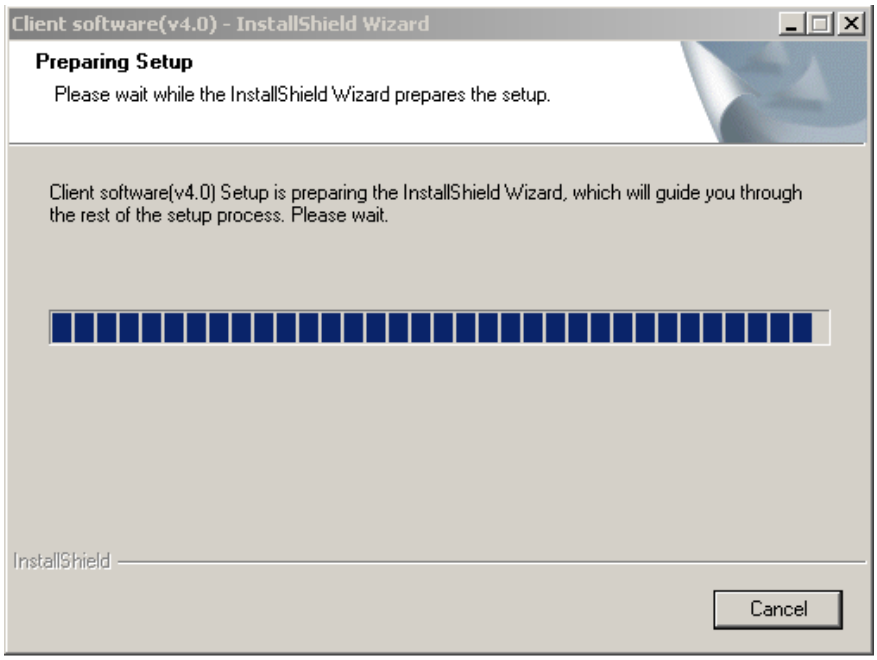


Fig.2.4.1 Client Software Installation

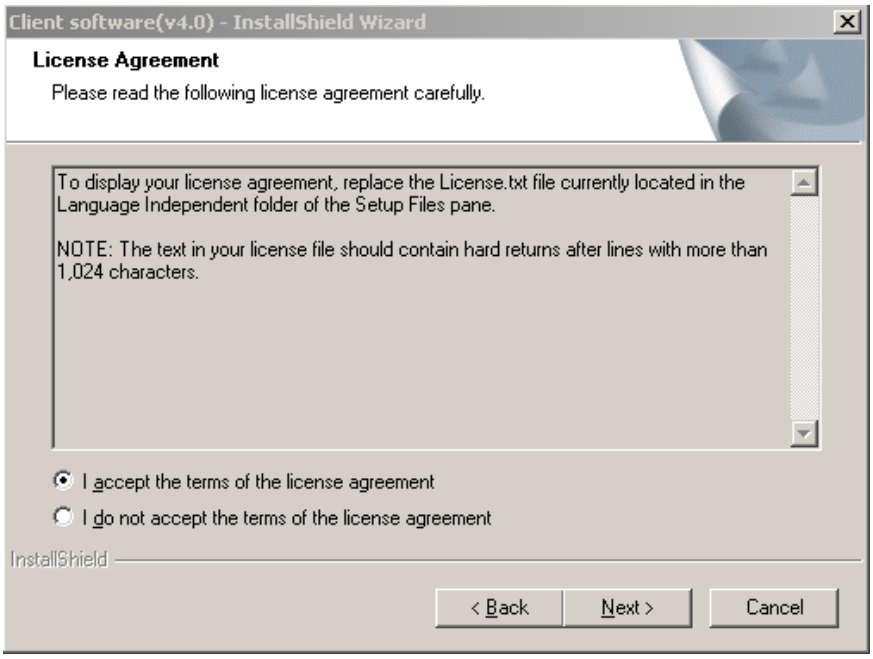


Fig.2.4.2 License Agreement

Step2: Enable the option “I accept the terms of the license agreement” and click the “Next” button to go to the next step as Fig.2.4.3.

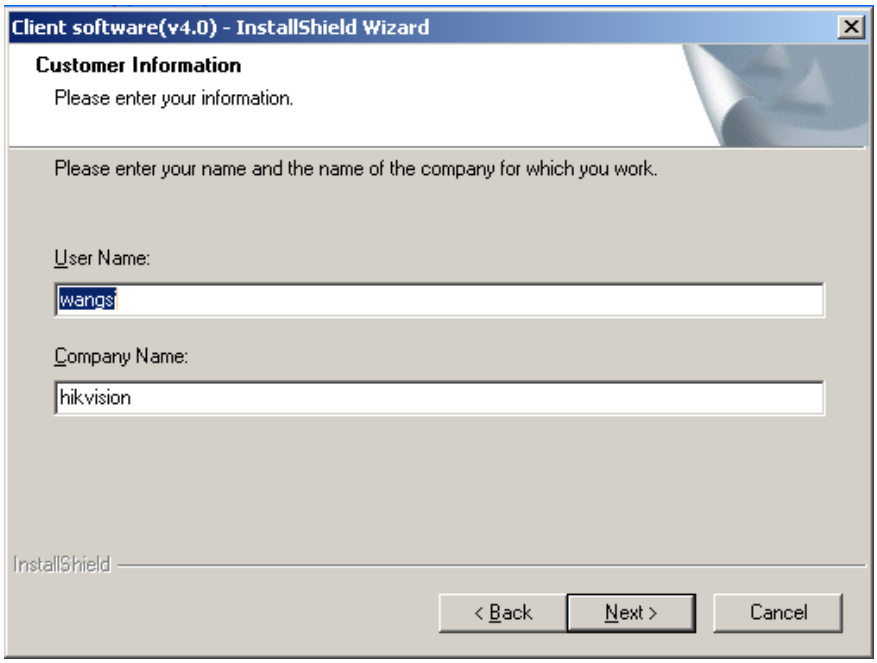


Fig.2.4.3 Customer Information

Step3: Input “User Name”, “Company Name” and click “Next” to go to the next step.

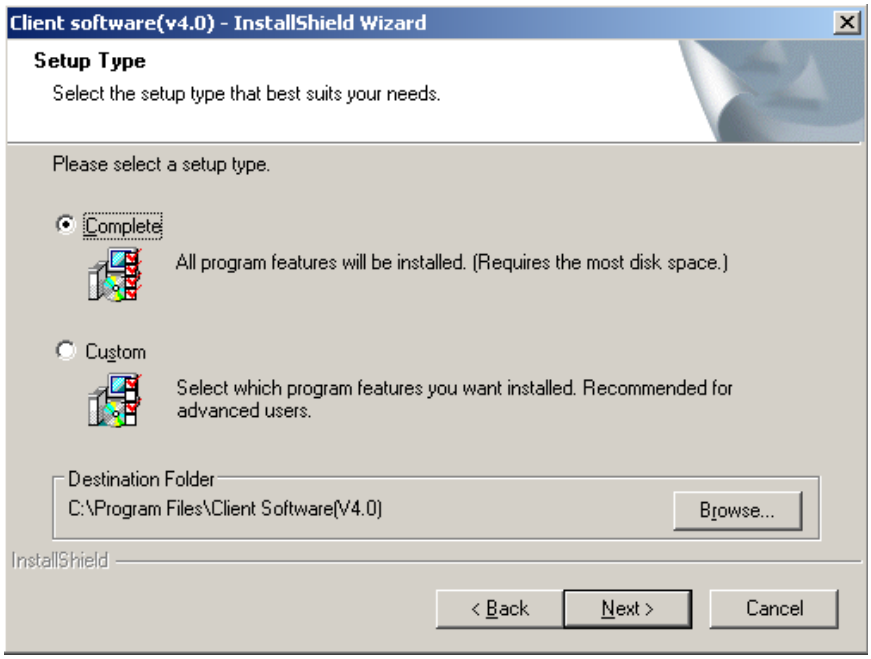


Fig.2.4.4 Destination Folder

Step4: Select the destination folder and click “Next” to go to the next step.

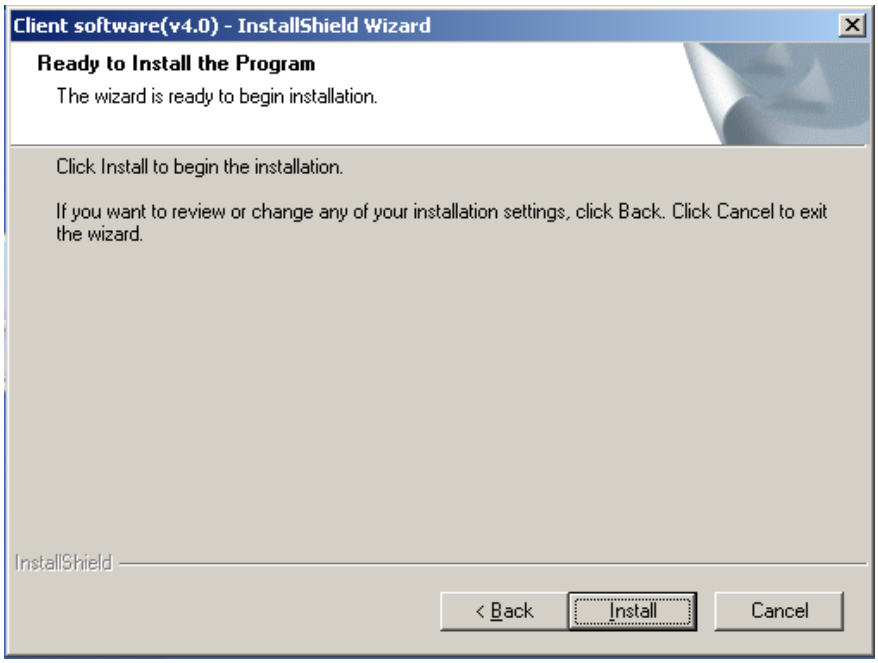


Fig2.4.5 Ready to Install the Program

Step5: Click “Install” to start installation shown as Fig2.4.6.

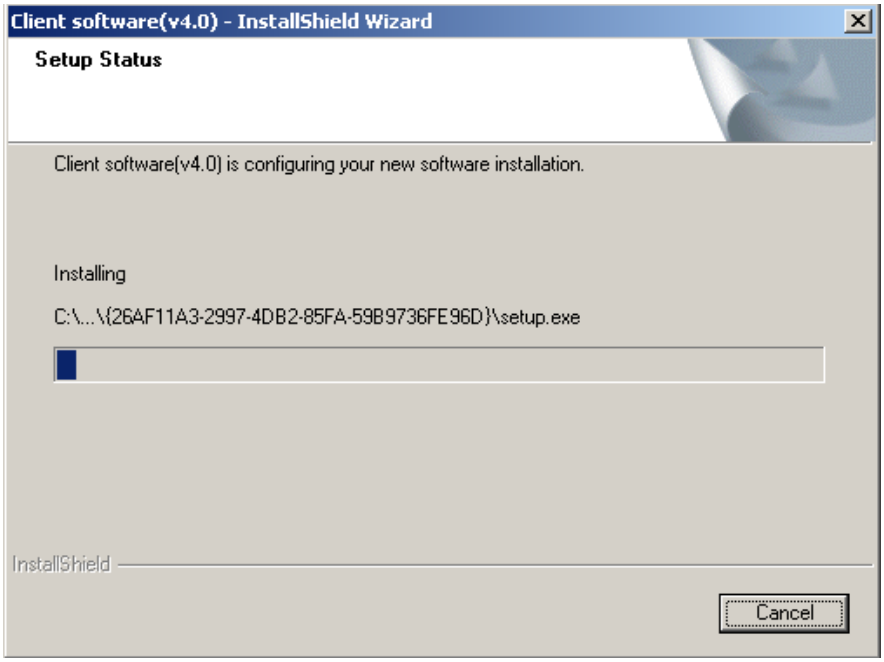


Fig2.4.6 Install Process

Step6: After finishing the installation, the installation completed dialog box will popup as Fig.2.4.7.

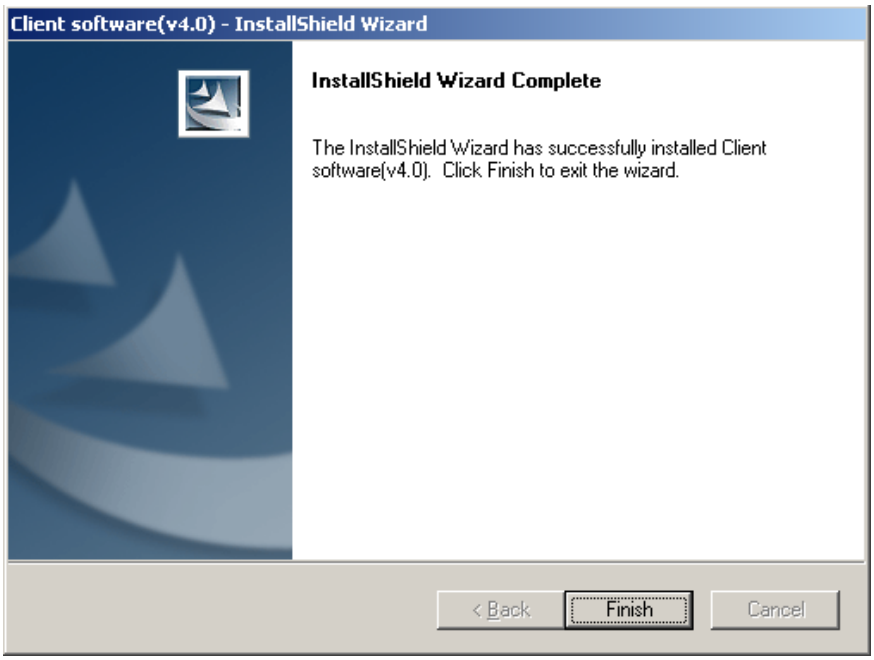


Fig2.4.7 Installation Complete

Click the “Finish” button to close the dialog box.

After the client software being installed, you can find the remote client software through “Start” -> “Program” on your PC

2.5 DS-2CD852, DS-2CD752 series camera Menu illustrate and E-PTZ operation

2.5.1 752/852 series products e-ptz function

Under the resolution of QCIF/CIF/DCIF/2CIF/VGA/D1/SVGA, support pan\tilt\zoom operation, pan and tilt operation can be carried out only after zooming in , Support 127 preset positions (95 excluded , used to invoke menu)。Cruise path supports the preset of movement from Top left-hand corner of the screen to the bottom right-hand, support manual disposition too.HD720p resolution only supports pan and tilt operation , does not support zoom operation。UXGA resolution does not support e-ptz function。

Max support frame rate：

DS2CD852F/DS2CD752F:
50Hz QCIF/CIF/2CIF/DCIF/VGA/D1/SVGA 25fps HD720p 12.5FPS UXGA 5fps
60Hz QCIF/CIF/2CIF/DCIF/VGA/D1/SVGA 30fps HD720p 10fps UXGA 5fps
DS2CD852MF/DS2CD752MF:
50Hz QCIF/CIF/2CIF/DCIF/VGA/D1/SVGA/HD720p 25FPS UXGA 12.5fps
60Hz QCIF/CIF/2CIF/DCIF/VGA/D1/SVGA 30fps HD720p 15fps UXGA 10fps

Support vlc standard media player, connected as below（default）:

Main code rate：rtsp://admin:12345@192.0.0.64

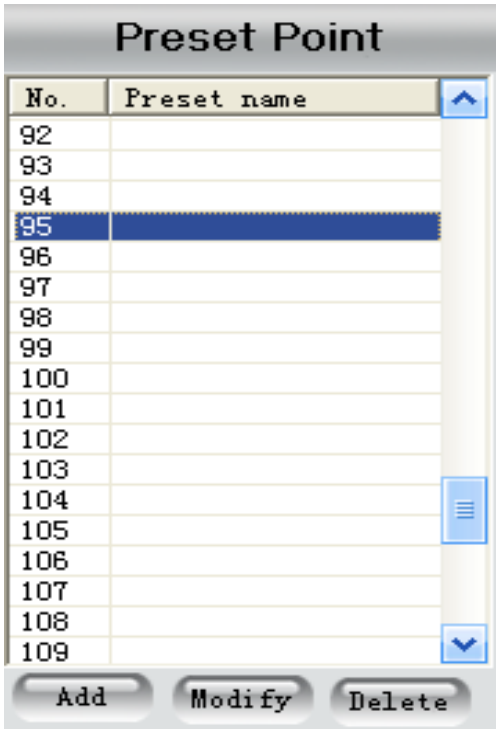
Sub code rate：rtsp://admin:12345@192.0.0.64/mpeg4/ch1/sub/av_stream

Attention: DS2CD752F/DS2CD852F will force to reboot when change the resolution to UXGA or HD720p.

2.5.2 752/852 series menu instruction

1、Display menu

Invoke Pre-set position95；Double click presetting points of “95th ”,main menu display on screen .



<MAIN MENU >

LANGUAGE	CHINESE/ENGLISH
FLICKER CONTROL	50Hz
RESOLUTION	CIF
FRAME	25fps
SHUTTER	OFF
AUTO GAIN	LOW
DAY/NIGHT	Auto
WHITE BALANCE	Auto
EFFECTS MODE	OFF
MIRROR	OFF

<EXIT> <SAVE>

Select OSD menu by PTZ control key, as follows:

※ U P ↑: Means select OSD menu item

※ DOWN↓: Means select OSD menu item

※ LEFT ← : Means select parameter on OSD

※ RIGHT→: Means select parameter on OSD

Attention：

●Parameter on OSD exception “FLICKER CONTROL”, others become effective in time

●Parameter on OSD of “RESOLUTION” and “FRAME” are only for usage of display, and can not be selected by left and right key.

2、Exit menu

“Iris + ”means『enter』, you can select “save”、“cancel” or “preset” according to the exit options.

3、Menu detailed operations

The menu selection is implemented through “up” “down” “left” “right” bottoms, you can select the menu function by “up” “down” bottoms, and the subentry of the specified function by left” “right” bottoms.

◆Language CHINESE

ENGLISH

Switch CHINESE/ENGLISH by left” “right” bottoms

◆Flicker control 50Hz

60Hz

The switch between 50Hz and 60Hz will take effect after clicking “Iris + ”.

◆Resolution

This option is used for displaying the current resolution, can't be controlled by "left" "right" bottoms.

◆Frame

This option is used for displaying the output frame rate, can't be controlled by "left" "right" bottoms.

◆Shutter OFF

AUTO×2

AUTO×5

"OFF" The regulation of shutter exposure time is default.

"AUTO×2" The regulation of shutter exposure time is considerably wider.

"AUTO×5" The regulation of shutter exposure time at its maximum.

DS2CD852MF/DS2CD752MF

	50Hz			60Hz		
Resolution	OFF	Auto×2	Auto×5	OFF	Auto×2	Auto×5
DCIF CIF QCIF 4CIF 2CIF VGA SVGA	25fps	12.5fps	5fps	30fps	15fps	5fps
UXGA	12.5fps	12.5fps	5fps	10fps	10fps	5fps
HD720p	25fps	12.5fps	5fps	15fps	15fps	5fps

DS2CD852F

	50Hz			60Hz		
Resolution	OFF	Auto×2	Auto×5	OFF	Auto×2	Auto×5
DCIF CIF QCIF 4CIF 2CIF VGA SVGA	25fps	12.5fps	5fps	30fps	15fps	5fps
UXGA	5fps	5fps	5fps	5fps	5fps	5fps
HD720p	12.5fps	12.5fps	5fps	10fps	10fps	5fps

◆AUTO GAIN OFF

LOW
MEDIUM
HIGH

You can set up different auto gain values separately in the condition of low illumination, and increase the picture brightness. This function may not only be independent employment, but also coordinate with option selections in shutter establishment, in order to achieve better low light illumination mode effect.

◆DAY/NIGHT Auto

Color
B&W

In the condition of low illumination, the auto mode has a better noise cut-down effect compared with color mode.

◆WHITE BALANCE Auto

OFF

"Auto" Enable the auto W&B of the current screen

"OFF" Based on the current W&B state，no more auto adjustment.

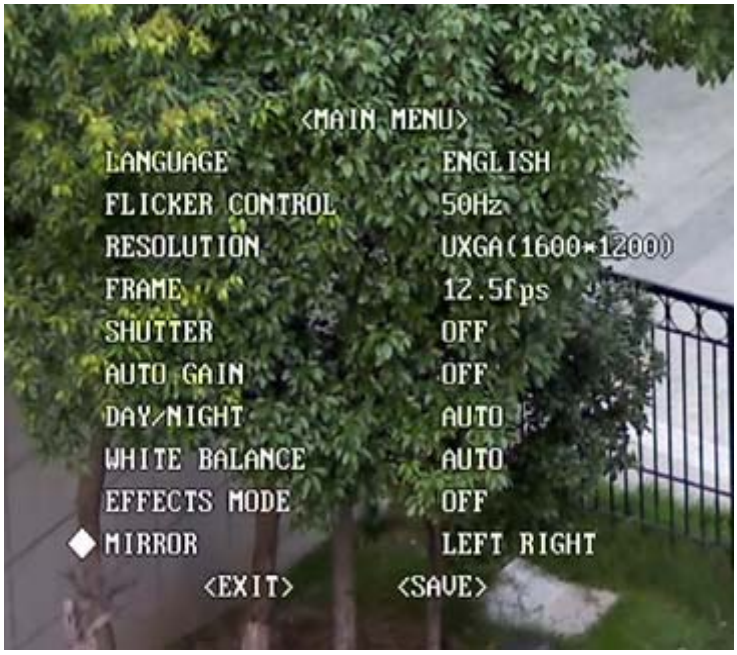
◆EFFECTS MODE OFF

SEPIA
NEGATIVE
SOLARIZE1
SOLARIZE2

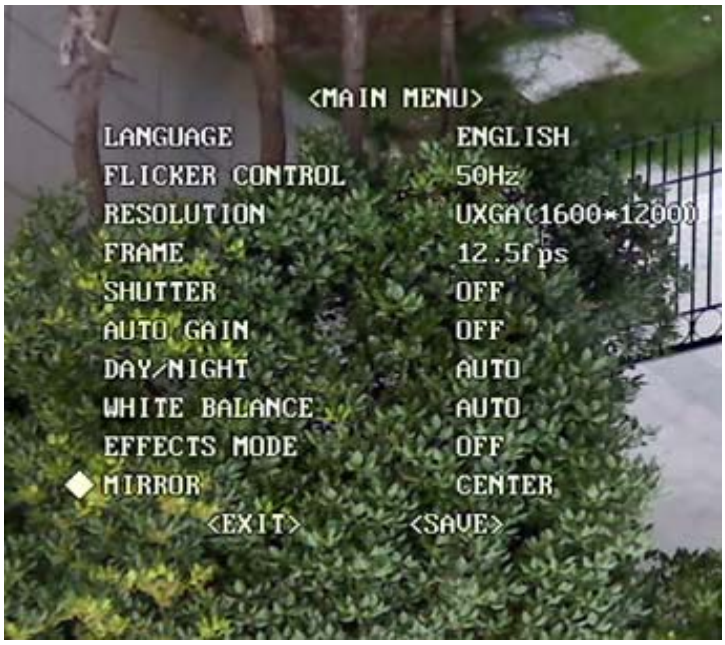
If B&W is switched to color mode，this function is compelled to be “OFF”。

◆MIRROR OFF

LEFT RIGHT
UP BOTTOM
CENTER


<MAIN MENU>
LANGUAGE ENGLISH
FLICKER CONTROL 50Hz
RESOLUTION UXGA(1600*1200)
FRAME 12.5fps
SHUTTER OFF
AUTO GAIN OFF
DAY/NIGHT AUTO
WHITE BALANCE AUTO
EFFECTS MODE OFF
MIRROR LEFT RIGHT
<EXIT> <SAVE>


<MAIN MENU>
LANGUAGE ENGLISH
FLICKER CONTROL 50Hz
RESOLUTION UXGA(1600*1200)
FRAME 12.5fps
SHUTTER OFF
AUTO GAIN OFF
DAY/NIGHT AUTO
WHITE BALANCE AUTO
EFFECTS MODE OFF
MIRROR UP BOTTOM
<EXIT> <SAVE>



◆EXIT SAVE

CANCEL

DEFAULT

This mode is employed after clicking “enter” bottom.

“SAVE” Save the current configuration

“CANCEL” Cancel with the current operations，restore to the configuration before carrying out the operations.

“DEFAULT” Restore to the default configuration

Chapter3 Parameters Configuration

There are several network parameters of the camera those need to be set after the hardware installation. Those parameters including IP address, subnet mask and port number, etc. which can be set through various kinds of methods, 2 of them are introduced as below.

1. Set the camera parameters such as IP address and PPPOE through IE.
2. Set the camera parameters through the client software.

Please make sure that the PC and network camera are connected and can ping successfully before the parameter setting. 2 different ways of connections are showed as Fig. 3.1 & Fig. 3.2.

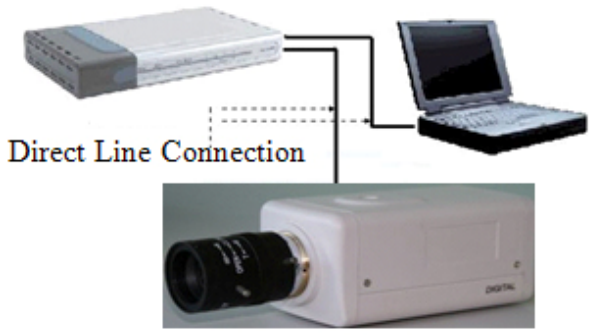


Fig.3.1

Fig.3.1 Direct Line Connection

Fig.3.2

Fig.3.2 Cross Line Connection

3.1 Set Parameters through IE

The default IP of the camera is 192.0.0.64 with 8000 as the default port, admin as the administrator, and 12345 as the password. The administrator can create up to 15 separate operators with different right levels.

To login the camera through IE, input the IP address in the address column, and the "Login" dialog box will pop-up as Fig. 3.3. Input your user name and password, and then click "Login" to enter the "preview" page. Double click the "Camera 01" channel or "Preview" button to view the menu as Figure 3.4. Right click the "Camera 01" channel, and the "Main Stream"、"Sub Stream" and "Open sound" options will popup. Select the Open sound option.

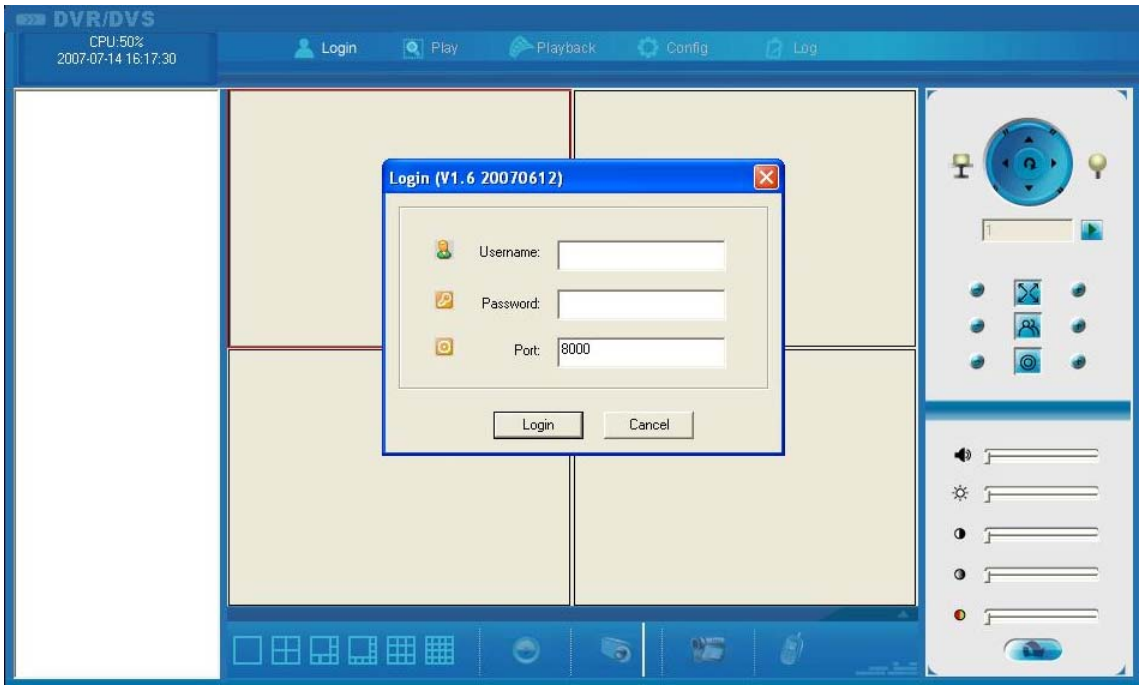


Fig. 3.3 Login Interface

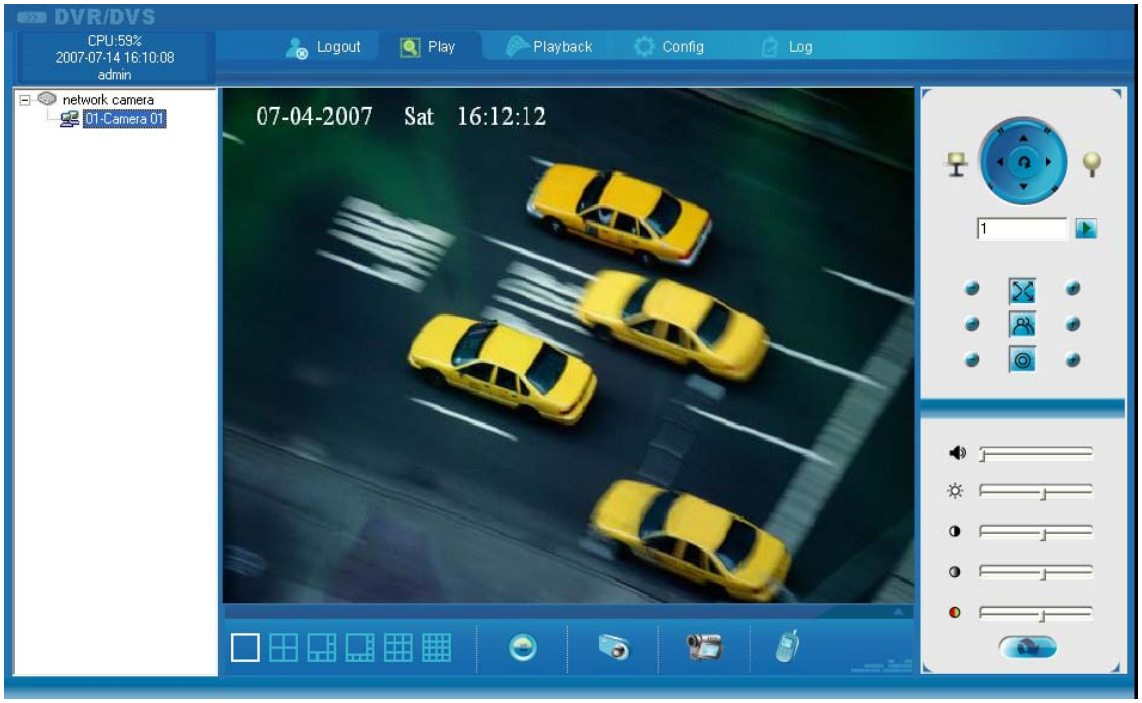


Fig. 3.4 Previewing Interface

It supports the "Playback" and "Log" functions are as Fig. 3.4. To set the camera parameters through IE browser, click "Config" and wait for the "Remote Parameters Config" dialog box to pop up, and then set the parameters like IP address, etc. if you demand as Fig. 3.5.

For more specific information of "Remote Parameters Config", please refer to "Instructions of Client Software (version 4.01)" from Section 2.5.3 of remote-distance parameter settings. Instructions can be found in the client software4.01 in the path of "Start" → "Program"→ "client software 4.01" after installation.

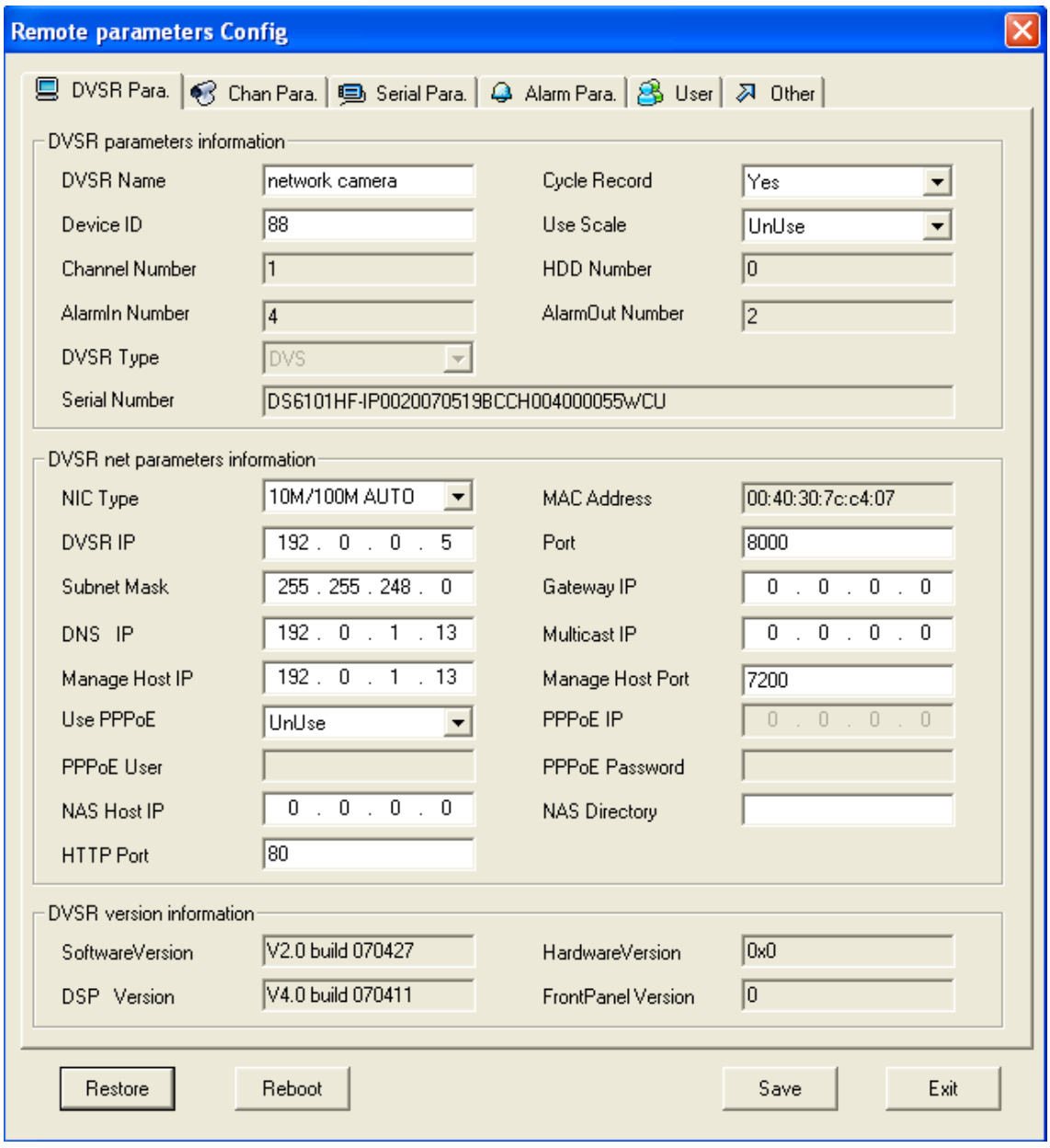


Fig. 3.5 Remote Parameters Config

【Notice】 Security level settings are necessary for browsing equipments by IE. Please open the IE browser and set the security level to "Low" in "Tools/ Internet Options/ Security/ Customize" or enable the "ActiveX Controls and Plug-Ins" directly.

3.2 Parameter Configuration through Client Software

After the installation of client software 4.01, click the "client software 4.01 "in "Start"→

“Program”→ “client software 4.01”, a message box of “Register Administrator” as Fig. 3.6 will appear then for the first time running. Password should be no less than 6 digits, but user name is optional for registration.

【Notice】 Please keep the user name and password in mind .You may not be able to get access to the software if any of them is missing.

Fig.3.6 Register Administrator

Enter the registered user name and password as Fig. 3.7. Click “Login” to enter the “Preview” menu as Fig. 3.8.

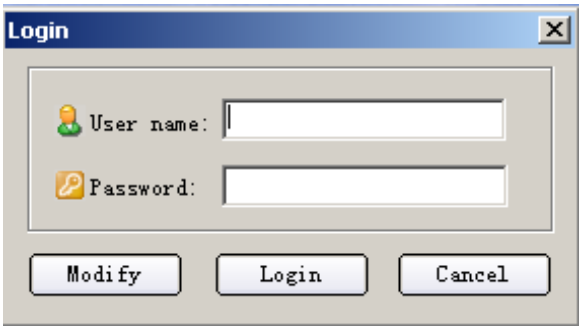


Fig. 3.7 User Login

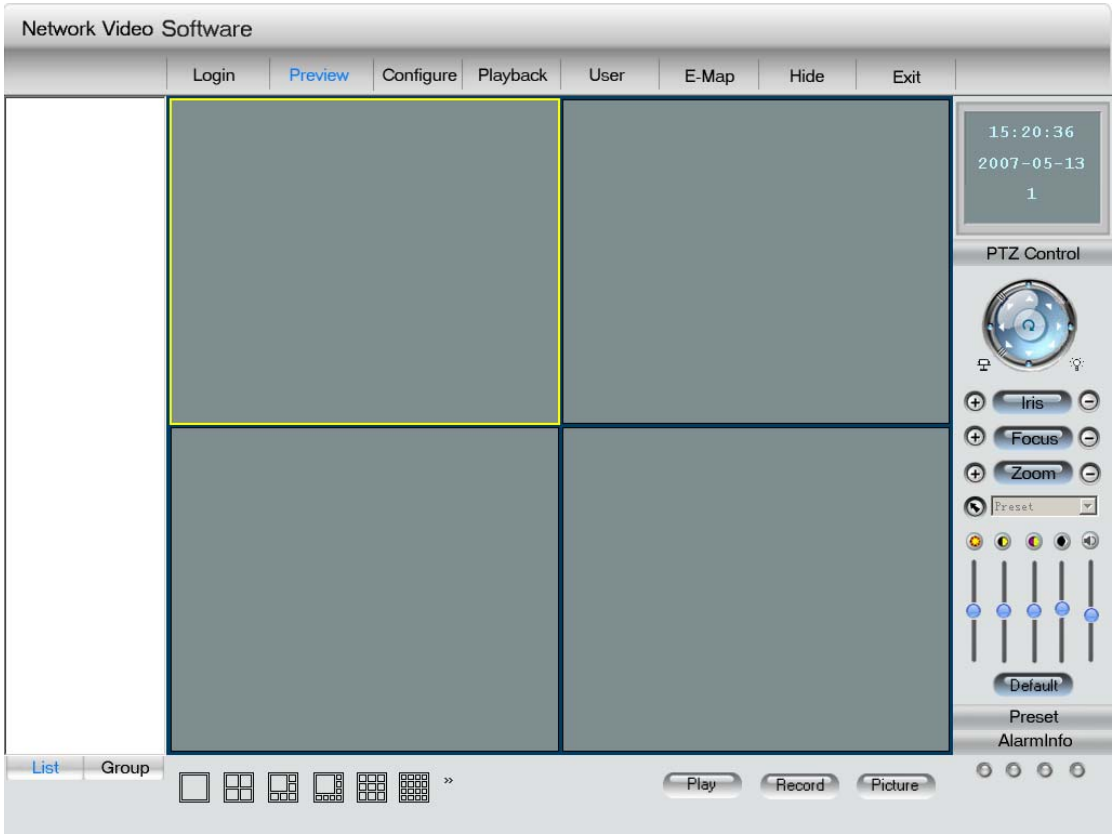


Fig. 3.8 Preview Menu

Click the “Configure” button in Fig. 3.8, and then right click the blank spaces in the middle. Click the “Create Root Node” button as Fig. 3.9, and the “Area Properties” message will pop up as fig 3.10.

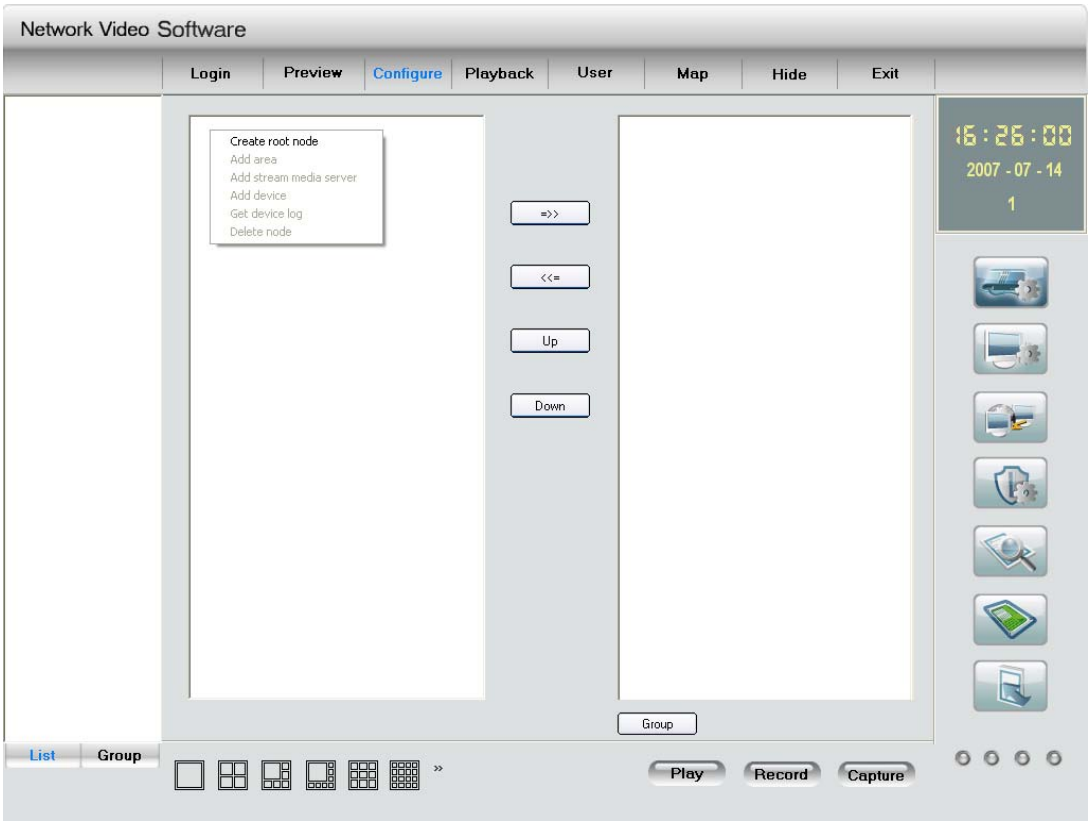


Fig. 3.9 Create Root Node

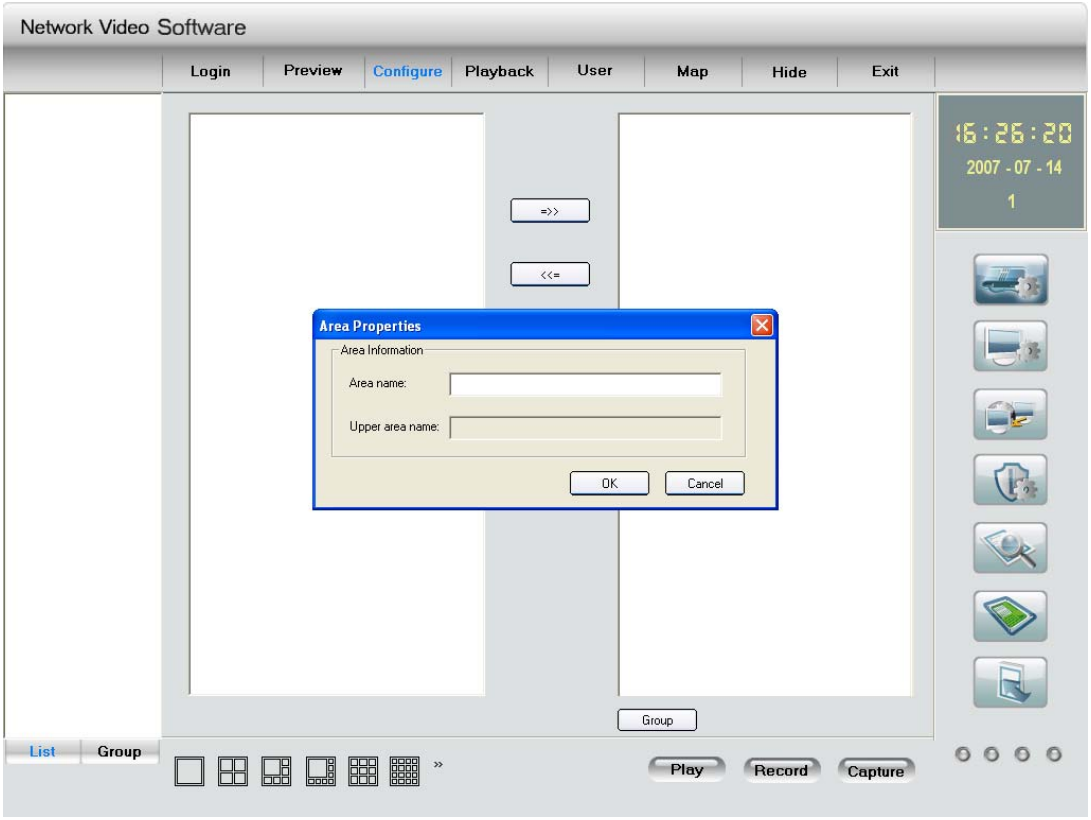


Fig. 3.10 Area Properties

Input the area name (you can create whatever name you like) and click “OK” as Fig. 3.11. Then right click the area name you have just created as Fig. 3.12.

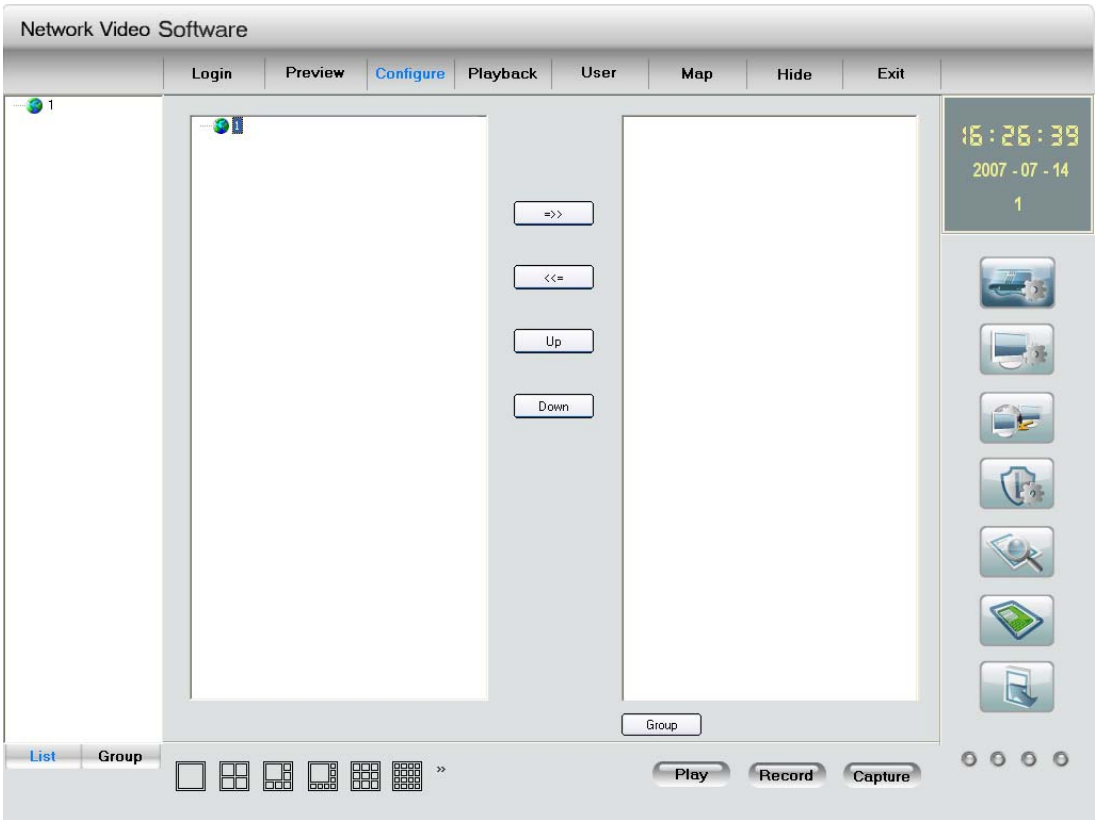


Fig. 3.11Area Name Adding Completed

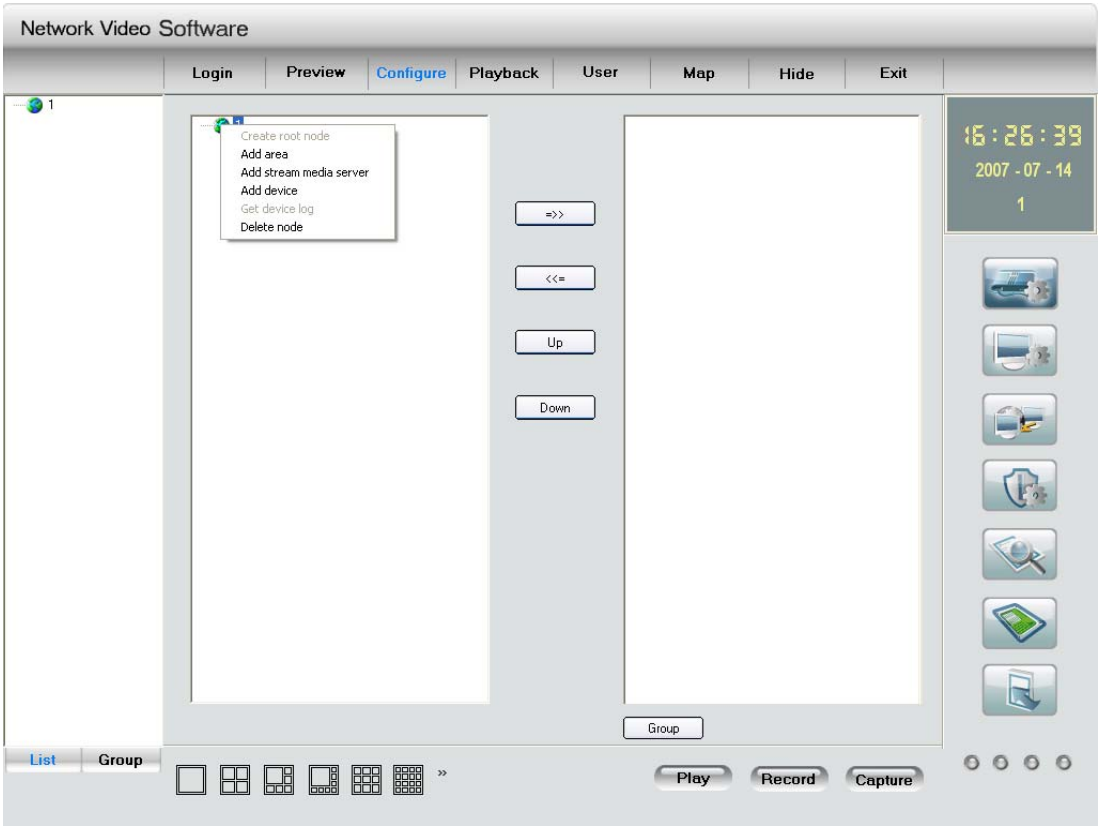


Fig. 3.12 Right Click the Area Name

Click “Add Device”, and the “Server Properties” dialog box will pop up as Fig. 3.13. Input your “Server Name” and select “HC” from the “Server Type” option. Select “Normal” from “Register” option. Input your camera IP in “Server IP”, e.g. 192.0.0.64; “User Name”: admin, “Password”: 12345, and 8000 for the default “Port”, and then modify “Channel” to 1. Click the “OK” button as Fig. 3.14.

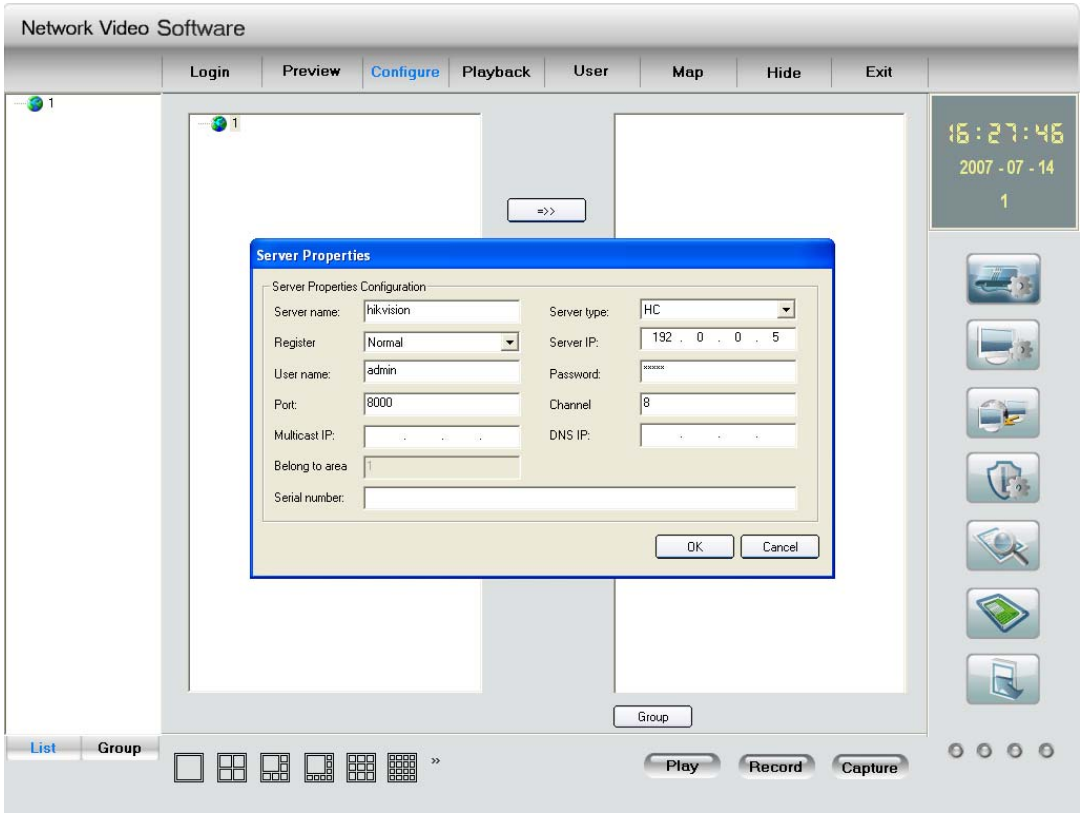


Fig. 3.13 Add Device

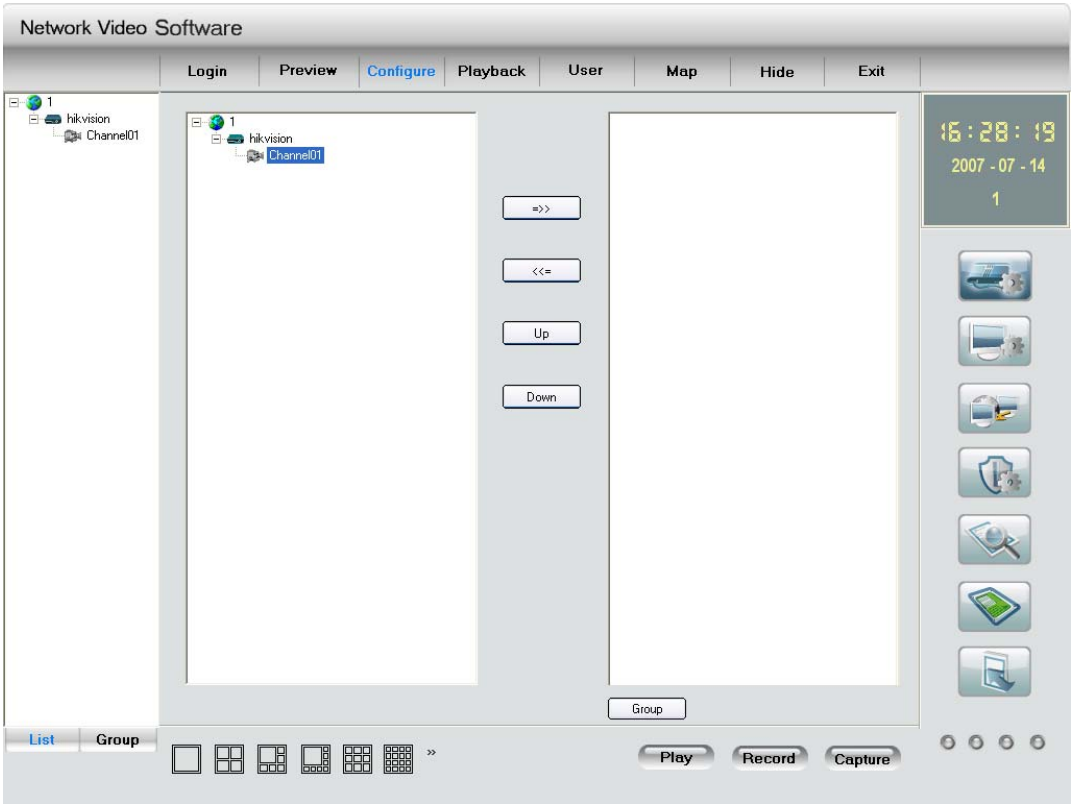


Fig.3.14 DVR Adding Completed

Click the “Preview” button in Fig. 3.14 to enter the “Preview” menu as Fig. 3.15. Double click the channel name in the left tree to preview the pictures.

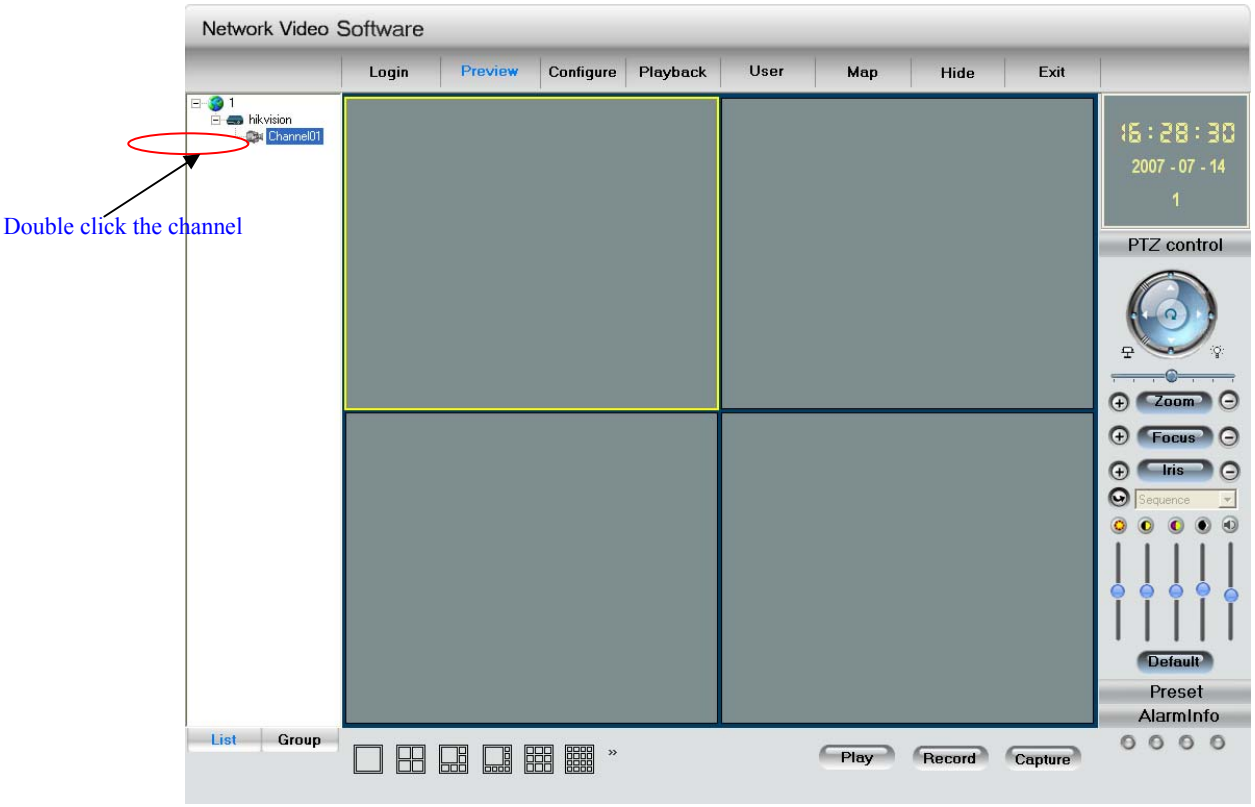


Fig.3.15 Preview Menu

Please refer to “Network Video Surveillance Software Operation Instruction (4.01)” for more detailed parameters configuration. You can find the document in PC Operating System after the installation of client software 4.01 by selecting “Start”-> “Program”-> “client software 4.01”.

Chapter4 WAN Access

The IP protocol supports WAN access based on PPPoE dial up function. Make sure that the software you are using supports the function before using these network functions.

4.1 Dial Up With PPPoE

Make sure that the user name and password of PPPoE are set correctly by the client software (refer to "User Manual of Network Digital Surveillance Software") as Fig.4.1. The camera will try to establish connection to the network with PPPoE function automatically every time when it is powered on, and get a dynamic IP address by then.

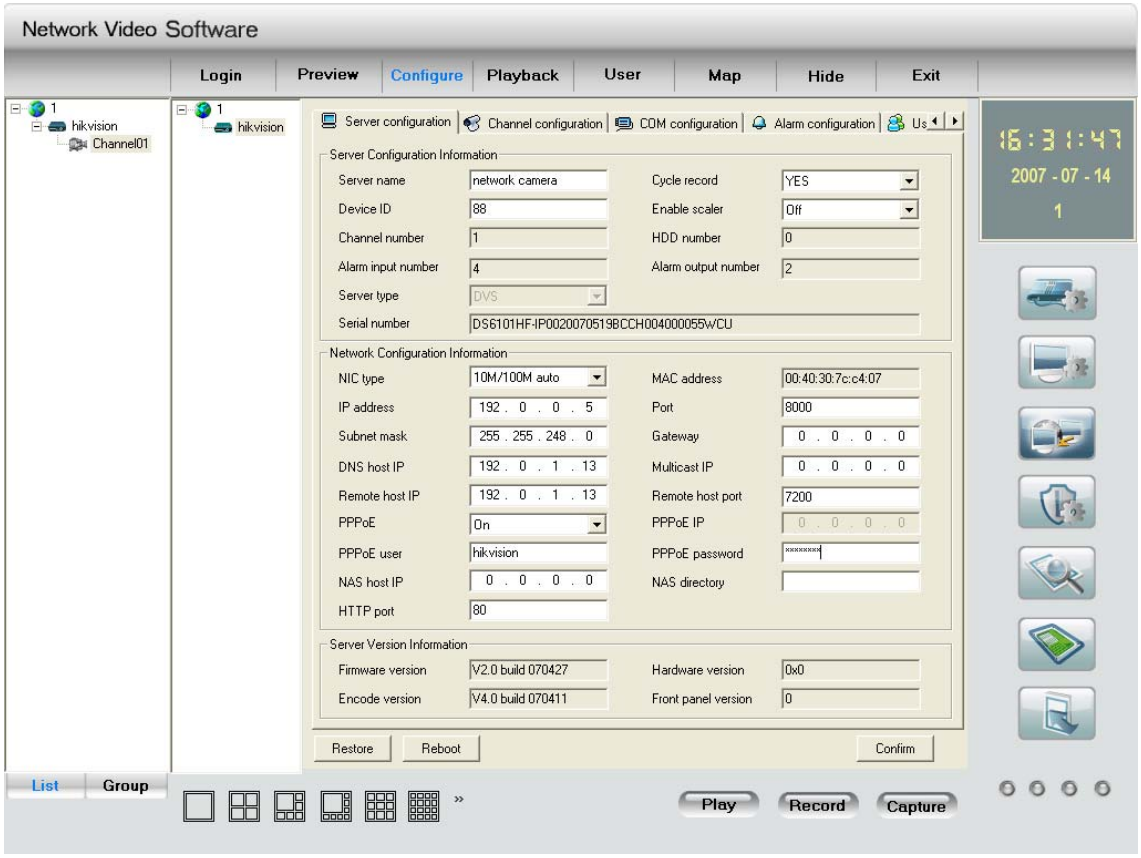


Fig.4.1 Dial Up with PPPoE

【Notice】Please make sure that the ADSL Modem is powered on .The camera needs to be restarted to establish the network connection after the configuration of PPPoE parameters for the first time. And DS-2CD852F do not support this function.

4.2 WAN Access

There are two methods to get the access, which are shown as below.

1. Get a static IP from your ISP for WAN access.

You can open some ports (such as 80 & 8000 ports) in the router which has got static IP from the ISP, and then connect them to the router. After that you can use the client software to control it. Turn to ch3.2 to find the client software operations.

Attention:DS-2CD852 and DS-2CD752 series network camera need to open RTSP port 554, other than open 80 & 8000 ports.

2. Use DNS service for WAN access.

You will need a PC connected to Internet with static IP that owns software providing DNS service at the same time(such as IP Server)(the PC is so-called DNS server).You can also register a domain

name through the DNS service dealer and visit it with the domain name.

When network camera is connected to WAN with PPPoE, it will get an IP address, and send its name and the IP to the DNS server. The client software will immediately connect to the PC that used as the DNS server to tell it that network camera is waiting for access. Then the server will search for all the registered network cameras, and match the camera with this IP. When the IP address is returned, the client software will connect to the network camera to get the video.

Operations: Run the client software 4.01, select “Configure”→ “Server Configuration” select network camera.

In the right tree, input “Server Name” & “DNS Host IP” in the “Server Configuration” box as Fig 4.1, and click “Confirm”. Select “Configure”-> “Device Management”, double click the network camera name you just added, the “server attribute” message box will pop up as Fig. 4.2. Make sure that the “sever name” is consist with the sever name in “remote config”; and select “private DNS” in “register mode”; then input the IP address of DNS server in “DNS address”, click “Confirm”. Then you can preview the picture in the “preview” menu.

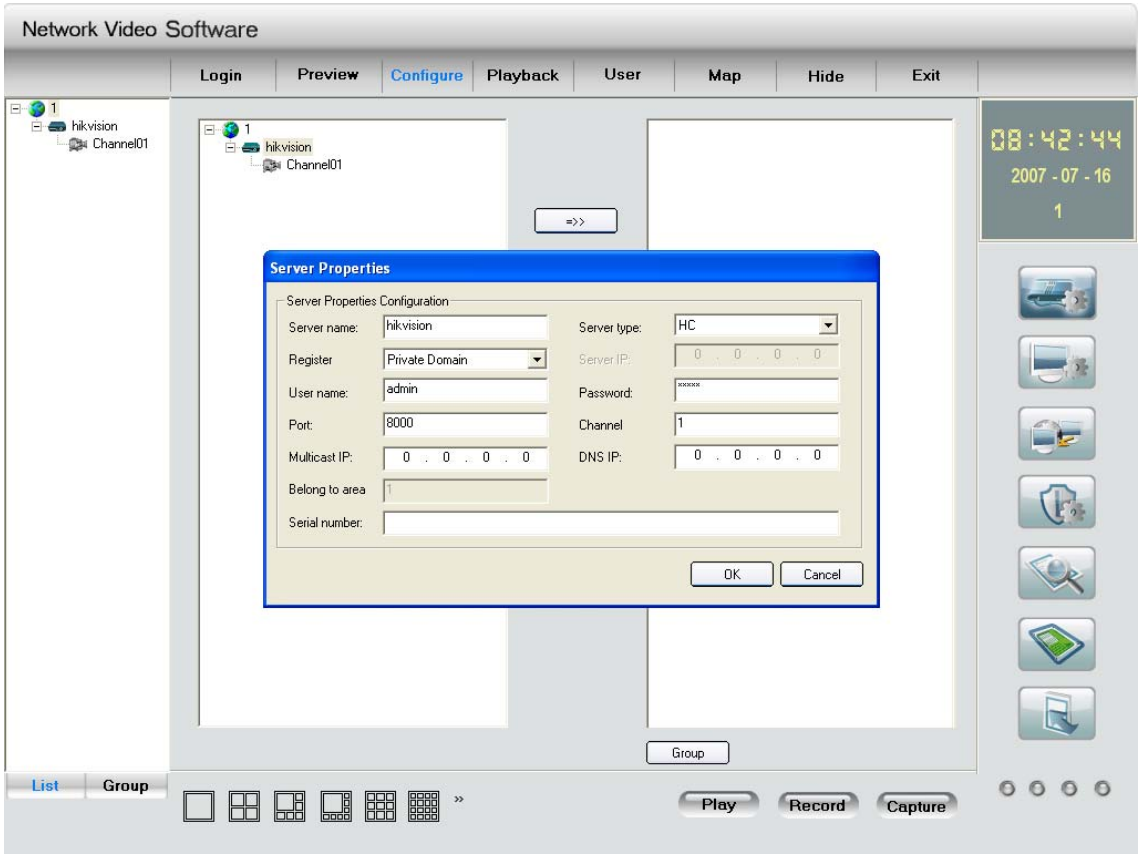


Fig.4.2 DNS Server

Q&A

1、Time showing incorrectness:

Use client 4.01 to correct the time by selecting “configure”→“local configure”→“Hard disk recorder timing”

2、IP unknowing：

Connect the camera and PC with the same hub , turn on the camera and run the “SADP Search Software” on PC to get the IP of the connected camera. You can get the SADP from your dealer.

3、Administrator password missing:

Please contact your dealer.

Please contact your dealer if any of the above information cannot meet your demand.

If any of the above information cannot meet your demands, please contact your dealer.

Appendix Technology Specification

Table 1

Type / Para	DS-2CD802PF/NF	DS-2CD812PF/NF	DS-2CD892PF/NF
Camera			
Sensor	1/3"SONY Super HAD CCD		
Pixel number	PAL: 500(H)×582(V) NTSC:510(H)×492(V)	PAL: 752(H)×582(V) NTSC:768(H)×494(V)	PAL: 752(H)×582(V) NTSC:768(H)×494(V)
Lens mount	C/CS mount		
Video standard	PAL/NTSC		
Electronic shutter	1/50 (1/60) sec ~ 1/100,000 sec		
Minimum illumination	0.1Lux @ F1.2		
Auto Iris	DC/Video		
Lens	Optional		
Signal-Noise ratio	>48dB		
Video output	420 TVL,1.0Vpp Composite Output	480 TVL,1.0Vpp Composite Output	540 TVL,1.0Vpp Composite Output
Compression Standard			
Video compression	H.264		
Video output	32 K~2M adjustable (8Mbps maximum)		
Audio compression	OggVorbis		
Image			
Resolution	PAL:704×576,528×384,704×288,352×288,176×144		

	NTSC:704×480,528×320,704×240,352×240,176×120
Frame rate	25fps/PAL or 30fps/NTSC
Functions	
Motion detect	Support
Dual stream	Support
SD card local recording	(-F) illustration of support SD card recording
Heartbeat	Support
Password protect	Support
Protocols	TCP/IP, HTTP, RTP, RTCP, ARP, ICMP, PPPOE, DHCP, FTP, UDP, DNS, DDNS, SMTP, NTP, Static IP
Interface	
Voice talk input	1channel 3.5mm audio interface (2.0~2.4Vp-p,1kΩ)
Audio output	1channel 3.5mm audio interface (600Ω)
Communication interface	1 RJ45 10M/100M self-adapted Ethernet port and one RS-485 interface
Alarm input	1 channel signal input
Alarm output	1 channel on-off output
Others	
Working temperature	-10°C ~ 60°C
Power supply	DC12V±10%
Power consumption	5W MAX
Dimensions(mm)	65×67×122
Weight	650g

Notice: (-E)illustration of support PoE (power over ethernet)

-W illustration of support wireless

Table 2

Type / Para	DS-2CD832F	DS-2CD852F
Camera		
Sensor	1/4 inch CMOS	1/3 inch CMOS
Pixel number	640(H)×480(V)	1600(H)×1200(V)
Lens mount	C/CS mount	
Minimum illumination	0.4 Lux/F1.2	0.5Lux/F1.2 0.1Lux/F1.2，sensitizationX5
Auto Iris	-----	
Compression Standard		
Video compression	H.264	MPEG-4
Video output	32 K~2M adjustable (8Mbps maximum)	
Audio compression	OggVorbis	
Image		
Resolution	PAL: 704×576, 528×384, 704×288, 352×288, 176×144	50Hz: 1600×1200,1280×720,800×600,704×576, 640×480,528×384,704×288,352×288,176 ×144 60Hz: 1600×1200,1280×720,800×600,704×480,

		640×480,528×320,704×240,352×240,176×120
Frame rate	25fps/PAL or 30fps/NTSC	25fps(704x576),30fps(704x480) 12.5 fps(1280x720) 5 fps (1600x1200)
Functions		
E-PTZ	No support	Support
Motion detect	Support	
Dual stream	Support	
SD card local recording	(-F) illustration of support SD card recording	
Heartbeat	Support	
Password protect	Support	
Protocols	TCP/IP,HTTP,RTP,RTCP,ARP,ICMP,PPPOE,DHCP,FTP,UDP,DNS,DDNS,SMTP,NTP,Static IP	
Interface		
Voice talk input	1channel 3.5mm audio interface (2.0~2.4Vp-p,1kΩ)	
Audio output	1channel 3.5mm audio interface (600Ω)	
Communication interface	1 RJ45 10M/100M self-adapted Ethernet port and one RS-485 interface	
Alarm input	1 channel signal input	
Alarm output	1 channel on-off output	
Others		
Working temperature	-10°C ~ 60°C	

Power supply	DC12V±10%
Power consumption	3W MAX
Dimensions(mm)	65×67×115
Weight	650g

Notice: (-E)illustration of support PoE (power over ethernet)

-W illustration of support wireless

Table 3

Parameter / Type	DS-2CD852MF	DS-2CD862PF/NF
Camera		
Sensor	1/3 inch CMOS	1/3"SONY progressive scan CCD
Pixel number	1600(H)x 1200(V)	1280(H)x 960(V),1.3M CCD
Minimum illumination	0.5Lux/F1.2 0.1Lux/F1.2,sensitization X5	0.1Lux @ F1.2
Lens	Optional	
Lens mount	C/CS mount	
Video analog output	Support	
Compression Standard		
Video compression	MPEG-4	
Video output	32 K ~ 2M,adjustable(8Mbps maximum)	
Audio compression	OggVorbis	
Image		
Resolution	50Hz:	1280x960,1280x720,640x480,320x240

	1600x1200,1280x720,800x600, 704x576,640x480,528x384,704x288, 352x288,176x144 60Hz: 1600x1200,1280x720,800x600, 704x480,640x480,528x320,704x240, 352x240,176x120	
Frame rate	25fps(704x576),30fps(704x480) 25fps(1280x720) 12.5fps(1600x1200)	PAL :12.5fps(1280 x 960),25fps(1280x720) NTSC:15fps(1280 x 960),30fps(1280x720)
Functions		
Electronic PTZ	Support	
Motion detect	Support	
Dual stream	Support	
SD card local recording	Support	
Heart beat	Support	
Password protect	Support	
Protocols	TCP/IP,HTTP,RTP,RTCP,ARP,ICMP,PPPOE,DHCP,FTP,UDP,DNS,DDNS,SMTP,NTP ,Static IP,RTSP	
Interface		
Voice talk input	1 channel 3.5mm audio interface(2.0 ~ 2.4Vp-p,1kΩ)	
Voice output	1 channel 3.5mm audio interface(600Ω)	
Communication	1 RJ45 10M/100M self-adapted Ethernet port and,1 RS - 485 interface	

Alarm input	1 channel signal input	
Alarm output	1 channel signal on-off output	
Others		
Working temperature	- 10℃-60℃	
Power supply	AC24V±10%/DC12V±10%	
Power consumption	4W MAX	
Dimensions (mm)	69x63x127.5	63 x 59 x 114
Weight	600g	650g

Notice: (-E)illustration of support PoE (power over ethernet)

-W illustration of support wireless

Para / Type	DS-2CD702PF/NF	DS-2CD712PF/NF	DS-2CD792PF/NF
Sensor	1/3"SONY Super HAD CCD		
Pixel number	PAL:500(H)x582(V) NTSC:510(H)x 492(V)	PAL:752(H)x 582(V) NTSC:768(H)x 494(V)	PAL:752(H)x 582(V) NTSC:768(H)x 494(V)
lens	3.5--9mm/F1.2/Φ14/manual Iris lens		
Video standard	PAL/NTSC		
Electronic shutter	1/50(1/60)S--1/100,000S		
Minimum illumination	0.1Lux @ F1.2		

Signal-Noise ratio	>48dB		
Video analog output	420 TVL	480 TVL	540 TVL
Video compression	H.264		
Video output	32 K ~ 2M,adjustable(8Mbps,maximum)		
Audio compression	OggVorbis		
Resolution	PAL:704x576,528x384,704x288,352x288,176x144 NTSC:704x480,528x320,704x240,352x240,176x120		
Frame rate	25fps(704x576),30fps(704x480)		
Motion detect	Support		
Dual stream	Support		
SD card local recording	(-F) illustration of support SD card recording		
Heart beat	Support		
Password protect	Support		
Protocols	TCP/IP,HTTP,RTP,RTCP,ARP,ICMP,PPPOE,DHCP,FTP,UDP,DNS,DDNS,SMTP,NTP,Static IP		
Three axis adjust	Support		
Voice talk input	1channel 3.5mm audio interface(2.0 ~ 2.4Vp-p,1kΩ)		
Voice output	1 channel 3.5mm audio interface(600Ω)		
Communication	1 RJ45 10M/100M self-adapted Ethernet port and，one RS - 485 interface		
Alarm input	1 channel signal input		
Alarm output	1 channel on-off output		
Working temperature	- 10℃-60℃		
Power supply	DC12V±10%/(-E)illustration of support PoE (power over ethernet).		

Power consumption	4W MAX
Dimensions (mm)	φ145x159.8
Weight	900g

Notice: (-E)illustration of support PoE (power over ethernet)

-W illustration of support wireless

Para / Type	DS-2CD732F(-E)
Camera	
Sensor	1/4 inch CMOS
Pixel number	640(H)x 480(V)
Lens	3.5--9mm/F1.2/Φ14/manual
Minimum illumination	0.4Lux/F1.2
Video analog output	1.0Vp-p Composite Output(75Ω/BNC)
Compression Standard	
Video compression	H.264
Video output	32 K～2M，adjustable(8Mbps maximum)
Audio compression	OggVorbis
Image	
Resolution	PAL:704x576,640x480,528x384,704x288,352x288,176x144
Frame rate	25fps(704x576) 30fps(404x480)
Functions	
Motion detect	support
Dual stream	support

SD card local recording	support
Heart beat	support
Password protect	support
Protocols	TCP/IP,HTTP,RTP,RTCP,ARP,ICMP,PPPOE,DHCP,FTP,UDP,DNS,DDNS,SMTP,NTP,Static IP
Interface	
Voice talk input	1channel(2.0～2.4Vp-p,1kΩ)
Voice output	1channel (600Ω)
Communication	1 RJ45 10M/100M self-adapted Ethernet port and,1 RS - 485 interface
Alarm input	1 channel signal input
Alarm output	1 channel signal on-off output
Others	
Working temperature	- 10℃-60℃
Power supply	DC12V±10%
Power consumption	3W MAX
Dimensions (mm)	φ145x159.8
Weight	900g

Notice: (-E)illustration of support PoE (power over ethernet)

-W illustration of support wireless

Type / Para	DS-2CD752MF-FB(H)	DS-2CD762MF-FB(H)
Camera		

Sensor	1/3 inch CMOS	1/3"SONY progressive scan CCD
Pixel number	1600(H)x 1200(V)	1280(H)x 960(V),1.3M CCD
Minimum illumination	0.5Lux/F1.2 0.1Lux/F1.2,sensitization X5	0.1Lux @ F1.2
Lens	2.8--11mm,F1.4 manual Iris lens	2.8--11mm,F1.4 manual Iris lens
Compression standard		
Video compression	MPEG-4	MPEG-4
Video output	32 ~ 2M,adjustable(8Mbps maximum)	32K ~ 2M,adjustable(8Mbps maximum)
Voice compression	OggVorbis	OggVorbis
Image		
Resolution	50Hz: 1600x1200,1280x720,800x600, 704x576,640x480,528x384,704x288,352x288,176x144 60Hz: 1600x1200,1280x720,800x600,704x480,640x480,528x320,704x240,352 x240,176x120	1280x960,1280x720,640x480,320x240
Frame rate	25fps(704x576) 30fps(704x480) 25fps(1280x720) 12.5fps(1600x1200)	PAL:12.5fps(1280x 960),25fps(1280x720), NTSC:15fps(1280x960),30fps(1280x720),
Function		

E-PTZ	Support	Support
Motion detect	Support	Support
Dual stream	Support	Support
SD card local recording	Support	Support
Heart beat	Support	Support
Password protect	Support	Support
Protocols	TCP/IP,HTTP,RTP,RTCP, ARP,ICMP,PPPOE,DHCP,FTP,UDP,DNS,DDNS,SMTP,NTP,Static IP,RTSP	TCP/IP,HTTP,RTP,RTCP, ARP,ICMP,PPPOE,DHCP,FTP,UDP,DNS,DDNS,SMTP,NTP,Static IP,RTSP
Interface		
Voice talk input	1 channel 3.5mm audio interface(2.0～2.4Vp-p,1kΩ)	
Voice output	1channel (600Ω)	
Communication	1 RJ45 10M/100M self-adapted Ethernet port and,1 RS - 485 interface	
Alarm input	1 channel signal input	
Alarm output	1 channel signal on-off output	
Others		
Working temperature	- 10℃-60℃(”H”series support - 40℃-60℃)	
Power supply	AC24V±10%/DC12V±10%/(-E)illustration of support PoE (power over ethernet)	
Power consumption	4W MAX(14W MAX open heat up)	
Power assistant heat up/Scatter	“H” series support	

heat		
Safety grade	IEC60068-275Eh,50J;EN50102, over IK10	IEC60068-275,Eh,50J;EN50102,over IK10
Dimension(mm)	φ157.5x130.4	φ157.5x130.4
Weight	1400g	1400g