XtendLan

XL-ICA-105M2

2.0 MegaPixel IP Camera

User's Guide

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$-10^{\circ}C \sim +60^{\circ}C$), 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

☐

☐   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

☐

☐   XL-ICA-105M2 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）.

☐   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.

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

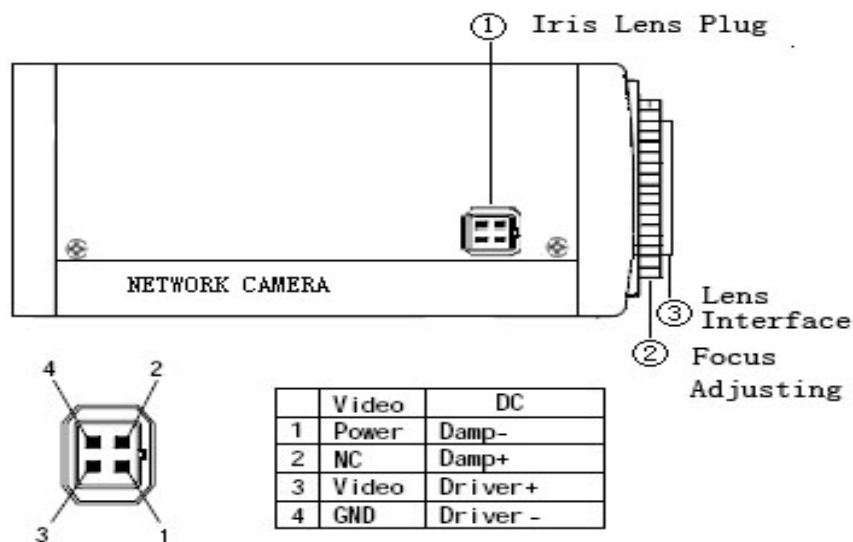|	Video	DC
1	Power	Damp-
2	NC	Damp+
3	Video	Driver+
4	GND	Driver -

Fig 2.2.3 Side Elevation of XL-ICA-105M2 series camera

【Notice】:The mark of and illustration of support automatic switching color to white&black、 e-PTZ 、 progressive scan and 200 million Pixels.

【Notice】:The mark of and illustration of support automatic switching color to white&black、 progressive scan and 130 million Pixels.

2.2.2 Rear Panel Description

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

1. Standard 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, 3.5 mm 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(IN,G).
8. RS-485 bus interface（T＋ T-）.
9. SD card slot (Support SDHC).
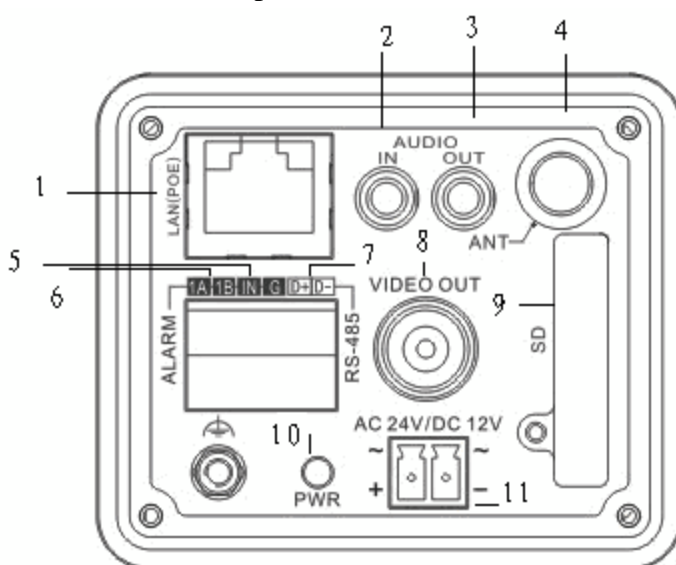10. Standard BNC for 1 channel video output.

Fig. 2.2.6 Rear Panel of XL-ICA-105M2 camera

1. Standard 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. ANT interface, it is use for install antenna slot.
5. 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.)
6. 1 channel alarm input signal.
7. RS-485 bus interface（T＋ T-）.
8. Standard BNC for 1 channel video output.
9. SD card slot(Support SDHC)
10. Power supply indicate lamp.
11. Power supply interface of AC24 V and DC12V.

Address& protocols dial switch, define for dial switch: , from 1 to 5 dial switch function as follows:

switch function	ON	OFF
1	SHARP	SOFT
2	AES	AI
3	BLC	OFF
4	FL	ON
5	NAGC	SAGC

2.3.1 Topological Graph of Network
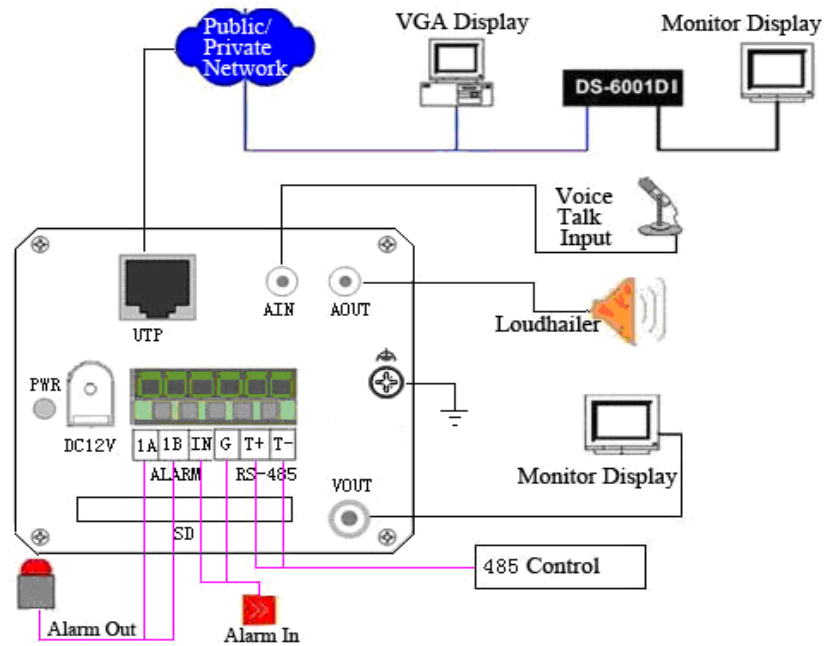
Fig.2.3.1 Topological Graph of Network camera for XL-ICA-105M2
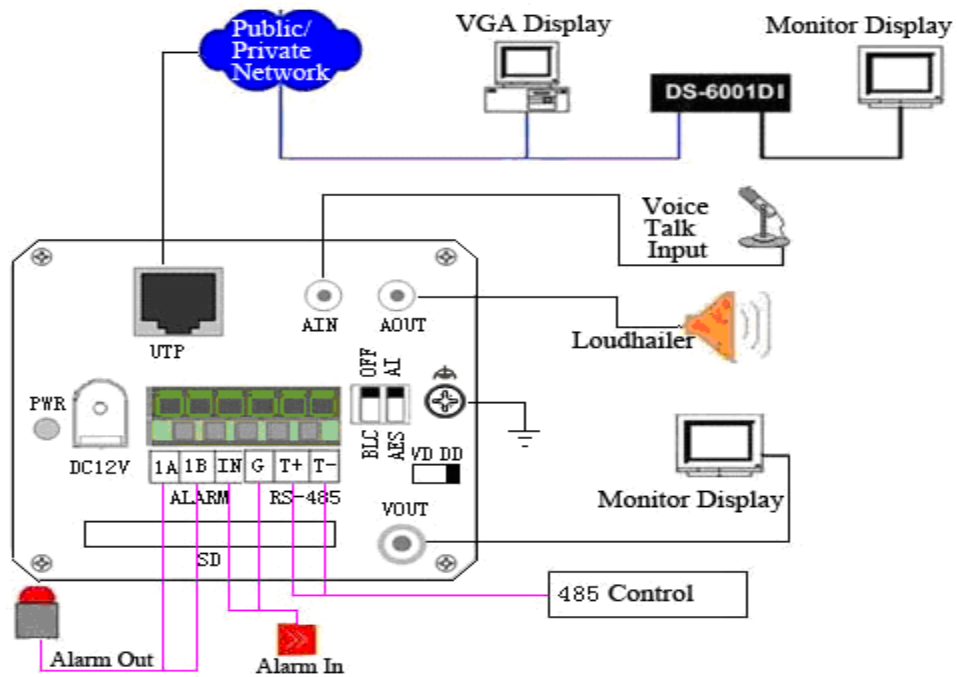
Physical Interface	Connection
UTP Network Interface	Connect to network devices, such as switch , HUB, etc. Please refer to Appendix B for pin Definition.
Audio Input（AIN）	Connect to audio input devices such as active tone (2.0～2.4Vp-p, 1kΩ)
Audio Output（AOUT）	Connect to sounders like loudhailer.
Power 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（ING）	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
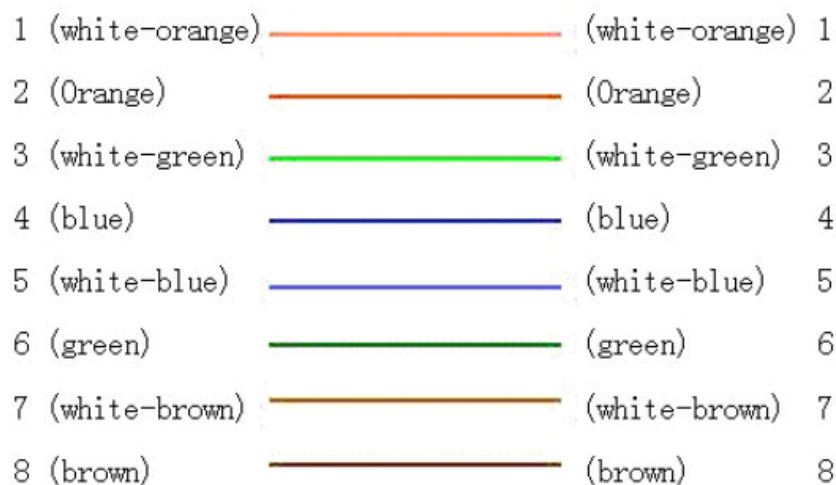
Description of Alarm Output Connection

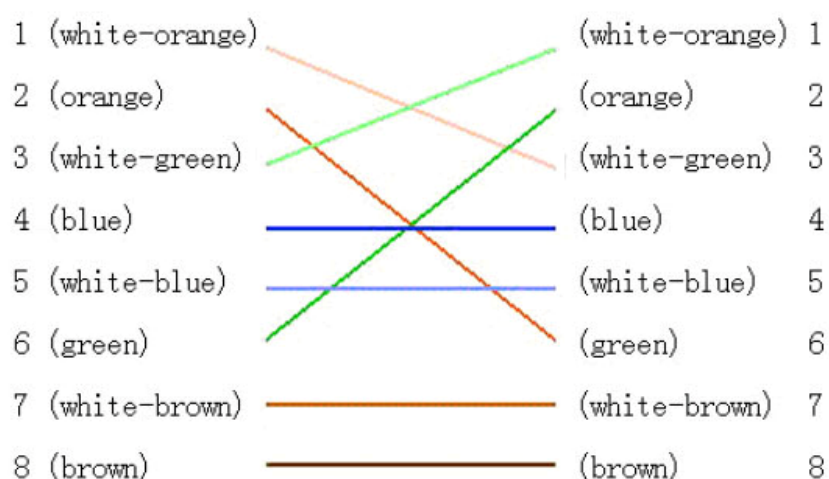Left   Right
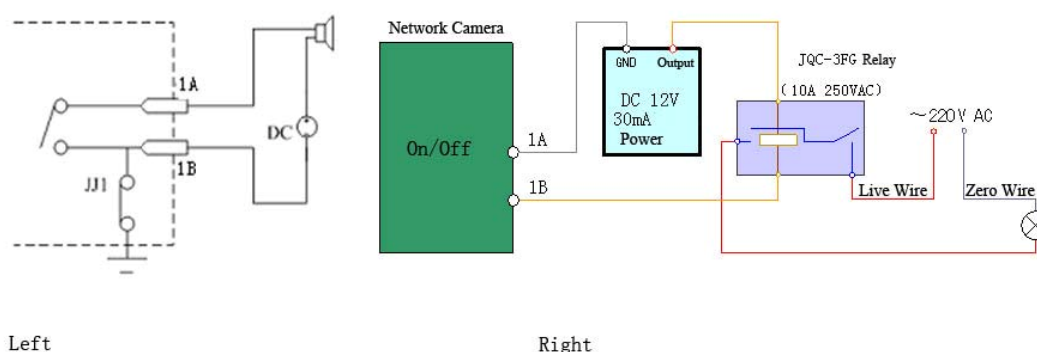
The alarm output is an on/off output that requires external power supply on connection. The external power supply shall be 12V DC/30mA, or use AC with external relays. Equipment damage or electric shock may cause if without relays.

2.3.3 Pin Definition

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

```
1 (white-orange) ———————— (white-orange) 1
2 (Orange)       ———————— (Orange)       2
3 (white-green)  ———————— (white-green)  3
4 (blue)         ———————— (blue)         4
5 (white-blue)   ———————— (white-blue)   5
6 (green)        ———————— (green)        6
7 (white-brown)  ———————— (white-brown)  7
8 (brown)        ———————— (brown)        8
```

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

```
1 (white-orange)      (white-orange) 1
2 (orange)            (orange)       2
3 (white-green)       (white-green)  3
4 (blue)  ——————————  (blue)         4
5 (white-blue) ——————  (white-blue)  5
6 (green)             (green)        6
7 (white-brown) —————  (white-brown) 7
8 (brown) ——————————  (brown)        8
```

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.
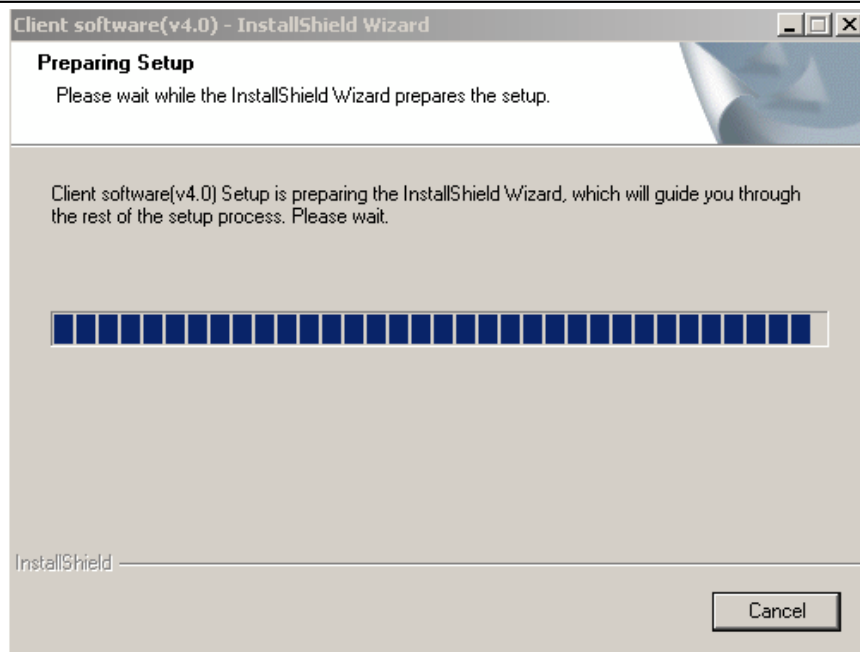
Fig.2.4.1 C lient Software Installation

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.
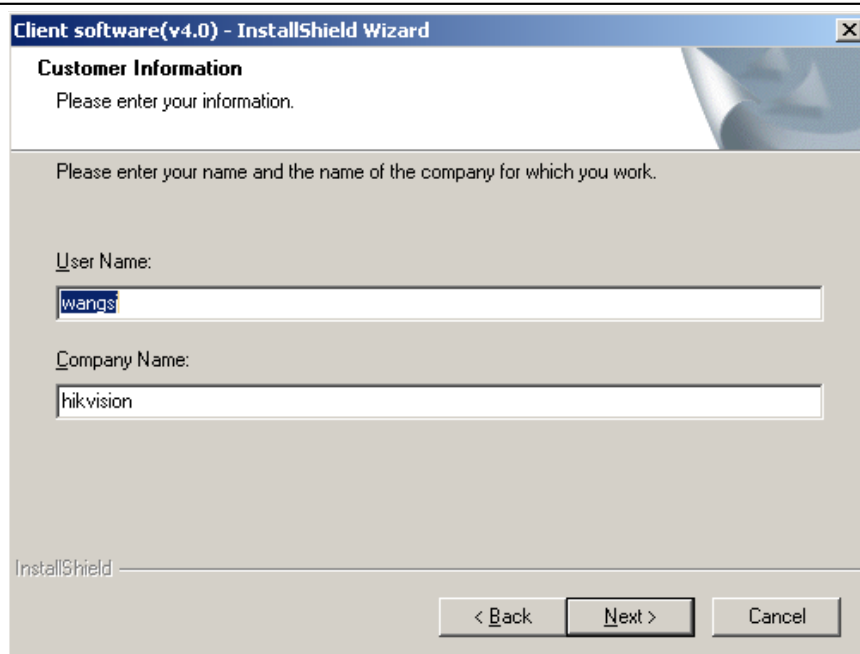
Fig.2.4.3 Customer Information

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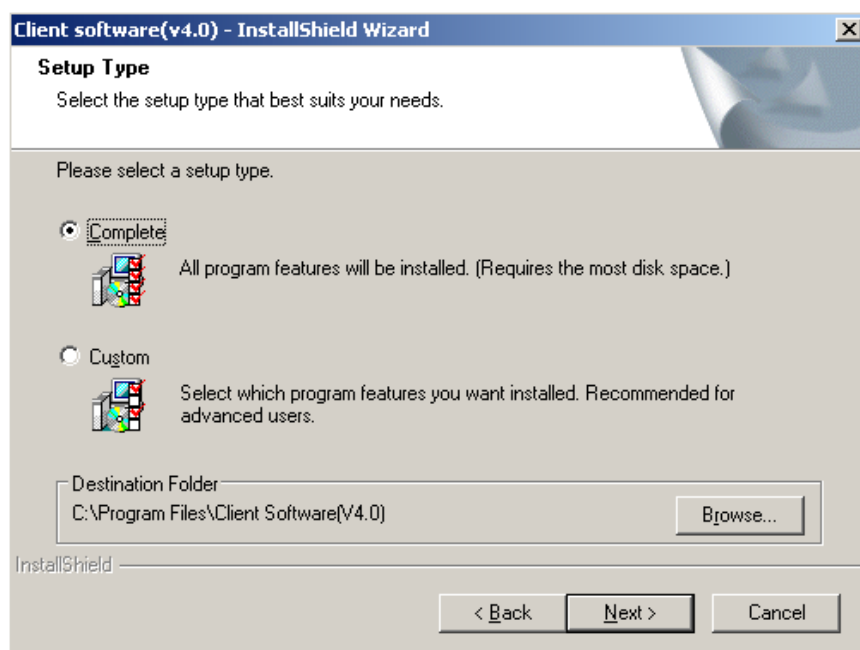

Fig.2.4.4 Destination Folder

Step4: Select the destination folder and click "Next" to go to the next step.
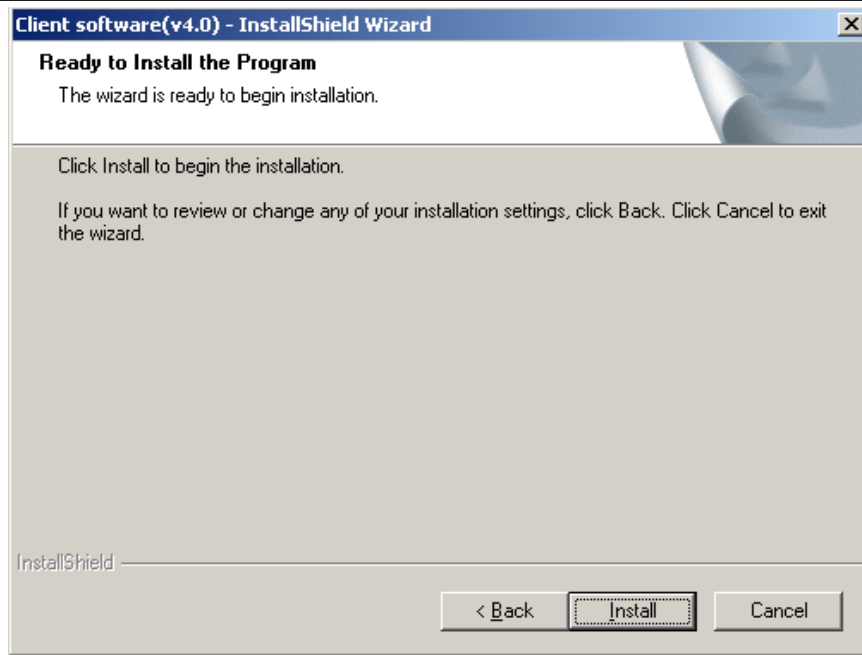
Fig2.4.5 Ready to Install the Program

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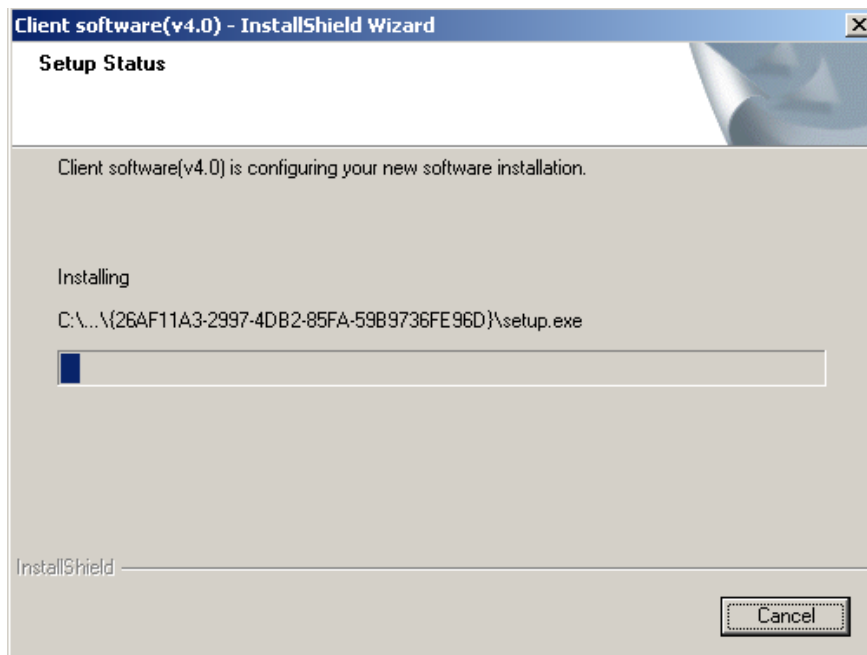

Fig2.4.6 Install Process

Step6: After finishing the installation, the installation completed dialog box will popup as Fig.2.4.7.
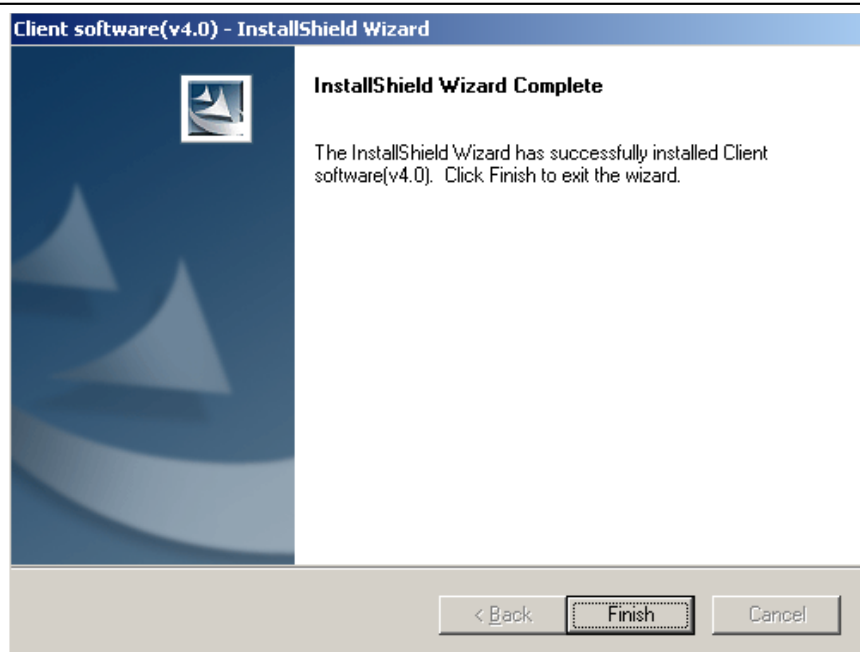
Fig2.4.7 Installation Complete

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 XL-ICA-105M2 camera Menu illustrate and E-PTZ operation

2.5.1 XL-ICA-105M2 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 call 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：

XL-ICA-105M2:

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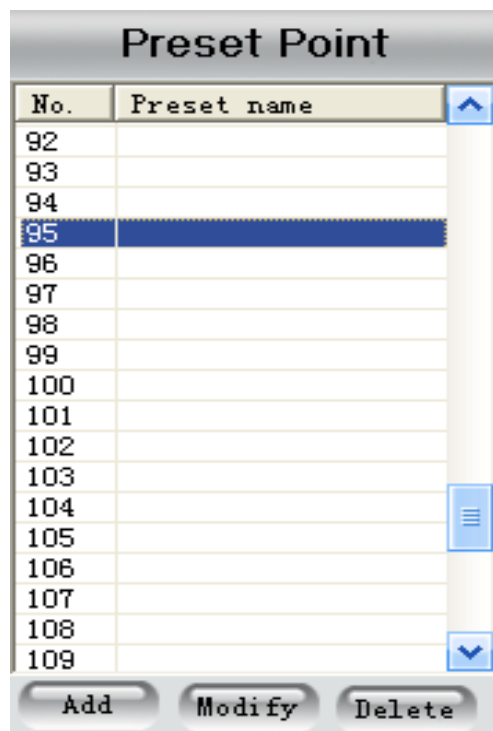
Main code rate：rtsp://admin:12345@192.0.0.64

Sub code rate：rtsp://admin:12345@192.0.0.64/mpeg-4/ch1/sub/av_stream

Attention: 852F/752F will force to reboot when change the resolution to UXGA or HD720p.

2.5.2 XL-ICA-105M2 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	
EPTZ	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" buttons, you can select the

menu function by "up" "down" buttons, and the subentry of the specified function by left" "right" buttons.

◆Language   CHINESE

                             ENGLISH

Switch CHINESE/ENGLISH by left" "right" buttons

◆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" buttons.

◆Frame

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

◆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.

XL-ICA-105M2

Resolution	50Hz			60Hz		
	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

◆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.
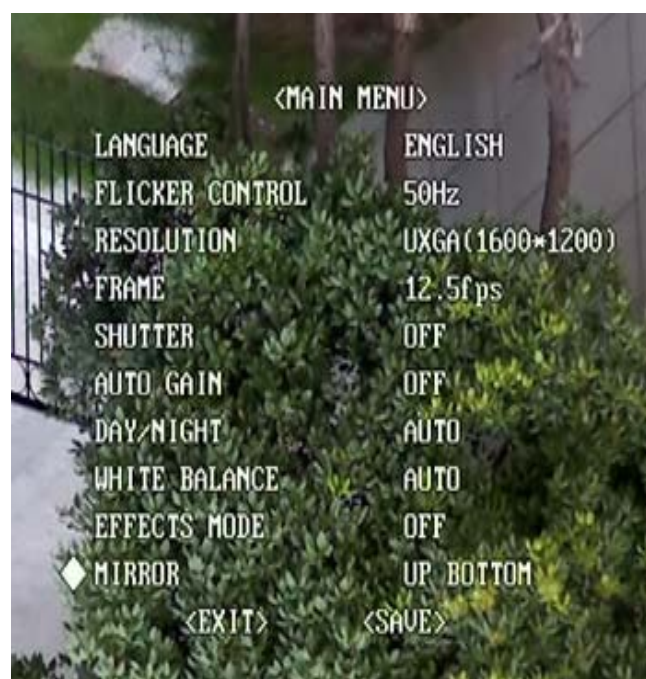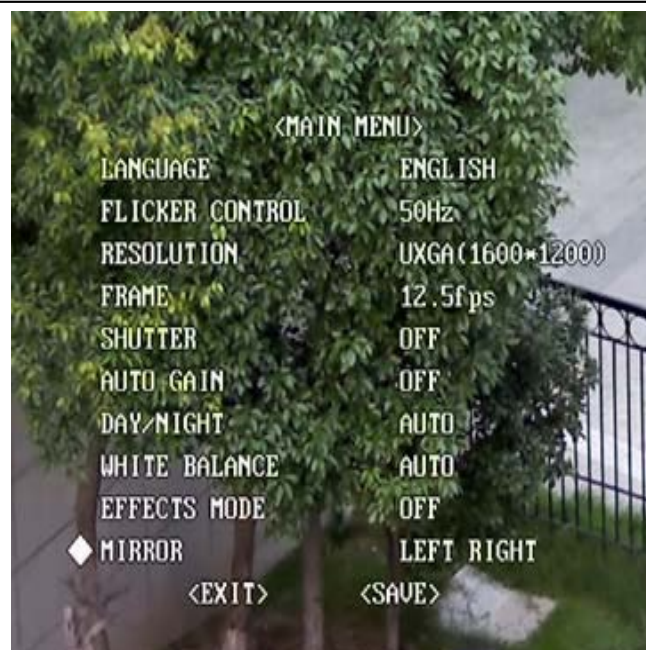
◆WHITE BALANCE   Auto

OFF

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

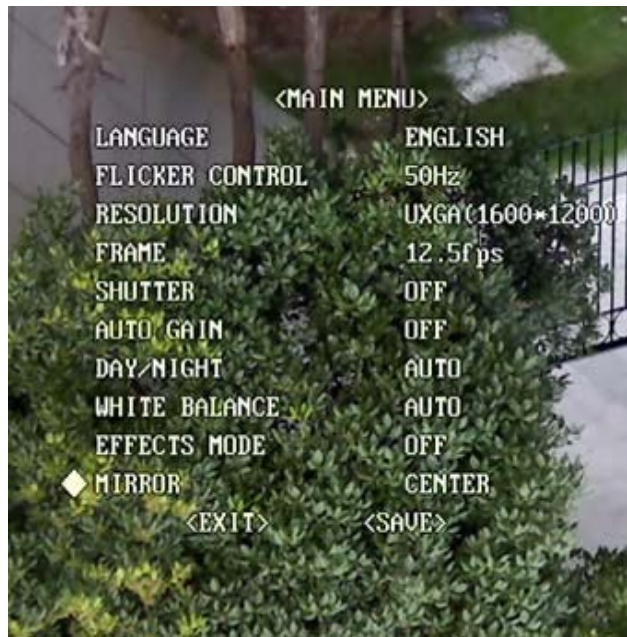"OFF"   Based on the current W&B state，no more auto adjustment.

◆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

◆EPTZ   OFF

          ON

"OFF"   Means support mechanical PTZ only

"ON"   Means support EPTZ function only

◆EXIT   SAVE

         CANCEL

         DEFAULT

This mode is employed after clicking "enter" buttons.
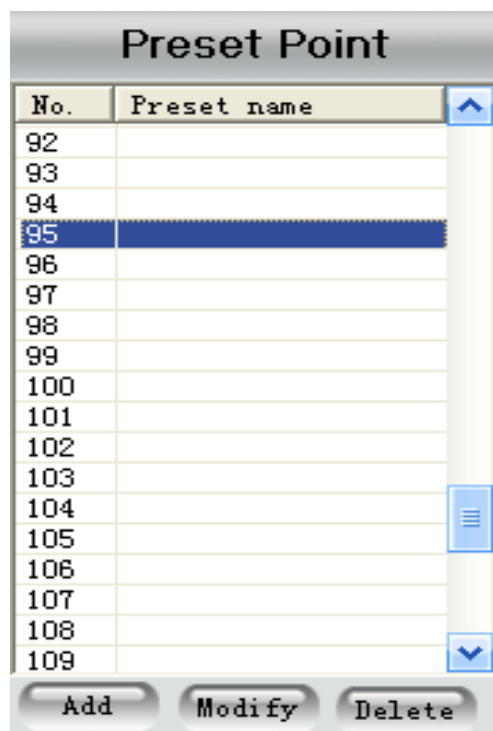
"SAVE"   Save the current configuration

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

"DEFAULT" Restore to the default configuration

2.5.3 762/862 series menu instruction

1、Display menu

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


```
                    <MAIN MENU> LANGUAGE
                                ENGLISH
    RESOLUTION                  HD(1208*720)
    FRAME                       25fps
    LENS                        AI
    SHUTTER                     1/25s
    AUTO GAIN                   OFF
    DAY/NIGHT                   DAY
    WHITE BALANCE               ATC
    BACKLIGHT COMP.             MANUAL …
    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

2、Exit menu

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

3、Menu details operations

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

◆Language   CHINESE

                         ENGLISH

Switch CHINESE/ENGLISH by " left" and "right" buttons.
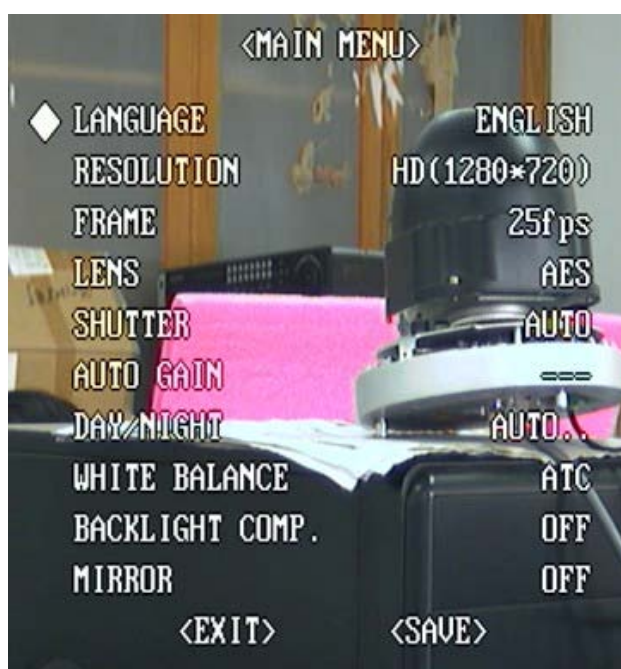
◆Resolution

This option is used for displaying the current resolution, can't be controlled by "left" "right" buttons. But it can be controlled by remote setting option.

◆Frame

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

Under the resolution of HD720P (1280*720) and VGA (640*480), it is real time 25fps/s

◆Lens   AI

                     AES

Support "Auto Iris" and "Auto electron shutter" two mode.

◆Shutter   Auto

Support "auto" and "**---**" two mode.When select " Auto Iris"(AI) , Shutter can be selected by as list:

1/25s,1/50s,1/100s,1/250s,1/500s,1/1ks,1/2ks,1/4ks,1/10ks,1/100ks.

 When select "AES", and it support "Auto " electron shutter.

◆Auto gain   High

                    Middle

                    Low

                    Off

When select " Day" or   "Night" mode at "DAY/NIGHT" option, Auto Gain support High、Middle、Low 、Off option.

When select "Auto " mode , Auto Gain will display "**---**" option.

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**…**

                    Day

                    Night

Support "Auto**…**"、"Day"、"Night" three mode optional setting;

Select "Auto**…**" mode, and click Iris[+], entry in Auto IR-CUT Setting.

AUTO IR-CUT SETTING	
VALUE	HIGH、MIDDLE、LOW（menu selection is implemented through "up" "down" "left" "right" buttons）
TIME	5s、10s、15s、20s、25s（menu selection is implemented through "up" "down" "left" "right" buttons）
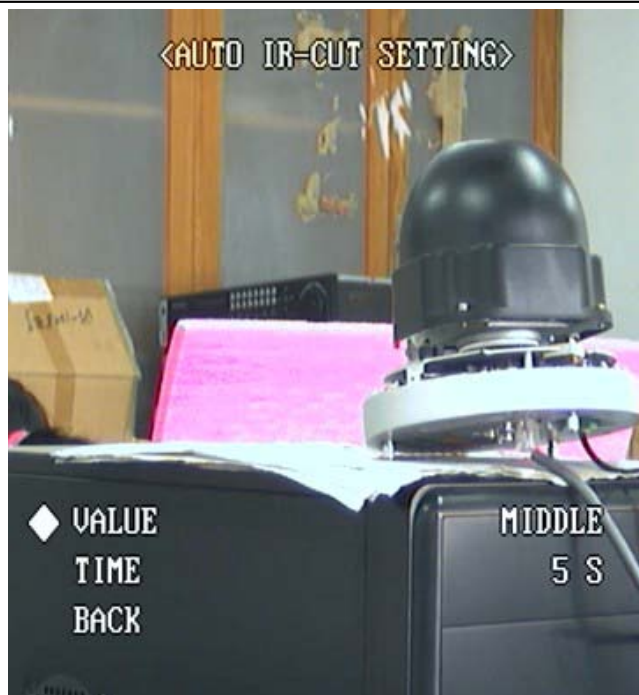
◆White balance   ATW1

                         ATW2

                         ATC

                         MWB...

When select "Night" mode , white balance option will display "---", means not support setting by manual.

When select "Auto" or "Day" mode ,white balance support setting by manual;

Auto or Day	ATW 1	
	ATW 2	
	ATC	
	MWB...(click Iris[+],entry OSD)	MWB SETTING TEMP. ADD/SUB BACK

◆Backlight Comp**.**　　　　Off

　　　　　　　Manual**…**

Support "Off" and "Manual**…**" two mode;

When select "Manual**…**" at Backlight Comp**.** option, the position and size of Backlight Comp**.** can be setting by manual.

Manual**…**(click Iris[+],entry OSD)	BACKLIGHT COMP**.** BLA　　　　　　MANUAL… 　　　　　　　　UP 　　　　　　　　DOWN 　　　　　　　　LEFT 　　　　　　　　RIGHT 　　　　　　　　CENTER BACK Notice：Up、DOWN、LEFT、RIGHT、CENTER、MANUAL**…** option can be set by click "Right", "Left" buttons.	POSITION… 　SIZE… 　BACK Notice：The parameter of position and size can be set by click Iris[+] and "Right", "Left" buttons.

30
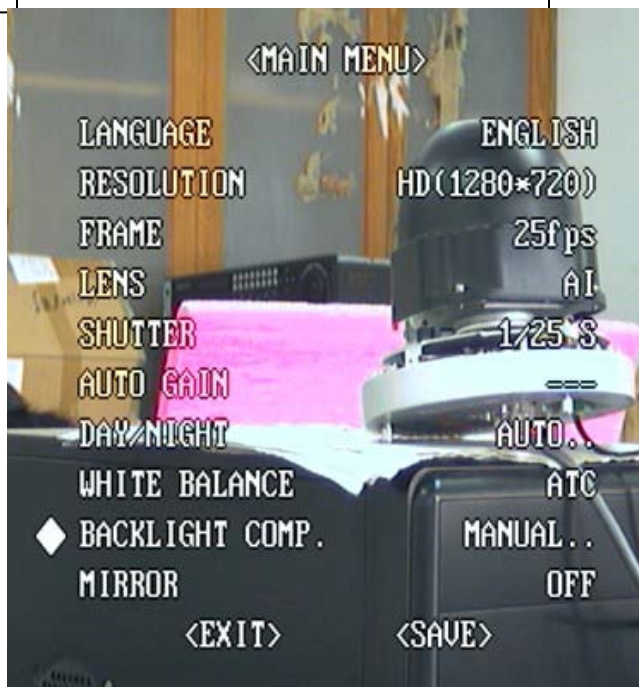
◆Mirror   Off

                 Left Right

                 Up Bottom

                 Center

 Support "Off"、"Left Right"、"Up Bottom"、"Center" mode, and set by "left" "right" buttons

◆Exit   Save

                 Cancel

                 Default

 This mode is employed after clicking "enter" buttons.

 "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 Direct Line Connection   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.
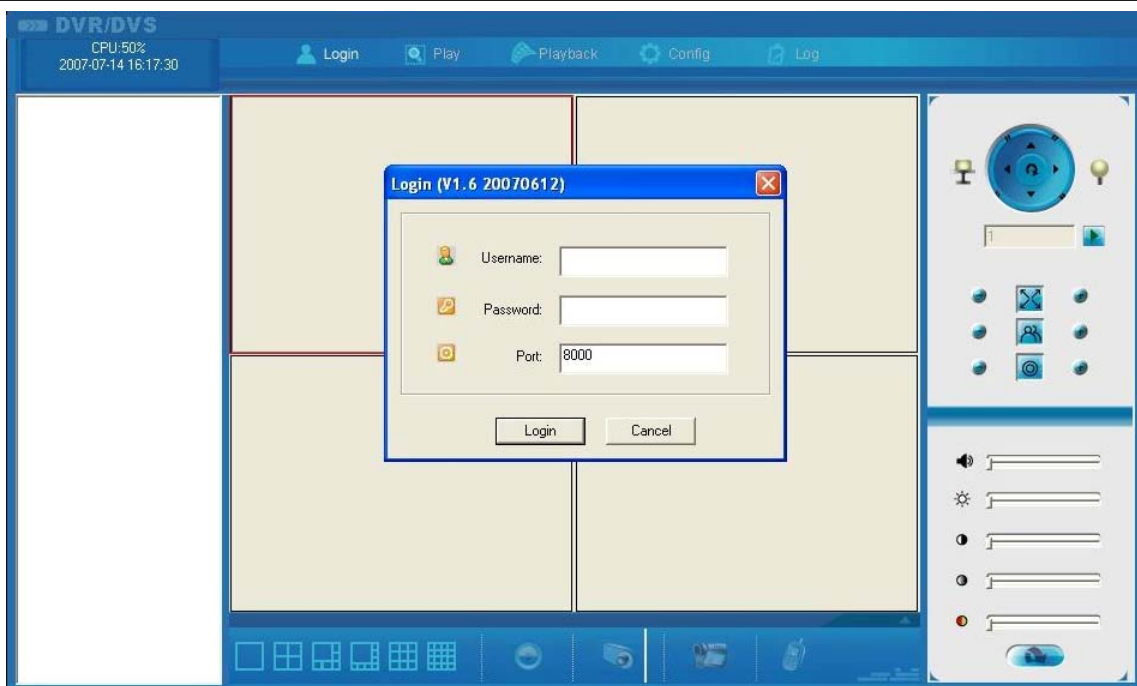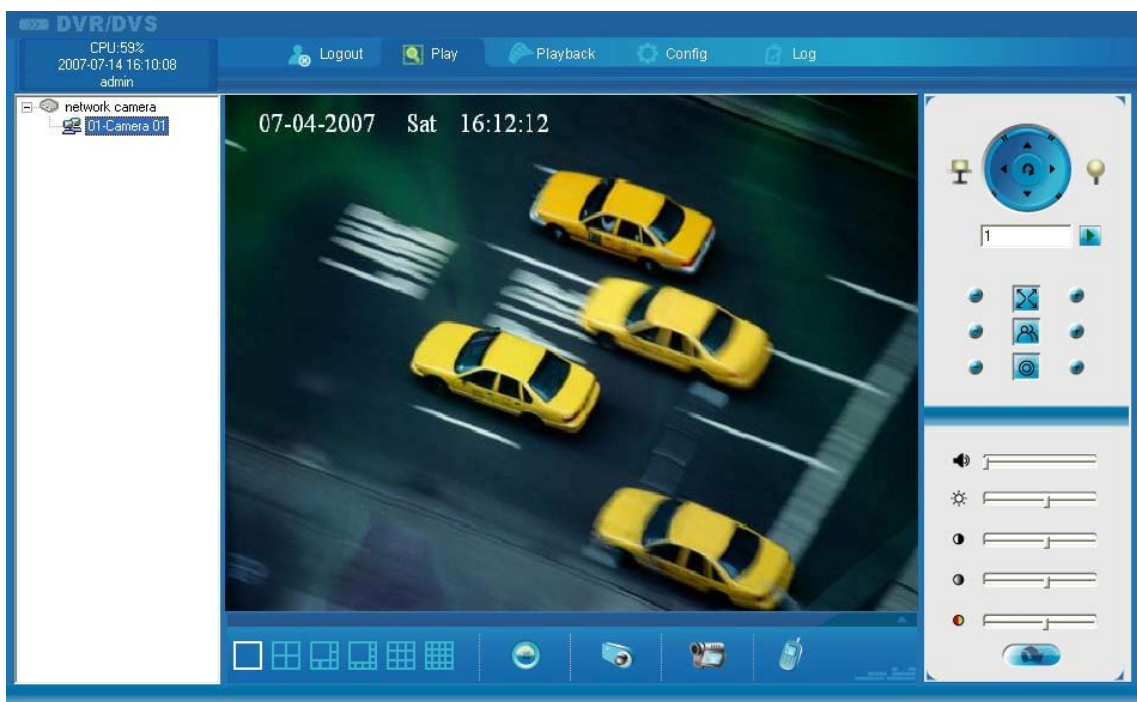
Fig. 3.3 Login Interface

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.**
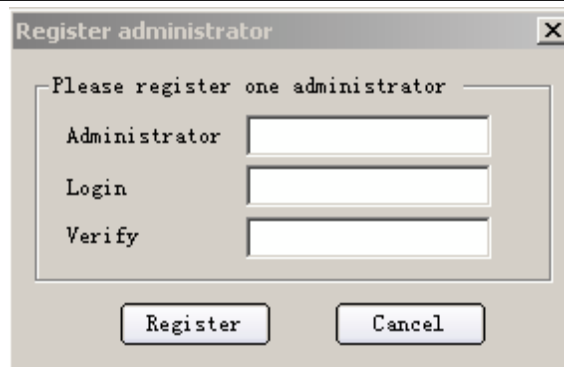
Fig.3.6 Register Administrator

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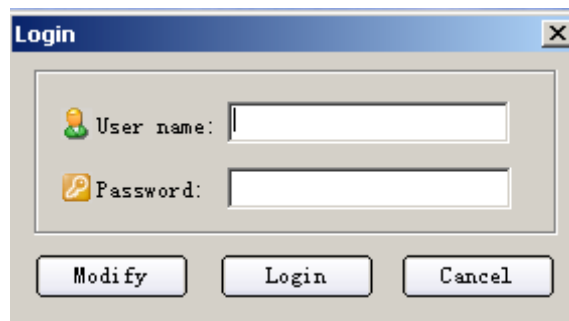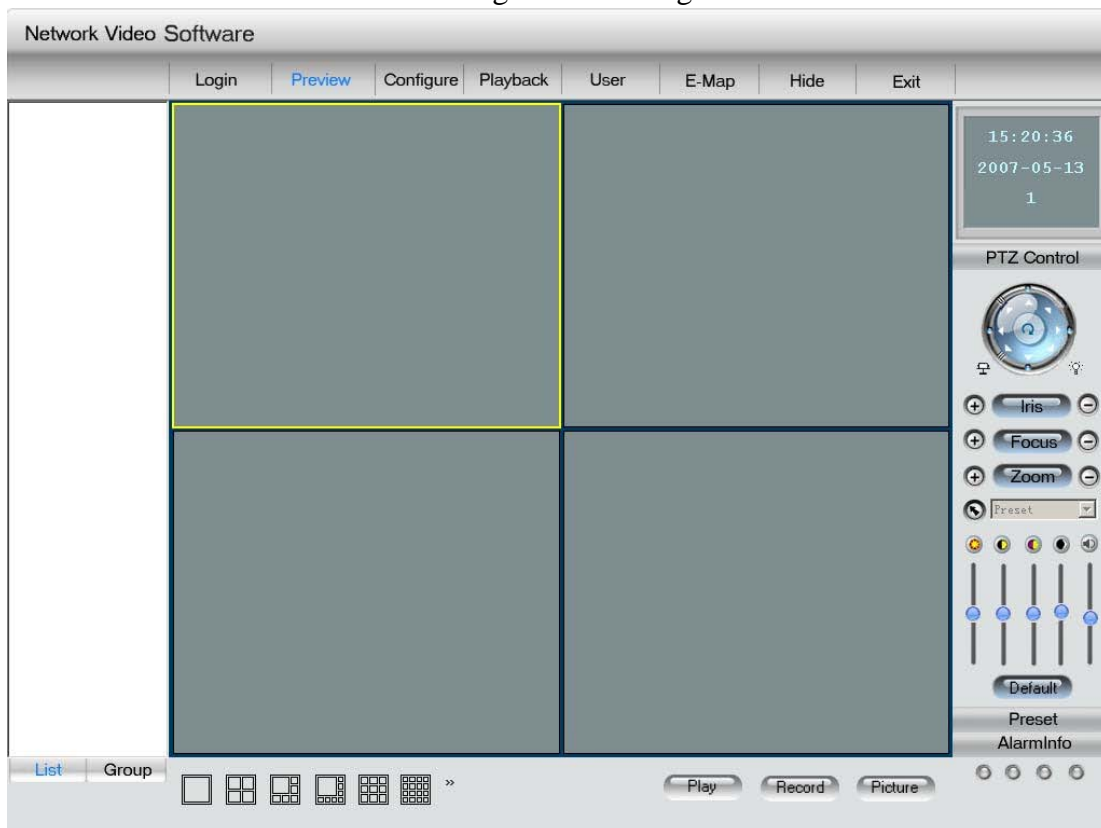

Fig. 3.7 User Login

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.
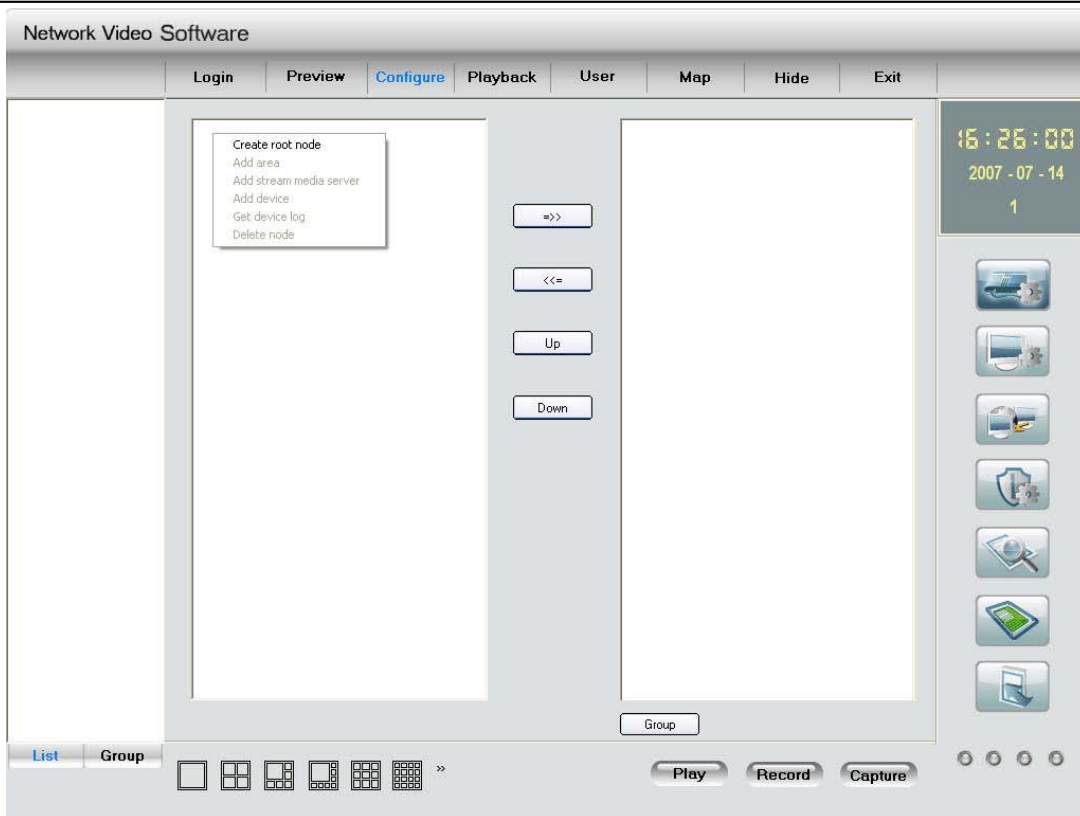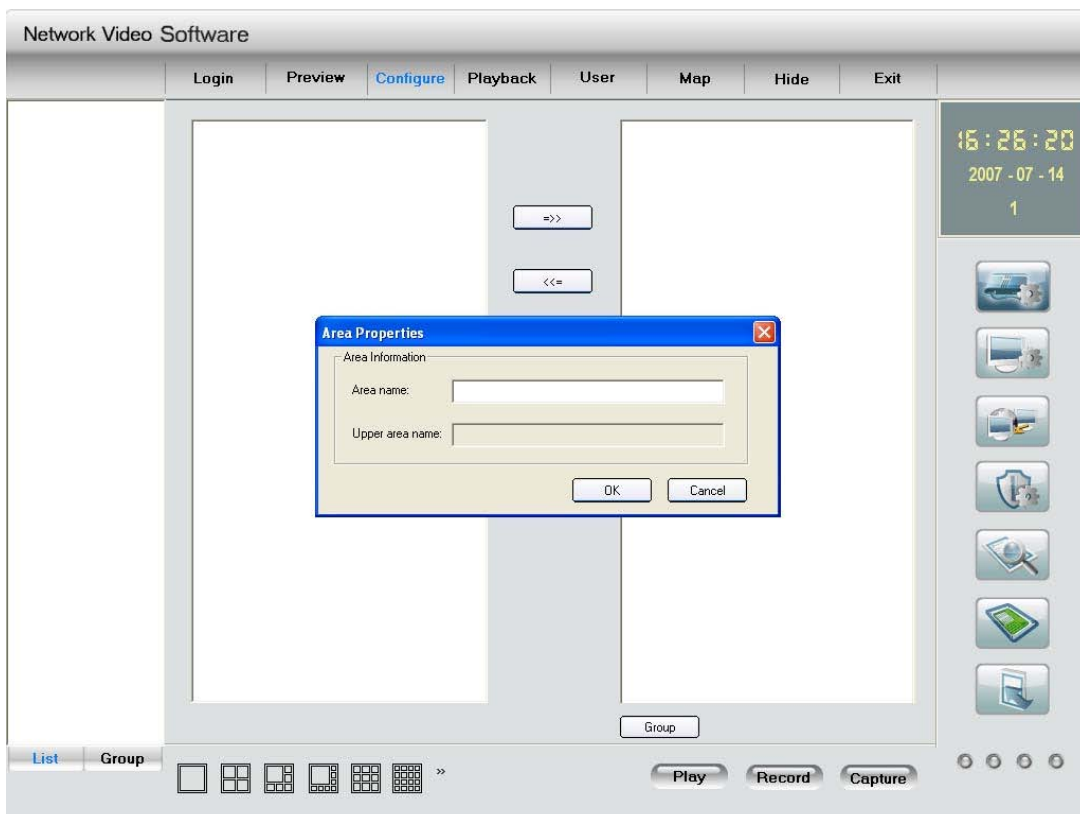
Fig. 3.9 Create Root Node

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.
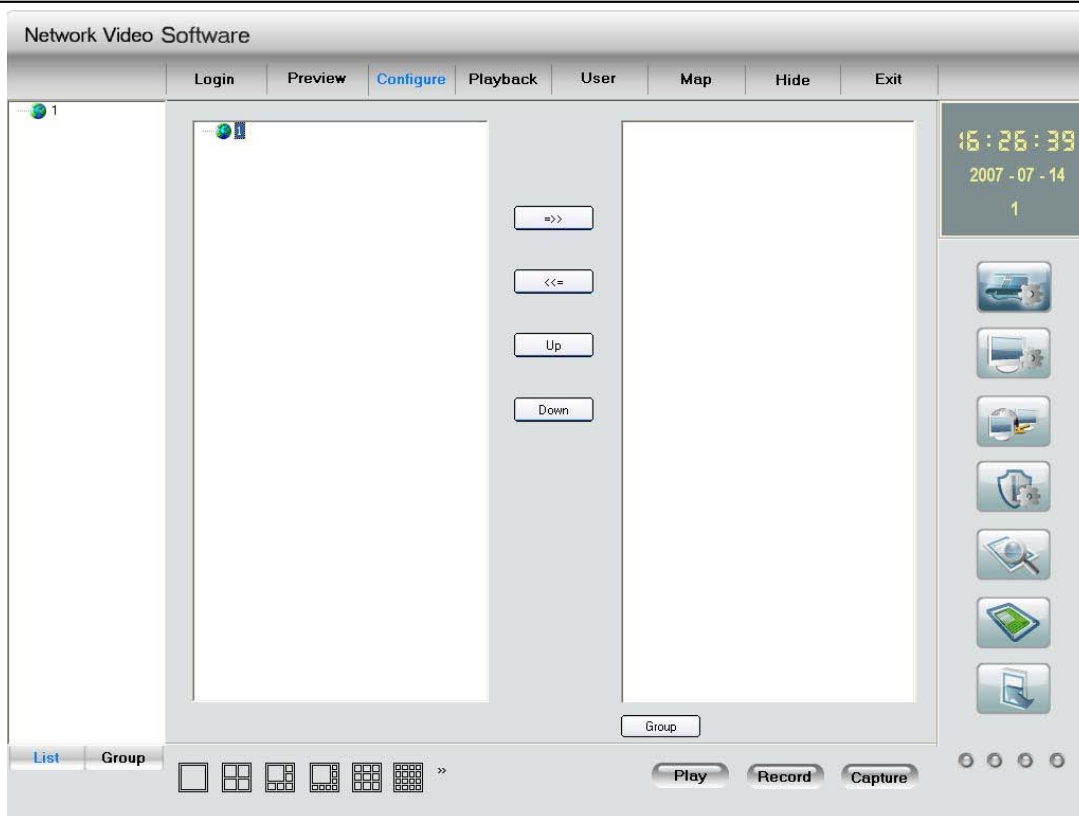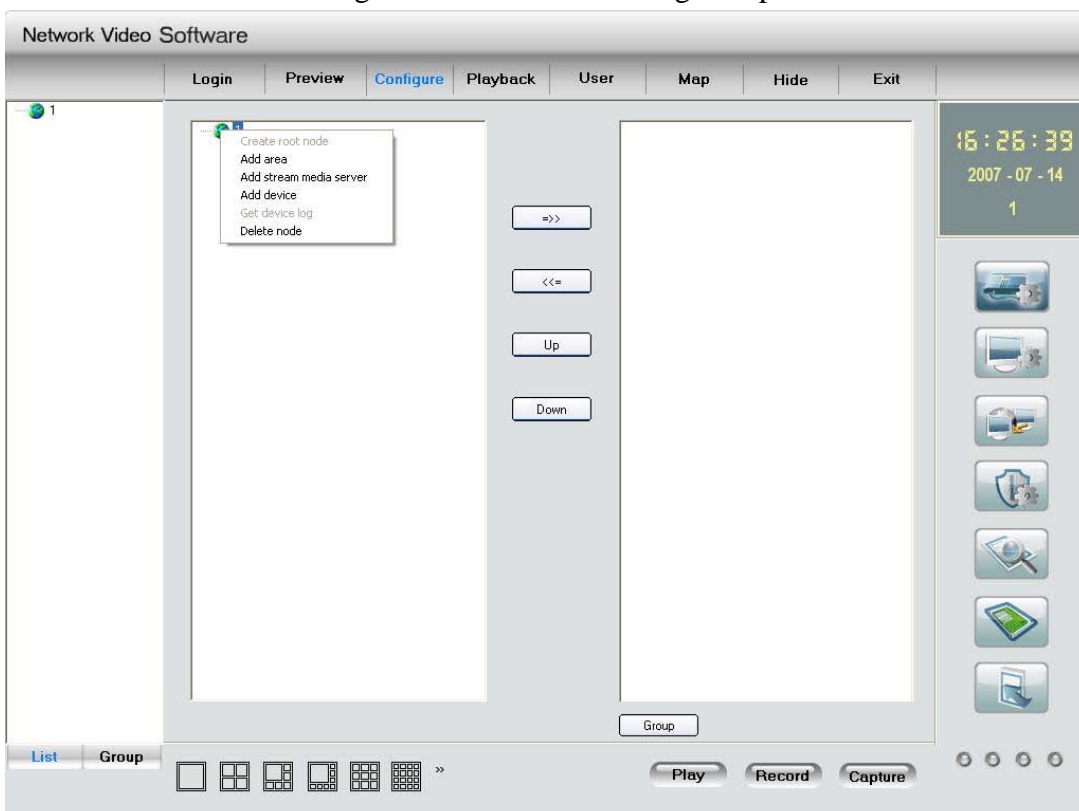
Fig. 3.11 Area Name Adding Completed

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.
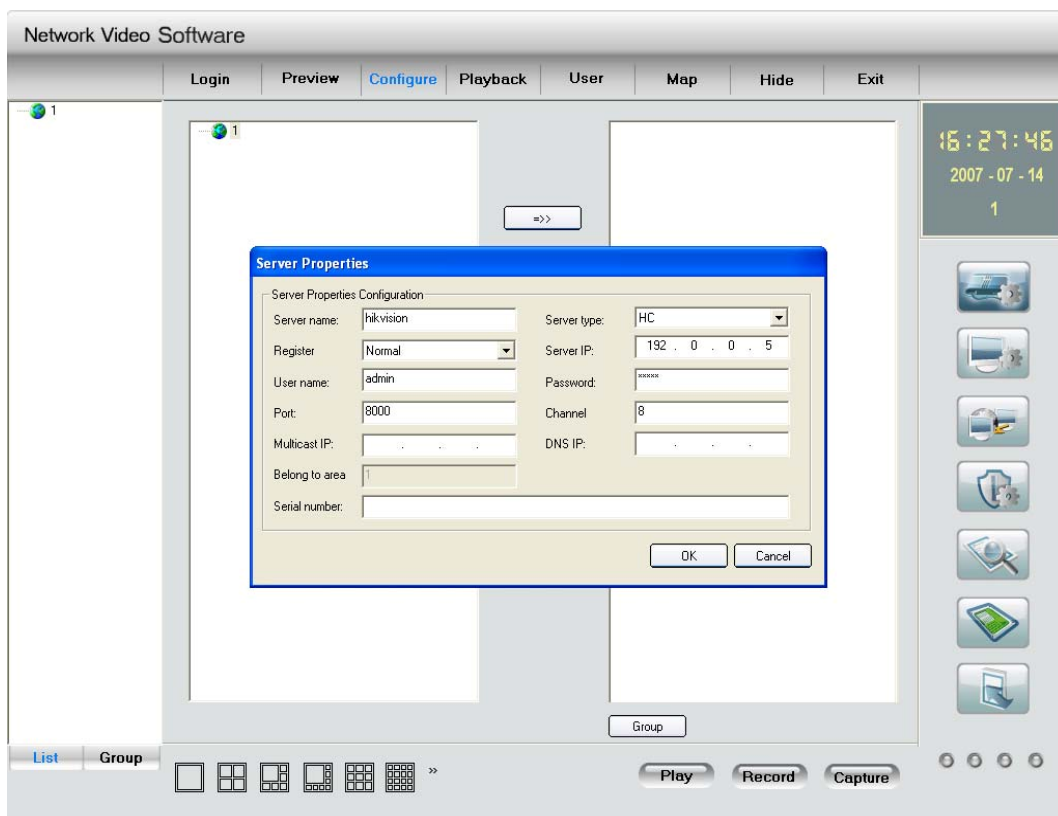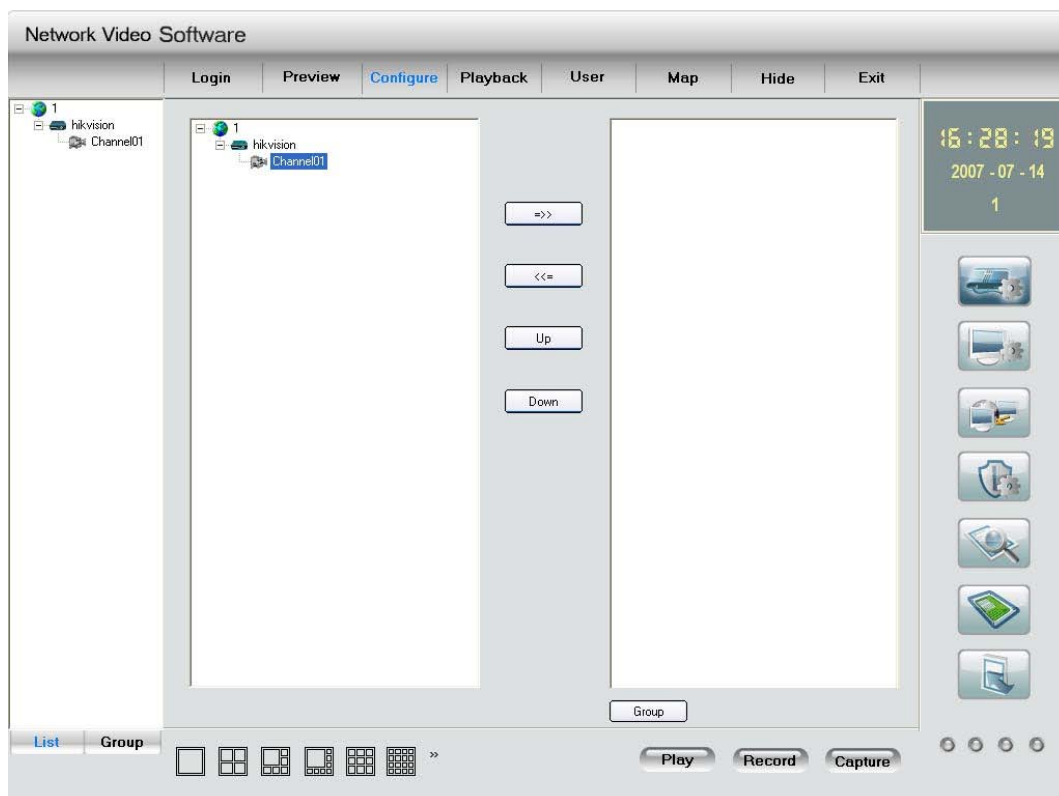
Fig. 3.13 Add Device

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.
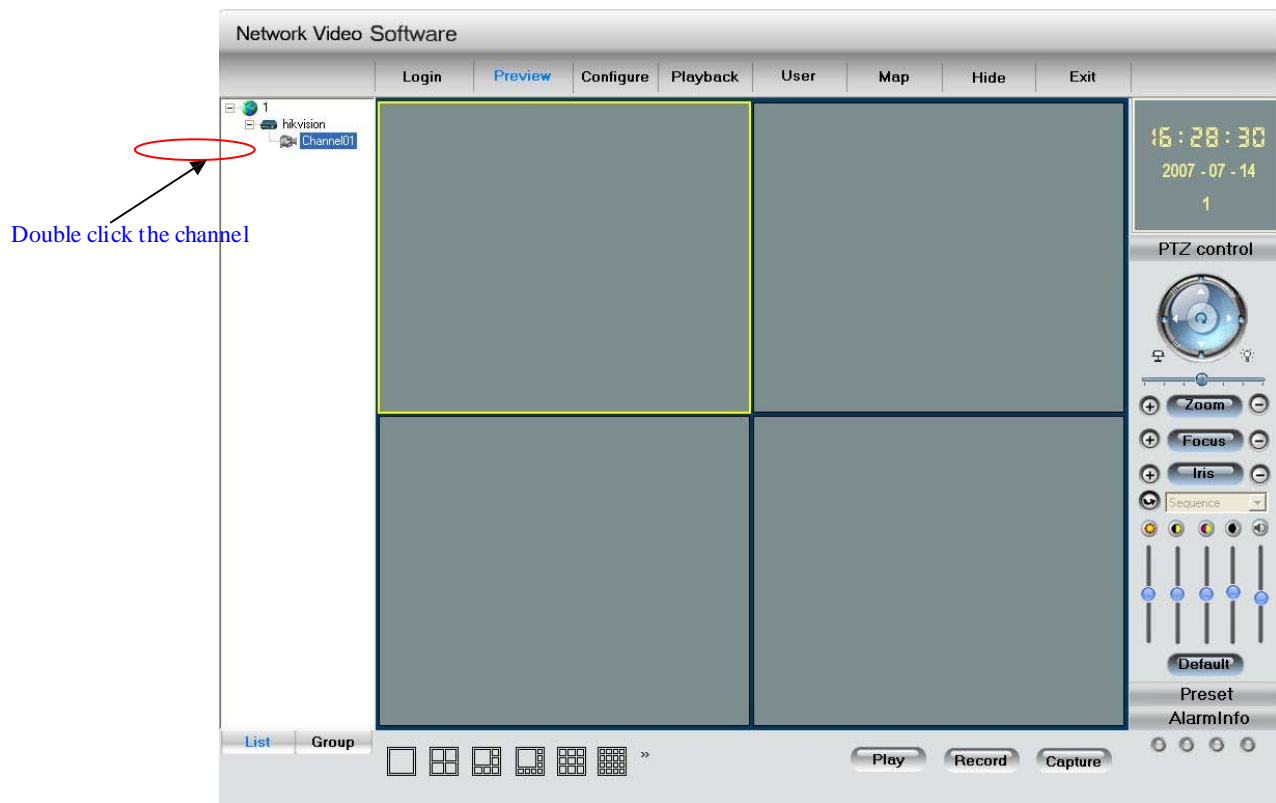
Double click the channel

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 suppo rts the func tion 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 po wered on, and get a dynamic IP address by then.
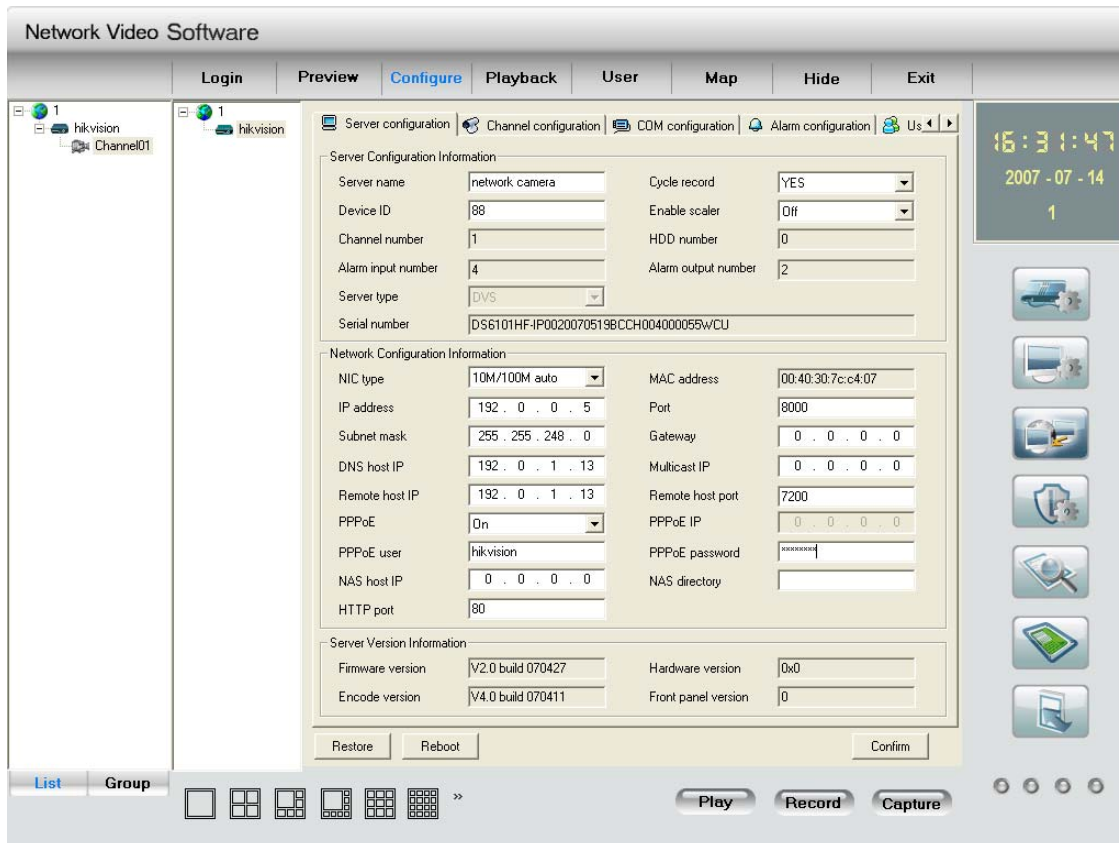

Fig.4.1 Dial Up with PPPoE

【Notice】Please make sure that the ADSL Modem is powered on . The camera needs to be restarted to establish the network connection afte r the configuration of PPPoE parameters for the first time. And XL-ICA-105M2 do not support this function.

4.2 WAN Access

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

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 the m 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: XL-ICA-105M2 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"Æ "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.
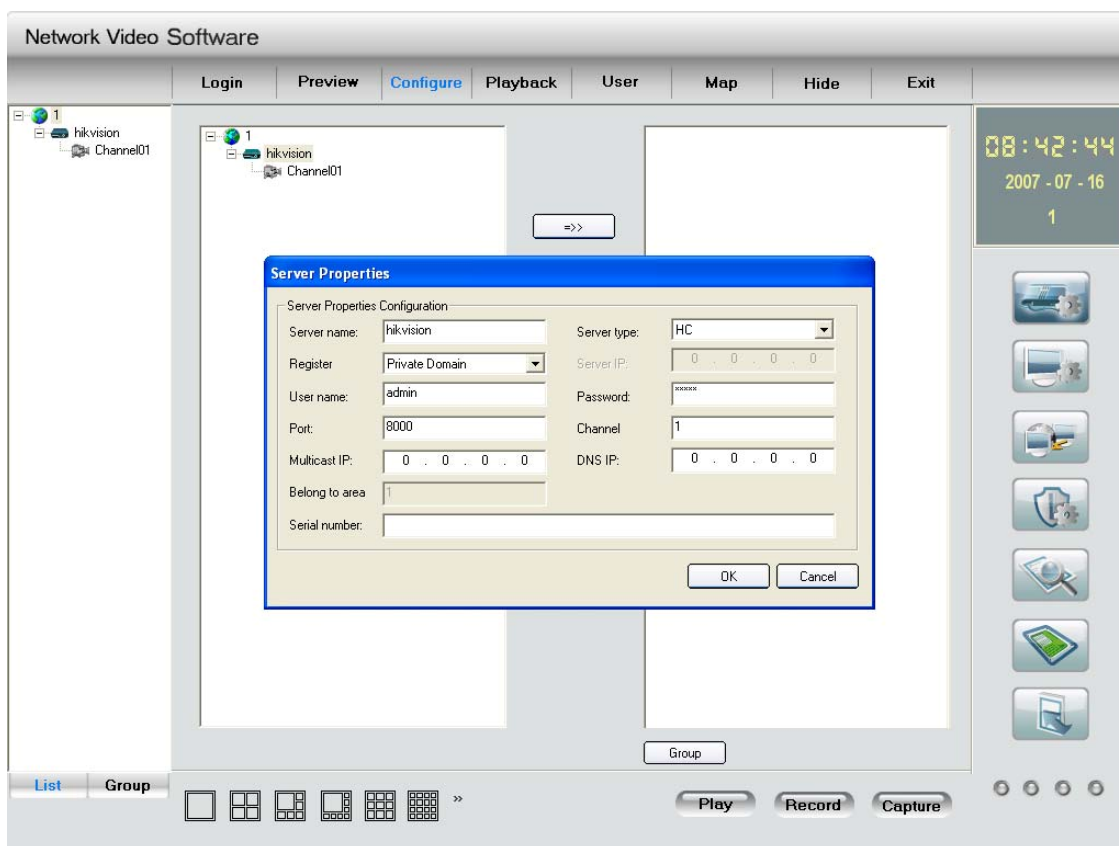

Fig.4.2 DNS Server

Q&A

1、Time showing incorrectness:

Use client 4.01 to correct the time by selecting "configure"Æ"local configure"Æ"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.

Appendix Technology Specification

Parameter	Model	XL-ICA-105M2
Camera		
Image Sensor		1/3 inch CMOS
Effective Pixels		1600(H)×1200(V)
Min. Illumination		0.5Lux/F1.2 0.1Lux/F1.2, sensitization X5
Electronic Shutter		Auto
Auto Iris Lens		---
Day&Night		Electronic (ICR option)
Lens		Option
Lens Mount		C/CS mount
Video Output		1Vp-p Composite Output(75Ω/BNC)
Compression Standard		
Video Compression		MPEG-4
Video Output		32 K～2M, adjustable(8Mbps maximum)
Audio Compression		OggVorbis
Image		
Image Resolution		**50Hz:**1600x1200,1280x720,800x600, 704x576,640x480,528x384,704x288,352x288,176x144 **60Hz:**1600x1200,1280x720,800x600, 704x480,640x480,528x320,704x240,352x240,176x120
Frame Rate		**50Hz:**25fps(704x576),25fps(1280x720),12.5fps(1600x1200) **60Hz:** 30fps(704x480),15fps(1280x720),10fps(1600x1200)
Functions		
e-PTZ		Support
Motion Detect		Support
Dual Stream		Support
SD Card Local Recording		Support
Heartbeat		Support
Password Protect		Support
Protocols		TCP/IP,HTTP,DHCP,DNS,RTP/RTCP, PPPoE (FTP,SMTP,NTP,SNMP addible)
Interface		

Voice Talk Input	1 channel 3.5mm audio interface(2.0～2.4Vp-p,1kΩ)
Voice Output	1 channel 3.5mm audio interface(Line level, 600Ω)
Communication	1 RJ45 10M/100M self-adaptive Ethernet port and 1 RS-485 interface
Alarm Input	1 channel signal input
Alarm Output	1 channel signal relay output
Others	
Working Temperature	-10℃~60℃
Power Supply	AC24V±10%/DC12V±10%, PoE (Power over Ethernet).
Power Consumption	4W MAX
Dimensions (mm)	64.8x63x157.5
Weight	600g

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

(-W) illustration of support wireless