

H.264 Main Profile RTSP Streaming

Stand Alone

PAN/TILT/ZOOM IP Camera

MANUAL



Firmware 2.2.1.8 Version
Revision Date: 2010.03.01





WARNING: If the actions indicated in a “WARNING” are not complied with, injury or major equipment damage could result. A warning statement typically describes the hazard, its possible effect, and the measures that must be taken to reduce the hazard.



CAUTION: If the action specified in the “CAUTION” is not complied with, damage to your equipment could result.

NOTE: A “NOTE” provides supplementary information, emphasizes a point or procedure, or gives a tip for easier operation.



CAUTION:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a class digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



Disposal of Old Electrical & Electronic Equipment
(Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Must read all the safety and operating instructions before operating the unit.

- Make sure not to connect the power before you have installed the camera.
- There is great chance to damage your camera if the camera is opened by an unqualified service engineer or installer.
- Avoid using the camera under direct sunlight (tropical area, Middle East), or near to any source of heat. Sun shielding recommended.
- Don't submerge the camera into water; **don't install the camera upside down**
- **Always put silicone gel on antenna connector after installation to avoid corrosion and reducing the wireless link capability.**
- Avoid exposing the camera to violent movement or vibration.
- Wireless link distance is depend on both camera (Wi-Fi client) and Access Point, unbalanced transmit power won't help extend the wireless link range.
- Must use proper "Relay" that will match with alarm output devices (High power spot light, motors), never connect alarm output load > 0.5A directly to camera alarm out.
- Please use power adapter equipped with the camera, foreign power adapter with wrong voltage may permanent damage your camera.
- Clean the glass dome bubble frequently to ensure good clear view, remove the snow and ice accumulated outside and inside of class window shield, keep camera inside dry by hot blow dryer.
- Must remove all cushions and lens cover inside dome bubble before power on.

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Chapter 1 Features

H.264 Main Profile Encoding, Duplex Audio

Clairvoyant IP PTZ Dome Cameras offer cost-effective outdoor IP surveillance solution for remote monitoring and stand alone alarming over a local area network or the Internet. Only standard UTP Cat. 5e Ethernet cable is required carrying both Video & audio in network data packets, *Clairvoyant* IP PTZ Dome Cameras are ideal for use in small or mid-sized businesses and homes, it is also easy to set up and use.

Clairvoyant IP PTZ Dome Cameras are embedded IP based smart devices designed for network video/audio surveillance applications. Optimized H.264 main profile video compression algorithm assures clearer and more fluent image transmission. The *Clairvoyant* IP PTZ Dome Camera adopts **4X Sync-Focus optical zoom** always clear focus lens, the latest technology and high integration single chip SOC with powerful Linux RTOS (Real-time Operating System) to realize high performance and low cost digital multimedia processing. Built-in Web Server allows users to conveniently carry out remote control via Internet Explorer. Furthermore, central management software can be used for integrated surveillance and management of multiple *Clairvoyant* IP PTZ Dome Cameras, very easy to build large surveillance system.

Performance:

- **PAN/ TILT & ZOOM mechanism**
- SOC single chip solution, equipped with two processors, ARM9 and DSP
- Support high sensitivity **1/3" CCD** sensor with 4X optical zoom, better night vision than 1/4" CCD
- H.264 **main profile @ Level 3**, realize transmission of High Definition video over low network bandwidth easily.
- **Support dual compression and dual video streams, more adaptive to different network environment, display different resolution video on different client devices (PC & phone)**
- Up to 30 frames per second in all resolutions ranging up to 704 x 576
- Up to 10 viewers can directly access the camera simultaneously
- Stand alone alarming & motion detection; able to set 396 detective zones (22 x 18) each with 100 levels sensitivity, send snapshots by scheduling or at alarm/ motion detected through emails or upload pictures to FTP server.
- Built-in Web server enables the use of a standard Web browser for viewing and management
- Support remote software upgrade safely function
- Support dynamic IP address (DDNS), LAN, Internet (ADSL PPPoE & DHCP)
- Network protocols: HTTP, TCP/IP, UDP, RTP, RTCP, RTSP, SMTP, PPPoE, DDNS, DNS, SMTP, BOOTP, DHCP, FTP, NTP, UPnP
- **Support Bi-directional real time transmission of audio talk-back & broadcast.**
- Network self-adapting technology to adjust video frame rate automatically according to the network bandwidth.
- Auto-recovery function if exception occurs and auto-connection if the network fails
- Provide SDK and client demo source code.
- Management software that can manage up to 1728 cameras in 48 groups, display

- maximum 36 cameras video on single screen, support video lost、 motion detection and sensors alarm functions
- Support masks function to mask sensitive area to protect privacy.
- Support **active & passive mode** access, support GSM/ CDMA network or private network without public IP.
- **Support Multicast, unlimited clients connection.** (match with *Clairvoyant* decoder or **NVSCenter software**)
- Supports **TF card up to 32GB**, can store recording and snapshots locally.
- IP66 Weather proof
- **Optional IEEE 802.11g/b client (2.4GHz)**

Technical parameters:

Imagine Sensor: 1/3" Sony CCD, Day/ Night, 520TVL

Lens: 3.7 - 14.8 mm 4X Sync-Focus motorized optical zoom Lens

PAN & TILT : 360° continuous PAN, 92° TILT

PAN & TILT Speed: max. 50° /sec

Presets & cruise: 127 presets with 2 pattern cruises

Video compression: **H.264 main profile @Level 3; M-JPEG dual compression**

Video Resolution: PAL: 352x288 (CIF) ,704x288 (2CIF) ,704x576 (D1)

NTSC: 352x240 (CIF) ,704x240 (2CIF) ,704x480 (D1)

Adjustment of Video Parameters: Brightness, hue, contrast, saturation and image quality

Streaming Format: Optional streaming format (video streaming or audio & video streaming)

Video Frame Rate: PAL: 1 - 25 frames/second; NTSC: 1 - 30 frames/second

Video Compression Bit Rate: 16Kbit/S~16Mbit/S, constant bit rate or variable bit rate

Audio Input: 1 channel linear input, Impedance: 1kΩ

Audio Compression: G.726

Audio Output: 1 channel linear output

Audio talk-back input: 1 channel, MIC interface

Supported Protocols: HTTP, TCP/IP, UDP, RTP, RTCP, RTSP, SMTP, PPPoE, DDNS, DNS, SMTP, BOOTP, DHCP, FTP, NTP, UPnP

System Interface: 10 Base-T/100Base-TX Ethernet port; 1 RS485 port, 1 RS232 port;

Optional Wi-Fi: 2.4GHz, IEEE 802.11g/b with WEP, **WPA, WPA2**

Antenna (optional)

- 5dBi @2.4GHz, omni
- IPEX1.13

Alarm Input: 1 channel on/off input, supporting NO (normally open) or NC (normally close)

Alarm Output: 1 channel on/off output, Contact rating 220VAC 1A/ 24VDC 1A

Dimensions (dome bubble diameter, height) : 3.5", 9"

Weight (Kg): 2.5

Operating Temperature: -10 ~ +55 °C

Storage Temperature: -20 ~ +70 °C

Weather Proof: IP66

System Requirements:

Operation System:

Microsoft Windows XP, VISTA, **Windows 7**

Browser:

Microsoft Internet Explorer 6.x or above

Chapter 2 Packing Detail



1. IP PTZ Dome Camera



2. Installation Software utilities CD



3. AC Adaptor & Power Cord

1. IP PTZ Dome Camera
2. Installation Software utilities & Central Management Software CD
3. Power Adaptor (**DC12V/ 2A**) & Power Cord

Chapter 3 Cable and Connectors

3.1 Tail Wire Connectors



1. Terminal (A+ / B-) : RS-485 A+ / B-; D+ / D- to control PTZ
2. **Reset Button** : Restore to factory default settings (short the two terminal at power on)
3. Connector : Female audio output / earphone
4. Power connector : DC12V output
5. Connector: Female audio input port to sound monitor/ microphone.
6. Terminals (Alarm) : Alarm input (NC or NO) /
Alarm output (on/off output, 220VAC 1A/ 24VDC 1A)
7. RJ-45 : Network Ethernet connector, LEDs flashing when accessing

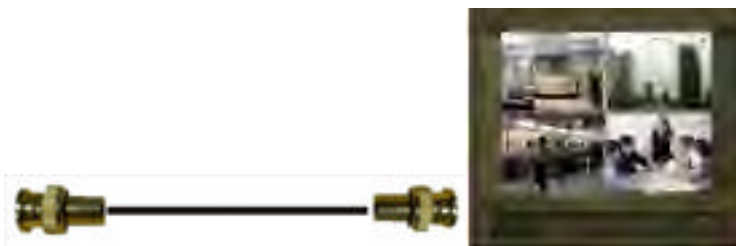
Note:

After "**Reset**" Please must notice you must set your computer IP to 192.168.55.xxx, for example 192.168.55.20 so that you can connect the camera after reset (restore to factory default IP 192.168.55.160), must remember to disable wireless adapter or set wireless IP to different subnet (from wired IP), before performing other necessary settings.

3.2 Optionals

Port Name	Description
① RSMA Connector	Detachable 5 dBi omni antenna Optional high gain directional antenna
② Tail Cable	3 feet wire

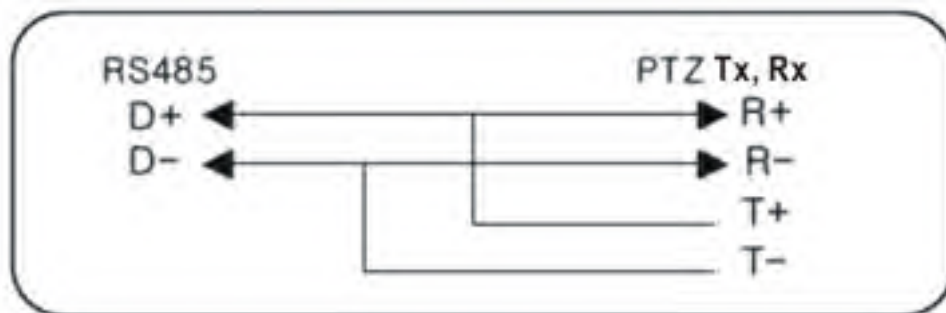
Connect BNC output to monitors



RS-485 port can be used to connect the external PAN/ TILT Seat

No	DESCRIPTION	
1	485A(TX+)	RS485: Transmit data
2	485B(TX-)	RS485: Receive data

Connect Pan/ Tilt Seat D+ , D- : Connect PT control line (485A , 485B terminal)



Alarm input:



To connect the Active Infrared Sensor to IP CAMERAR camera **ALARM IN**, will trigger alarm when light beams interrupted.

Alarm output:

WARNING: If connect higher power loading ($> 1A$) directly to camera alarm out will cause damage the camera.

Higher current ($>0.5A$) will accelerate aging of the relay on camera PCB, external relay box is always recommended to protect the camera.

Chapter 4 System Requirement

4.1 The lowest hardware configuration

- ◆ CPU: Intel Pentium 2.0GHz (**Don't support AMD CPU**)
- ◆ Memory: 1,024MB
- ◆ Graphics Card: TNT2
- ◆ Sound Card: Speaker, Mic
- ◆ Hard Disk: Recording Image, no less than 40G

4.2 The recommended hardware configuration

- ◆ CPU: Intel Core2 DUAL 2.0GMhz or above
- ◆ Memory: 2,048MB
- ◆ Graphics Card: Nvidia Geforce FX9400 or ATI RADEON 9000 series 256MB video memory, graphic card supports hardware Scaling

The PC graphics card must support hardware zoom in & out.

Tested Graphics Cards are as follow:

- Nvidia TNT/ TNT2,
- Geforce GTX295/285; Fx 8800/ 9600/ 9800 and its series;
- ATI Radeon 7000/7200/7500/8500/9550/9600/9700/9800 and X & HD series,
- Matrox G450/ 550;
- INTEL 865G/ 875G and its series.



Operation System

- ◆ Chinese; English: Windows2000/ Windows XP/ Windows Vista/ Windows 7.

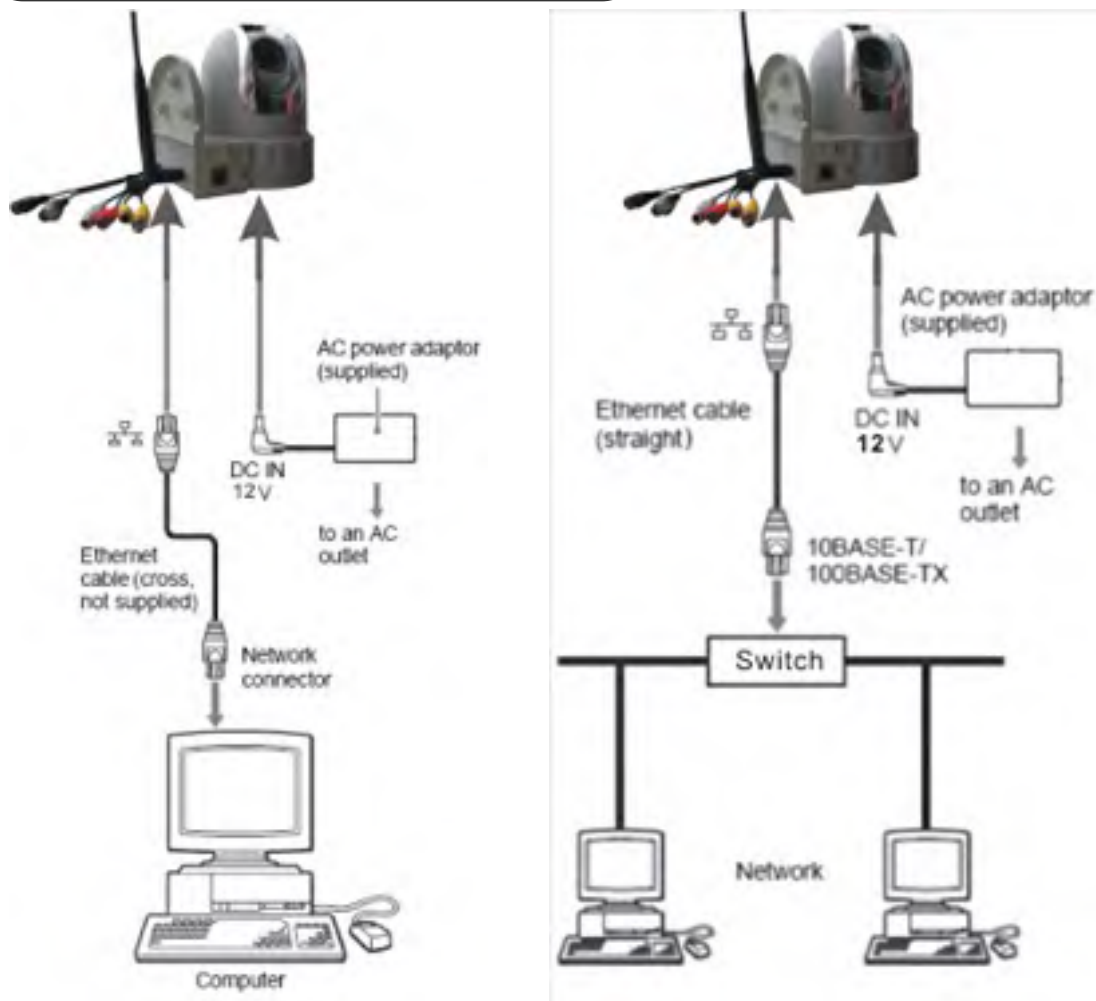


Software

- ◆ IE 6.0 or above
- ◆ DirectX 8.0 or above
- ◆ TCP / IP protocol

Chapter 5 INSTALLATION

5.1 CONNECT to PC or LAN



CAUTION:

Please use the DC power adaptor that is provided with the camera. Connecting camera to other power source will cause permanent damage to the camera.



NOTE:

Please use straight Ethernet cable (CAT. 5e) to connect camera to your home/ office network switch/ hub or a broadband router.

For Wi-Fi models, you will still need to connect camera to your PC by Ethernet cable at first time installation, correct SSID, WEP/ WPA password & IP address must be set before you can connect the camera wirelessly (See more in section 6.8 Network Settings).

You will see two IP address by camera search software utility, if you didn't remove the Ethernet cable before the camera wireless connection.

Click “**Search Camera**” on Utility CD auto-play menu*, will find all the *Clairvoyant* IP cameras in your local network.

* To use SearchNVS software to search and modify network parameters (IP address, Subnet mask, Gateway etc.).

NOTE:

A: Find the SearchNVS.exe in 【tool software】 folder of Utility CD and copy it to PC.

B: Install the Central Management software first, follow below steps to find the SearchNVS:

【Start】 --- 【all programs】 --- 【NVS Center500】 --- 【Search NVS】 .

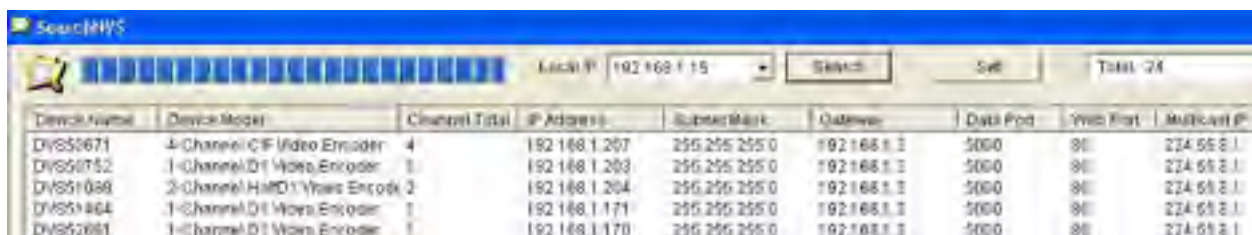
The factory default settings of the IP Camera are as follows

IP: **192.168.55.160**; Subnet mask: **255.255.255.0**

User name: **admin**; Password: **admin**

Run the SearchNVS software to search and modify IP Camera network parameters. SearchNVS use multicast protocol to find *Clairvoyant* IP cameras, most firewalls forbid the multicast data packets. So please close the firewall first or enable/ allow SearchNVS to use multicast protocol.

Click on 【Search】 button to start search IP Cameras as illustrated below:



Device Name	Device Model	Channel Total	IP Address	Subnet Mask	Gateway	Data Port	Web Port	Multicast IP
DVS50671	4-Channel CIF Video Encoder	4	192.168.1.207	255.255.255.0	192.168.1.1	5000	80	224.55.2.1
DVS50752	1-Channel D1 Video Encoder	1	192.168.1.203	255.255.255.0	192.168.1.1	5000	80	224.55.2.1
DVS51088	2-Channel HMD1 Video Encoder	2	192.168.1.204	255.255.255.0	192.168.1.1	5000	80	224.55.2.1
DVS51464	1-Channel D1 Video Encoder	1	192.168.1.171	255.255.255.0	192.168.1.1	5000	80	224.55.2.1
DVS52081	1-Channel D1 Video Encoder	1	192.168.1.170	255.255.255.0	192.168.1.1	5000	80	224.55.2.1

【Local IP】 Display the local PC IP. If your PC has multiple NICs or multi-addressed local IP, please select an IP address to connect NVS.

In the above Search NVS software interface, it shows this computer has searched all IP Cameras in LAN. If there are many IP cameras in your LAN, you can distinguish which camera is yours by the Device Name based on the unique device ID. The Device Name was named in the factory as “DVS+ID number”.

Note:

Please make sure there is DHCP server available, or set your PC IP address manually. Your PC won't “Obtain an IP address automatically” without DHCP connected.

SearchNVS won't work on a PC without IP address.

Please select the correct Network Interface Card (that connected to cameras) IP address for “Local IP” if you have multiple Network Interface Cards installed in your PC.

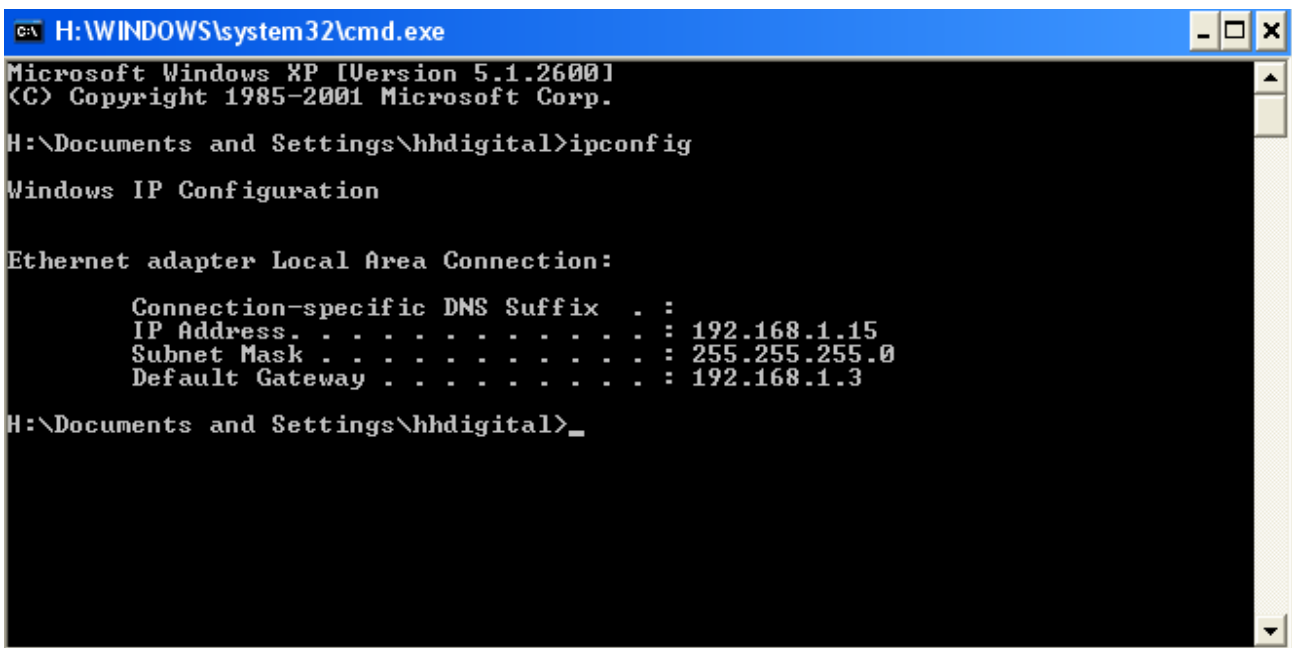
Set IP address for IP camera.

Your computer IP address must be “in the same subnet” of IP Camera in order to visit IP camera. So we need to set the IP address of the IP camera before accessing camera.

To get your PC IP configuration information: go to command mode by click 【Start】 → 【Run】 , then input “command” or “cmd”(Windows 2000/XP system).click “ok”:



Type “ipconfig” at command prompt”, press “Enter” button, you will get your PC Network Interface Card IP address/ Subnet mask/ Gateway information.



Please remember the **IP Address, Subnet Mask, Default Gateway**, then setup the IP Camera IP address according to your PC IP address to ensure **computer & IP Camera IP addresses are “in the same subnet”**.

For example : Set **IP Camera IP addresses** to 192.168.1.100. **Default Gateway & Subnet Mask** same as PC.

Click **【Set】** to set “**Network Parameter**” as illustrated below:

The screenshot shows a 'Network Parameter' dialog box with the following fields and values:

- Device model: [Empty]
- Device name: IPCam1001
- Channel num: [Empty]
- MAC: [Empty]
- IP address: 192 . 168 . 1 . 100
- Subnet mask: 255 . 255 . 255 . 0
- Gateway: 192 . 168 . 1 . 3
- Data port: 5000
- Web port: 80
- Multicast IP: 224 . 55 . 8 . 1
- Multicast port: 5000
- DNS: 202 . 98 . 134 . 133
- Username: admin
- Password: admin

At the bottom, a message reads: "The Device will reboot, when network parameters are modified." There are 'OK' and 'Cancel' buttons.

Modify relative Network Parameters; click “**OK**”, then the IP camera will reboot.

Test the IP camera connection: **go to command mode** by click **【Start】** --- **【Run】**”, then input “**command**” or “**cmd**” (Windows 2000/XP system).click “**ok**”,

Type “**ping 192.168.1.100**” at command prompt, press “**Enter**” button, you will get following information:

```
H:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

H:\Documents and Settings\hhdigital>ping 192.168.1.100

Pinging 192.168.1.100 with 32 bytes of data:

Reply from 192.168.1.100: bytes=32 time<1ms TTL=64
Reply from 192.168.1.100: bytes=32 time<1ms TTL=64
Reply from 192.168.1.100: bytes=32 time<1ms TTL=64
Reply from 192.168.1.100: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

H:\Documents and Settings\hhdigital>
```

The message shown on above indicates the IP Camera is functioning normally and connects to

same subnet (LAN) correctly. If the screen displays other information, please confirm the IP address settings and check the network cables again.



Warning:

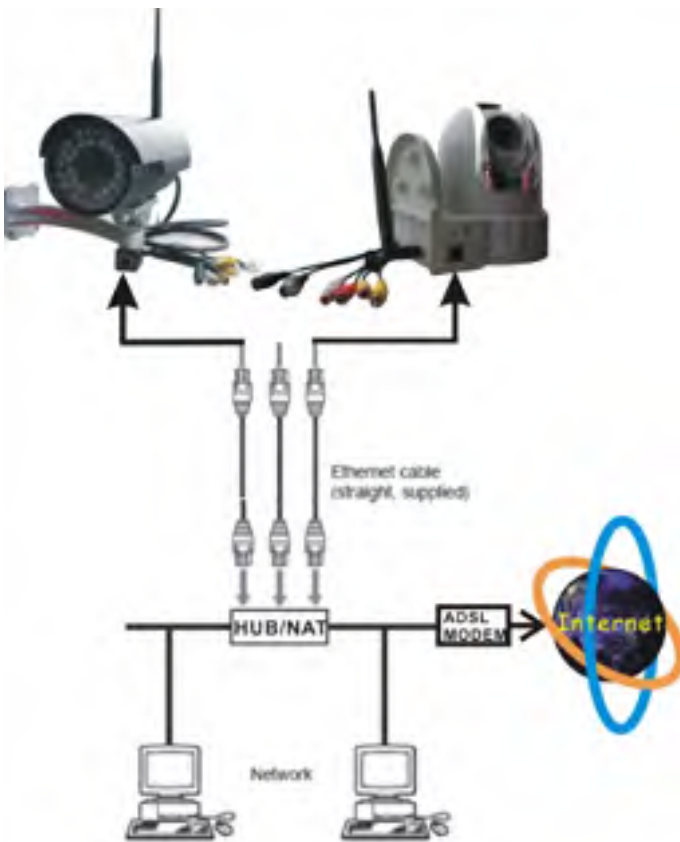
Please consult your office network administrator to get a free IP for your IP Camera, duplicated IP address will cause undesired problems.



CAUTION:

Please always write down the password and keep password in safe place. Please kindly notice, if you forget password you set, you will have to return the camera to manufacturer for recovery, there is no way to reset password of your camera.

5.2 CONNECT to WAN



Connect IP Camera to your broadband router or NAT gateway.

Do the following setup:

1. Setup Virtual Server/ forward port on your router to camera,
2. or set your Camera IP to router DMZ
3. Obtain DDNS service from mvDDNS if you don't have fixed public IP,
4. Setup DDNS account information to your camera
5. Access camera URL through Internet.

Example:

http://your_camera.myddns.net:port

Please reference more details of Router & mvDDNS setup on Reference User's Manual.

Note:

Clairvoyant IP cameras/ Video servers support PPPoE auto-dial-up, that you can connect your camera directly to an ADSL modem, please remember to setup DDNS and email parameters before you enable PPPoE function.

It's impossible to access "LAN IP" from Internet; IP started with 192.168.xxx.xxx is LAN IP. LAN IP sometime called illegal IP, only legal "Public IP" can be accessed through Internet. It's not possible to access your LAN IP through Internet or you will be in big security threat, Hackers can access your bank account information and secrets stored in your LAN PC

You will need to connect IP camera Internet before you can access from remote through Internet, there shall be a "Gateway" connect your office network (LAN) to Internet (WAN), usually it is a broadband router, you will need to change settings of your broadband router to enable the accesses from Internet to your camera.

Connect IP camera Internet:

1. Port Forwarding: forward port 80 & 5000 (default web & data port) (See your router manual)
2. Set DNS & Gateway settings of your camera
3. Register a new DDNS account for DDNS Service, Set DDNS settings of your camera.

Note:

- a. Broadband router is firewall in nature will block all accesses from Internet, you will need to set virtual server (port forwarding) on your router, normally we will always suggest to use port 80 or port > 1024 for web port to avoid conflicts, port <1024 are frequently used by other applications.
- b. Check if the DNS & Gateway settings are correct, it is impossible to get out of your LAN if wrong. (Gateway is the door, DNS is like "map", people won't go out home without knowing where the door is or don't have map to find the way)
- c. Always test the DDNS service from remote IP (that is outside of your LAN), some router will block WAN port access from inside LAN.

The broadband router that connect Internet is similar to a "Security Guard" at the entrance of LAN (Local area network), who will protect you from un-authorized intrusions from outside (Internet), IP cameras located in LAN are well protected so that accesses from outside (Internet) are not possible to pass router "Guard". Remote viewer won't be able to access IP cameras behind router "Guard" from outside (Internet), unless you have gave **the correct "commands"**, letting router "Guard" to allow outsiders access the cameras in LAN. The correct "commands" are so-called "Virtual Server" or "Port Forwarding" settings on various routers, please reference the routers user's manual to learn how to enable "Virtual Server" http port & data port (default are: 80 & 5000) on your router. ("Port Forwarding" = mapping WAN http port & data port (default are: 80 & 5000) to LAN IP address & ports)

5.3 Install ActiveX and Login

1. Install "OCX setup", ActiveX controls (plug-in) required by IE browser is installed simultaneously (**click on the "Install 1st" tab on product CD pop-up Manu**).
2. Download ActiveX controls (plug-in) required, set the safety property of IE in the PC only **at the first time accessing new IP Camera**

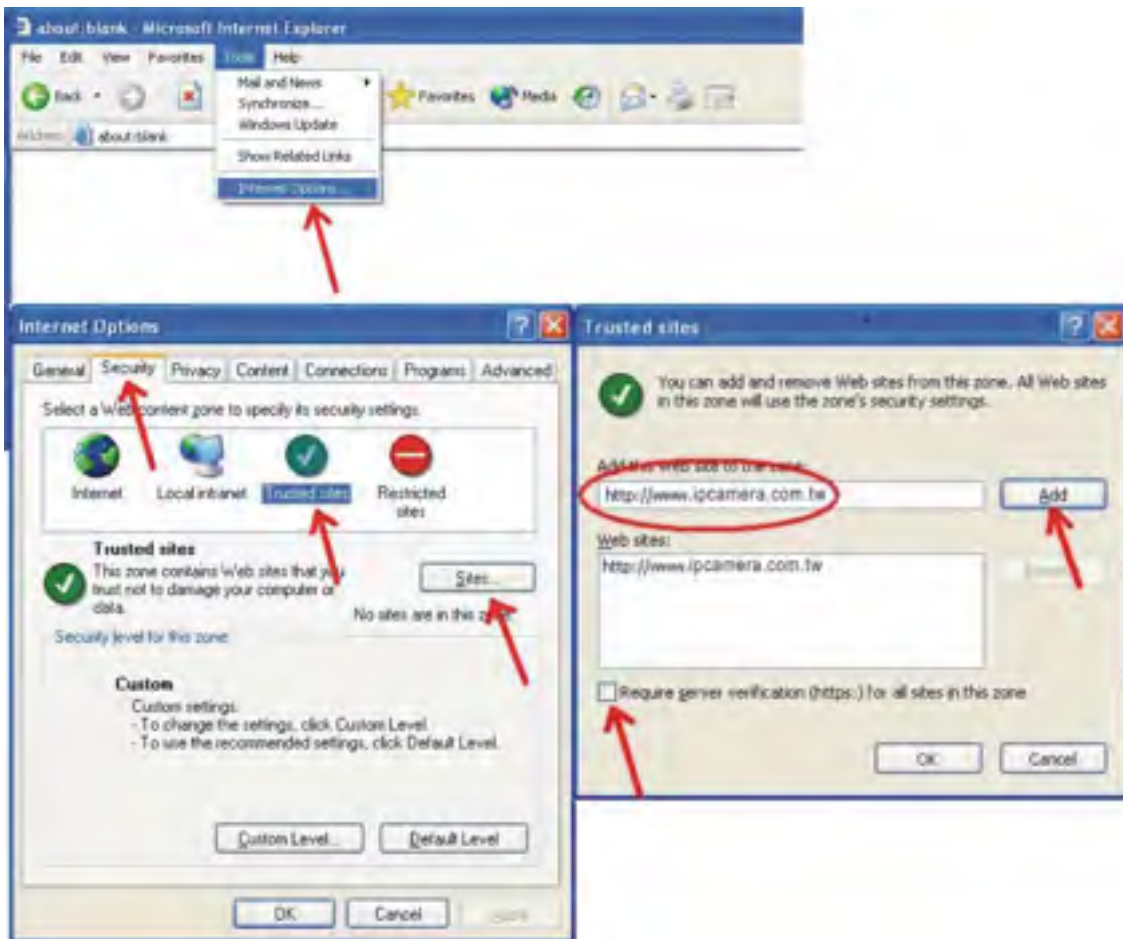
Note:

Before Install "OCX setup" must close all IE browser windows.

Before accessing *Clairvoyant* IP Cameras/ Video servers through IE browser, please follow below steps to "Add camera IP address or URL to your IE trusted sites list".

In order to download & install ActiveX controls, you will need to add your camera IP/ url address to your IE browser "**Trusted sites**"

IE browser → "**Tool**" → "**Internet Options**" → "**Security**"



Remember to un-check the “Require Server verification (https:) for all sites in this zone”
 Type in http://CameraIP_address or URL to “Add this website to the zone:” field, click on “Add” button.

You can add your LAN subnet to your trusted sites by adding http://192.168.0.* if your LAN subnet is 192.168.0.xxx.



Choose Custom level and enable all ActiveX features of Trusted sites zone

IE browser → "Tool" → "Internet Options" → "Security" → "Custom Level" → "ActiveX control and Plug-ins" three settings should set to "Enable",

Remember to set the Security level of "trusted sites" to **Low**, Click "Apply" or "OK" to save

Enable download and run un-signed ActiveX plug-ins.

Enable:Download unsigned ActiveX controls

Enable:Initialize and script ActiveX controls not marked as safe

Enable:Run ActiveX controls and plu-ins



After installed CAMERA ActiveX controls, enable “**Run ActiveX controls and plu-ins**”, you can view camera video as followed:

Type IP address of the IP camera in **Internet Explore** address field; Click “**Enter**” to bring up the camera Login page as illustrated below:

System Login

USER LOGIN

User name: admin

Password: [masked]

Submit Cancel

Notice

For initial access or issues with viewing the camera image, please click the link below to download the ActiveX setup file. Once the file is decompressed and installed, please login to the camera again.

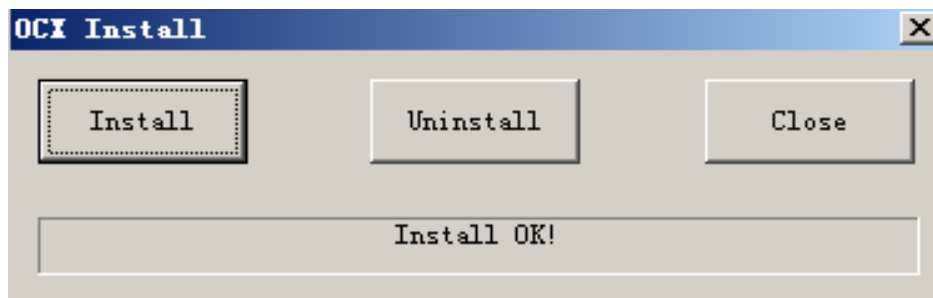
After installing the OCX successfully, please delete cookies in computer when user logins error, IE tool-->Internet option-->browser history (delete temporary file, history, COOKIE...) or confirm the username and password.

Download OCX Setup File [File](#)

Download
ActiveX

Click **File** to download the ActiveX:

A new dialogue box will pop-up, click **Run** to start Installing ActiveX:



Close current Internet Explorer Window, close all IE Windows. click "Install" button, after installed the ActiveX will show "Install OK".

Again, type IP address of the IP camera in **Internet Explore** address field; Click **“Enter”** to bring up the camera Login page as illustrated below:

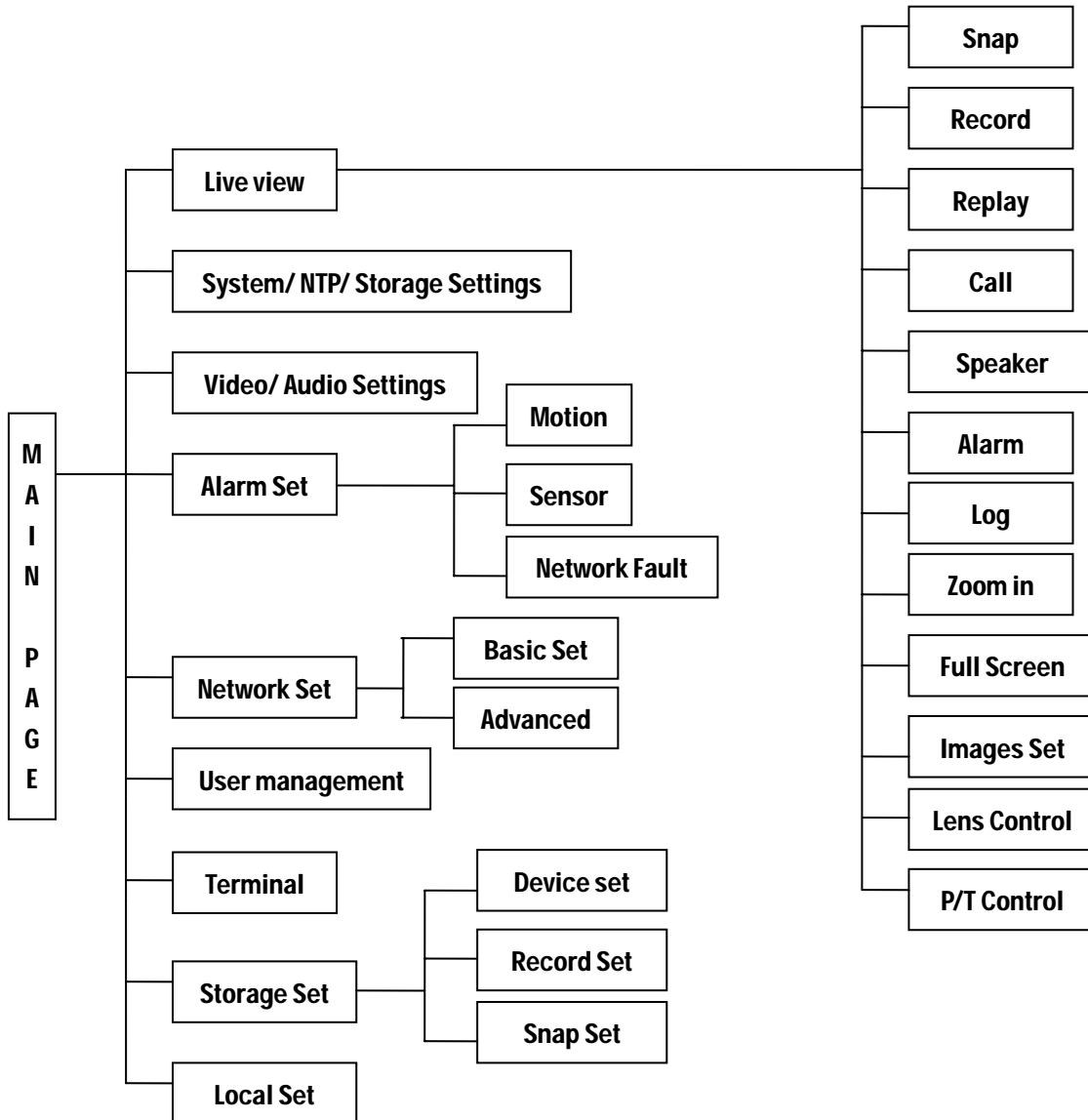


Input User name (Default: **admin**), Password (Default: **admin**), click **“Submit”** to bring up camera video page:



Chapter 6 Software Configurations

6.1 Menu Tree




6.2 Live View Page




In the Live view webpage, administrator can do operations :


Taking Snapshots, Recording, Playback, Talk-Back, Speaker, Alarm on/ off and Image Parameters Settings.

【 Snap 】 click “Snap”, take the current image snapshot, which can be stored in your computer hard drive in JPG format.

【 Record 】 Manual video recording, the current video can be stored in your computer in .MP6 format. The working status as:  **Record**

【 Replay 】 click “Replay”, it will bring up a new Playback window, user can playback the recorded video or pictures captured.

【 Call 】 Mic. on/ off, If user connects Microphone and Speaker with IP camera, it can turn on the two way Audio function. The working status as:  **Call**

【 Speaker 】 Speaker on/ off, The working status as :  **Speaker**

【 Alarm 】 While there is an alarm, click on **【 Alarm 】** to stop the alarm manually .

【 Log 】 Evens log

【 Zoom in 】 Click on “Zoom in” change to red color, Select area to zoom in (live view)

【 Full Screen 】 Enlarge to full screen

【 Pan control 】 up, down, left, right, Automatic, speed adjusting



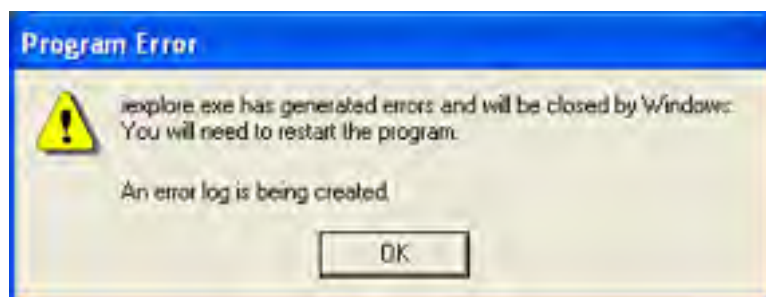
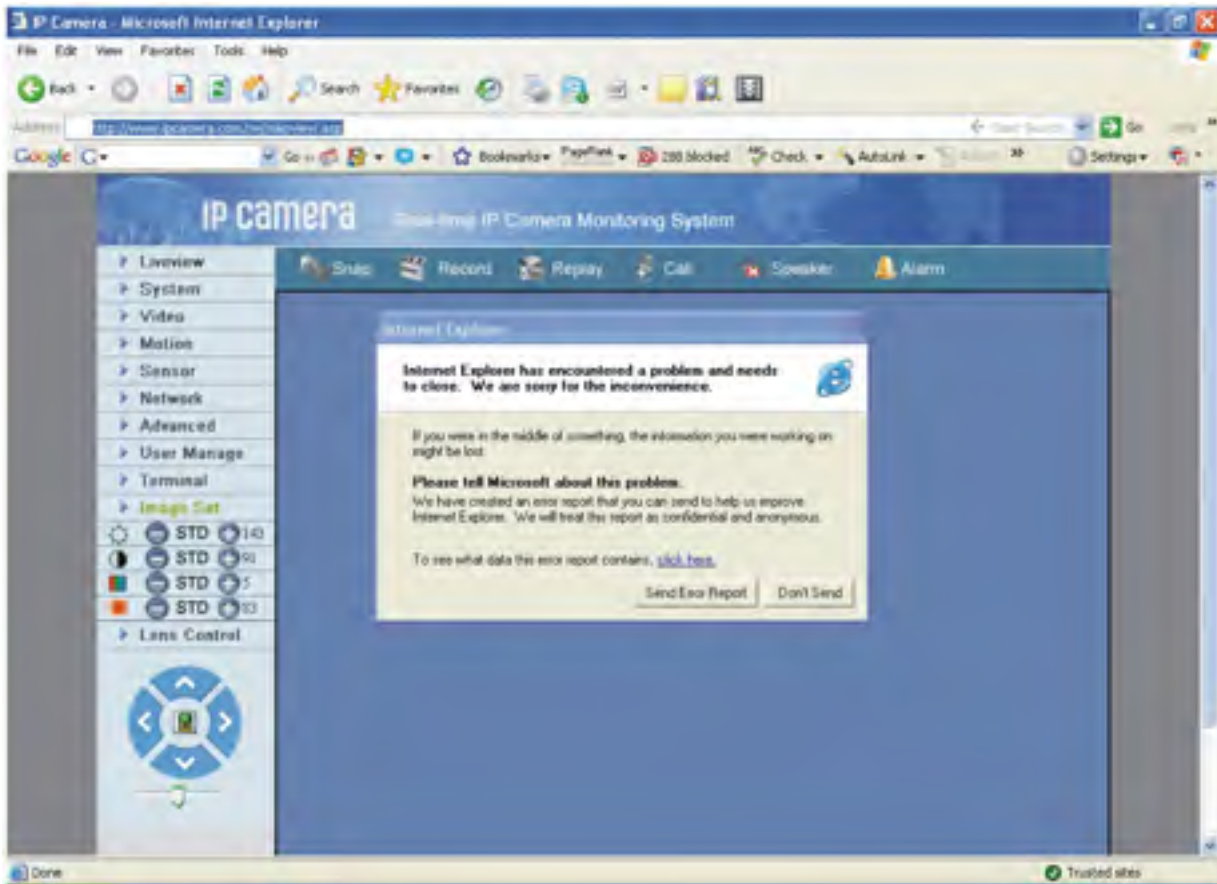
【 Image Parameters 】

CCD IP Camera: brightness, contrast, chroma, saturation adjustment as follows:

【 Lens Control 】 It can be adjusted Zoom, Focus, Aperture, Light, Clip, Preset, and Pan operation.

【 P/T Control 】 Pan / Tilt operation, PAN speed adjustable

Error Message



Note:

If you see above screen, which indicate your hardware is not powerful enough, please choose PC with more advanced processor.

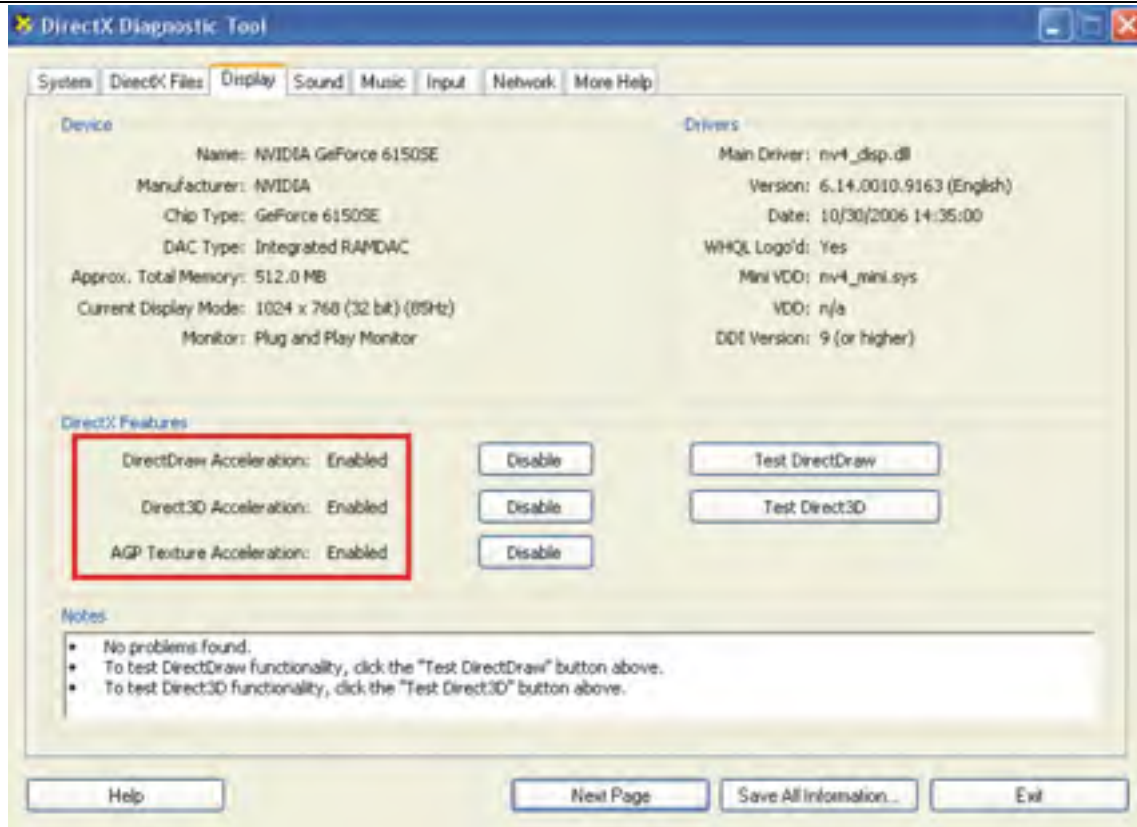
Minimum system requirement are:

CPU: PIII 2.0GHz or above; **AMD processors are not supported**


Display card : DirectX 9c compliant.

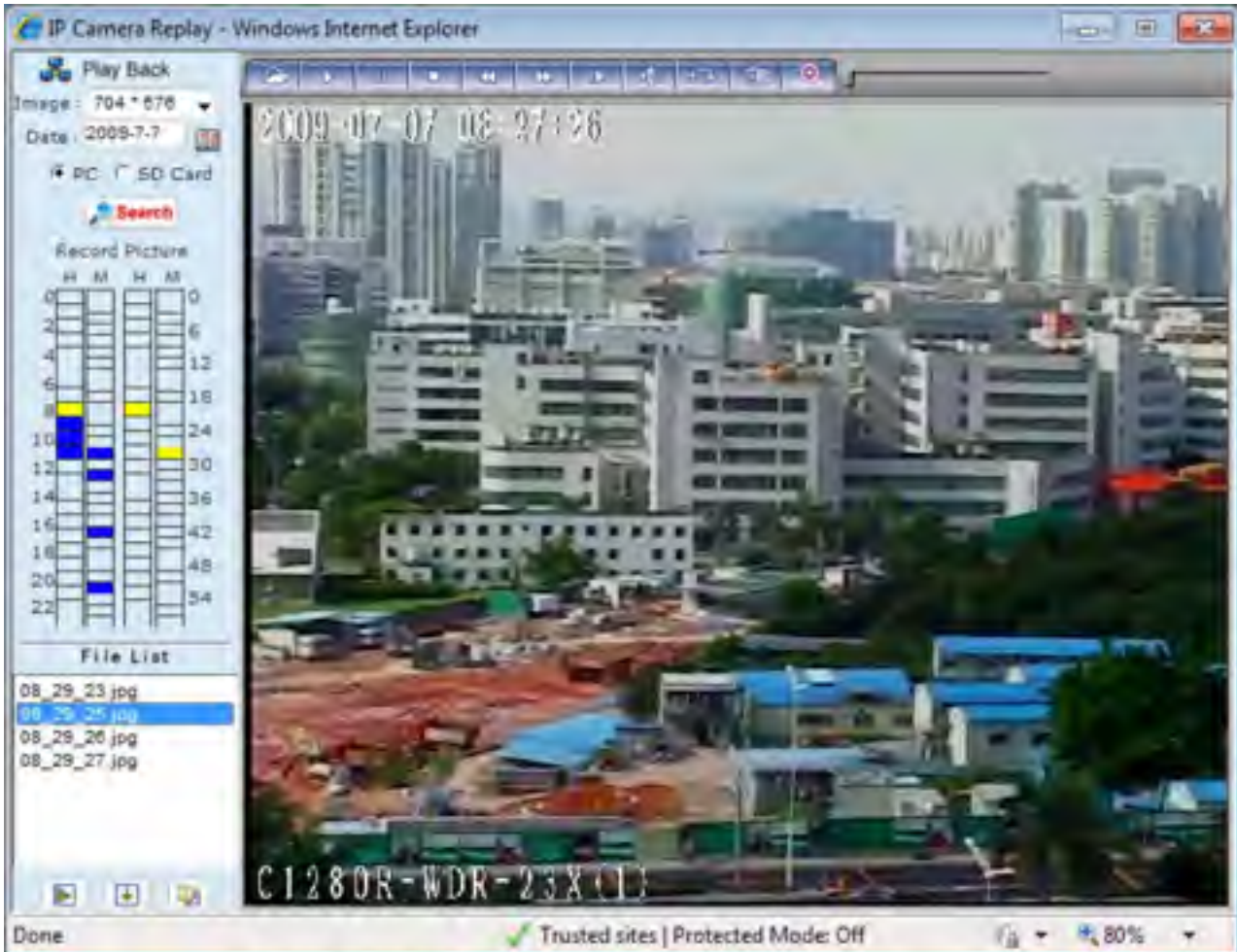
Start→Run→input DXDIAG

DirectDraw、 Direct3D、 AGP Texture Acceleration must be enabled



6.3 Video Playback

Click **【Replay】** button:  , to bring up the following webpage



User can search the recorded image files or snapshot pictures in local PC or SD card according to date.

【Date】 User can check the recorded video files or snapshot pictures according to the selected date, click the button :  calendar appears:

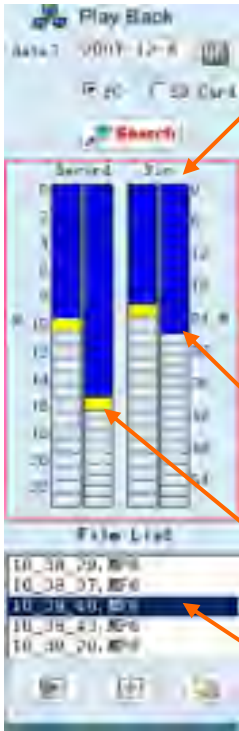


- Click “ ‹ ‹ ” icon to previous year
- Click “ ‹ ‹ ‹ ‹ ” icon to next year
- Click “ ‹ ‹ ” icon to previous month
- Click “ ‹ ‹ ‹ ‹ ” icon to next month

【PC】 check the recorded video files or snapshot pictures in local PC according to the selected date.

【SD Card】 check the recorded video files or snapshot pictures in SD Card according to the selected date.

【File List】 Shows the selected recorded video files or snapshot pictures in the File List. Check the current recorded video files or snapshot pictures in the list as follows:





There are two Lists: Record & Pic:
 Record List means the recorded video in PC on Dec 6, 2007
 Pic List means the snapshot pictures in PC on Dec 6, 2007
 The left of the Record / Pic List is the Hour (from 0 to 23)
 The right of the Record / Pic List is the Minute (from 0 to 59)
 The yellow icon means the video recorded / pictures taken in the selected time.
 The blue icon means the video recorded / pictures taken on other time.

This **blue** icon means the **picture** taken at 9:26 on Dec 6, 2007

Yellow icon means the **video** recorded at 10:38 on Dec 6, 2007

These files were named by the recording time. For example: the file 10_38_40.mp6 means this video is recorded at 10:38:40'.



【】 Choose the recorded video or snapshot picture in play list, then click “play” button as : 



Playback control as follows:

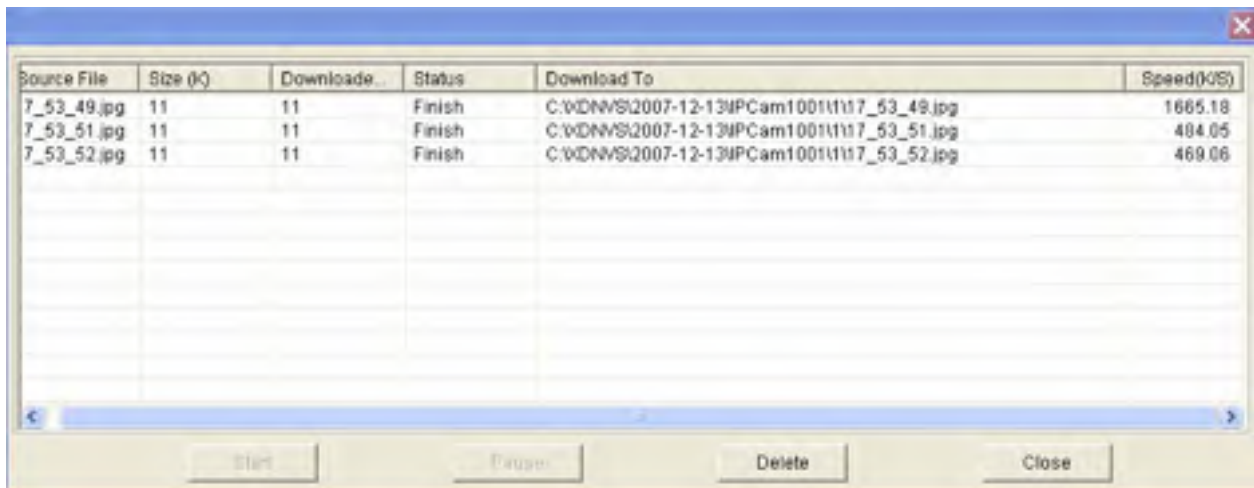
Time table



The buttons from left to right: File, Play, Pause, Stop, Backward, Fast, Single frame, Audio, Recycle, Snapshot.

【】 Searching the recorded video file or snapshot pictures which downloaded from SD card in Play list, click the “” button to download it to local PC.

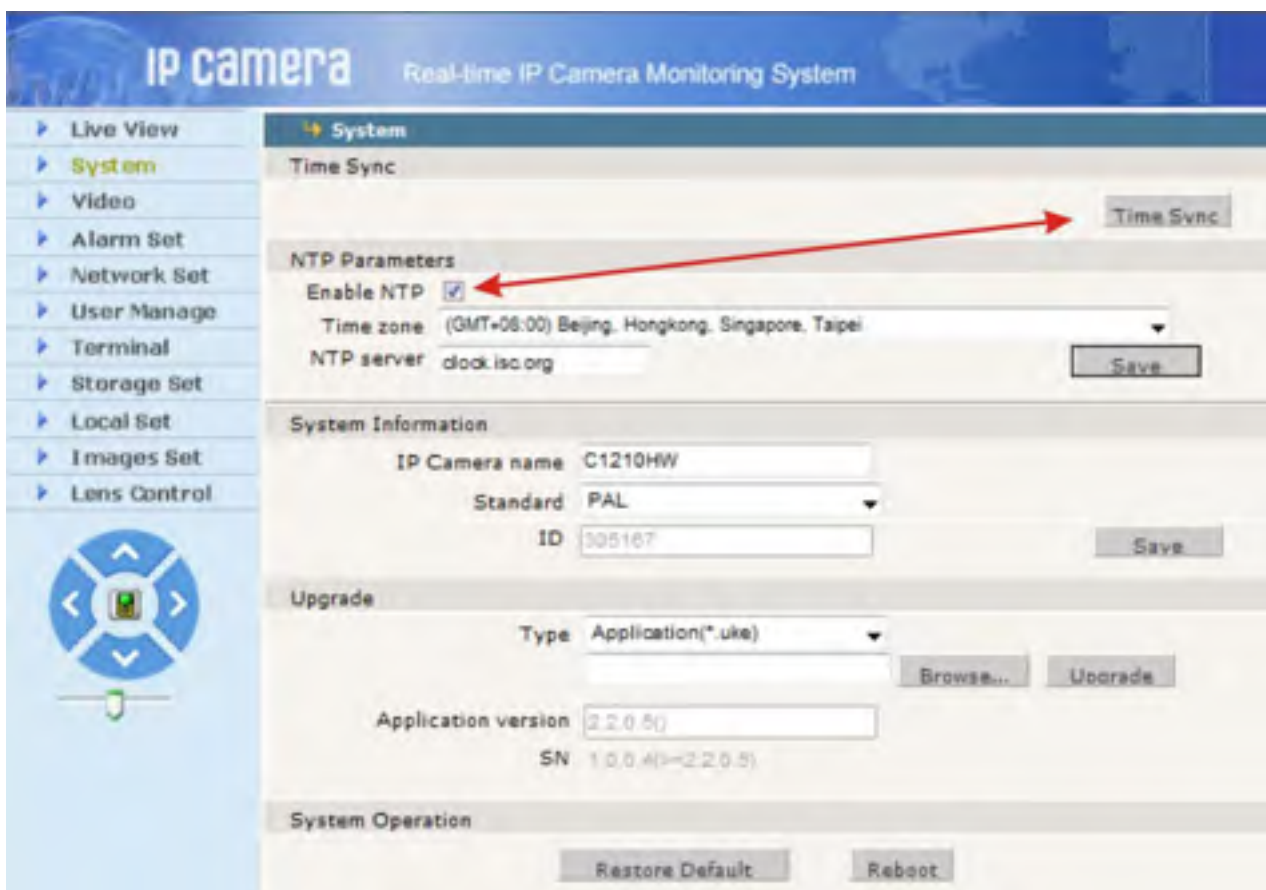
【】 following window pop up after click the “”:



Source File	Size (K)	Downloaded	Status	Download To	Speed(K/S)
7_53_49.jpg	11	11	Finish	C:\WDNVS\2007-12-13\IPCam1001\1\17_53_49.jpg	1665.18
7_53_51.jpg	11	11	Finish	C:\WDNVS\2007-12-13\IPCam1001\1\17_53_51.jpg	484.05
7_53_52.jpg	11	11	Finish	C:\WDNVS\2007-12-13\IPCam1001\1\17_53_52.jpg	469.06

Click **Pause** to pause download manually, click **Start** to continue downloading the remaining files, click **Delete** to del the file, click **Close** to close the download information window.

6.4 System Settings



The screenshot shows the 'IP camera' web interface with the 'System' menu selected. The 'Time Sync' section is expanded, showing the following settings:

- Time Sync**: A button labeled 'Time Sync'.
- NTP Parameters**:
 - Enable NTP**:
 - Time zone**: (GMT+08:00) Beijing, Hongkong, Singapore, Taipei
 - NTP server**: clock.isc.org
- System Information**:
 - IP Camera name**: C1210HW
 - Standard**: PAL
 - ID**: 305167
- Upgrade**:
 - Type**: Application (*.uke)
 - Application version**: 2.2.0.5
 - SN**: 1.0.0.4(3-2.2.0.5)
- System Operation**:
 - Restore Default**
 - Reboot**

System Clock: click: **Time Sync**, The camera time will be synchronized with your computer.
【NTP Parameter】: Please input the correct NTP server address and select the correct time zone. After save it, switch to **Live View**, The NTP sever will show the correct time got from NTP Server.

【System Information】 Display name, ID number and camera type (NTSC/ PAL).

Note: Rename the IP Camera name and save it, the camera will reboot.

【Restore Default】 Resume all the IP Camera parameters (Including Network parameter except MAC address) to default factory settings.

Note: Be careful when use this function.

【Reboot】 Click 【Reboot】 , the IP Camera will reboot after 5 seconds.

【Upgrade】 :

The sequence of the upgrade is as follows:

Step1: Application (.uke)

Step2: Other (.uot)

Step3: OCX (.uoc)

Step4: Web Page (.uwe)



【Upgrade】 : Click 【Browse】 button, select the correct file for upgrading.

Click 【Upgrade】 to upgrade. After finished, the IP camera will reboot automatically.

For example: The current version of IP Camera is V2.2.1.1; the new firmware version of IP Camera from the factory is V2.2.1.3 (file: kernel_ccd_v2213.uke) , click

【Browse】 button, select file:"kernel_ccd_v2213.uke", click 【Upgrade】 button, There is information showed that the upgrade file was downloaded to Flash in IP camera. When the upgrading finished, it shows "upgrade success", and the IP camera will reboot. After reboot, login and check the new version.



Never power off *Clairvoyant* IP Cameras/ Video servers during upgrading.

Don't interrupt the power and network connection during upgrading IP camera.

Must upgrade firmware according to the correct order, first upgrade the kernel Application, then OCX file and Page file.

Remember to clear up IE browser history before accessing camera after upgrading firmware

Must download new OCX again after upgrading firmware, See page 23 for more details

6.5 Video Settings

Title C1280R-WDR-23X

OSD
 Title Position
 Date Time Week
 Frame/Bitrate

Video Coding
 Preferred Stream Alternate stream
 Coding H.264 H.264
 Image 704 * 576 352 * 288
 Quality Basic Fine
 Advanced
 I frame interval 25 F 25 F
 Frame rate 5 F/S 5 F/S
 Rate control VBR VBR
 Bitrate 384 Kbps 384 Kbps
 Quality 4 4
 LAN... WAN... LAN... WAN...

Lens Control
 Auto Iris Level
 Auto Manual
 AWB
 AGC
 BLC

Mask area set
 Enable Mask
 Mask area set All

Snap picture parameter settings
 Picture format jpg
 Resolution 704 * 576

Audio
 OFF ON
 Mic line In

Save

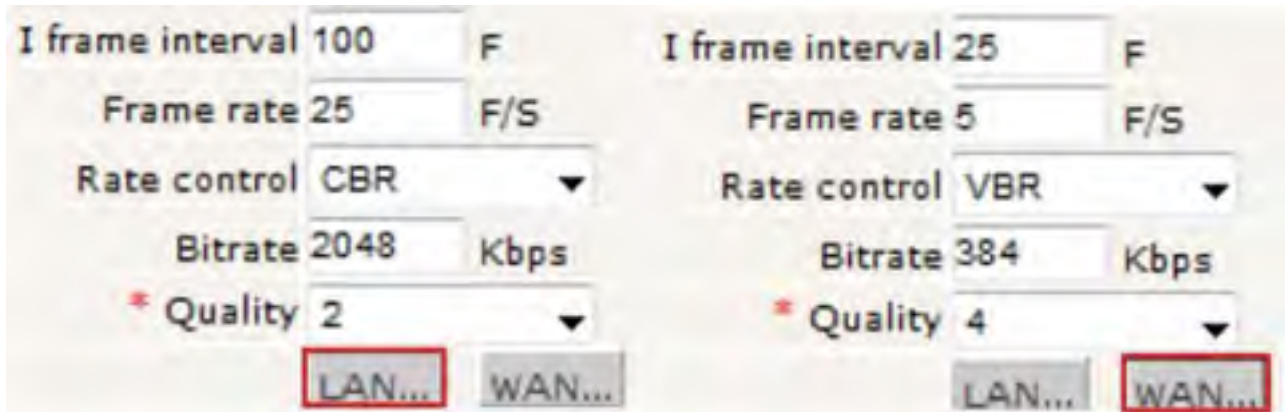
* For mode of IR in night use, please adjust its lightness and contrast parameters to achieve desired effect.

*The Quality value is 1 - 5,the smaller the value of image quality.

【Image】 : Set image resolution, CCD Camera supports
 PAL system D1 (704*576)/ HD1 (704*288)/ CIF (352*288)/ QCIF (176*144);
 NTSC system D1 (704*480)/ HD1 (704*240)/ CIF (352*240)/ QCIF (176*120)

【Quality】 : Options for **Fine, Normal, Basic** and there is advanced image setting.

【Advanced image setting】 as follows:



Choose LAN or WAN defaults to get best applicable settings

Note:

Why can't get image from H.264 IP Cameras? But can access MJPEG IP camera images with the same broadband WAN/ Internet connection?

IP Cameras with H.264 compression won't display video if I frame lost, received P/B frames won't display without I frame, at bad network connection, packets may lost or out of sequence, video won't start until a full I frame arrived.

Note:

I frame: full image

P frame: moving objects of I frame

P frame must join to I frame to become a full frame, if I frame lost, no video will display.

Please also check the available "upload bandwidth", normally ADSL is very small around 256~384kbps, please adjust the video settings to WAN defaults, adjust the bit rate to 256kbps, adjust video resolution to CIF or QCIF to fit for lower "upload bandwidth".

Note: the lower "upload bandwidth", the worse "network connection" the lower resolution should choose.

Please always use smaller "I interval" for Internet accesses, the worse network connection, the smaller "I interval" should use.

If set 2,048Kbps throughput with highest resolution (D1) and full frame rate (25fps) on a ADSL connection with poor bandwidth, no video will display.

Please select most reliable MJPEG video compression, which send pictures frame by frame, will drop pictures automatically at small bandwidth, which means users will always see pictures changing, the refresh rate is according to bandwidth available. The parameters of video quality and frame rate are not adjustable, will automatically adapt the available bandwidth.

This IP Camera adopts most advanced H.264 Main Profile compression with Dual compression (h.264 & MJPEG) & Dual video Streams output, which means you can choose most suitable compression/ resolution/ frame rate/ quality according to real application scenario.

Note: don't use the advanced image setting if you are not professional personnel.

【Audio】 Set audio ON/OFF (Default: OFF), there are two models: Microphone and Line input. If users don't need audio status; please close audio input to save the DSP resource and network resource.

【Mask Area Set】 Mask all image or Mask part image, the whole image divided into 22 * 18 blocks. Select the blocks to mask, or cancel the mask setting.

6.6 Motion Alarm Setting

The screenshot shows the 'Motion' configuration page. On the left is a navigation menu with 'Motion' selected. The main content area includes:

- Motion Detect:** Enable detect, Sensitivity: 4
- Schedule set:** Time1: 0:0-23:59, Time2: 0:0-23:59
- Alarm output:**
 - Alarm Output:
 - E-mail:
 - Snap:
 - Record:
 - Alarm output duration: 10 S
- Snap/Record settings:**
 - Snap: 1
 - Snap spacing / Record time: 1 S
 - File save mode: E-mail, Ftp

A red box highlights the following note: "When there is storage device (harddisk,SD card,U disk) connected with IPCAM,it is the default storage for alarm recording."

Setting motion alarm parameters: included the schedule time, on/ off the alarm, sensitivity, trigger alarm output, alarm delay, alarm recording on PC storage or capture snapshot to SD card when alarming. (The snapshots stored on SD card can be downloaded to PC on **【replay】** page)

【Schedule】 Set the time of motion alarm detection.

【Alarm output】 Alarming, trigger alarm signal output.

【Alarm delay】 Alarming, delay the alarm (the period of time after alarm that continuous alarms will be ignored) automatically, set the time from 0~86400 seconds.

【Alarm record in PC】 Automatically recording video and stored it on PC storage when

alarming if no SD card in camera.

【Alarm snapshot in SD Card】 Automatically capturing image and stored it in SD when alarming. If there are continuous alarms, the interval time of capturing is the delay time. For example, the alarm delay is 10 seconds; it will capture an image stored in SD card every 10 seconds. The image in SD card can be downloaded to PC when replay. And when the SD is full, the old file will be over written automatically.

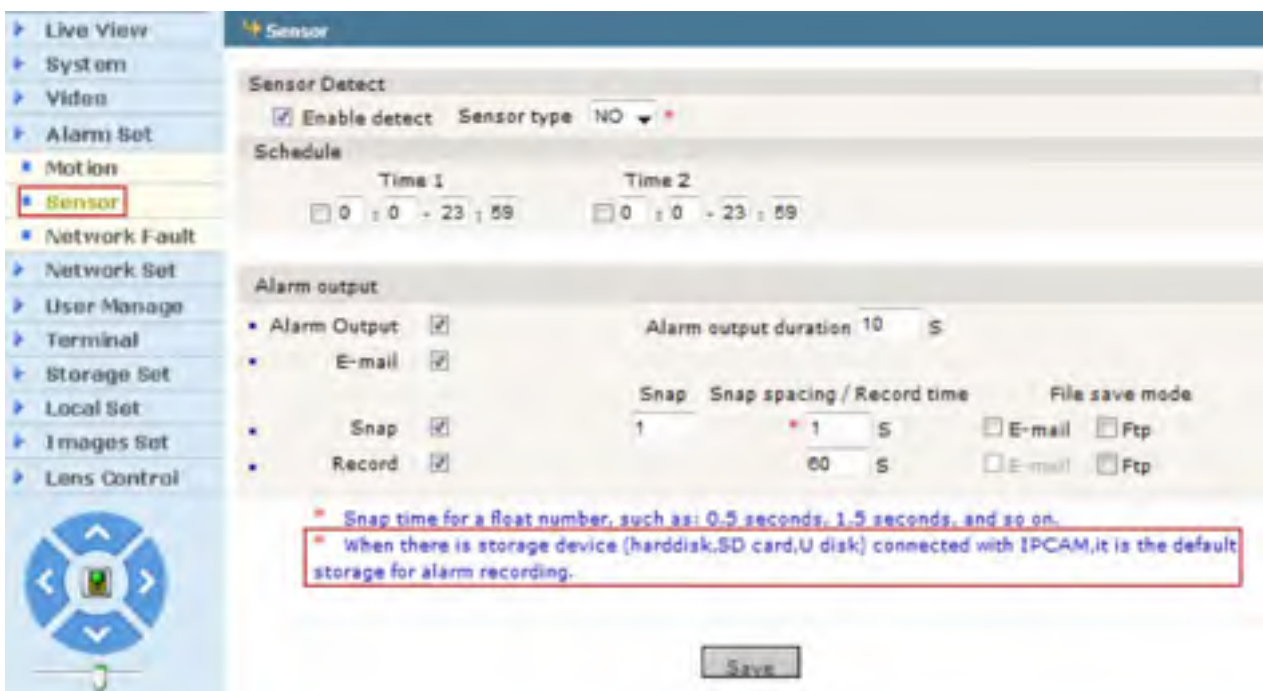
【Area set】 : Hold the left button of mouse and drag the motion detect area.

【All】 Set whole image as motion detect area

【Clr】 Clear all motion detect area.

After setting, click the **【save】** button.

6.7 Sensor Alarm Settings



Setting sensor alarm parameters: include the schedule time, on/ off the sensor alarm, sensor state, alarm output, alarm delay, alarm record on PC storage or capture snapshot on SD card when alarming.

【Schedule】 Set the time of sensor alarm detection.

【Alarm output】 Alarming, trigger alarm signal output.

【Alarm delay】 Alarming, delay the alarm (the period of time after alarm that continuous alarms will be ignored) automatically ,set the time from 0~86400 seconds.

【Alarm record on PC】 Automatically recording video and stored it on PC storage when alarming if no SD card in camera.

【Alarm capture on SD Card】 Automatically capture snapshots, stored on SD when alarming. If there are continuous alarms, the interval of snapshots is the delay time. For example, the alarm delay is 10 seconds; it will capture an image store on SD card

every 10 seconds. The snapshots on SD card can be downloaded to PC when 【replay】. And when the SD is full, the old file will be over-written automatically.

After setting, click the 【save】 button.

The screenshot shows the 'Network fault alarm' configuration page. On the left is a navigation menu with options: Live View, System, Video, Alarm Set, Motion, Sensor, Network Fault (highlighted), Network Set, User Manage, Terminal, Storage Set, Local Set, Images Set, and Lens Control. Below the menu is a camera control icon. The main content area is titled 'Network fault alarm' and includes the following settings:

- Network fault alarm detect:** Enable detect
- Alarm output:**
 - Alarm output: Alarm output duration: 10 S
 - E-mail:
 - Snap: Snap: 1 Snap spacing / Record time: 1 s File save mode: E-mail Ftp
 - Record: Record time: 60 s File save mode: E-mail Ftp

Footnote: * Snap time for a float number, such as: 0.5 seconds, 1.5 seconds, and so on.
* When there is storage device (harddisk,SD card,U disk) connected with IPCAM,it is the default storage for alarm recording.

At the bottom center, there is a 'Save' button.

6.8 Network Setting

Setting IP Camera address, Subnet mask, Gateway, MAC, Data port, HTTP port, DNS address. The device will restart after setting and save. If IP camera is connected to Wi-Fi network, please don't use the same subnet IP addresses for both wired & Wi-Fi.

Please make sure the IP camera IP is set to the same “**subnet**” of your LAN IP, please consult MIS or network engineer if don't understand what is “**subnet**”

If connect IP Camera directly to your PC, please make sure your PC IP is the same “**subnet**” of your IP Camera, **make sure to set your PC IP to manual settings.**

Before you can connect your IP camera from Internet, please must read below check points:

It's impossible to access LAN IP from Internet, IP started with 192.168.xxx.xxx is LAN IP, LAN IP is illegal IP, Only legal public IP can be accessed through Internet.

No one can access your LAN IP through Internet or you will be in big security threat, Hackers can access your bank account and secrets stored in your LAN PC

1. Broadband router is firewall in nature will block all accesses from Internet, you will need to set virtual server (port forwarding) on your router, normally we will always suggest to use port > 1024 to avoid conflicts, port <1024 are frequently used by other applications.

2. Check if the DNS & Gateway settings are correct, it is impossible to get out of your LAN if wrong. (Gateway is the door, DNS is like "map", people won't go out home without knowing where the door is or don't have map to find the way)

3. Always test the DDNS service from another IP (that is outside of your LAN), some router will block WAN port access from LAN.

Please consult qualified network engineers for more details.



CAUTION:

If "Enable WiFi" check box is checked, will enable camera wireless interface, the camera won't respond to the broadcast search request cross subnets!!

Please must write down the wired LAN IP address before you enable Wi-Fi!!

SearchNVS.exe won't be able to find camera if your PC is not on the same subnet.

You won't be able to find the camera by IP camera search tool (NVS Search), if you have not correctly set the wireless network parameters or Wi-Fi AP has been switched off, even you have connected your camera to LAN by Ethernet cable.

WiFi Parameters

【IP address】 The IP address used to connect to your wireless network (wireless router/ AP), for example: 192.168.1.160

【Gateway】 Wireless network gateway (wireless router/AP), for example: 192.168.1.1

【SSID】 The unique SSID of your wireless network. This SSID must be same as the SSID of your wireless network (wireless router/AP). Save the parameters after setting. Dis-connect the Ethernet cable, visit IP camera through wireless IP address, for example 192.168.1.160.

【Type of encryption】 WEP, **WPA, WPA2**

【Mode】 802.11b or 802.11g (choose 802.11g for better performance)

Note: The IP of wireless network can't be same as the IP of wired network.

DDNS Setting

Enable Dynamic Domain Name Service will bind your camera with a fixed Domain Name (URL), user will access the camera by the URL, no matter what the dynamic WAN IP address may vary all the time.

【DDNS RegName】 User account registered on DDNS server

【DDNS Password】 User Password of DDNS server.

【DDNS Domain】 The unique URL set for internet access.

【DDNS Server URL】 Dynamic Domain Name Service provider URL.

【DDNS Port】 Default :30000.

【Data Port Map No】 Default :5000, is the TCP/IP port open on your Gateway/ Firewall which will forward to your camera.

【HTTP Port Map No】 Default :80, is the TCP/IP port open on your Gateway/ Firewall which will forward http access to your camera.

Note: If other than port 80 used, you will need to add http port number every time you access your camera by IE browser. (ex: [http://Camera_IP_Address\(URL\):port](http://Camera_IP_Address(URL):port))

PPPOE:

Dial-up setting, enable PPPOE if connect your camera to ADSL modem directly.
Get PPPOE Username, Password from your ISP, click 【Save】 button

Note: Please kindly notice the below facts of wireless video.

1. Most wireless cameras are 2.4GHz Wi-Fi, some are 11b, some are 11g
2. Most home routers are with 2.4GHz Wi-Fi, that support 11b+g by default.
3. Most SOHO routers are with **relative weaker power** to be complied with European ETSI regulations on wireless devices (Antenna + AP: total power < 20dBm)
4. The true throughput of 2.4Ghz Wi-Fi is 20Mbps maximum (not 54 or 108Mbps), will be lesser (down to 1Mbps or smaller) for longer wireless link distance or weaker signal strength (due to interference, wall, door, windows)
5. The IP camera video will be unstable (not fluent, bad quality, unclear with big square blocks), if packets lost during wireless transmission.
6. The Wi-Fi transmitting protocols will identify packets lost, will try to resend over and over again until transmit successful. Resend packets will jam the effective bandwidth under bad wireless link (interference, weaker signals)
7. The resend packets (previous lost packets) received will be discard as useless garbages, because it is out of sequence, out of sequence video frames are useless because of the real time nature of video.

Conclude the above facts, that's the reason why SOHO Wi-Fi AP will support "**no more than (4) wireless cameras**", but it is not necessary to be true, if we can conquer below difficulty:

1. For FCC regulations, it is not strictly limited the wireless power as European Countries, we can choose **professional AP** with higher power, plus higher gain directional antennas.
2. Choose only 802.11g wireless cameras, set the wireless AP to 802.11g mode only, to get best throughput. Note: 802.11b maximum throughput is only 4Mbps.
3. Choose more professional IP cameras with H.264 video compression that require lesser bandwidth per camera (30fps @D1, NTSC; 512kbps ~2Mbps maximum).
4. Avoid obstacles in between AP & IP Camera. Choose different wireless channels for adjacent AP.
5. Choose 802.11a (5.8GHz) for longer range wireless link, or under serious interference to ensure good wireless link quality.

6.9 Advanced Settings

Mail Setting:

When there is a motion alarm, the camera will send the alarm mail to the designated email box automatically

【SMTP Server】 Your Email server address, for example:hinet mail, the SMTP server is msa.hinet.net

【Mail From】 sender email address.

【Mail To】 receiver email address.

【SMTP User Name】 Your User account on SMTP server, please check your outlook email settings.

【SMTP Password】 Your User Password on SMTP server, please check your outlook email settings.

【Mail Title】 Title of the alarm mail.

【Alarm send mail】 If enable. When there is motion detection alarm, the camera will send the alarm mail to the designated email box automatically.

【Sensor alarm】 If enable. When there is sensor alarm, the camera will send the alarm mail to the designated email box automatically.

【Snap picture】 When there is a motion alarm or a sensor alarm, the camera will take snapshot and store it in the local PC.

UPNP Setting: Port mapping automatically: The Gateway/ Firewall server with UPNP function will map port for camera automatically.

【UPNP Network Card】 The camera interface connect to UPNP Gateway/ Firewall.

【UPNP mode】 There are **Designate** and **Auto** modes:

Designate mode: Camera will designate the data port and web port to UPNP Gateway/ Firewall.

Auto mode: Camera will get the data port and web port from UPNP Gateway/ Firewall.

【UPNP server】 Gateway/ Firewall IP address.
click 【 save 】 After setting.

Note:

Camera is full functional UPnP client, will communicate with UPnP Server through standard UPnP protocols, The Gateway/ Firewall must supports UPnP Server functions.

FTP Setting: Upload snapshot at alarm (motion & sensor), or by scheduled period of time (example: every 1 minute).

【FTP URL】 Your FTP server **IP address** (or our LAN DISK), for example:192.168.66.10

【FTP port】 default is 21.

【FTP Username】 FTP account name.

【FTP Password】 Your account password on FTP server.

【FTP catalog】 folder to store snapshots.

Note: FTP URL must be IP address, don't support domain name.

RTSP Setting: Enable RTSP streaming, will be compatible with vlc player, Coreplayer & Real player on 3G phones

【RTSP port】 default port is 554.

click 【 save 】 After setting.



WARNING: If RTSP enabled, **authentication is not required** to playback live video & audio by vlc media player.

Please be aware of privacy risk.

To play on vlc, Coreplayer (iPhone, Smart phones), Realplayer (Nokia Sabian)

Syntax

rtsp://Camera_url_or_WAN_IP:rtsp-port

Example:

rtsp://www.ipcamera.com.tw:554

6.10 User Management

User Manage

Administrator	
Username	<input type="text" value="admin"/>
Password	<input type="password" value="•••••"/>
Confirm Password	<input type="text"/>
<input type="button" value="Save"/>	

User	
Username	<input type="text" value="guest"/>
Password	<input type="password" value="•••••"/>
Confirm Password	<input type="text"/>
<input type="button" value="Save"/>	

Notice: Username, Password may consist of a-z, 0-9, underscores, and a single dot (.), 1 to 16 characters; capitalization matters.
Modify Username or Password please login again.

There are two user accounts. One is **Administrator** another is **Guest**. **Administrator** can change parameters of IP Camera.

Guest is not allowed to change parameter of IP Camera.

Note: Username/ Password are case sensitive, consisted of letters, numbers, underline or dot up to 16 characters.

Default Administrator Name: admin	password: admin
Default Guest Name: guest	password: guest

Note: It's case sensitive, must use the correct upper case/ lower case characters

6.11 RS-485 Settings

Terminal

COM Set	RS485	RS232
Baudrate:	9600	9600
Data bits:	8	8
Stop bits:	1	1
Check type:	None	None
Flow ctrl:	None	None

Embedded PTZ Protocol		
<input type="text"/>	Browse	Upload
PTZ address:	<input type="text"/>	
Embedded protocol:	<input type="text" value="PELO: I.COI"/>	

Save

When Speed Dome or PTZ Decoder connect to RS485 port. Correct Address, Protocol, Baudrate, Data bit, Stop bit, Parity Check, Flow Control must be set.

Download the corresponding protocol for the decoder.

click **【save】** after setting.

6.12 Storage Settings

The screenshot shows the 'Device Config' page in a web interface. On the left is a navigation menu with options like Live View, System, Video, Alarm Set, Network Set, User Manage, Terminal, Storage Set, Device Set (highlighted), Record Set, Snap Set, Local Set, Images Set, and Lens Control. The main content area is titled 'Device Config' and contains the following sections:

- Storage device Info:** A table with columns 'ChooseNO.', 'TotalSize(M)', 'FreeSize(M)', and 'State'. The first row is highlighted with a red border and contains: '1 SD', '3710', '3522', and 'formatted'. Below the table are 'Format' and 'Refresh' buttons.
- Storage device record parameters:** Includes a dropdown for 'Code stream' (set to 'Preferred Stream') and a dropdown for 'Record file packet time' (set to '1 M').
- Other parameters:** Contains two checkboxes: 'Overwrite old files when disk is full' (checked) and 'Auto search the storage device when start' (unchecked).
- Notes:**
 - When the device is not linked to the storage device (hard drive, SD Card, U disk), the device does not have function to store. But the video files, pictures can sent to the mail server to upload and Ptp
 - SD card hot-swap is not recommended.it may damage the SD card files.
- A 'Save' button is located at the bottom.

This screenshot shows the same 'Device Config' page as above, but with a modal dialog box overlaid in the center. The dialog box has a yellow border and contains the text 'Formatting storage device,Please waiting...' and a progress bar that is approximately 90% full. The background content is dimmed. The table in the background now shows 'TotalSize(M)' and 'FreeSize(M)' as '0' and 'checking' in the 'State' column.



CAUTION:
Never hot-swap SD card or valuable recording stored in SD card will be lost!!

- ▶ Live View
- ▶ System
- ▶ Video
- ▶ Alarm Set
- ▶ Network Set
- ▶ User Manage
- ▶ Terminal
- ▶ Storage Set
- ▶ Device Set
- ▶ Record Set
- ▶ Snap Set
- ▶ Local Set
- ▶ Images Set
- ▶ Lens Control

▶ Record schedule

Record schedule

Time 1 Time 2

0 : 0 --- 23 : 59
 0 : 0 --- 23 : 59

File save mode

E-mail Ftp

* When there is storage device (harddisk,SD card,U disk) connected with IPCAM,it is the default storage for schedule recording.

- ▶ Live View
- ▶ System
- ▶ Video
- ▶ Alarm Set
- ▶ Network Set
- ▶ User Manage
- ▶ Terminal
- ▶ Storage Set
- ▶ Device Set
- ▶ Record Set
- ▶ Snap Set
- ▶ Local Set
- ▶ Images Set
- ▶ Lens Control

▶ Snap schedule

Snap parameter

Snap spacing* 1.0 S

Snap schedule

Time 1 Time 2

0 : 0 --- 23 : 59
 0 : 0 --- 23 : 59

File save mode

E-mail Ftp

* Picture resolution and format in the "video" set.

* When there is storage device (harddisk,SD card,U disk) connected with IPCAM,it is the default storage for schedule snapshot.

6.13 Local Settings

The screenshot displays the 'Local Set' configuration page. On the left, a navigation menu lists various settings, with 'Local Set' selected. The main panel is titled 'Local Set' and is divided into two sections:

- PC live view parameter settings:**
 - Code stream: Preferred Stream
 - Preview mode: Real time
 - Reset Mosaic:
- PC Storage parameter:**
 - Record file packet time: 10 M
 - Record file path: C:\XDNVS\

A red note next to the 'Record file path' field states: "[Non-essential cases. Please keep the default path [C:\XDNVS]]". A 'Save' button is located at the bottom right of the configuration area.

【Record file path】 Setting storage path for recorded video file and captured snapshot file.
Default path: C:\XDNVS

Appendix 1 Network Port for IP Camera

TCP	80 (Web port)	5000 (Communication port, Audio/ Video data transmitting Port, Talk data transmitting Port)
UDP	5000	Audio/Video data transmitting Port
Multiple port	Multiple original port + Channel Number	

Appendix 2 Network Factory Defaults

Wired network defaults:

IP Address: 192.168.55.160

Subnet Mask: 255.255.255.0

Gateway: 192.168.55.1

Data port: 5000

Web port: 80

DHCP: OFF

Wireless network defaults:

IP Address: 192.168.1.160

Gateway: 192.168.1.1

Subnet Mask: 255.255.255.0

Frequency /Mode: Auto

Note: The wireless network can't be the same as the wired network.
Must be different subnet

Appendix 3 PTZ Dome Setup



CAUTION: Settings in this section are restricted to professional technical personnel, wrong settings may cause mal-functional, lost control, will result un-necessary RMA.

The default camera settings of C1262H speed dome camera:

IRIS	auto
BLC	off
Auto Scan	off
1 Cruising tracks	off
Baud rate	2400 bps,n,8,1
Address	1
Protocol	PELCO_D(STD_Speed)

Reference table: Recall/ Setup Preset points

Recall Preset Number	Function
101	CALL NO.1 CRUISING TRACK
102	CALL NO.2 CRUISING TRACK
125	360° AUTO SCAN
128	TWO POINTS SCAN
Set Preset Number	Function
126	Set two points scan
127	the left limit
128	the right limit

Note:

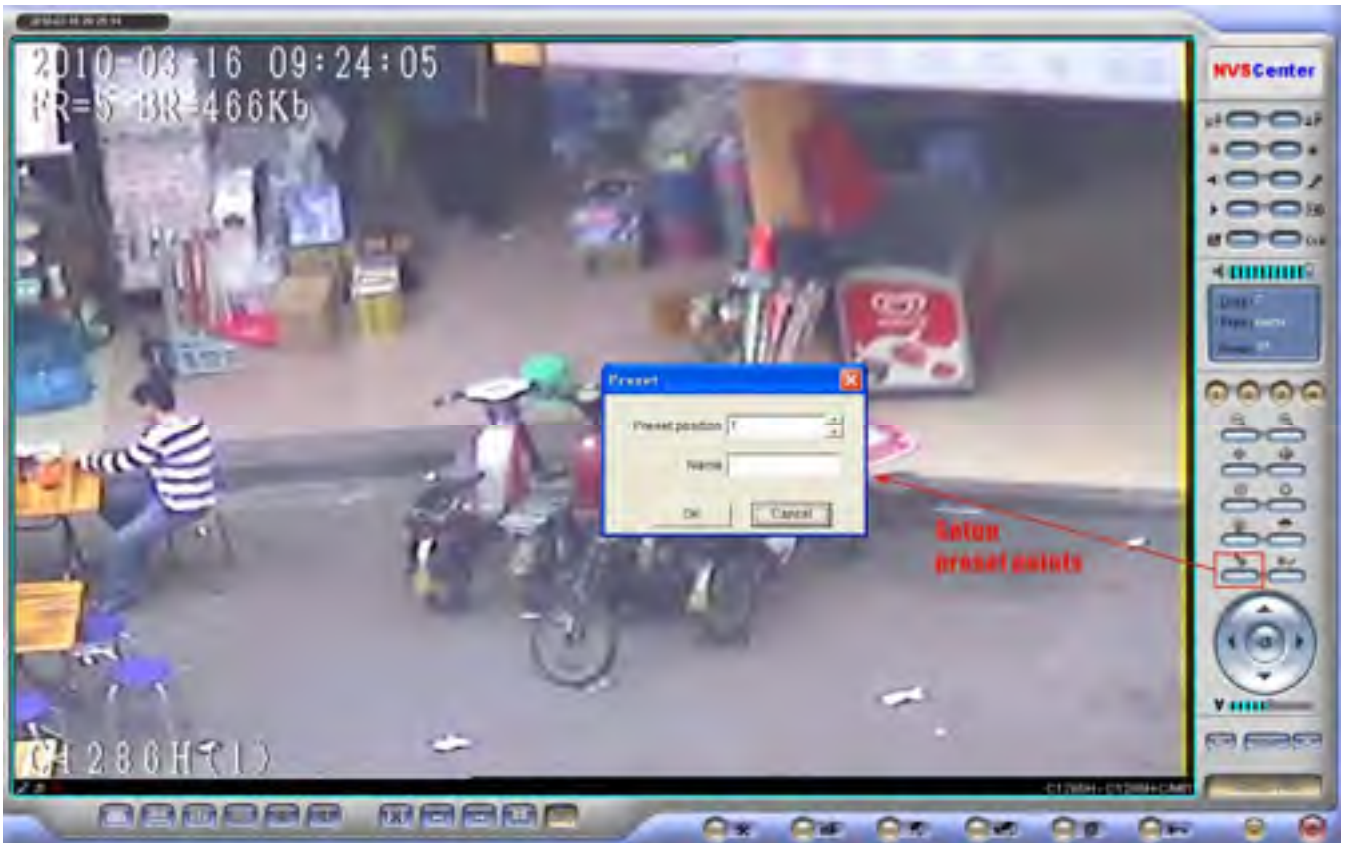
Light sensor integrated with camera will override the "Enable color" command at dark (forced B/W)

There are 127 preset positions, 2 cruising tracks. (Consist of 1~16 preset positions and 6 seconds stay time at each position)

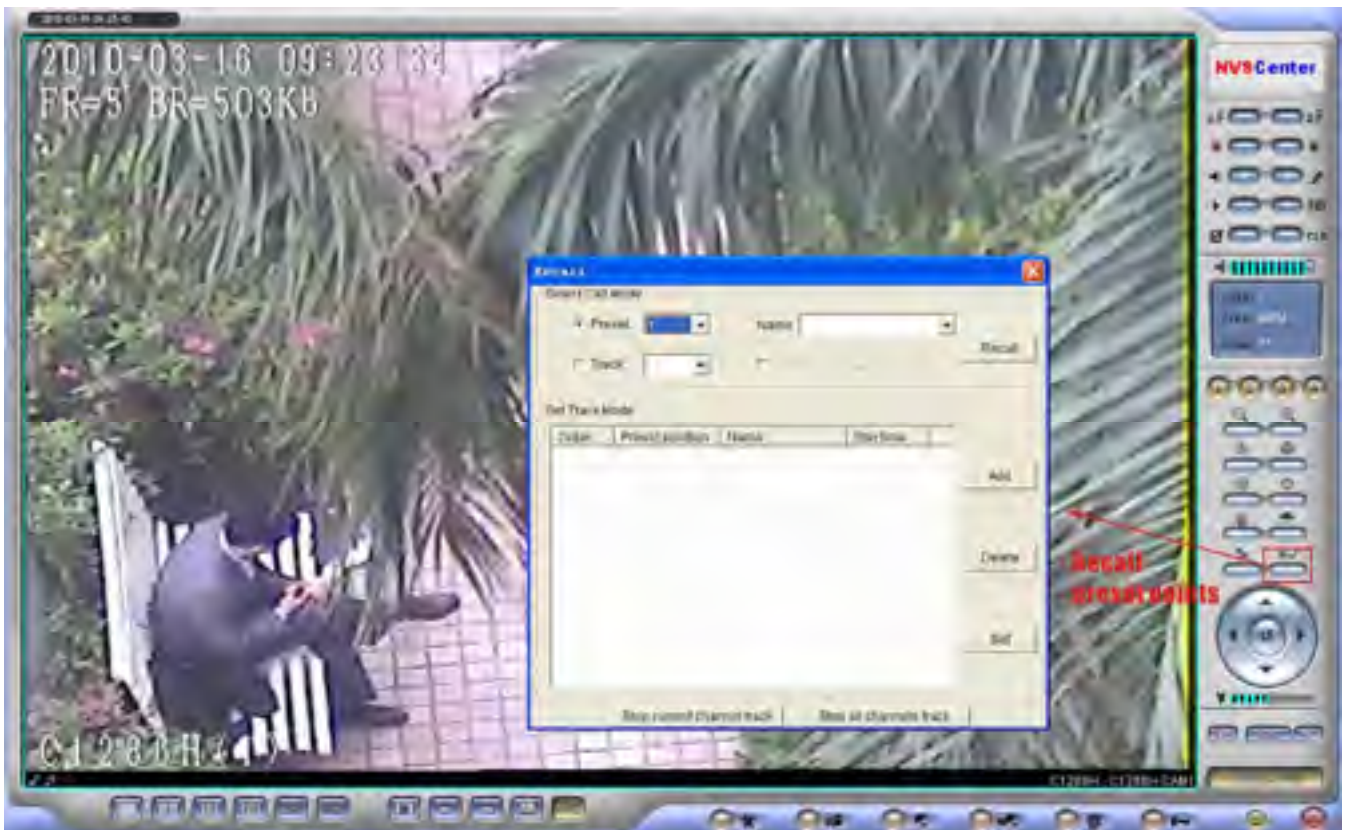
Auto Scan Function

Auto scan is a built-in function designed for the C12626H speed dome camera. C1262H camera can realize to auto scan to-and-fro at the preset speed between the left limit and the right limit. It is only necessary to set the left limit and the right limit positions in advance and operate an outer command to make the dome move at the fixed speed to realize the auto patrol without operators.

Set preset



Recall preset



Two point scan

Set by "**Set preset** position 126 to start **Two point scan setup**, **set preset** position xx indicates speed, **set preset** position 127 for **left limit** and **Set preset** positions **128 for right limit** also end **Two point scan** setup.

XX : can be 1 ~ 50, 1 slowest; 50 fastest



CAUTION:

Wrong left/ right limits may cause the C1262H scan between narrow ranges as you have set

2 Cruising Tracks

No.1st cruising track, consisting 8 preset positions. No.1st - 8th preset positions, stay 6 seconds at each position.

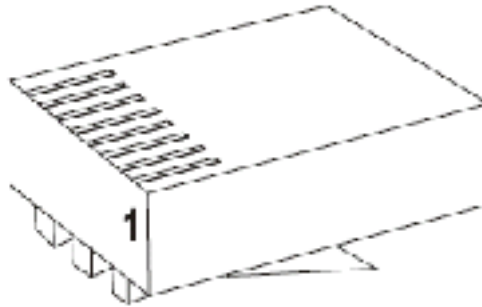
No.2nd cruising track, consisting 8 preset positions. No.9th - 16th preset positions, stay 6 seconds at each position.

Note:

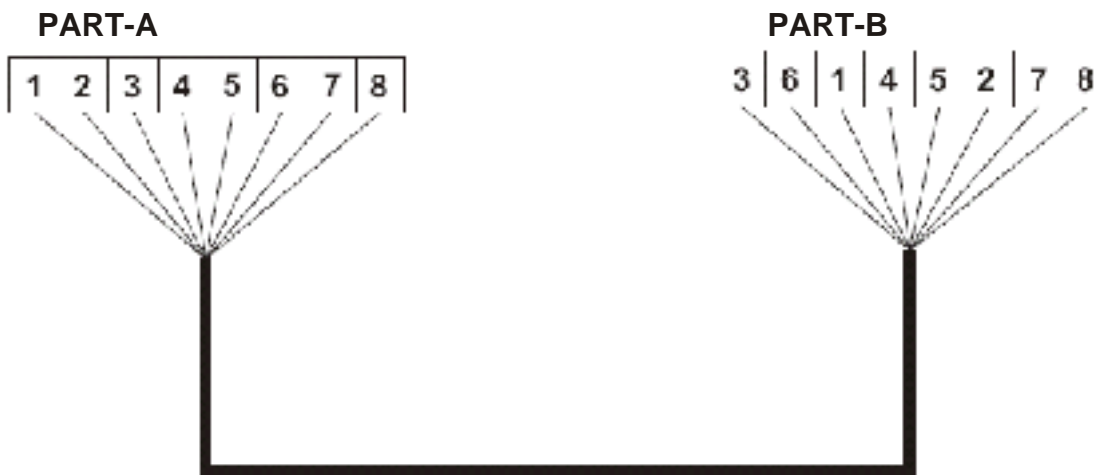
Must set No.1st - 16th preset positions before recall **Cruising Tracks**

Appendix 4 Cross Ethernet Cable Making Tip

I. LAN Plug
Pin: 1 ~ 8

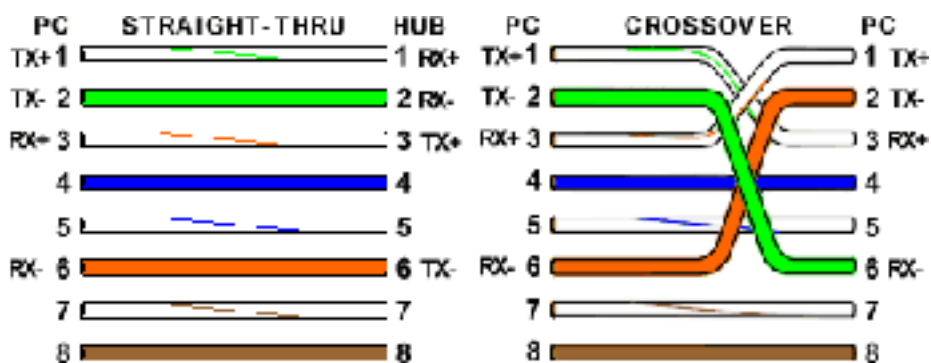


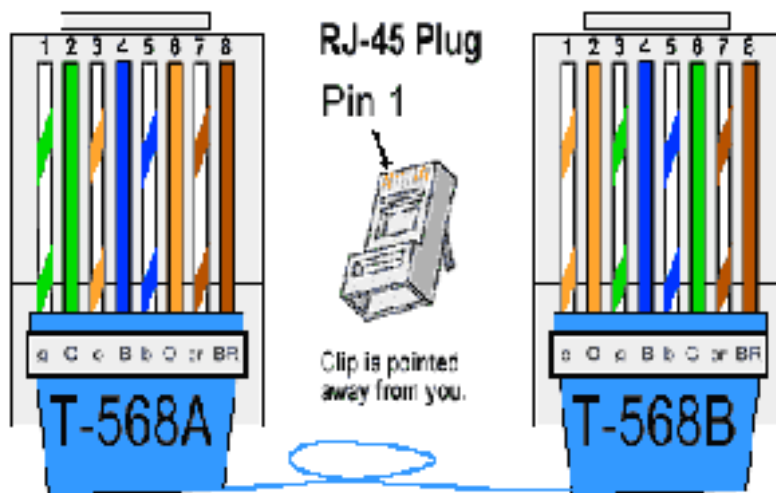
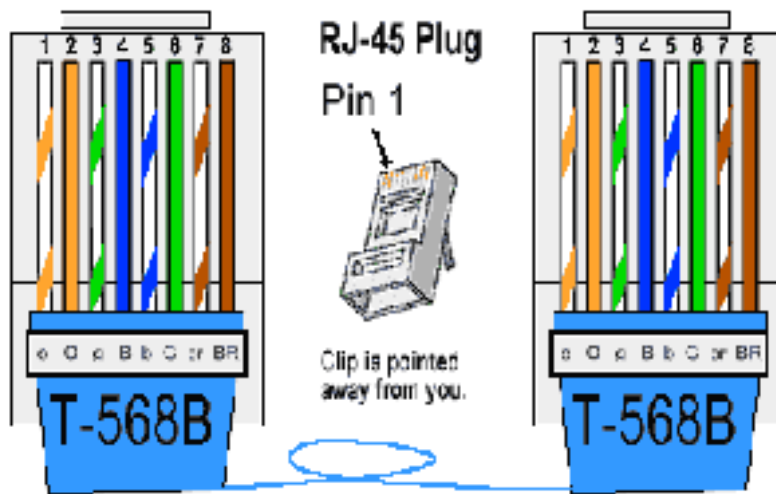
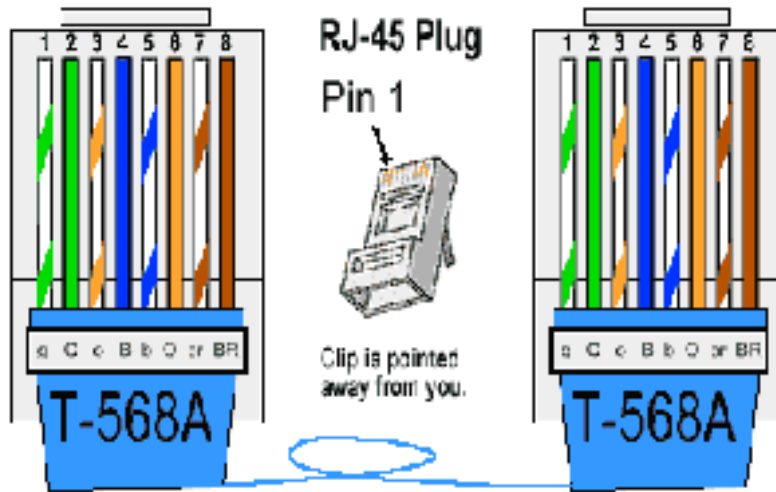
II. LAN Cable



III. Connection Method

- Connect LAN Cable Part-A and LAN plug by order as one to one .
- Connect to LAN cable Part-B & Part-A, Replace order No.1 & 3, No.2 & 6.
- Connect LAN cable Part-B No. 3 to LAN plug No. 1 and connect the next by order.





-----The End-----