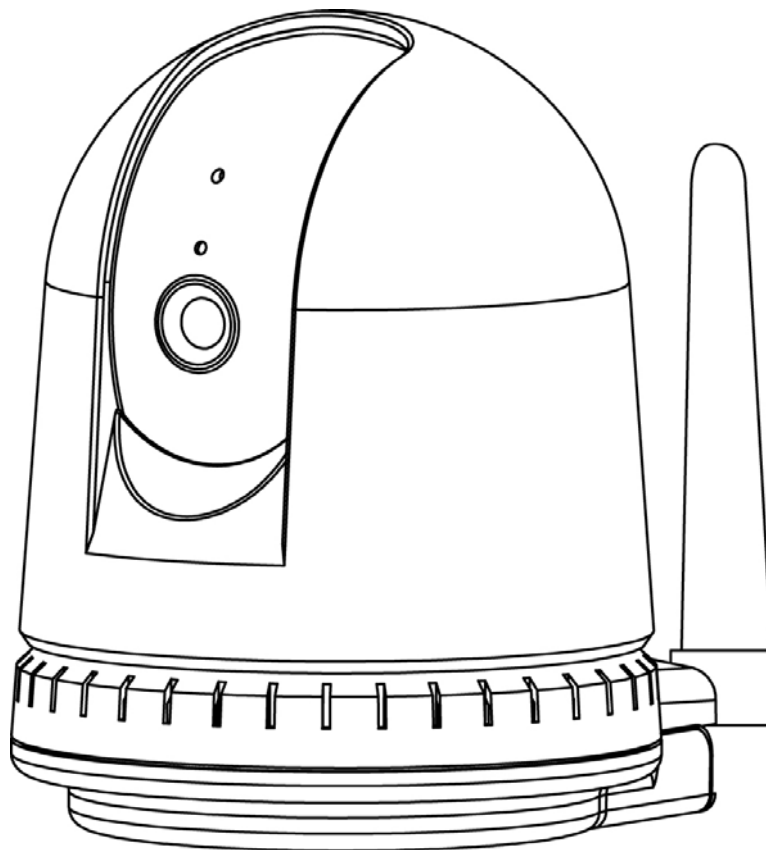




User Manual for WizeCam IP Camera

Network/IP Camera
with WiFi



Version No.: 3.0V

Please read this user manual carefully before using the product.

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Please e-mail: support@vdomain.com

For product information including driver and manual updates, refer to:

www.vdomain.com

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1. Overview

1.1 Brief Introduction

WiseCam is an integrated IP camera solution. It is using a single chip to implement media processing with the integration of Video and Audio, network transmission in one camera. This provides an extremely high definition, high integration at low cost for LAN/WAN –based, remote video monitoring device.

This IP Camera solution is adequate for small and medium homes or business offices remote network video transmission and monitoring. The product features easy installation and simple operation.

Special Features for each model:

- ◆ Pan /Tilt (270/120deg.)
- ◆ SD card
- ◆ Wireless Wi-Fi
- ◆ IR night vision (5m)
- ◆ Bi-directional listening
- ◆ Built-in microphone
- ◆ External alarm input/output

1.2 General Features

- ◆ Powerful high-speed video processor
- ◆ Remote Pan/Tilt rotate (Horizontal:270 Degrees / Vertical :120 Degrees)
- ◆ IR Night Vision
- ◆ Optimized H.264 video compression for low –bandwidth transmission
- ◆ High-Sensitivity CMOS sensor
- ◆ Supports wireless networks (WiFi/802.11 B/G) mobile networks (CDMA 1X and GPRS)
- ◆ Embedded Web Server
- ◆ Supports DDNS, LAN, and Internet (ADSL, Cable Modem)
- ◆ Multiple Network Protocols: TTP/TCP/IP/UDP/SMTP/DDNS/DNS/SNTP/DHCP/FTP
- ◆ Supports up to 10 users simultaneous
- ◆ Multi-Level users management and passwords definition
- ◆ SD Card for local storage , supports SD 2.0 (Max 32 GB)
- ◆ Build in / additional Microphone , supports bi-directional call and voice broadcast
- ◆ Transmits alarms in case of video loss or motion detection (VMD)
- ◆ 2 Way (I/O) connection
- ◆ Image shielding/image snapshot
- ◆ Remote system upgrades
- ◆ Smart Bracket for wall or ceiling installation

1.3 Operating Environment

Minimum Hardware Configuration:

CPU: Pentium 2.0 GHz

Memory: 256 MB

Graphics card: TNT2

Audio card: Mandatory for listening and bidirectional intercom

Hard disk: Recommended minimum size - 40G (or more).

Recommended Hardware Configuration:

CPU: Pentium 2.6 GHz

Memory: 512 MB

Graphics card: Nvidia Geforce FX5200 or ATI RADEON 7000(9000) 128M video memory

Operating System:

32-bit Windows2000, Windows XP, Windows2003 and Windows Vista, 32 and 64-bit

Software:

Internet protocol IPv4 (Note: IPv6 not supported for the time being)

IE 5.0 or above

DirectX8.0 or above

TCP/IP

Other requirements:

The graphics card running this software needs to support color conversion and zoom of images. Presently the tested graphics cards include: Nvidia Tnt/Tnt2, Geforce Mx200/400/420/440 Fx5200/5600, ATI Radeon 7000/7200/7500/8500\9000/9200/9500/9600, MatroxG450/550, and INTEL845G/865G.

Note: The driver for the graphics card must support hardware zoom.

1.4 Technical Specifications

Product	WiseCam
Image sensor	1/4"CMOS, 300,000 pixels, minimum illumination: 1 Lux
Video compression algorithm	H.264 baseline profile @Level 2.2
Video resolution	VGA: 640*480, QVGA: 320*240
Night vision distance	5m
PTZ control angle	Horizontal: 270°; vertical: 120°
Video adjustment parameters	Brightness, contrast, image quality
Stream format	Pure video stream or composite audio/video stream
Video frame rate	1~30 frame/second
Video compression bit rate	16Kbit/second ~ 4Mbit/second
Audio input	One linear input or embedded passive MIC input, MIC impedance: 1000KΩ
Audio output	One linear output
Audio compression algorithm	G.726
System interface	RJ-45, 10/100M Ethernet interface SD card slot; Maximum: 32GB (SD2.0 protocol)
Wi-Fi module	IEEE802.11b/g wireless network
Input power supply	5V/2A
Maximum power	6W
Operating temperature	0~+40°C
Operating humidity	10~85%
Dimensions (D x W x H)	95 mm x 95 mm x 13 mm (3.75' x 3.75' x 5')
WizeCam Weight (approx.)	410 gr (14,46 oz) w/o bracket , bracket 75 gr (2,64 oz)
WizeCam Kit Weight (approx.)	800 gr (28,22 oz)

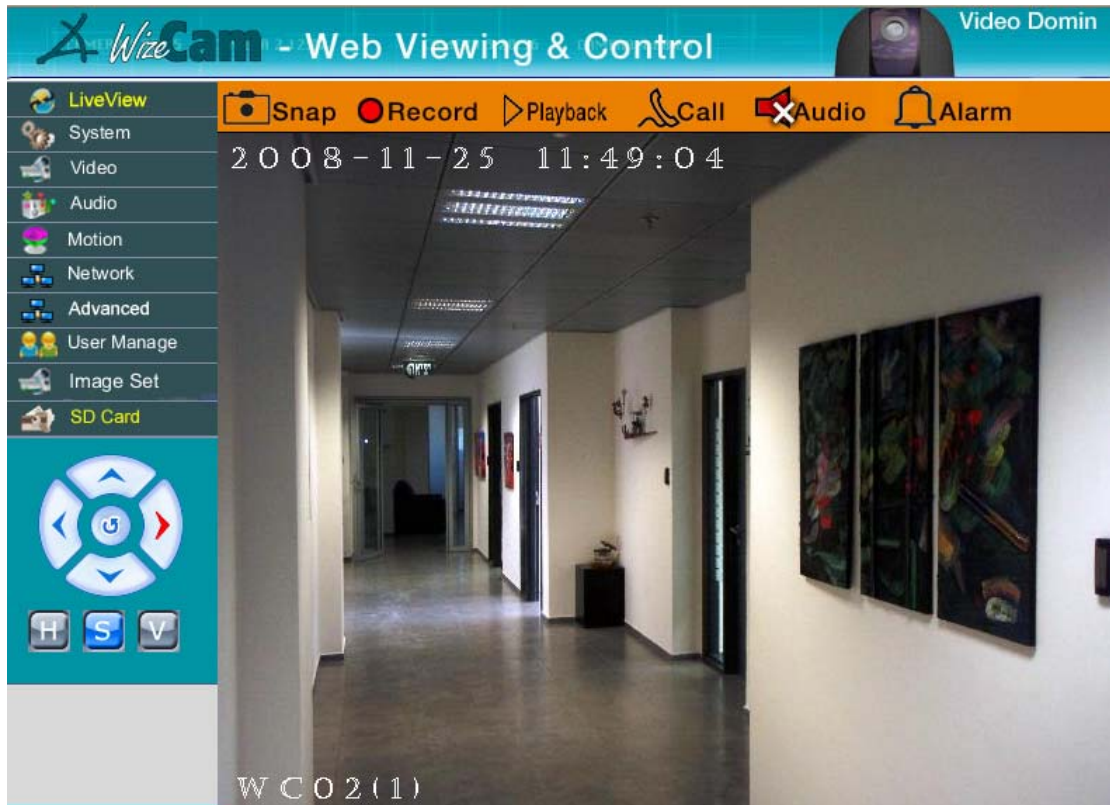
2. Structure and Installation

Please refer to the Quick Installation Guide in the packaging box.

3. Software Settings

Enter the IP address of the IP camera in the Browser/ IE address bar, for example, the default address of <http://192.168.1.1>. Enter the user name and password (both "admin" by default) to log on.

3.1 Live View

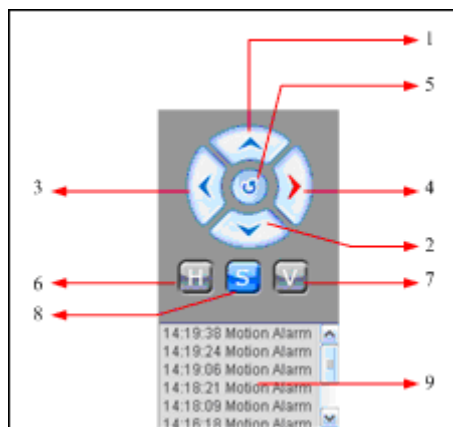


3.1.1 Setting Items

On the left of the Homepage are items that a user can select. If an item is clicked, the corresponding item turns yellow, and meanwhile goes to its setting interface. For detailed settings, refer to the following descriptions.

Note: Only the system administrator has the right to set parameters.

3.1.2 PT Control and Alarm Messages



Meanings of buttons:

1. Up
2. Down
3. Left
4. Right
5. Returns to the default/ initial position
6. Rotates once in horizontal direction
7. Rotates once in vertical direction
8. Stops continuous rotation
9. Displays/Lists alarm time and type in case of an alarm/s.

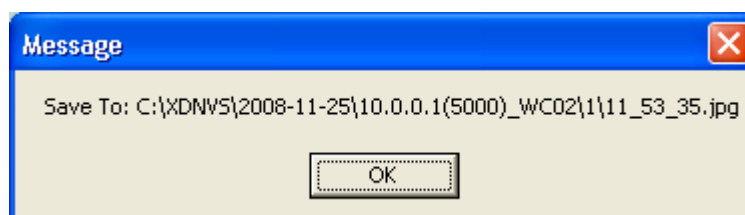
3.1.3 Functional Buttons



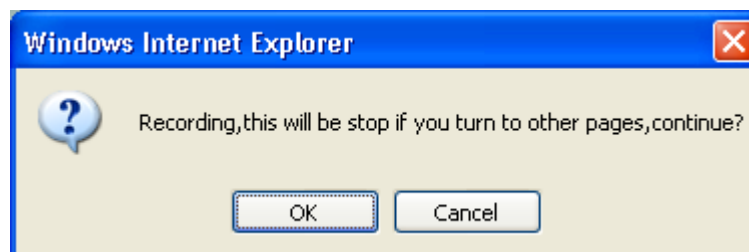
If clicked once, the above buttons will turn Red (except Alarm), indicating the function is active. Clicking once more it turns off the selected function (Record, Reply etc.).

Meaning of buttons:

Snap: Snapshots a JPEG picture and stores it in the designated path/location, as shown in the following figure:



Record: Records Video files and stores them in a designated path/location. If the Audio is required, recording can be made at the same time provided the function is enabled. If during recording, you would like to select another item, an alert message appears, prompting “This will be stopped if you turn to the other pages, continue?”, as shown in the following figure:



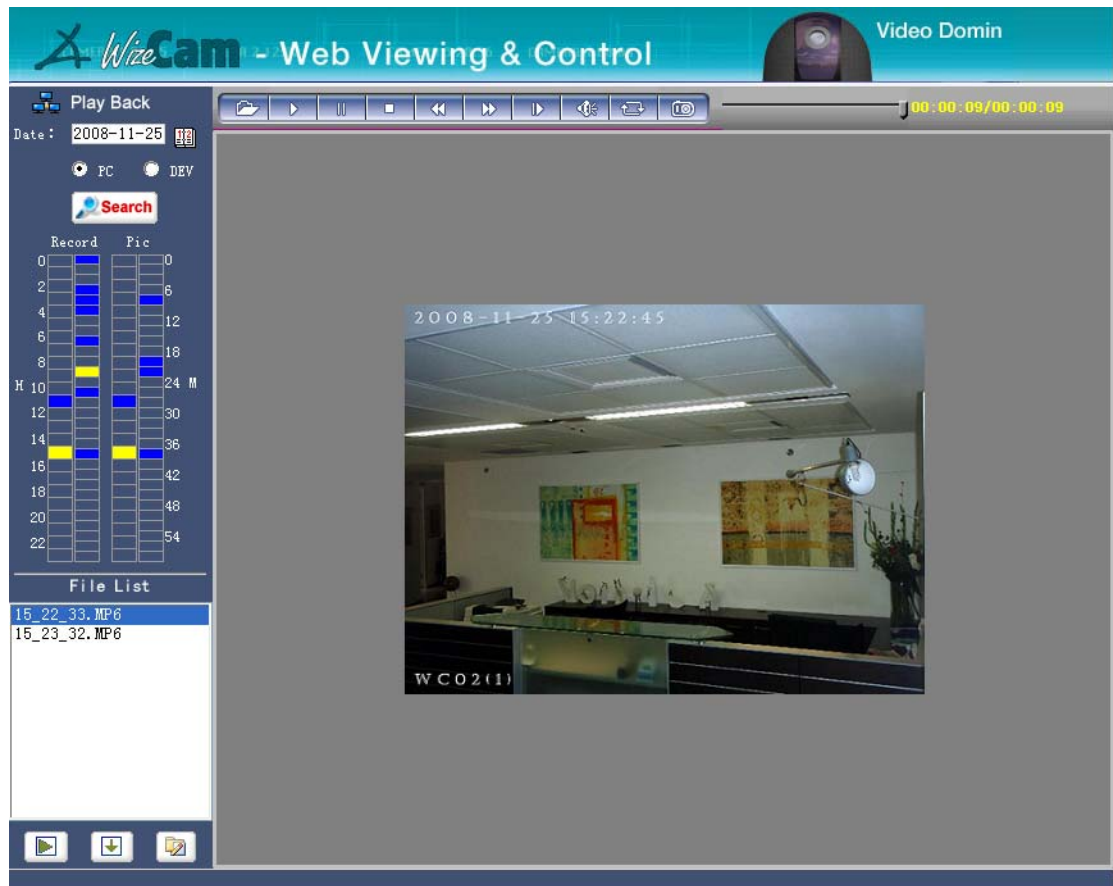
Call: Enables the two way voice function. Please connect the Audio signal line of the device to an audio amplified device (such as PC Speakers).

Audio: Enables the listen in function. The device has a built-in MIC to listen on-site voices in real time.

Alarm: If the motion detection alarm function is set, (refer to the section of

Motion for details), the indicator turns red and blinks after an alarm is triggered. After an alarm is triggered, by double clicking on this button stops the alarm and clears the content in the alarm messages window. By default, an alarm event will stop automatically in ten seconds after being triggered without any intervention.

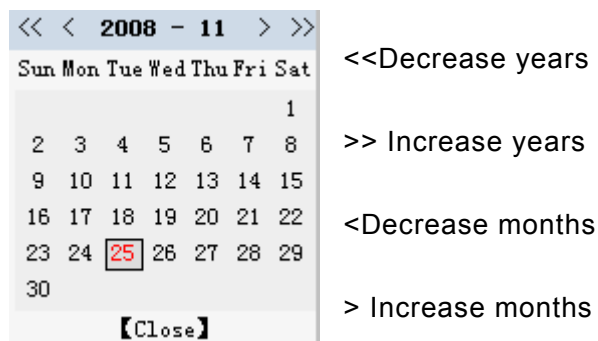
Playback: Enables online playback of record Video and or Audio files, as shown in the following figure:



3.1.4 Retrieving Record Files

The user can search record files in the local PC or SD card (DEV).


Date: Select a date and click . The calendar selection interface appears, as shown in the following figure:

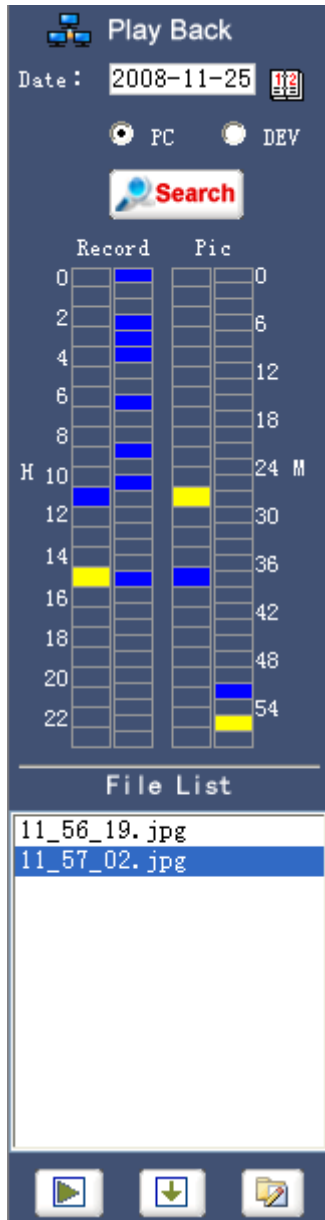


After a date is selected, the calendar interface closes automatically.

PC: Queries record files in the local PC.

DEV: Queries record files in the SD card.

Click  **Search** to search record files in the PC or SD card on the designated date. The method for searching record files in different durations of a day is as shown in the following figure:



or


The **Record** column displays the list of retrieved record files by time.

The **Pic** column displays the list of retrieved recorded files by number.

Each bar on the left of each column represents one hour.

Each bar on the right of each column represents 2 minutes.



 Displays a currently selected time;

 Displays the currently retrieved record files or picture files in a time segment;

File List

Displays a list of the currently retrieved record files JPEG pictures.

3.1.5 Playing Record Files

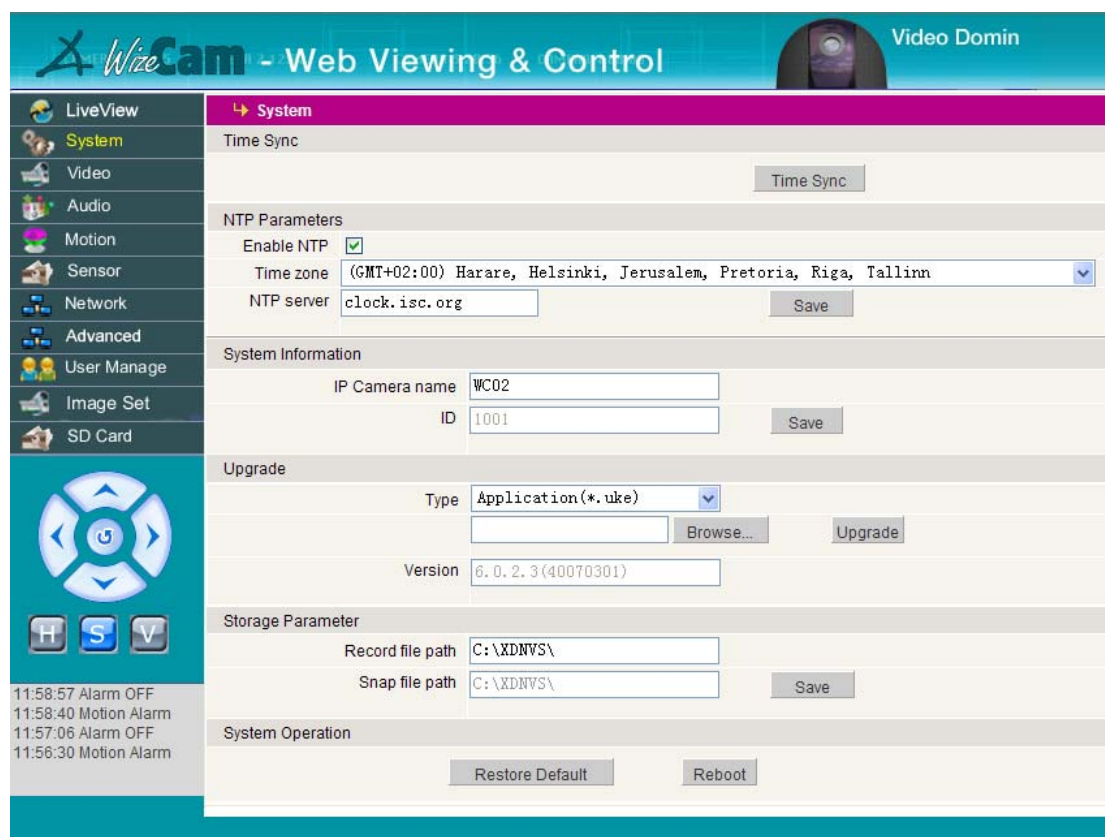
 Select a record file or JPEG file to be played from the **File List** (1) double click it to play or (2) select it and click . During play, the right window clock displays the progress so that the user can view playing information and operate played content, as shown in the following figure:

Progress



Respectively indicates: Open a file, play, pause, stop, fast backward, fast forward, single frame forward, volume switch, cyclic play, snap

3.2 System



Time Sync: When clicked the system clock of the IP camera synchronizes with the PC.

NTP Parameters: When selected, the system clock of the IP camera synchronizes with the clock of the NTP Server.

This function is enabled by default. Please select and save a time zone and switch to the **Live View** interface. The upper part will display the calendar and clock of the NTP Server.

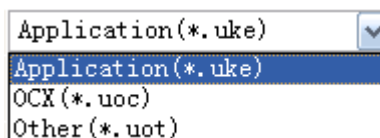
System Information: Displays device name and device ID.

The device name may be a user-defined one and the ID is the unique identity upon device delivery.

Note: The device name shall be saved after modification, and the IP camera will reboot automatically.

Upgrade: software upgrade

Three files needs upgrades, that is: uke file, uoc file and uot file, as shown in the following figure:



Click the <**Browse...**>button to select an upgrade file.

Click the <**Upgrade**> button to confirm and download the file to the system. During this

process, the system will display an upgrade progress bar. After the upgrade is completed, the system prompts “upgrade succeeded”, and meanwhile, the IP camera reboots automatically (it takes about 5 seconds). Please wait.

Version: Displays the version number of the current software, such as 6.0.2.2.

Note: During upgrade, make sure that the power supply and network connection of the IP camera are NOT stopped/interrupted.

For obtaining of upgrade files, please contact our company or the local dealer. Our company shall not be held liable for any device failure arising from unauthorized upgrade procedures or files.

Storage Parameter

Storage path for record files, the default path is: C:\XDNVS.

System Operation

Restore Default: Restores the default settings. Please use this function with care.

Reboot: Device reboot; the IP camera will reboot in about five seconds, after is clicked.

3.3 Video

Image

Image size: 640 * 480

Quality

Fine Normal Basic

Environment Power Frequency

60Hz/Out Door 50Hz IR Night*

Video Mirror

Mirror

Video Flip

Flip

2008-11-25 11:49:04

W C 02 (1)

Video mask set

Mask area set All Off

Save

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

Notice: IPCAMERA Bandwidth application and parameter setting

bandwidth	Image size	Quality
128kbps	320x240	basic
384kbps	320x240	normal
512kbps	320x240	fine
1mbps	640x480	normal
2mbps	640x480	fine

Normally, select the OUT DOOR mode to get the best image quality.
If image flickers when used indoors, select the proper power frequency of light.(50HZ/60HZ).

Image: Image resolution setting

Select VGA: 640*480; QVGA: 320*240; save the resolution modification. The device will reboot automatically.

Quality: Image quality setting

The user may select **Fine**, **Normal** and **Basic** according to the actual needs. **Fine** is selected by default.

Note: Different image resolutions and qualities use different network bandwidths. Please make the settings with reference to the table of IPCAMERA Bandwidth Application and Parameter Setting.

Environment Power Frequency: Selection of operating environment and light frequency According to different lighting environments, select the power frequency of 50Hz or 60Hz. 60Hz is selected by default.

Note: Power interference/radiation may cause image flickering.

In case of poor illumination on site or night use, select the night vision to mode **IR Night**.

Video Mirror and Video Flip :

Image mirror and flip: if upside down installation is selected for the device, images may be flipped and invested, so these two functions can be enabled for the right view.

Video mask set: mask of designated areas

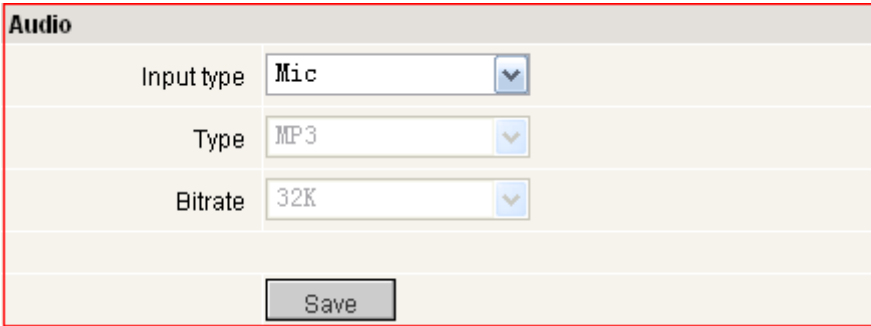
To protect some monitored areas from other persons, images of such an area can be masked.

An entire image is split into 22*18 small areas. Double click or drag your mouse to select one or more areas to be masked.

All: Sets to mask the entire image.

Clr: Clears the masked area(s).

3.4 Audio



Audio	
Input type	Mic
Type	MP3
Bitrate	32K
<input type="button" value="Save"/>	

Input type: Selection of external audio input type

Mic (microphone) input or Line In (linear) input.

Type: Displays audio code format

Bit rate: Displays audio bit rate.

3.5 Motion

The screenshot displays the WizeCam web interface. The top header shows the logo and 'Video Domin'. The left sidebar contains navigation options: LiveView, System, Video, Audio, Motion (highlighted), Sensor, Network, Advanced, User Manage, Image Set, and SD Card. Below the sidebar is a control panel with directional arrows and buttons for Home (H), Stop (S), and View (V). The main content area is titled 'Motion' and contains the following settings:

- Schedule:** Time range from 07:00 to 18:00.
- Enable Detect:** Sensitivity is set to 70.
- Alarm output:**
- Alarm Record in PC:**
- Alarm Record in SD card:**
- Alarm Snap in SD card:**

A note states: '* The value is 1 - 100, more sensitive when higher; default 80.' To the right is a live video feed showing an interior scene with a red rectangular detection area overlaid. Below the video are buttons for 'Area set', 'All', and 'Clr'. A 'Save' button is located at the bottom center. The bottom left corner shows a log of alarm events:

- 11:58:57 Alarm OFF
- 11:58:40 Motion Alarm
- 11:57:06 Alarm OFF
- 11:56:30 Motion Alarm

Schedule: Sets the time of arming/disarming the unit to detect.

Enable Detect: Enables or disables Motion Detection.

Sensitivity: Motion sensitivity setting, ranging from 1 to 100 (80 by default); 1 means the lowest sensitivity while 100 means the highest sensitivity

Alarm Record in PC: Enables local PC recording after alarm trigger.

Alarm Record in SD card: Enables SD card recording after alarm trigger.

Alarm Snap in SD card: Snap site images in JPEG format and store them in the SD card after alarm trigger. If alarm trigger continues, an image will be snapped and stored in the SD card for about every ten seconds

Area set: Click and drag your mouse to determine a detection area.

All: Sets the entire video picture /Field of view as the Motion Detection area.

Clr: Clears all Motion Detection areas.

3.6 Network

Normal	
Basic Parameters	
Enable DHCP	<input type="checkbox"/>
IP address	192.168.1.1
Subnet mask	255.255.255.0
GateWay	192.168.1.254
MAC	<input type="checkbox"/> 00-5d-20-a0-11-11
Data port No.	5000
HTTP port No.	80
DNS address	212.143.212.143
WiFi Parameters	
Enable WiFi	<input type="checkbox"/>
IP address	192.168.55.1
Subnet mask	255.255.255.0
GateWay	192.168.55.254
SSID	
Password	
Frequency band	Auto
Mode	Auto
DDNS Parameters	
Enable DDNS	<input checked="" type="checkbox"/> Link to viewipcam.com
DDNS provider	viewipcam.com
DDNS regName	NVS1
DDNS password	•••••
DDNS domain	NVS1
DDNS server URL	www.viewipcam.com
DDNS server Port	30000
Data port map No.	5000
HTTP port map No.	80
Domain E.C.:	test1.viewipcam.com
PPPOE Parameters	
Enable PPPOE	<input type="checkbox"/>
PPPOE URL	
PPPOE username	
PPPOE password	
Online time	0minutes

Basic Parameters: setting of basic network parameters

If fixed IP (such as static extranet IP or LAN) is used for IP camera connection, it is necessary to make setting here.

IP address: Fills in the IP address of the IP camera.

Subnet mask: Fill in the subnet mask, such as 255.255.255.0.

GateWay: Fill in the gateway address.

MAC: Physical address of the IP camera, its unique identity over the network. Do not change those settings.

Data port No: Data stream transmission port Number.

HTTP port No: Web access port

DNS address: Fill in the local DNS address.

For detailed parameter settings, consult your network administrator or the local ISP (Internet Service Provider).

For LAN application, please avoid conflicts between the IP address of the IP camera and that of the viewing PC over the LAN.

Enable DHCP: Enables DHCP service.

If a DHCP Server exists over your network (for example, the local LAN has a router device providing DHCP services), after this function is enabled, the DHCP Server will automatically allocate an IP address to your IP camera.

WiFi Parameters: Settings of wireless WiFi parameters.

A WiFi module can be configured for the device to support wireless network

connection. It is applicable to a network environment with wireless AP devices (such as wireless router).

Enable WiFi: Enables or disables the WiFi function.

IP address: Sets a wireless IP address. Note that the address shall not be in the same network section/range as the wired network address (i.e., IP address in **Basic Parameters**).

Subnet mask: Sets subnet mask of the wireless network.

Gateway: Gateway address of the wireless network. It shall not be in the same network section/range as the wireless gateway address (the **Gateway** address in **Basic Parameters**).

SSID: A login name for identity verification of the wireless network. Only a user passing the right identity verification is authorized to access the wireless network. It shall be the same as the SSID set in the wireless network (router/AP).

Password: Wireless network encryption password.

Frequency band: After successful connection, the frequency bandwidth of the wireless network is displayed.

Mode: After successful connection, the connection mode of the wireless network is displayed.

Note: The WiFi setting and connection are complicated. Please refer to the detailed settings, in the section of “*WiFi Setting and Connection*”,

DDNS Parameters: DDNS domain setting

The setting of this item can tie the IP camera with a fixed domain name so that it can be accessed via the network via domain name, regardless of change of the public IP address of the camera (DHCP).

DDNS provider: Select the DDNS Server. The device supports three DDNS Server addresses: viewipcam.com, camdns.cn, and 3322.org.

DDNS regName: User name the user registers with the DDNS Server.

DDNS password: Password the user registers with the DDNS Server.

DDNS domain: Remote access domain name set after logon to the DDNS Server.

DDNS server URL: DDNS Server address, such as www.3322.org

DDNS server port: DDNS Server connection port, 30000 by default.

Data port map No.: If the device is mapped into a public network via a network server (e.g., a router), fill in the data port number of the public network used after device mapping, 5000 by default.

HTTP port map No.: If the device is mapped into a public network via a network server (e.g., a router), fill in the web port number of the public network used after device mapping, 80 by default.

Note: To implement regular DDNS domain name access, set the correct local DNS address. For details, refer to **DNS Address** setting in **Basic Parameters**. set the correct local DNS address.

Note: For detailed application and setting of DDNS domain name, refer to *<Application and Setting of DDNS Domain Name>*.

PPPOE parameters: Setting of PPPOE dial-up Internet access parameters

The device supports PPPOE dial-up Internet access. If only the user fills in the correct information, the device can make network access connection independently. Since the IP address for dial-up Internet access is a dynamic one, the user is recommended to apply for and set the DDNS domain name.

Please set the following PPPOE parameters:

Enable PPPOE: Enables or disables PPPOE function.

PPPOE URL: The current IP address displayed after successful dial-up connection (not needed to be set).

PPPOE username: Fill in the user ID. Please consult your local ISP.

PPPOE password: Fill in the password. Please consult your local ISP.

Online Time: Displays the online network connection duration (not needed to be set).

Note: The connection of the IP camera over different networks needs different parameters settings. For details, refer to *<Access and Setting of IP Camera in Different Network Environments> Appendix?*

After parameters setting, click **<Save>**. The device needs to reboot (in about 5 seconds),

3.7 Advanced

The screenshot shows the 'Advanced' settings page with two main sections: 'Mail Parameters' and 'UPNP Parameters'. The 'Mail Parameters' section includes fields for SMTP server (smtp.gmail.com), MAIL from (supportvdt@gmail.com), MAIL to (support@vdomain.com), SMTP username (supportvdt), SMTP password (masked with dots), MAIL title (Alarm Message), and SMTP port (465). There are also checkboxes for SSL and Alarm send mail, and a Snap picture checkbox. The 'UPNP Parameters' section includes a checked 'Enable UPNP' checkbox, dropdown menus for UPNP network card (Lineate) and UPNP mode (Designate), and input fields for UPNP server, Data port map No. (5000), HTTP port map No. (80), Data mapping status, and HTTP mapping status. A 'Save' button is located at the bottom center of the page.

Mail Parameters

If the user has set the motion detection alarm and enabled alarm mail sending function (for details, refer to **Motion** setting), complete the related mailbox setting here:

SMTP server: Address of the SMTP mail server, such as the Gmail SMTP Server is smtp.gmail.com.

MAIL from: Inbox address

MAIL to: Outbox address

SMTP username: Logon user name for the mailbox sending alarm mails

SMTP password: Logon password for the mailbox sending alarm mails

MAIL title: The title of a e-mail (e.g. Alarm from Front Door).

SMTP port: Port number of the SMTP Server

SSL: Support of SSL security authentication

Alarm send mail: Enables alarm mail sending function

Snap picture: Enables picture snap shot function. Picture/s will be sent as an attachment of the alarm e-mail. A JPEG picture will be snapped shot every 10 seconds even if the alarm is continuously triggered within the 10 seconds time widow.

Note: Normally, the default port number of an SMTP Server is 25 (such as the 163 mail server), and no SSL authentication is needed. However, some mail servers use special SMTP port, for example, the Gmail uses the 465 port, and meanwhile, SSL authentication is needed. When selecting a mail server, the user must clearly know the latest SMTP port of the Server and whether it supports SSL authentication. Furthermore, some free e-mail services do not support SMTP service.

UPNP parameters

Automatic port mapping: this function is enabled if the LAN has a server (such as a router) with UPNP function, so the server will automatically map the port set for the IP camera into an external network (such as the Internet).

UPNP network card: Type of network card connecting the UPNP Server: by cable or WiFi.

UPNP mode: includes two modes: **Designate** and **Auto**. The **Designate** mode means the data map port and Web map port are designated for the server, while the **Auto** mode means the server sets the data map port and Web map port.

UPNP server: gateway address of the network server with UPNP function.

Data port map No.: Data port number.

HTTP port map No.: Web port number.

Data mapping status and **HTTP mapping status:** Port number displayed after successful mapping.

After setting, click <**Save**>. The settings will take effect.

3.8 User Manage

The screenshot displays two sections for user management. The top section is titled 'Administrator' and contains three input fields: 'Username' with the value 'admin', 'Password' with six black dots, and 'Confirm Password' which is empty. A 'Save' button is located below these fields. The bottom section is titled 'User' and also contains three input fields: 'Username' with the value 'guest', 'Password' with six black dots, and 'Confirm Password' which is empty. A 'Save' button is located below these fields.

The IP camera provides two levels of user access rights:

Administrator: system administrator with the highest right who can access the device and modify all of its parameters.

User: Regular users who can log on and access the device, but cannot set and modify its parameters. If a regular user access related setting items, the system will prompt the information, as shown in the following figure(TBD):



Please fill in and remember the following user management information:

Username: Fill in the name of the authorized user.

Password: Fill in the password of the authorized user.

Confirm Password: Confirmation of the user's password.

The **Username** and **Password** must be a case-sensitive string composed of one to sixteen letters, digits, underlines or dots (.).

After setting, click <**Save**>. The settings take effect.

3.9 Image Set

The user can adjust the brightness and contrast of images to match various operating environments. By clicking on **Image Set**, the following window will appear:



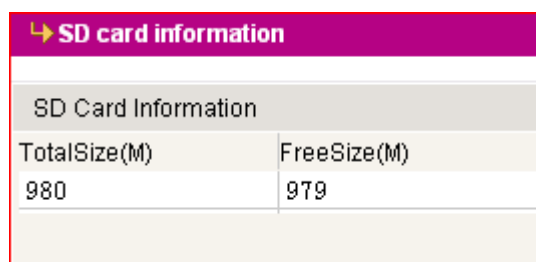
- Brightness adjustment, 13 by default
- Contrast adjustment, 23 by default
- Click to decrease the magnitude by 5
- Click to increase the magnitude by 5
- Click to restore default settings.

The image will display the brightness and contrast adjustments in real time. After setting is done, click once more on **Image Set**. The window closes and settings are saved.

3.10 SD Card

Displays the information about the current SD card.

Right click on the blank area,. A dialog appears. Select **Refresh** to view the total size and free size of the SD card. If Empty is displayed, it indicates that no SD card is inserted into the IP camera.



Note: The SD card is set to cyclic recording mode. If the system finds that the left recording space of the card is less than about 60MB, it will automatically overwrite the oldest recorded files. Therefore, periodically download and back up the recorded files in the SD card.

4. Appendix

4.1 Network Ports used by IP Camera

By default, the IP camera occupies the following ports:

TCP	80 (Web port)	5000 (communication port, audio/video data transmission port, intercom data transmission port)
UDP	5000	Audio/video data transmission port
Multicast port	Initial multicast port + channel ID	

4.2 Default Network Parameters

Wired network:

IP address: 192.168.1.1
Subnet mask: 255.255.255.0
Gateway: 192.168.55.1
Data port: 5000
Web port: 80
DHCP: disabled

Wireless network:

Wireless IP address: 192.168.55.1
Subnet mask: 255.255.255.0
Gateway: 192.168.1.1

4.3 Application and Setting of DDNS Domain Name

4.3.1 DDNS Overview

Currently the most IP addresses provided by ISP s are dynamic (such as ADSL dial-up Internet access). However, a fixed IP is required for remote access by many IP cameras. The cost of a fixed IP is unacceptable by many customers. By using a DDNS solution, provides a brand-new approach which can capture the changing IP addresses and relates it to the domain name. In this way, a customer can access the IP camera by using the domain name.

4.3.2 Application for DDNS Domain Name

To access the IP camera via a DDNS domain name, first register a DDNS domain name (domain) with the DDNS Server/DDNS service provider.

The device supports three DDNS Servers/Providers: 3322.org, viewipcam.com, and camdns.cn. The user can select one of them. In the following section we will take viewipcam.com as an example to describe the process of getting a DDNS domain name.

Log on to www.viewipcam.com.

About ViewIPCam.com

Sign Up

Member Login

Forget Password

FAQ

Support


Product

Welcome To ViewIPCam.com


Welcome to ViewIPCam.com. Here you can find firmware update, support information and free dynamic DNS service for your Astak IPCam product.

First time user please check out the setup guide in the FAQ Section.

Try Our Live Cams!



Click Here..



Or Here..

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Select **Sign Up**.

About ViewIPCam.com

Sign Up

Member Login

Forget Password

FAQ

Support

Product

Member Sign Up

If you have an Astak IPCam, you are eligible to create an User ID on this server. Please follow the instructions on each screen to complete the User ID creation procedure.

First, please enter your email address, preferred User ID name, full name and the MAC address of your IPCam

User ID:

First Name:

Last Name:

E-Mail:

[Back To Home Page](#)

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Fill in **User ID** and your **E-mail** address. Click **<Next Step>**.

Fill in the login password. Click **<Create User ID>**.

The **User ID** has been created successfully. The system prompts the user to check an E-mail from the Astak DDNS Server to activate the **User ID**.

[Click this link to activate your User ID.](#)

Check your E-mail, and click [Click this link to activate your User ID.](#) to activate your User ID.

User ID Activation

Your User ID has been activated. Please enter the domain name you want to use.

If your are behind a Firewall or NAT, you might want to setup Port Forwarding on it and change the network port number below:

The domain name you want to use: .viewipcam.com

The network port you want to use:

1. The Network Port should match one of the two possible network port set in the IPCam administration interface.
2. If you're using a NAT router to connect to the internet please make sure port forwarding is setup properly.

[Update Domain Name](#)

[Back To Home Page](#)

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Fill in a DDNS domain name (such as “ip2805”) and network port (such as “80”) you want to use. Click <**Upgrade Domain Name**>

User ID Activation

Your a User ID has been activated.

DDNS Domain name has been assigned. You may setup your IPCam now.

It might take up to 10 minutes before the IP informaiton is delegated.

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The domain name has been assigned, and the system prompts the user to complete the DDNS domain name setting of the IP camera.

4.3.3 DDNS Setting of the IP Camera

Log on to the IP camera. Enter **DDNS Parameters** under **Network**. Fill in the user name, password and domain name registered with the domain server viewipcam.com, as shown in the following figure:

DDNS Parameters	
Enable DDNS	<input checked="" type="checkbox"/> Link to viewipcam.com
DDNS provider	viewipcam.com
DDNS regName	ip2805
DDNS password	●●●●●●
DDNS domain	ip2805
DDNS server URL	www.viewipcam.com
DDNS server Port	30000
Data port map No.	5000
HTTP port map No.	80
Domain E.C.: test1.viewipcam.com	

Save the settings. The IP camera will reboot.

In this example, your IP camera has accessed to the Internet, and its domain name is <http://ip2805.viewipcam.com>. Using your browser, type the device name and you can access the device via the DDNS domain name.

Note: If you use the DDNS domain name to access the IP camera, do not add “www” to the name/address.

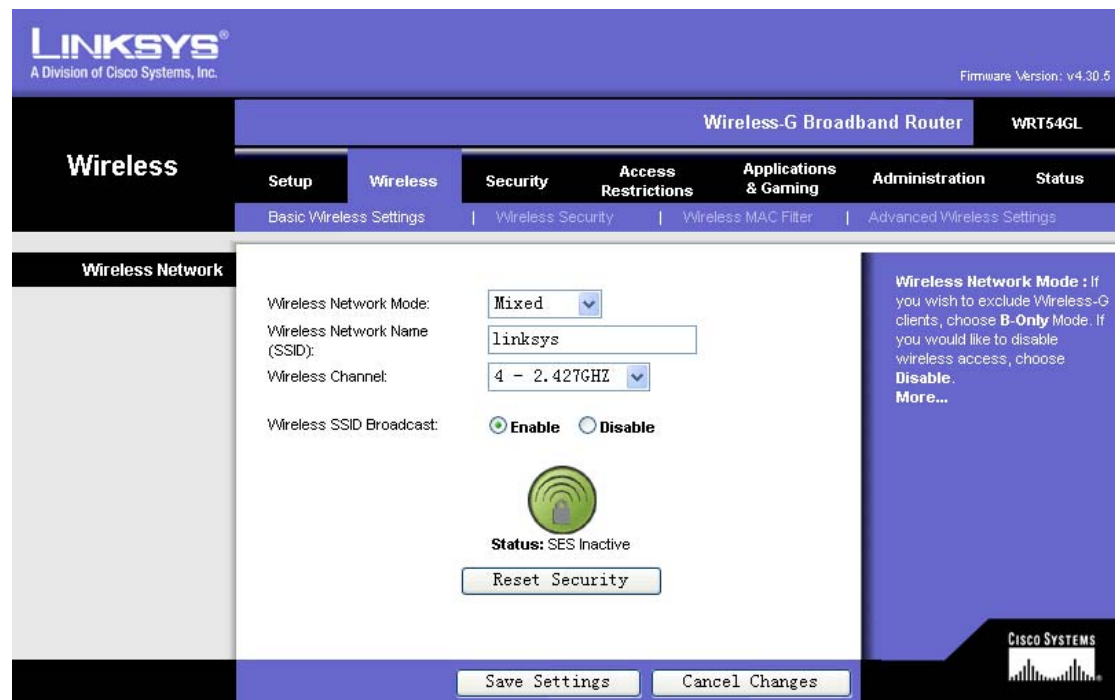
4.4 WiFi Setting and Connection

If your IP camera has WiFi capabilities, your IP camera can access a WiFi network via a wireless link connecting via wireless AP device (e.g., a wireless router). This section takes a Linksys wireless router WRT54GL as an example to describe WiFi setting and connection.

4.4.1 Wireless Router Setting

First, enable the wireless function of the router.

Log on to the wireless router setting interface. Select the **Wireless** item.



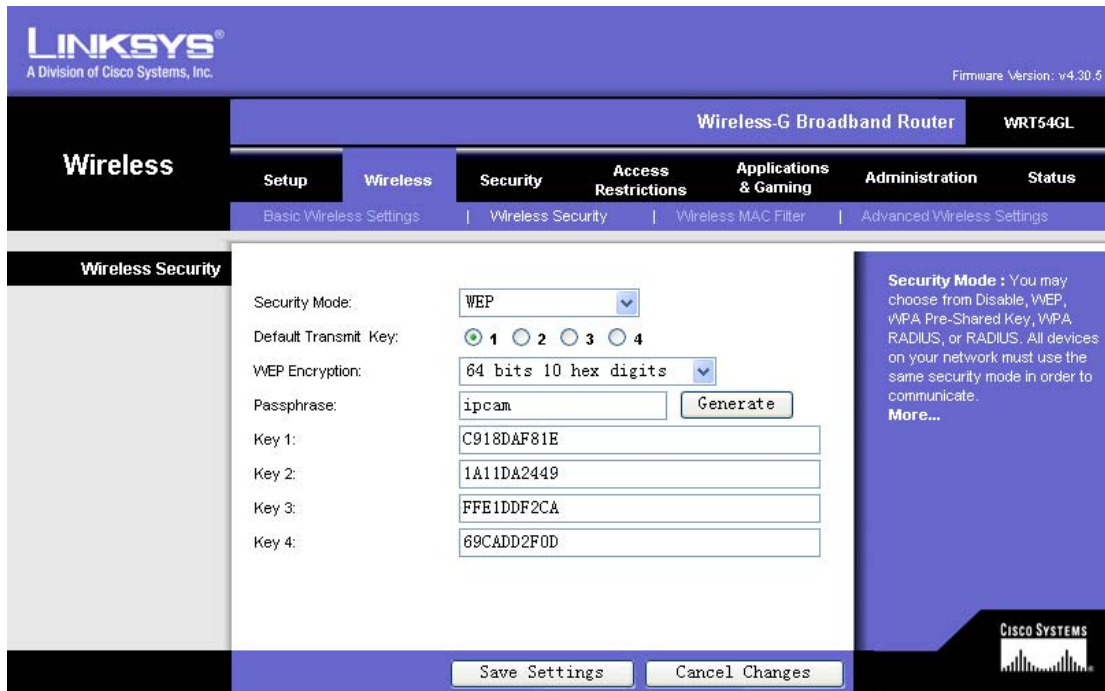
Select **Basic Wireless Settings**. Please complete the following settings:

(1) Wireless Network Mode: **Mixed** is recommended to enable the wireless function to support the 802.11b/g standard. Selecting **Disable** disables the wireless function.

(2) Wireless Network Name (SSID): Fill in SSID (**linksys** is selected by default)

Click **<Save Settings>** to save the settings.

To encrypt the wireless network, select **Wireless Security**.



Please complete the following settings:

(1) Security Mode: Please select **WEP**.

(2) Default Transmit Key: Select which group of key is used.

The key may be manually set or automatically generated by clicking <**Generate**>.

Please select or set one among the four groups of keys.

Remember the set SSID and key, since you have to fill in the information during WiFi setting of the IP camera.

4.4.2 WiFi Setting of IP Camera

Log on to the IP camera. Enter the **Network**. Fill in the IP address, Subnet mask, Gateway, SSID, password and other items in **WiFi Parameters**, as shown in the following figure:

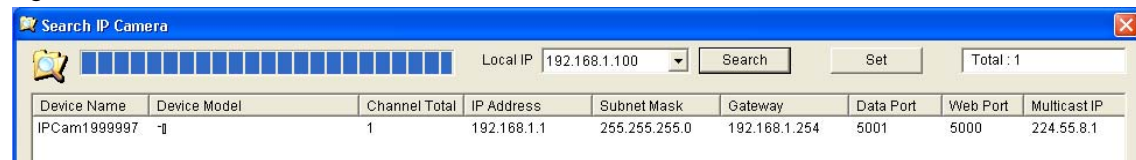
Basic Parameters	
Enable DHCP	<input type="checkbox"/>
IP address	192.168.2.100
Subnet mask	255.255.255.0
GateWay	192.168.2.254
MAC	<input type="checkbox"/> 00-5d-20-a0-11-11
Data port No.	5000
HTTP port No.	80
DNS address	202.96.134.133
WiFi Parameters	
Enable WiFi	<input checked="" type="checkbox"/>
IP address	192.168.1.100
Subnet mask	255.255.255.0
GateWay	192.168.1.254
SSID	linksys
Password	●●●●●●●●●●
Frequency band	Auto
Mode	Auto

4.4.3 Precautions on WiFi Settings (This is very important, please read carefully)

- (1) The wireless IP address shall be in different network section from the wired IP address. If the wireless network section is 192.168.1.XXX, the wired IP address in **Basic Parameters** should be set in another network section such as 192.168.2.XXX .
- (2) Please disable DHCP function in **Basic Parameters**.
- (3) The WiFi encryption mode only supports WEP mode for the time being. Please select **WEP** in the wireless router.
- (4) The SSID and encryption key has to be identical to that set in the wireless router.
- (5) In case of WiFi transmission, delay or stagnation may occur when browsing VGA pictures due to influence of wireless transmission bandwidth of the device. It is recommended that the image format be set to QVGA to get the best image quality via a WiFi connection.
- (6) The wireless transmission frequency band of the device is 2.4 GHz. The transmission distance in open space is 30m. The existence of other 2.4 GHz wireless products (e.g. Cordless phones, Wireless Audio headsets etc.) may cause to interferences and affect the transmission .

4.4.4 WiFi Network Search and Access

Save the WiFi parameters settings. Disconnect your network cable and wait till the IP camera completes reboot. Check whether the IP camera connects via the WiFi network. Run the SearchIPCam.exe software in the CD to search. If WiFi connection is on and operational, the search software can find the wireless and wired addresses of the IP camera at the same time, as shown in the following figure:



Enter the wireless IP of the IP camera in the browser address bar, and you can access the IP camera now connected via WiFi.

4.5 Access and Setting of IP Camera in Different Network Environments

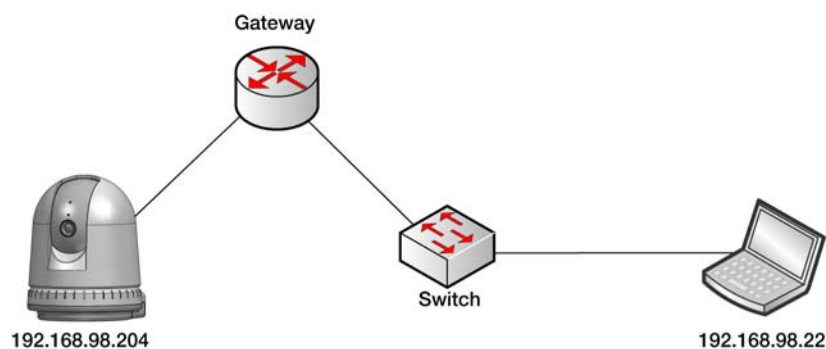
This section describes how to access and set IP camera in different network environment.

4.5.1 LAN

Two modes can be used in a LAN to connect an IP camera: Local static IP and local dynamic IP.

(1) Local static IP

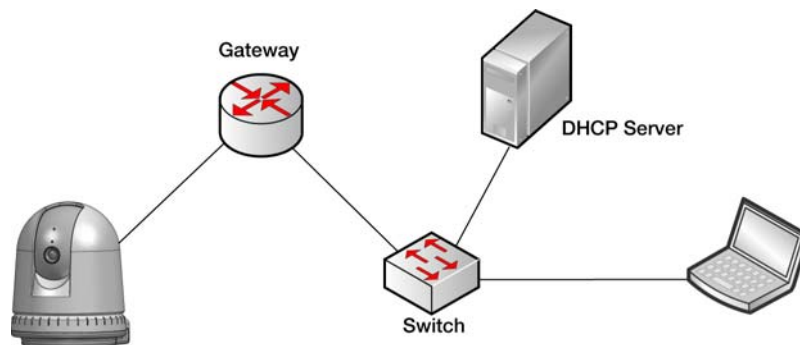
Local static IP means that your administrator assigns a local IP to the IP camera. In that mode your PC must be in the same network section as the IP address of the IP camera to access successfully. The network topology is as follows:



For detailed settings, refer to **Basic Parameters** settings under **Network**. An example is given below:

Basic Parameters	
Enable DHCP	<input type="checkbox"/>
IP address	192.168.98.204
Subnet mask	255.255.255.0
GateWay	192.168.98.254
MAC	<input type="checkbox"/> 00-5d-20-a0-11-11
Data port No.	5000
HTTP port No.	80
DNS address	202.96.134.133

(2) Local dynamic IP



Dynamic IP means that the IP camera gets an IP address in the same LAN via the DHCP Server. The network topology is as shown in the following figure: For detailed settings, refer to **Basic Parameters** settings under **Network**. An example is given below:

Basic Parameters	
Enable DHCP	<input checked="" type="checkbox"/>
IP address	192.168.98.204
Subnet mask	255.255.255.0
GateWay	192.168.98.254
MAC	<input type="checkbox"/> 00-5d-20-a0-11-11
Data port No.	5000
HTTP port No.	80
DNS address	202.96.134.133

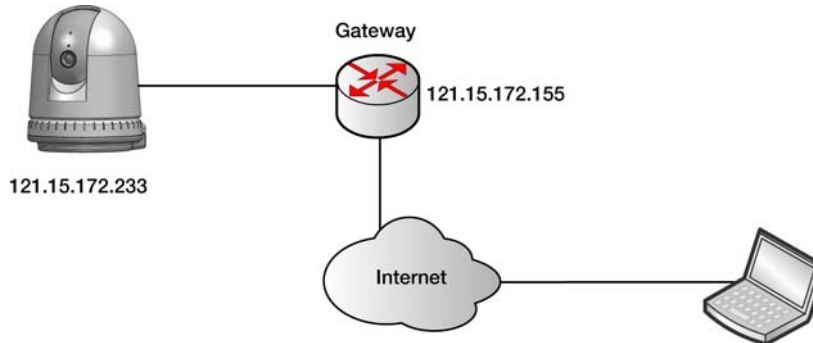
Use the Internet Explorer browser to log on to the IP camera. Go to **Network** and click to select **Enable DHCP**. Save the parameters setting. The IP camera reboots to validate the settings.

4.5.2 Internet

Three modes can be used to connect an IP camera to the Internet: fixed IP, shared Internet access with ADSL and router (dynamically getting of IP address of the extranet), and PPPoE dial-up Internet access with ADSL and IP camera. After the IP camera is connected to the Internet, a remote Internet user can use the domain name or IP address to directly access the IP camera.

(1) Fixed IP mode

The network topology is as follows:



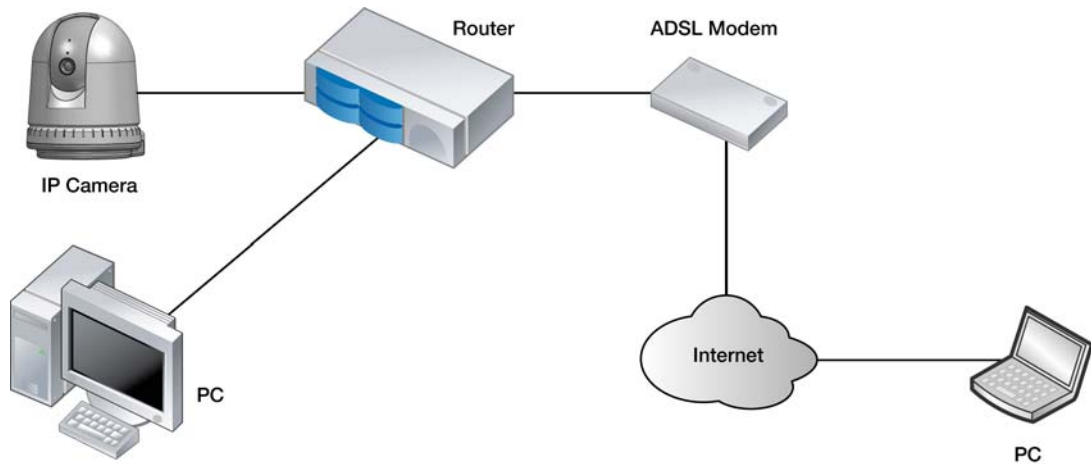
For detailed settings, refer to **Basic Parameters** settings under **Network**. An example is given below:

Basic Parameters	
Enable DHCP	<input type="checkbox"/>
IP address	121. 15. 172. 233
Subnet mask	255. 255. 255. 192
GateWay	121. 15. 172. 155
MAC	<input type="checkbox"/> 00-5d-20-a0-11-11
Data port No.	5000
HTTP port No.	80
DNS address	202. 96. 134. 133

Save the parameters setting. After the device reboots, enter the fixed IP address such as <http://121.15.172.233> in the browser address bar to implement remote access to the IP camera.

(2) Shared Internet access mode with ADSL and router (dynamical IP mode)

The network topology is as follows:

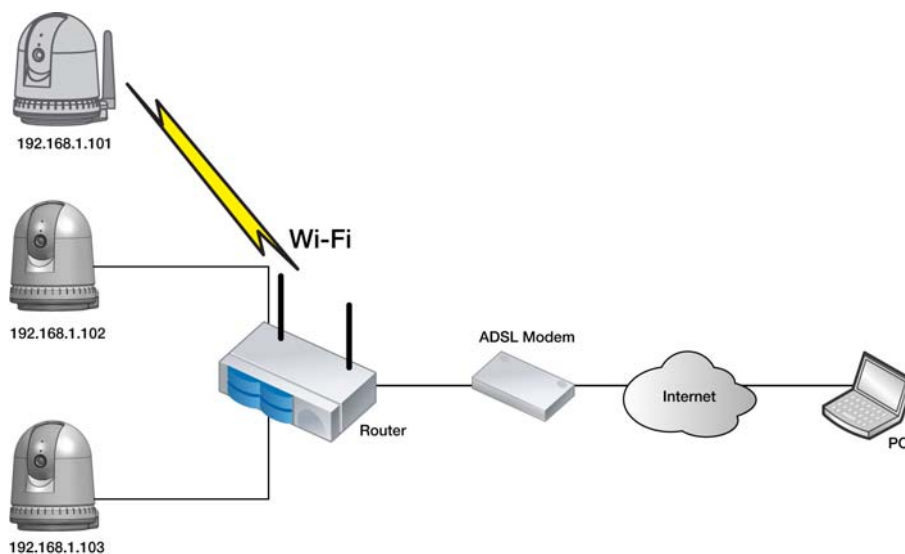


Fill the user name and password you have received from the DDNS Server into the DDNS setting item of the IP camera. Complete port mapping in the router. The router judges and points to the IP camera to be accessed according to the port. Thus, the remote Internet user can access the IP camera directly by the domain name.

For detailed settings, refer to the setting item of **Network**. An example is given below:

Basic Parameters		DDNS Parameters	
Enable DHCP	<input type="checkbox"/>	Enable DDNS	<input checked="" type="checkbox"/> Link to camdns.cn
IP address	192.168.98.204	DDNS provider	camdns.cn
Subnet mask	255.255.255.0	DDNS regName	IPCam1001
GateWay	192.168.98.254	DDNS password	●●●●●●●●
MAC	<input type="checkbox"/> 00-5d-20-a0-11-11	DDNS domain	IPCam1001.camdns.cn
Data port No.	5000	DDNS server URL	www.camdns.cn
HTTP port No.	80	DDNS server Port	30000
DNS address	202.96.134.133	Data port map No.	5000
WiFi Parameters		HTTP port map No.	80
Enable WiFi	<input type="checkbox"/>	Domain E.C.: test1.camdns.cn	
IP address	192.168.55.1	PPPOE Parameters	
Subnet mask	255.255.255.0	Enable PPPOE	<input type="checkbox"/>
GateWay	192.168.55.254	PPPOE URL	
SSID		PPPOE username	
Password		PPPOE password	
Frequency band	Auto	Online time	0minutes
Mode	Auto		

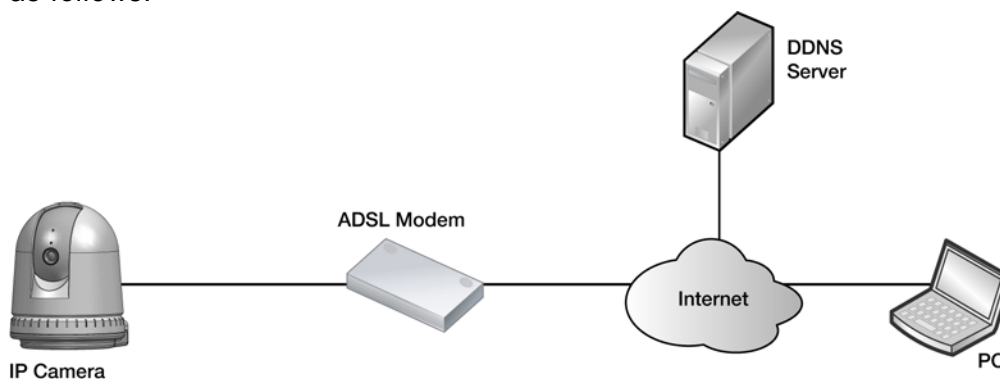
If you connect multiple IP cameras to a router, the network topology is as follows:



First designate a different WEB port number for each IP camera. For example, the Web port of 192.168.100 in the above figure is set to port 80, and that of 192.168.1.101 is set to port 81 (please avoid repeated or conflicting port settings). Perform a port mapping in the router respectively. Now any PC connected over the Extranet can access these IP cameras over the LAN via different ports.

(3) PPPoE dial-up Internet access mode with ADSL and IP camera

The device supports PPPoE dial-up Internet access. The network topology is as follows:



To use the PPPoE dial-up Internet access mode, set a DDNS domain name for your IP camera.

For detailed settings, refer to **PPPOE Parameters** settings under **Network**. An example is given below:

PPPOE Parameters	
Enable PPPOE	<input checked="" type="checkbox"/>
PPPOE URL	<input type="text"/>
PPPOE username	<input type="text" value="sz196959@163.gd"/>
PPPOE password	<input type="password" value="••••••••"/>
Online time	<input type="text" value="0minutes"/>

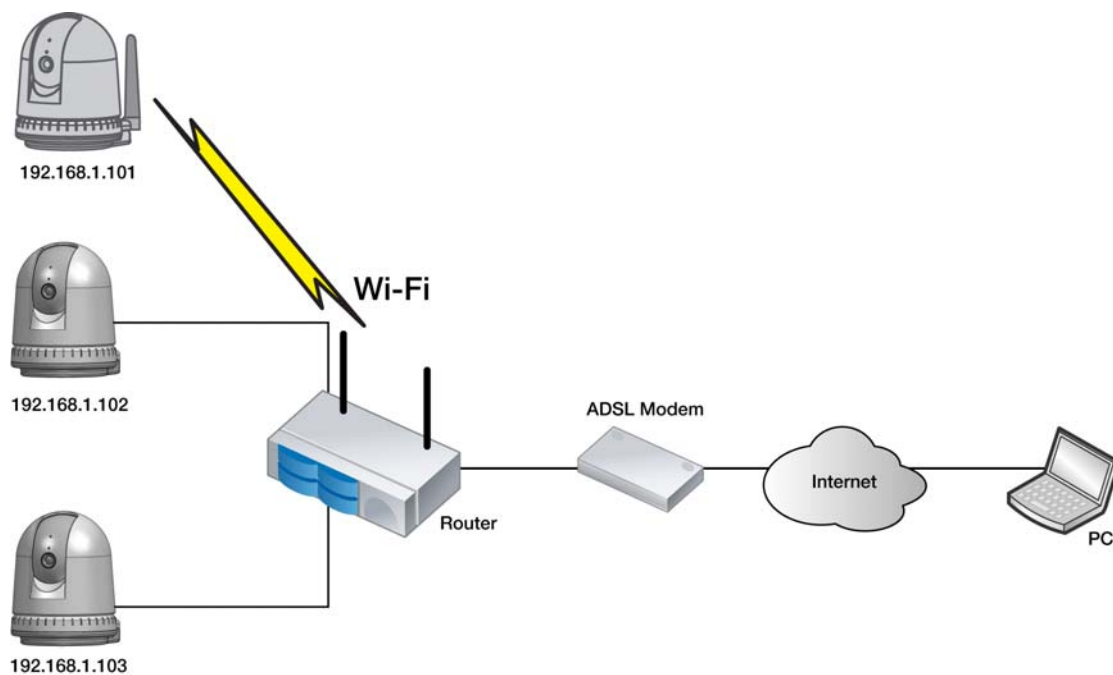
Save the settings. The IP camera will reboot.

Connect the IP camera to the network port of the ADSL Modem. Power on again and wait till successful dial-up.

Note: The successfully dial-up to the Internet , the access time and DDNS domain name resolution time may vary with the Quality of Service (QoS) of different ISPs. Normally it will take about 2 to 3 minutes to complete first dial-up or Modem reboot after power-off. Please wait.

4.6 Port Mapping in Router

If the user uses the shared Internet access mode with ADSL and router, as shown in the following figure:



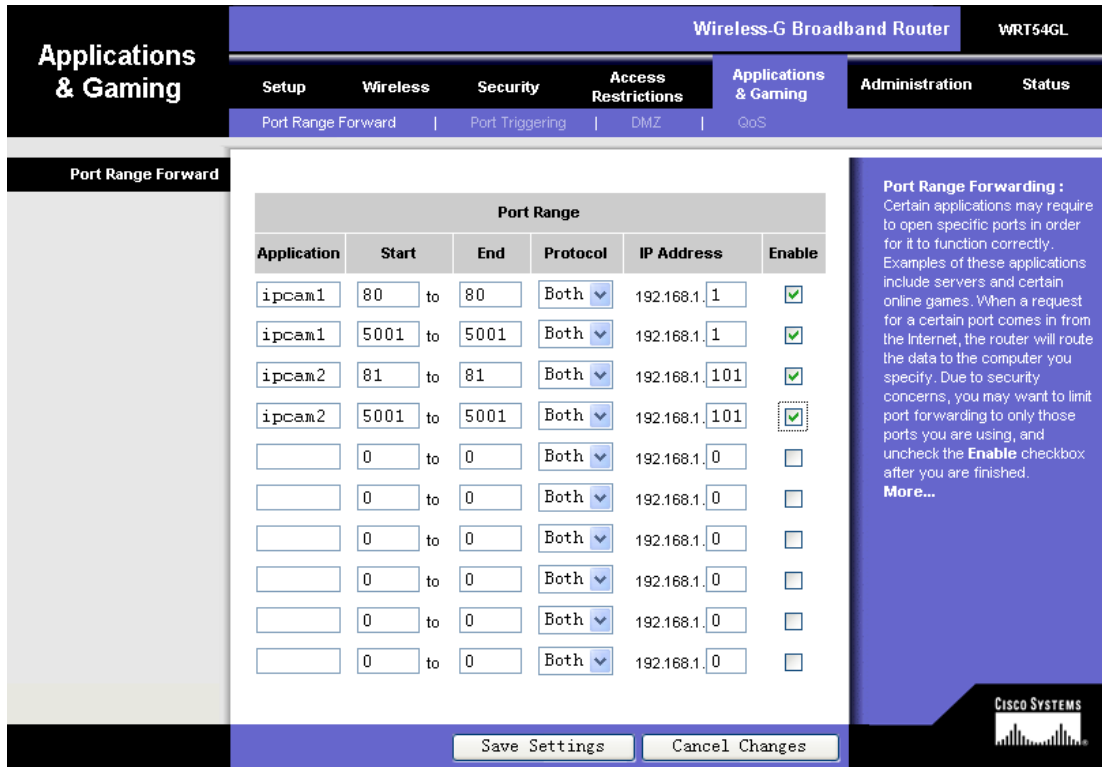
In this mode, set port mapping in the router for each IP camera so that the remote PC can access different IP cameras via different ports.

First log on, into the IP camera. Set the port number in the setting item of **Network**. For example, set the HTTP port of the IP camera (192.168.1.101) to port 80 and DATA port to port 5000, while set the HTTP port of the IP camera (192.168.1.102) to 81 and DATA port to port 5001.

This section takes the Linksys WRT54GL as an example to describe three different port mapping methods. You may select anyone of them.

4.6.1 Port Range Forward

Log on to the router. Select **Port Range Forward** under **Applications & Gaming**, as shown in the following figure:



Add the HTTP ports, DATA ports and IP addresses of all IP cameras over the LAN. Click **<Save Settings>** to save the settings.

4.6.2 DMZ

Log on to the router. Select **DMZ** under **Applications & Gaming**, as shown in the following figure:



The DMZ host enables the router to cancel the active firewall function of an IP address over the LAN so that the IP address can be directly mapped into the external IP of the router, regardless of the port. This mode only supports one IP camera.

Select **Enable** to enable the DMZ function. Fill in the IP address of the DMZ host (IP camera), such as 192.168.1.100.

Click **<Save Settings>** to save the settings.

Note: The **Port Range Forward** and **DMZ** cannot be used at the same time.

4.6.3 UPnP

Automatic port mapping: when the router has UPnP function, if this function is enabled, the router will automatically map the port set for the IP camera into the public network.

First, enable the UPnP function of the IP camera. Log on to the IP camera. Enter the **UPnP Parameters** interface under **Advanced**. Select **Enable UPnP**. Fill in the HTTP port and DATA port and save, as shown in the following figure:

UPnP Parameters	
Enable UPnP	<input checked="" type="checkbox"/>
UPnP network card	Lineate
UPnP mode	Auto
UPnP server	
Data port map No.	5001
HTTP port map No.	81
Data mapping status	
HTTP mapping status	

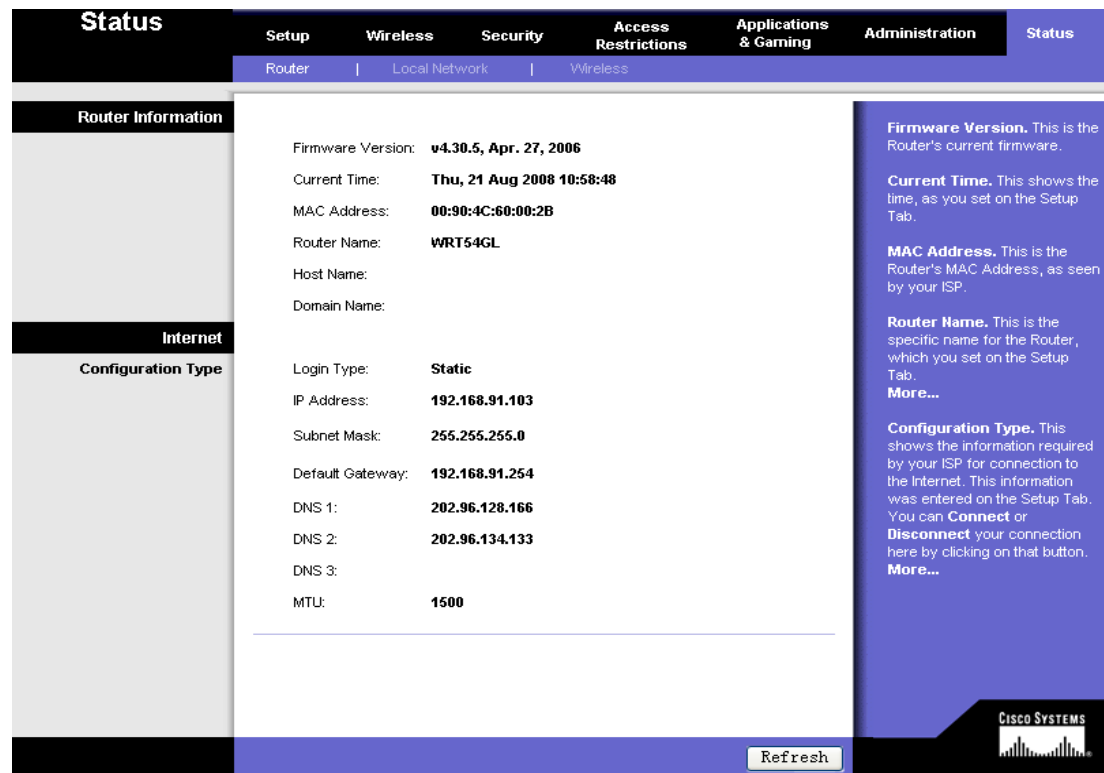
Log on to the router. Select **Management** under **Applications & Gaming**, as shown in the following figure:

The screenshot shows the router's Administration interface. The top navigation bar includes 'Administration' and 'Status'. The main menu has 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Applications & Gaming', and 'Administration'. Under 'Applications & Gaming', 'Management' is selected. The left sidebar shows 'Router Password', 'Local Router Access', 'Web Access', 'Remote Router Access', and 'UPnP'. The main content area is for 'UPnP' settings, with 'UPnP' set to 'Enable'. The 'Router Password' section shows two password fields. The 'Web Access' section has 'Access Server' set to 'HTTP' and 'Wireless Access Web' set to 'Enable'. The 'Remote Router Access' section has 'Remote Management' set to 'Disable', 'Management Port' set to '8080', and 'Use https' set to 'No'. The 'UPnP' section has 'UPnP' set to 'Enable'. A right sidebar contains information about 'Local Router Access', 'Web Access', 'Remote Router Access', and 'UPnP'. At the bottom, there are 'Save Settings' and 'Cancel Changes' buttons.

Among UPnP options, select **Enable** to enable the UPnP function. Click **<Save Settings>** to save the settings.

4.6.4 Extranet Access

The user can query the Extranet address of the router. Click **Status** on the router setup tab, as shown in the following figure:



Internet displays the Internet IP address of the current router, such as 119.122.47.47. If a remote PC wants to access the IP camera, enter the IP address and port number in the IE address bar.

In the example, to make remote access to 192.168.1.100 over the LAN, enter `http://119.122.47.47`.

To make remote access to 192.168.1.101 over the LAN, enter `http://119.122.47.47:81`.

Of course, if a DDNS domain name is set for the IP camera, the remote PC can access by "domain name + port", for example: `http://goscaml.3322.org:81`.

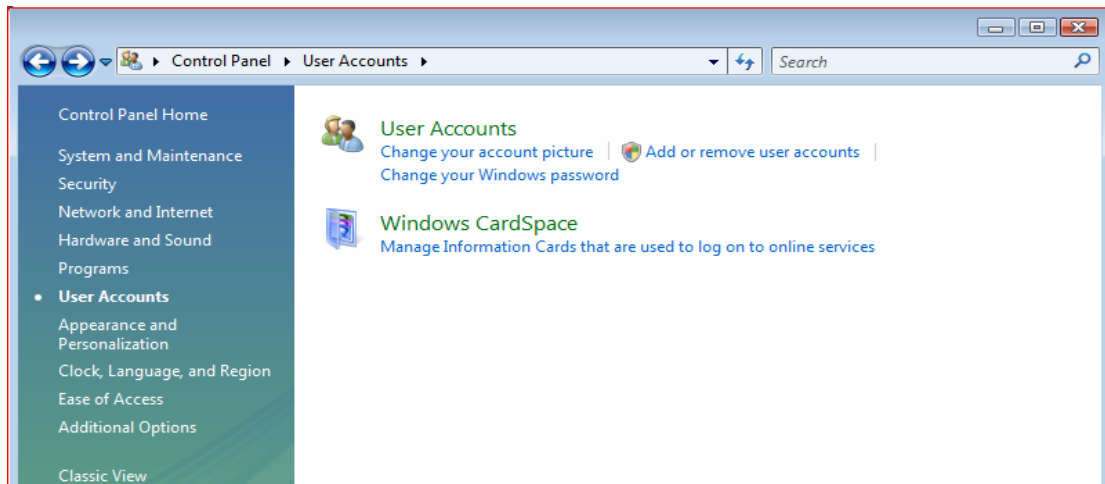
4.7 FAQs

◆ Why can't record files be saved under the **Vista** operating system?

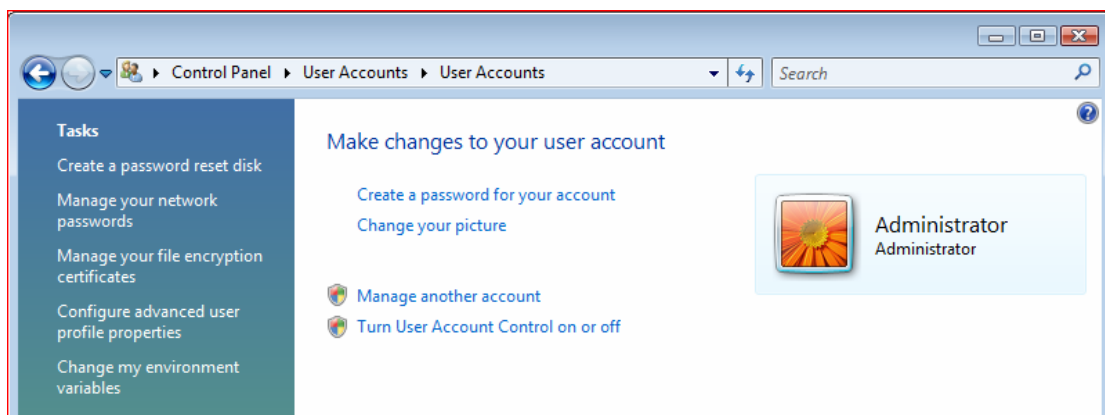
Solution:

(1) Turn off UAC

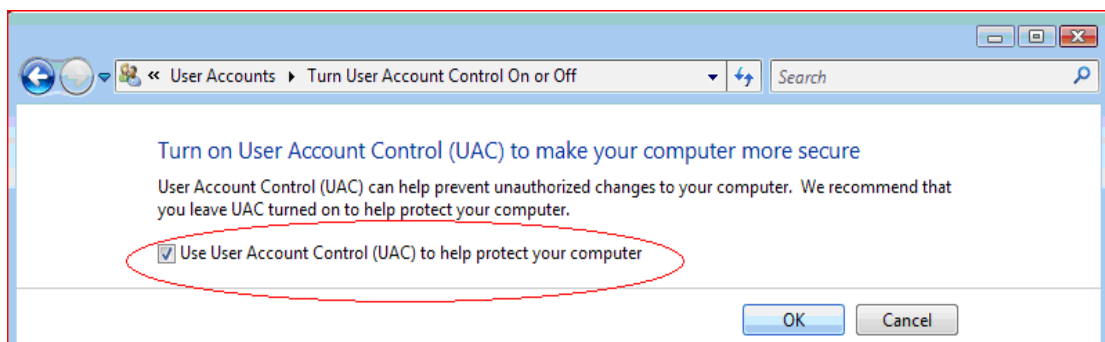
Select **Control Panel** → **User Accounts**.



Select **Turn User Account Control on or off**.

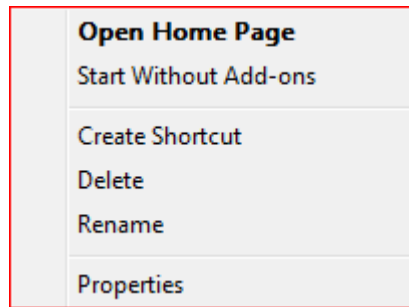


Cancel the **Use User Account(UAC) to help protect your computer** function. After confirmation, restart your PC.

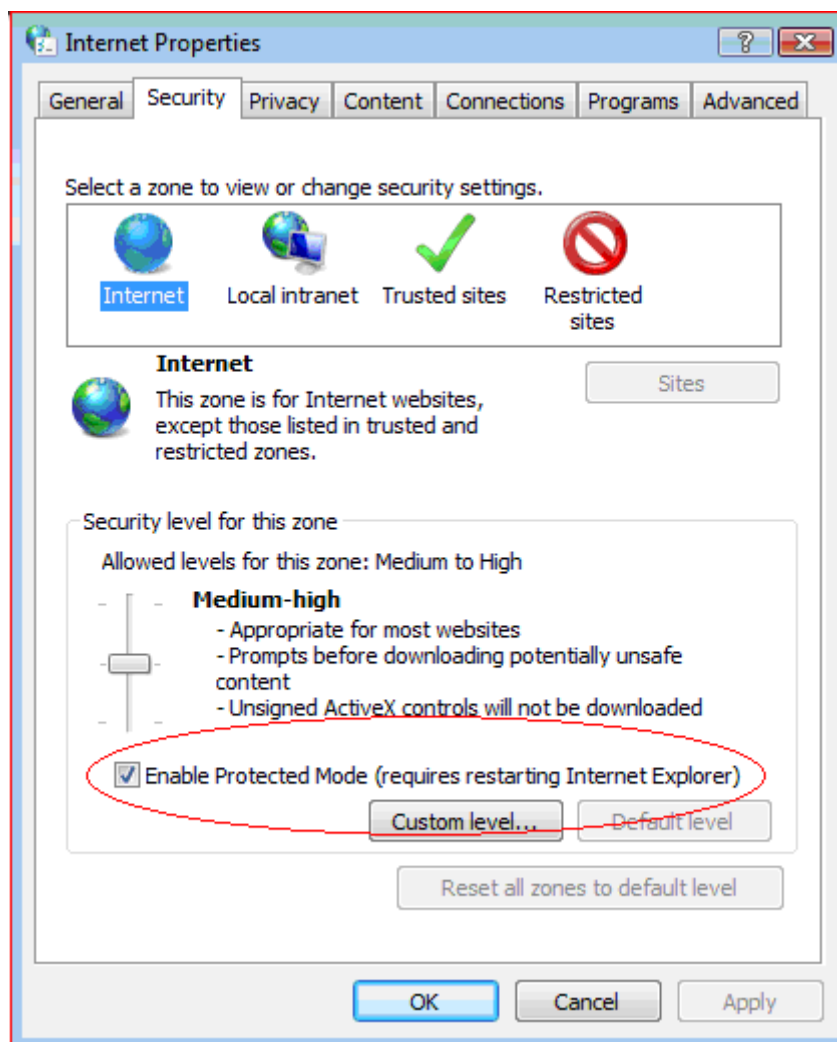


(2) Cancel IP protection mode

Right click the IE icon on your desktop. Select **Properties**.



Select **Security** → **Internet** to cancel the **Enable Protected Mode** function. After confirmation, restart the Internet Explorer again.



- ◆ How shall I do if there is no video image in the Internet Explorer?
Possible cause: No add-ons are installed. If the Internet Explorer is used to view an IP camera for the first time, related add-ons shall be installed. For details, refer to the Quick Installation Guide.
- ◆ Why does an error occur when the Internet Explorer is used to access the IP camera

access after software upgrade?

Delete the contents in the buffer in the Internet Explorer. Use the following procedure: Open the **Tools** menu of the Internet Explorer. Select **Internet Options**. Click **<Delete Files>** under **Internet Temporary Files**. Select the check box **Delete All Offline Content**. Click **<OK>**. Log on to the IP camera again.

◆ I get a blue screen /display?

Possible cause (1): Too many users are using the same function/IP camera. If possible disconnect some off the clients. If not try again later on.

Additional possible cause (2): Low network bandwidth; please select QVGA format.

Another possible cause (3): No DATA port mapping is has been configured in the router.

◆ How shall we do if access to the IP camera via the Internet Explorer fails?

Possible cause (1): No network connection/access.

Use a PC to access the network to test the network connection. First make sure the cable is well connected and network is not disturbed caused by viruses until PCs can ping each other successfully.

Possible cause (2): the IP address is already assigned to other devices.

Disconnect the connection between the IP camera and the network. Connect the IP camera to a PC independently. Reset the IP address according to recommended procedures.

Possible cause (3): The IP address is in a different subnet.

Check the IP address and subnet mask address of the Server, as well as the gateway settings.

Possible cause (4): Conflict between the physical address and the IP camera address.

Change the physical address of the IP camera.

Possible cause (5): The Web port has been changed.

Contact the administrator to get another port information.

Possible cause (6): unknown.

Press the **<Reset>** button on the back of the IP camera to restore the default settings. Try to reconnect. The default settings of the system: IP address: 192.168.1.10; subnet mask: 255.255.255.0; and gateway: 192.168.1.254.

◆ Abnormal image display color (green or other colors)

Typically it is caused by graphics card. Sometimes, the images of the IP camera cannot be displayed in a regular way, that is, they are displayed in green or other colors. Run Config.exe extracted from the OCX control package (or run C:\Windows\system32\Config.exe) to set the display buffer. Automatic test, fixed use of video memory or fixed use of memory. Rerun the browser to

connect the IP camera.

◆ Poor audio effect

Possible cause: In case of excessive noises or serious distortion, check whether the input signals level is line input. In most cases, when the input signal is not line input (such as amplified active microphone), mismatch with the input level of the IP camera may cause saturation distortion.

Please use an appropriate line input based on the acceptable range of the IP camera.

◆ How shall we do if the password is forgotten?

There is a <RESET> button on the back of the IP camera. Upon power-on, press this button for over five seconds, all parameters will be restored to their default settings. Both the default user name and password are “admin”.

Note: It is advisable that only service-trained professionals shall press the <RESET> button. All parameters will be restored to default settings (except the physical address of the network) if it is reset.

Notes

“√” indicates that a function is available.

The above products are subject to change without prior notice.

For detailed products, please connect the distribution or local service branches.

License and Limited Warranty Agreement

The opening of the packaging of the Software and/or the installation of the Software and/or the use of the Product shall be deemed that you have read and accepted the terms of this License and Limited Warranty Agreement.

If you do not agree to the terms of this agreement, do not use the product.

Promptly return the entire package to the place where you obtained it.

General Terms

You have purchased the right to use the software embedded in some integrated circuits of this Product and on the enclosed disks and/or CD_ROM (the 'Software') and you have purchased the hardware that is the other part of the Product (the 'Hardware'), together (the 'Product') produced by Video Domain Technologies ('VDT').

If the Hardware or the Software does not function properly, please return the Product, together with the copy of your paid receipt, to the place where you obtained it.

License

VDT grants you a license to use the Software subject to terms and conditions of the License agreement hereto. You do not own the Software. VDT and/or third parties remain the sole owner of the Software. The Software and accompanying documentation are proprietary products of VDT and/or third parties, and all title, trade secrets, trade names, trademark patents, copyrights and any other intellectual and proprietary rights, in the Product whether registered or not, remain the sole property of VDT and/or third parties. The intellectual property rights of VDT and/or third parties in the Product are protected by law.

Your rights in the Software are limited to installation of the Software, in the machine-readable form in accordance with the instructions VDT provided you, executing the Software after installation, and making an archive copy(s) in the form provided for backup purposes.

The Software may be used only in conjunction with the Hardware you bought, as an integral part of the Product. Any attempt to determine the source code for the Software; to modify, reprogram, translate, disassemble, decompose, or otherwise reverse engineer the Software; selling sublicense, transferring the Software to anyone else; or allowing any one the access or execute the Software through time sharing services or as a service bureau are forbidden. Any attempt to do any of these forbidden activities will automatically terminate your right to use the Software and our Limited Warranty without any notice from use.

Warranty

The Product, including the media on which the Software is delivered, is warranted to be free of defects in material and workmanship and shall comply with VDT specifications, for a period of 12 months of normal use from the date

of purchase ('the Warranty Period').

The Warranty is void if VDT's instructions of operation, checking and maintenance are ignored, if attempts to repair the Product have been done before the Product is returned to the place where you obtained it.

Responsibility for normal wear and tear is excluded.

The Product is provided 'As Is' and without Warranty, by VDT and/or the distributor and/or the importer, if the importer is not a distributor (each hereinafter the 'Distributor') of the Product, in the country where the product was purchased, or our suppliers, express or implied, including without limitation implied warranty of merchantability of fitness any particular purpose. During the Warranty Period, VDT's and/or VDT's Distributor sole obligation, in tort, contract, or otherwise, shall be to repair or replace the defective Product, at VDT's option. The repair or replacement of the defective Product during the Warranty Period will not extend the Warranty Period. The Warranty does not cover failures resulting from improper operation, connection, or installation. For your convenience, VDT's obligations in connection to Warranty claims, repairs service and instructions have been transferred to VDT's Distributor in your country. The Distributor is responsible for providing you with all necessary services (If you need the details of the Distributor in your country, please contact VDT).

However, if according to law, by law EC directive etc. prevailing in the country/state in which the product was purchased you are entitled a longer warranty period and/or to better minimum undertaking from VDT and/or from the distributor than those granted to you herein, then this document is changed to reflect the said minimum/s.

Disclaimer

VDT and/or the Distributor make no Warranty, Representation or promise expressed or implied that the Hardware and/or the Software or associated documentation will satisfy your requirements and/or that the hardware or software and documentation are without defect or error or that the operation of the hardware and software will uninterrupted or error free.

Limitation of Liability

Except as otherwise restricted by Law, VDT's and/or distributor's aggregate liability arising from or relating to your purchase and/or use of the Hardware and/or Software, the associated documentation or any services provided by VDT and/or the distributor, is limited to the total of all payments made by or for you for the Hardware and Software and documentation.

Neither VDT nor the Distributor or any of their licensors, directors, employees, or any body acting on their behalf shall in any case be responsible or liable for any special, incidental, consequential, indirect or punitive damages, even if advised of the possibility of those damages and/or for lost profits or revenue, loss of contracts, loss of data, costs or re-creating lost data, and/or the cost of any substitute Hardware and/or Software and/or equipment or programs.

Governing Law and Jurisdiction

Except as otherwise restricted by law, this Agreement shall be governed only by, and interpreted, in accordance with the laws of the State of Israel and the exclusive jurisdiction shall be vested to the local courts of Tel Aviv.

Entire Agreement

This Agreement sets forth the entire understanding and rights and duties between you and VDT. This Agreement may be amended only in writing signed by both parties. No person or entity is authorized to modify this Agreement or to make any warranty, representation or promise which is different than, or in addition to, the representation or promises of this agreement.

Waiver

No waiver of any right under this Agreement shall be effective unless in writing, signed by a duly authorized representative of the party to be bound. No waiver of any past or present right arising from any breach or failure to perform shall be deemed to be a waiver of any future right arising under this Agreement.

Severability

If any provision in this Agreement is invalid or unenforceable, that provision shall be construed, limited, modified or, if necessary, severed, to the extent necessary, to eliminate its invalidity or unenforceability, and the other provisions of this Agreement shall remain unaffected.

Support

For support issues please e-mail: support@vdomain.com