

Sumppe

**Wireless/Wired HD Smart Doorbell Camera
(with H.264 image compression)**



Model:S710

Instruction Manual

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1. INTRODUCTION

This user manual will show the details to set up your Doorbell camera with your computer;

if you are viewing with a Smartphone, pls check Quick Start Guide, as it is very easy to set up.

IMPORTANT NOTICE

The various screens throughout this owner's manual will look different depending on the browser you use. Full functionality is available when using Internet Explorer (IE) with ActiveX (OCX) installed. Limited functionality is available with other browsers, such as Safari, Chrome, and Firefox.

Please Read this manual carefully, according to the browser you are using.

This is an integrated wireless doorbell Camera. It combines a high quality digital Video Camera with network connectivity and a powerful web server to bring clear pictures to your Desktop from anywhere on your local network or over the Internet.

The main function of the Doorbell camera is to transmit remote video over IP network. The high quality video image can be transmitted with 30fps speed on the LAN/WAN by using H.264, MJPEG compression technology.

It is based on the TCP/IP standard, build-in WEB server which supports Internet Explorer. Therefore the management and maintenance of your Doorbell camera becomes simple by using the network to achieve the remote configuration, start-up and to upgrade firmware.

You can use your Doorbell camera to monitor your home or your office. Also, controlling and managing images are simple by visiting the web site.

1.1 Features

- ☆ Powerful high-speed video protocol processor
- ☆ High-sensitivity 1/4" CMOS sensor
- ☆ Picture total 1000K pixels (1megapixel)
- ☆ Optimized H.264 MJPEG video compression for transmission
- ☆ Multi-level user management and passwords definition
- ☆ Embedded Web Server for users to visit by IE
- ☆ Supports wireless network (WI-FI/802.11/b/g/n)
- ☆ Supports Dynamic IP (DDNS) and UPNP LAN and Internet (ADSL, Cable Modem)
- ☆ Gives an alarm in case of motion detection
- ☆ Supports image snapshot
- ☆ Supports multiple protocols: TCP/IP HTTP DNS DHCP PPPoE SMTP FTP SSL TFTP NTP
ARP/RARP NFS RTSP RTP RTCP.
- ☆ Supports WEP/WPA/WPA2 encryption
- ☆ Supports IE, Firefox, Safari, and Google chrome browsers

1.2 Packing List

- Doorbell Camera
- Quick Setup Guide
- DC Power Supply
- CD
- Accessories Package
- Mounting

1.3 Product Views

1.3.1 Rear View



1. Battery Port:(12V2A; Size:16650 lithium battery;)

2. Reset Button.(Pressing for 10 seconds for reset, pls keep power on when reset)

3. Pins:Two pins for Power(12V2A); Four pins for Network cable. Seven pins for microphone and Speaker(Active microphone and speak).



Pin 1: Speaker + connector

Pin 2:Speaker - connector

Pin 3: I/O connector

Pin 4: Earth Wire connector

Pin 5: Button wire connector

Pin 6: Microphone+ connector

4. Unlock port.(Pressing can make the doorbell and cell unlock.)

Infrared LEDs: infrared LEDs with 10 meters night vision.

LENS: Magepixel lens.

1.4 PC System Requirements

System configuration requirements:

CPU: 2.06 GHZ or above.

Memory: 256M or above.

Network Card: 10M or above.

Display Card: 64M or above memory.

Recommended Operating system: Windows XP, Windows Vista, Windows 7.

1.5 Hardware Installation

Follow the steps below to set up your Doorbell camera hardware.

1. Plug the power adaptor into the Doorbell camera and into an AC outlet or connect your old doorball power(12V2A).
2. Setup the Doorbell camera via Smartphone App to get IP address in computer, or using Network calbe to get IP; (Wireless Setup details see printed Quick Setup Guide)
3. After setup the Doorbell camera under wireless connection, It takes approx 30 seconds to boot up the Doorbell camera, then you will find the IP address from "IP Camera Tool" (Figure 2.1.5).
4. When Doorbell camera setup successfully, the green LED on the rear panel will stay on. And the Indicator LED on the front of the Doorbell camera will flash.

2. INSTALLATION AND SETTINGS

System Requirement:

Operating System: Windows 2000 / XP / Vista / 7

Network Protocol: TCP/IP

Network Structure: Applies to all network connections 10/100M LAN platform

Browser: Internet Explorer 6.0 or above. Firefox, Google, Safari, or Chrome.

2.1 Network Connection

Intranet and Extranet Connection Reference:

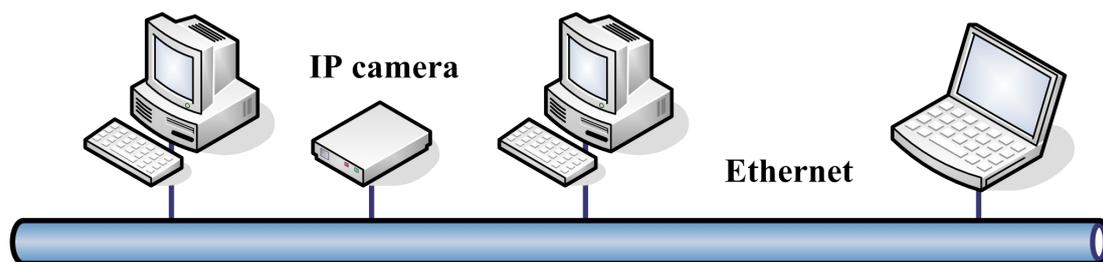
Extranet means public IP (i.e. The Internet), Intranet means private IP. If your IP belongs to the follow range, then it's a private IP :

Category A: 10.0.0.0 - 10.255.255.255

Category B: 172.16.0.0 - 172.31.255.255

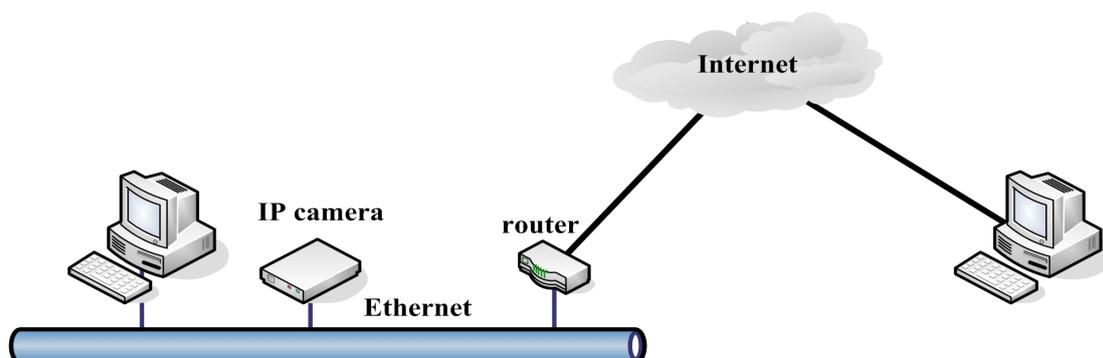
Category C: 192.168.0.0 - 192.168.255.255

Intranet Connection: The Doorbell camera and your computer (device) should be under the same network environment, and both of the IPs should be under the same subnet, pictured as below:

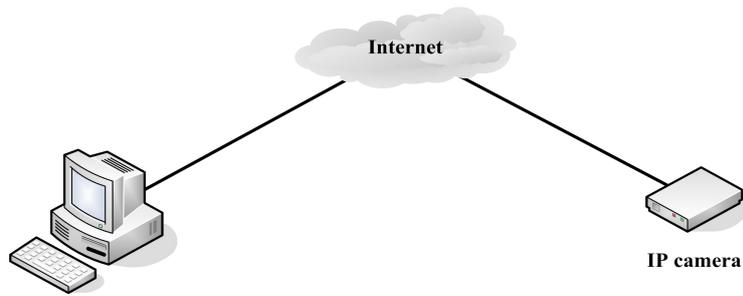


Extranet Connection: there are 2 ways as below:

(1). Doorbell camera connects to the Internet via a router, here Doorbell camera's IP is a private IP, client needs to connect to the Doorbell camera through a router, with port forwarding to be connected correctly, as below:



(2).Doorbell Camera connects to the Internet directly, if it's a fixed IP provided by your ISP, just input it. If it's a floating IP, then input the account and password provided by your ISP to dial-up connection.



2.2 Browser Settings (For IE only)

OCX will be downloaded automatically when you login to the Doorbell camera, but you might have to set the IE browser to enable the OCX to be downloaded automatically after signing in. Steps as below:

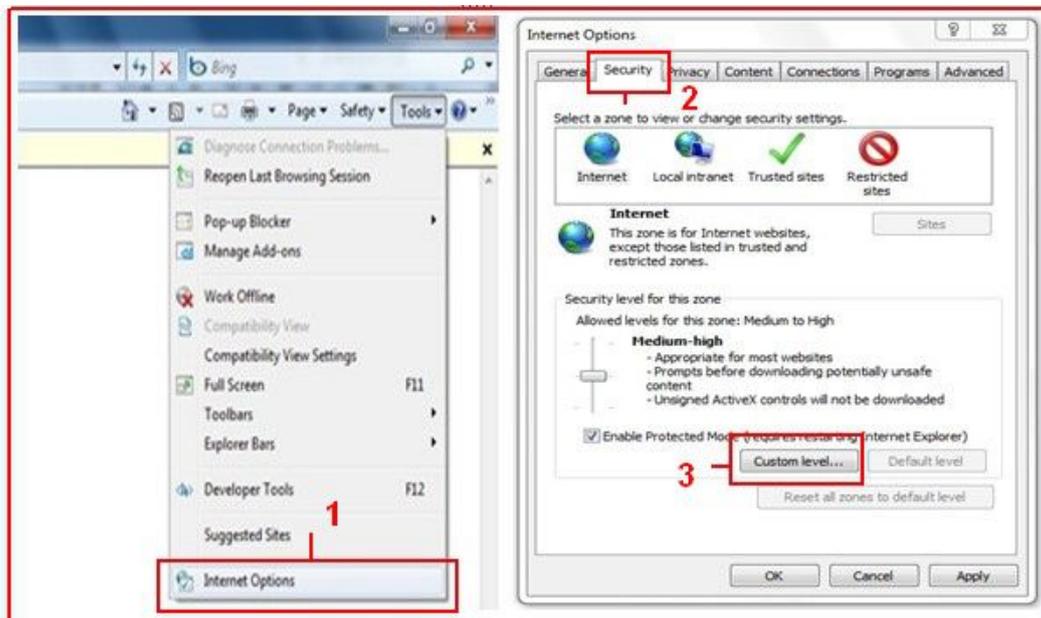
1. Close the firewall of your computer.
2. Change the ActiveX settings, "IE" browser > "Tool" > "Internet Options" > "Security" > "Custom Level" > "ActiveX control and Plug-ins", all the ActiveX options set to be "Enable":

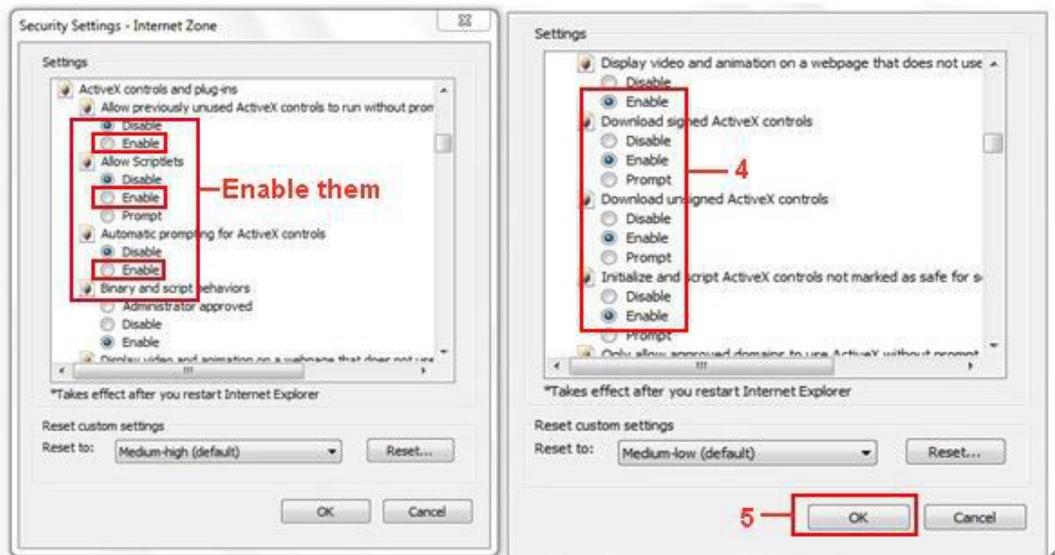
Especially:

Enable: Download unsigned ActiveX controls

Enable: Initialize and script ActiveX controls not marked as safe

Enable: Run ActiveX controls and plug-ins





You can also click **“Start”** menu->**“Internet Explorer”**, and choose **“Internet attributes”**, or via **“Control Panel”** ->**“Internet Explorer”**, to access Security settings.

NOTE: Make sure that your firewall or anti-virus software doesn’t block the software or ActiveX. If you couldn’t see live video, please close your firewall or anti-virus software, and try again.

2.3 UPnP Service

UPnP could help you to find your Doorbell camera’s IP more quickly. For Window XP, from **“Control Panel”** > **“Add or remove applications”** > **“Add or remove Windows component”** > **“Network service”** > **“Detailed data”** > **“UPnP users interface”**, the factory default settings is disabled. Enable it, then it can allow your operating system to support UPnP.

Alternatively, you can also click **“Start”** menu->**“Internet Explorer”**, and choose **“Internet attributes”**, or via **“Control Panel”** >**“Internet Explorer”**, enter to Security settings.



2.5 Install the OCX ActiveX (For IE only)

Install the OCX ActiveX for the first time login; You will get tips after enter user and password in login page.

Download the OCX file, then double click to install it automatically.

After OCX installed fully, then input the user and password to login the Doorbell camera.

2.5.1 For other Browsers, e.g., Safari, Firefox, Chrome, there is no need to install the ActiveX control, see below:

User can input the ip address in the other browsers, select the view mode such as Server Puch; VLC, Quick time to view

If User can not find the correct IP address,The default IP address for each Doorbell camera is 192.168.1.155.

You can run the browser, and input the IP address directly into your browser to login to the Doorbell camera.

NOTE: If the IP segment of the computer is different from the Doorbell camera, such as 192.168.0.xx, please change the IP segment of the computer's to the same as Doorbell camera's, such as 192.168.1.xx, then connect the Doorbell camera to the computer via network cable directly, run the browser, input the IP address and the login screen below will pop-up:

Username

Password

Mode

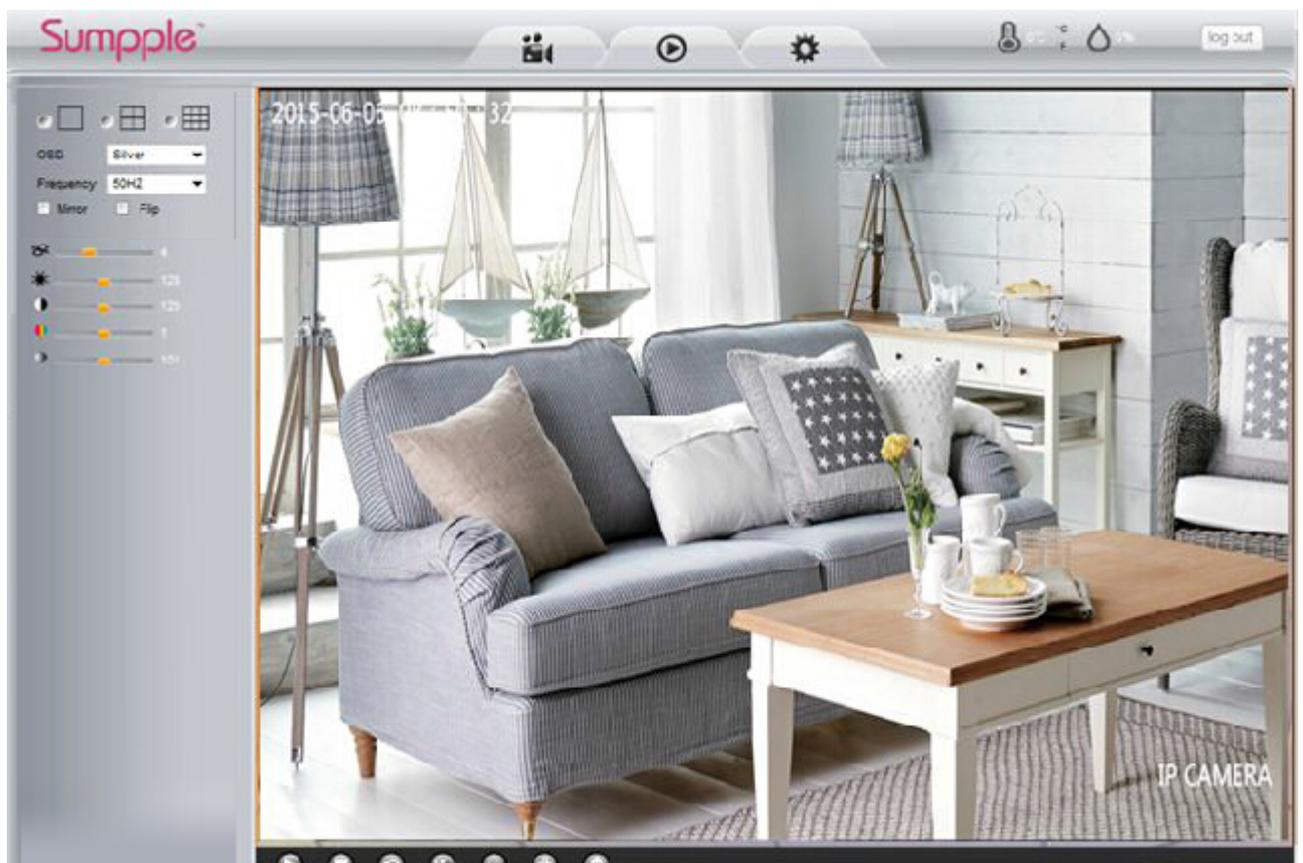
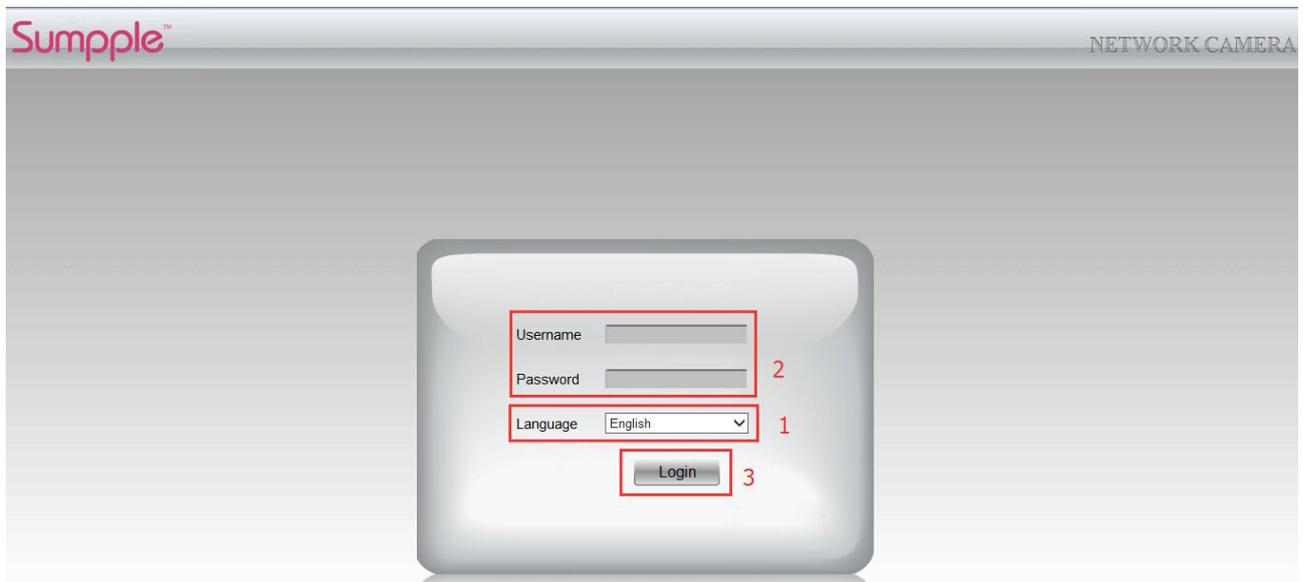
Language

3. SOFTWARE OPERATION

3.1 Software operation for IE Browser

Choose your desired language, input correct user name and password, then click “Login”

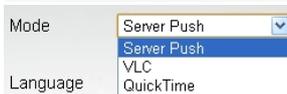
User name: admin **Password:** sumpple,



3.2 Software Operation For Chrome, Firefox, Safari:

Choose the suitable language, input correct user name and password, then click “Login”

User name: admin **Password:** sumpple



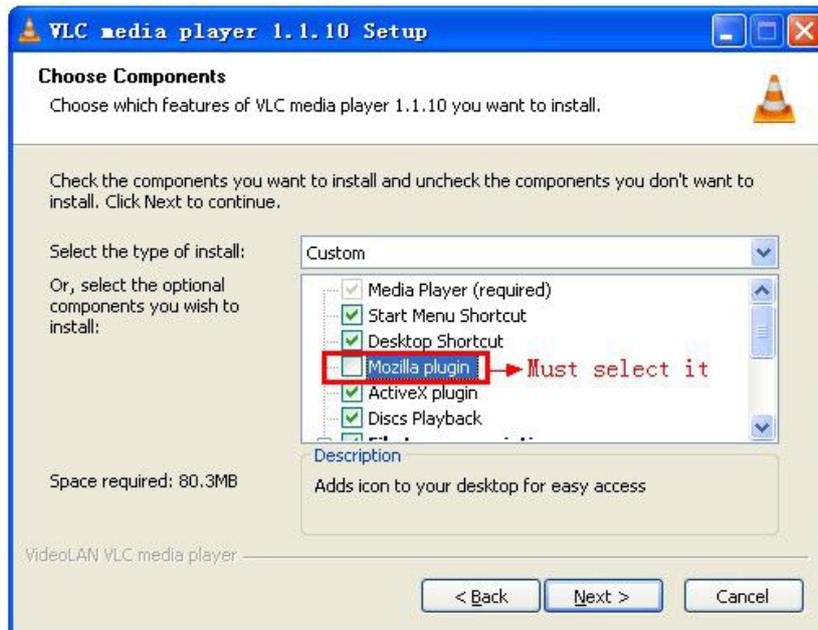
Choose the login mode.

QuickTime: Choose QuickTime, login to the Doorbell camera directly. if there is prompt for installing the QuickTime player, just download and install it.

Sever Push: For Firefox, Chrome, or Safari browser.

VLC: If you use VLC, should download the VLC player first.

During the VLC installation, you must enable Mozilla plug-in as the picture shows below:



Language English : Choose languages here

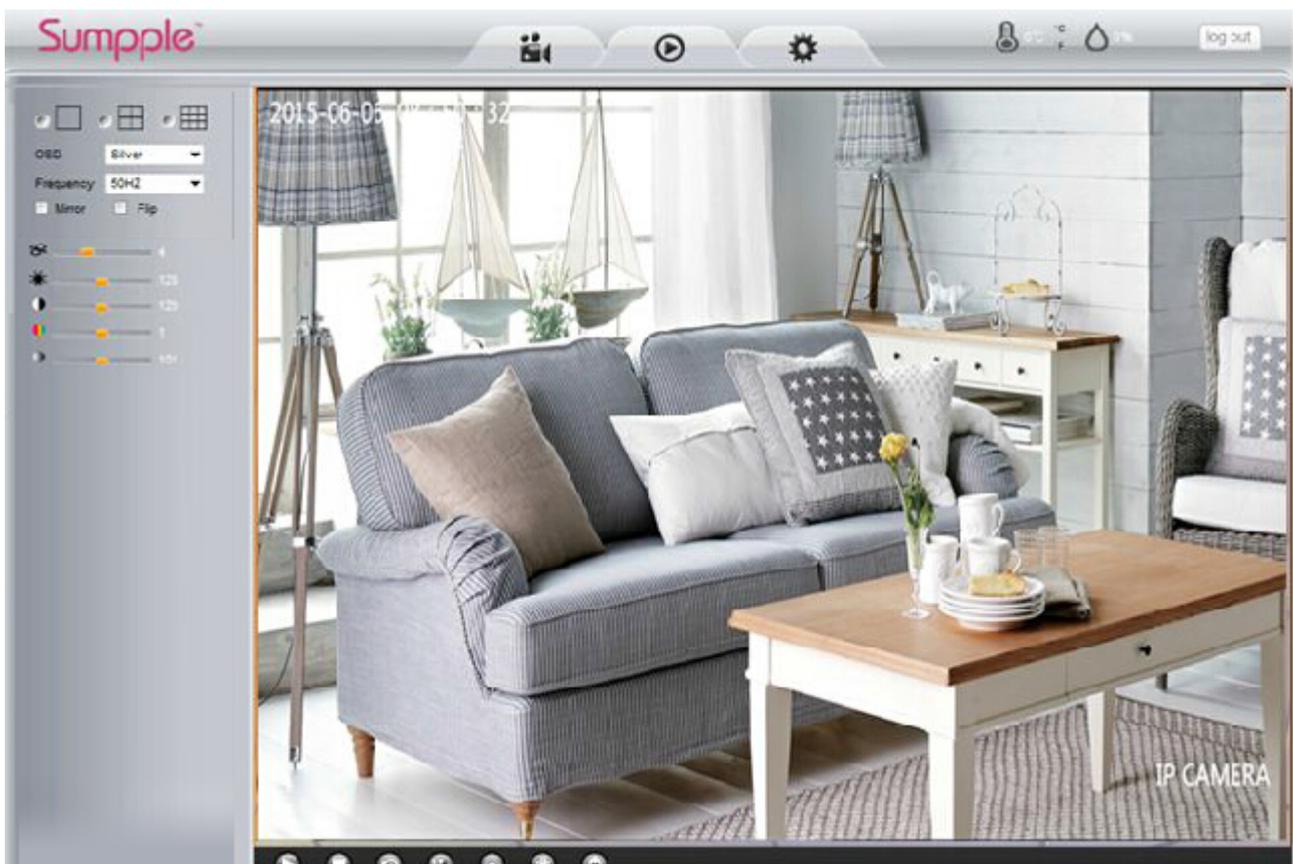


Figure 2.3

3.3 Functions

3.3.1 Three main functions (For IE):



 **Live video:** Click it, back to live video window from “**Playback**” or “**Params settings**”

 **Playback:** Click to query and playback the video files (**Details see 5 Playback**)

 **Params Settings:** Setting the Doorbell camera’s parameters (**Details see 4 Params settings**)

3.3.2 Two main functions (For Safari, Chrome, Firefox)



 **Live video:** Click it, back to live video window from “**Playback**” or “**Params settings**”

 **Params Settings:** Setting the Doorbell camera’s parameters (**Details see 4 Params settings**)

Log out: you will back to the login page

3.4 For Live Video (for IE browser)

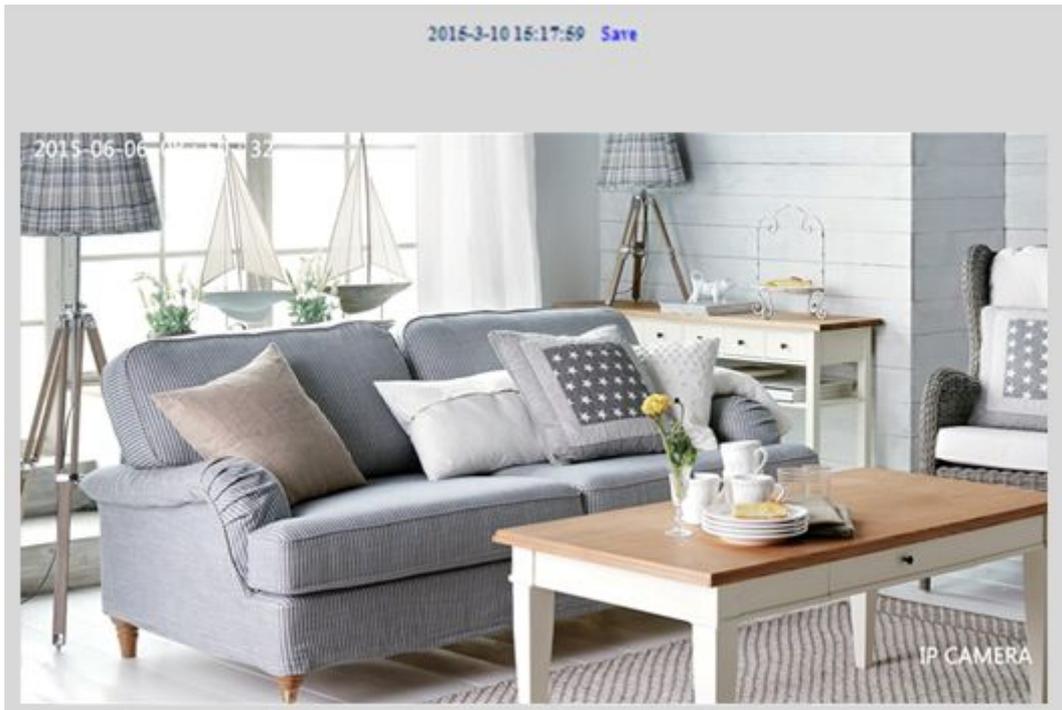
3.4.1 Video Menu:



 **Play:** Play the live video.

 **Stop:** Stop the live video.

 **Snapshot:** Click to take snapshot, the picture be saved in the PC to its appointed path as JPG format, and pop-up the prompt as below:(you can click “Save” to save the snapshot)



Record: Click to start record manually, the icon will change to green color.



Record file will be

saved in the PC to its appointed path as AVI format. Click it again, will stop record function.



Audio: Click it to enable listen function, the icon will change to green color



can hear the live

audio from Doorbell camera via PC if audio is ON. Click it again, will stop listen function.



Talk: Click it to enable talk function, the icon will change to green color



can talk between PC and

Doorbell camera if audio device connected. Click it again, will stop talk function.



Clear Alarm: Click to stop the alarm manually when there is an alarm triggered, and pop-up prompt as

below:

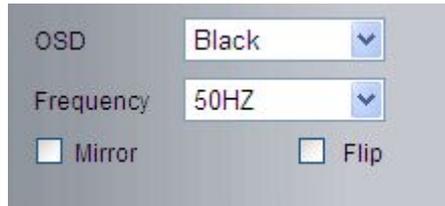


Fullscreen: Click to get fullscreen view;



OSD Settings: Click it will pop-up the OSD settings interface, including OSD Color,

Frequency, Image Mirror and Flip.



OSD: Means “On-Screen Display”

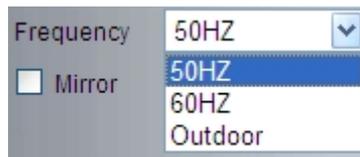
OSD Color: Including Disabled, Black, Red, Green, Blue, Purple, Gray, Silver, Yellow, Olive, Turquoise, White, Light Blue etc.



Frequency: Including 50HZ, 60HZ, Outdoor.

50HZ/60HZ for the users who use 50HZ/60HZ frequency, outdoor for the users who want to use this Doorbell camera to monitor an outdoor environment (through a window).

NOTE: The Doorbell camera should only be used in a indoor environment



Mirror and Flip

Mirror: Select this checkbox to see a mirror image. Uncheck it to go back to normal.

Flip: Select this checkbox to flip the image upside down. Uncheck it to go back to normal.



NOTE: You can choose Mirror and Flip function if you set up the Doorbell camera in a special position, upside down for example.

3.5 Live Video for Safari, Chrome, Firefox:

3.5.1 Play Menu For QuickTime Mode:



Capture: Click to take snapshot, the picture be saved in the PC to its appointed path as JPG format, will pop-up the snapshot, right click the picture to save it.



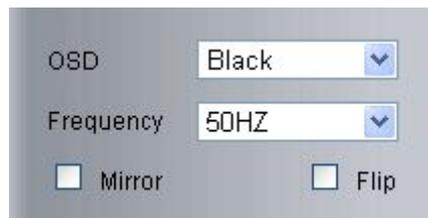
Fullscreen: Click to have fullscreen view;



: Click to exit fullscreen.

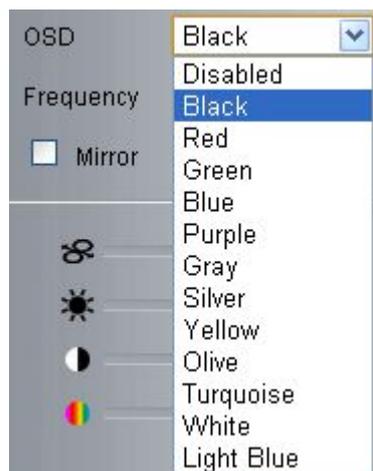


OSD Settings: Click it will pop-up the OSD settings interface, including OSD Color, Frequency, Image Mirror and Flip.



OSD: Means “On-Screen Display”

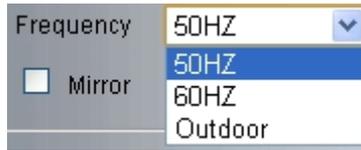
OSD Color: Including Disabled, Black, Red, Green, Blue, Purple, Gray, Silver, Yellow, Olive, Turquoise, White, Light Blue etc.



Frequency: Including 50HZ, 60HZ, Outdoor.

50HZ/60HZ for the users who use 50HZ/60HZ frequency, outdoor for the users who want to use this Doorbell camera to monitor an outdoor environment (through a window).

NOTE: The Doorbell camera should only be used in an indoor environment.



Mirror and Flip

Mirror: Select this checkbox to see a mirror image. Uncheck it to go back to normal.

Flip: Select this checkbox to flip the image upside down. Uncheck it to go back to normal.



NOTE: You can choose Mirror and Flip function if you set up the Doorbell camera in a special position, upside down for example.

3.5.2 Top Menu For VLC Mode:

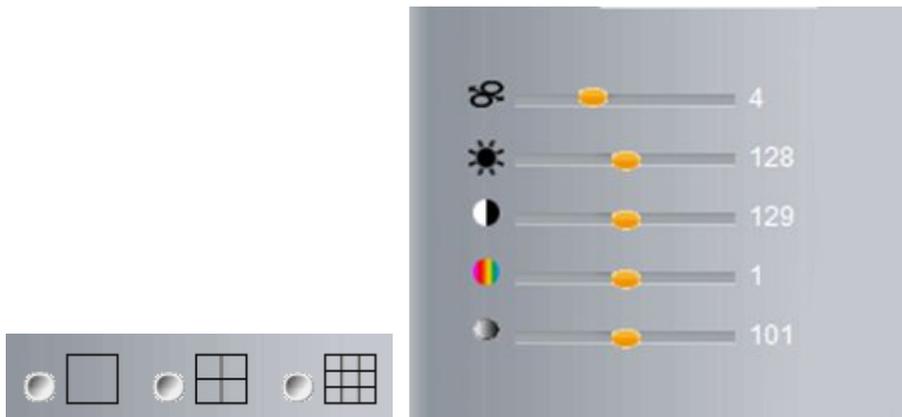


This will be the same as 3.3.1 TOP Menu For QuickTime Mode.

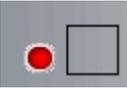
3.6 Left Side Menu:

3.6.1 Left Side Menu For IE browser

There are some basic operation icons listed on the left side menu as below:

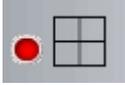


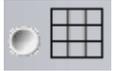
Click this one, you can view the main channel of the Doorbell camera you login to, move the mouse

to the icon, the frame will change to red color .



Click this one; you can view 4 Channels of Doorbell cameras that are connected, from CH1 to CH4.

Move the mouse to the icon, the frame will change to red color .



Click this one; you can view 9 Channels of Doorbell cameras that are connected, from CH1 to CH9.

Move the mouse to the icon, the frame will change to red color .

NOTE: If you want to view 4/9 channels, you should set the Multi-Device firstly (See section 4.13 Multi-Device Settings).



PTZ speed: Not supported



Brightness: set value from 0 to 255, click the icon, it will change back to the factory settings.



Contrast: set value from 0 to 255, click the icon, it will change back to the factory settings.



Hue: set value from -128 to 127, click the icon, it will change back to the factory settings.

3.4.2 Left Side Menu for Safari, Chrome, Firefox:

There are some basic operation icons listed on the left side menu as below:

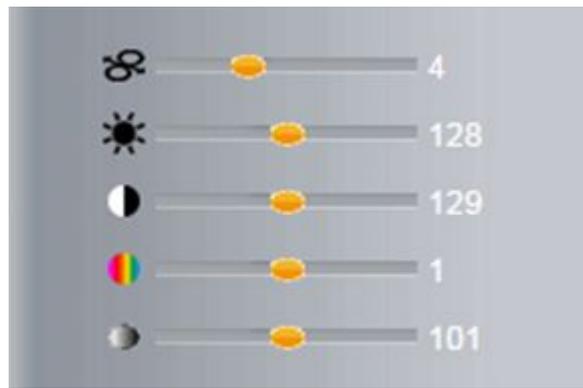


Figure 4.4



Figure 4.6



PTZ speed: Not Supported



Brightness: set value from 0 to 255, click the icon to go back to the factory settings.



Contrast: set value from 0 to 255, click the icon to go back to the factory settings.



Hue: set value from -128 to 127, click the icon to go back to the factory settings.

4. SETTINGS

4.1 Status----Device Info.



Click “ Settings” icon select “Status”, it will show the basic information such as “Device ID”, “Device Client Version”, “Device System Version”, “Description”, “IP Address”, “UPNP Status”, “DDNS Status” etc.

Default device name is “Sumppl”, users can change the Doorbell camera’s description here, picture as below:

4.1.2 For IE, Doorbell camera will show as below:



Figure 4.7

4.1.3 For Safari, Chrome, Firefox, Doorbell camera will show like picture as below:



Figure 4.8

4.2 Setup

4.2.1 User Permission

User can set 10 different usernames and passwords for different permission; Permission:

Administrator, Operator; Visitor;

Super Administrator: Every device has a super administrator, it has the highest permission, can set all the parameters.

Administrator: Lower permission than super administrator, it can set most of the parameters except adding or editing other administrator accounts.

Operator: Lower permission than administrator, can do some operation such as pan/tilt control and set some parameters.

Visitor: The lowest permission, only can view live video, can't control the pan/tilt, parameter settings etc.

The screenshot shows the Sumpple Network Camera web interface. The top navigation bar includes the Sumpple logo, a play button, a camera icon, a gear icon, and the text "NETWORK CAMERA". On the left, a sidebar menu contains "Status", "Setup", "Users Permission" (highlighted with a red box), "Multi-Device Settings", "Date&Time", "Audio Settings", "Network Settings", "Video", "Alarm Settings", "Record", "Cruise", and "System". The main content area is titled "Users Permission" and features a table with columns for Serial Number, Username, Password, and Permission. The table lists 10 users, with the first user being the Super Administrator and the others being Visitors. "Save" and "Refresh" buttons are located at the top right of the table.

Serial Number	Username	Password	Permission
1	admin	Super Administrator
2	123	Visitor
3	456	Operator
4			Visitor
5			Visitor
6			Visitor
7			Visitor
8			Visitor
9			Visitor
10			Visitor

4.2.2 Multi-Device Settings

Note: Multi-Device only can be set under IE Browser, for Firefox, Safari, Chrome, you cannot see these setting, as they do not support ActiveX.

Click "**Multi-Device Settings**" to enter the interface:

The screenshot shows the Sumpple Network Camera web interface with the "Multi-Device Settings" page selected in the sidebar menu (highlighted with a red box). The main content area is titled "Multi-Device Settings" and includes "Save" and "Refresh" buttons. Below the title, there is a "Device List in LAN" section with a text area containing "IP CAMERA(192.168.4.123)" and "IP CAMERA(192.168.4.90)", and a "Refresh" button. A table below lists device settings for the first nine devices, with the first device set to "I=Local" and the others to "None". The table has columns for device number and its corresponding setting. A notice at the bottom states: "Notice: Make sure the inputted host and port can be visited when you visit the device via internet".

Device	Setting
First Device	I=Local
Second Device	None
Third Device	None
Fourth Device	None
Fifth Device	None
Sixth Device	None
Seventh Device	None
Eighth Device	None
Ninth Device	None

If you have more Doorbell cameras in same LAN network, software can auto-detect them and list in “Device List in LAN”

Enable the channel you want to add; Choose the IP, input host(for Doorbell camera in different network, you will need to input external ip address/DDNS address), web port, media port, username, and password manually, click Add to submit.

4.2.3 Date & Time

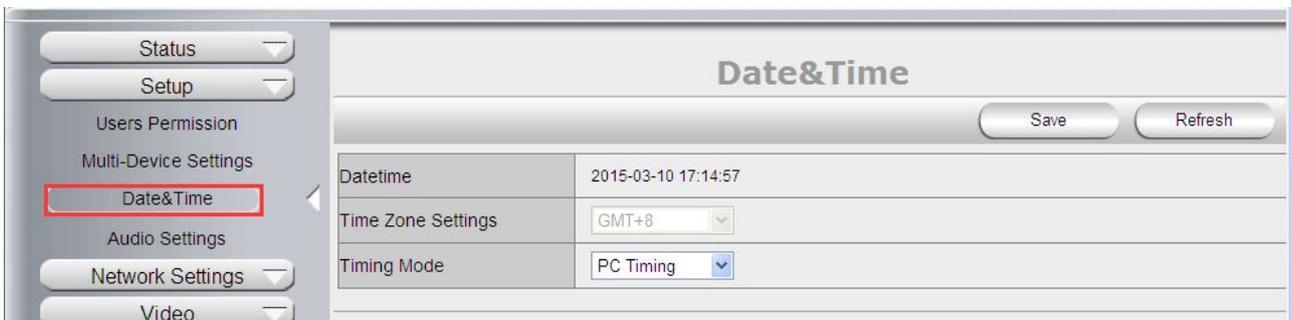
Date Time: Display the current date and time

Time Zone: Set the current time zone Select the working time server.

Time Mode: Can choose PC Time or NTP Time.

PC Timing: Doorbell camera will set the time the same as your PC.

NTP Server: User will need to select a working time server, and select the time zone.



4.2.4 Audio Settings

External Headset: You will need to connect the pins to connect the external speaker.

Built-in Headset: This means the built-in Headset port; with located in the cable. User can connect to the audio devices;

Microphone Volume: User can adjust the volume of Microphone.

Speaker Volume: User can adjust the volume of Speaker.



4.3 Network Settings

4.3.1 IP

Network Type: User can set Dynamic Address to obtain IP directly from router, or set a Static IP manually.

Media Port: User can set the Media port to transfer video if need to view Doorbell camera remotely.(Work with DDNS or external IP)

Web Port: User can set the web port to transfer video if need to view Doorbell camera remotely.(Work with DDNS or external IP)

Onvif: User can set Onvif port to work with other Onvif device like NVR..etc;

RTSP Port: Default 554;

DNS server: User can change DNS IP settings.

Network Settings	
Network Type	Dynamic Address
Media Port	38401
Web Port	80
ONVIF Port	36000
RTSP Port	554
DNS Server	192.168.10.1
MAC Address	0a:1b:22:33:4e:5f

4.3.2 Wireless Settings

Click the icon “**Search**” to scan the wireless network in this environment automatically.

Using Wireless Lan: Set Wi-Fi ON/OFF.

SSID: the ID of Wireless network, it should be the same SSID as the connected Wi-Fi router.

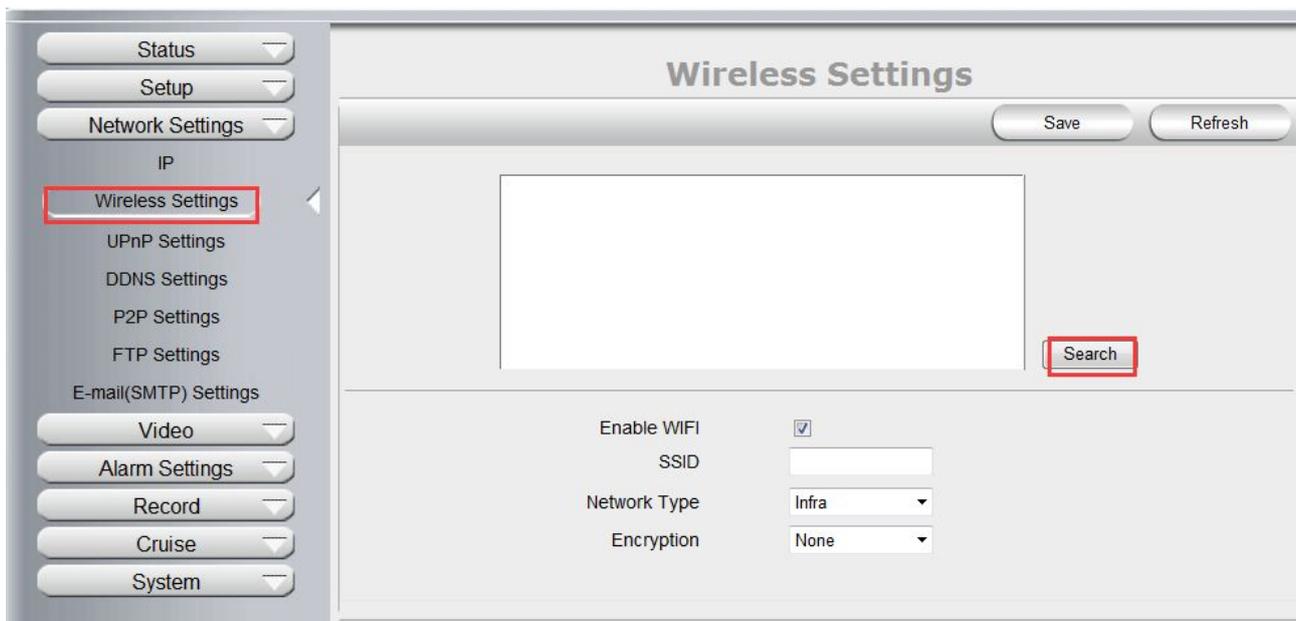
Network Type: Two modes:

1. Static IP, you will need to check with your router about the LAN ip address, then set a ip address manually for the doorbell camera.

2. Dynamic Address Mode. Doorbell camera will auto get an ip from router.

- **Encryption:** WEP, TKIP, AES optional.
- **Authentication:** **WEP:** Open System or Share Key. **TKIP (AES):** WPA-PSK or WPA2-PSK.
- **Select Key:** Choose the channel of WEP share Key.
- **Key:** Input the key the same as the settings in your router.

All the Wi-Fi encryption mode settings should be the same as your Wi-Fi router, and different encryption has different authentication menu.



4.3.3 Upnp Settings

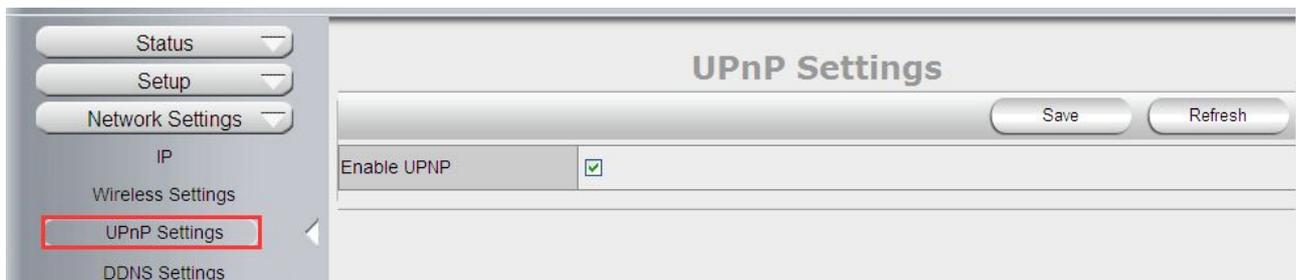
Enable UPNP: Set UPNP function ON/OFF.

Select it to enable UPNP, then the Doorbell camera will do port forwarding automatically.

It's helpful for using DDNS, if your router support UPNP, then you no need do port forwarding in router.

NOTE: Here UPNP only for port forwarding now. It has much relation with security settings of your router, make sure the UPnP function of router is ON.

ATTENTION: If your router doesn't support UPNP function, it may show error information. So we recommend you do port forwarding manually in your router.



4.3.4 DDNS Settings

There are 2 options:

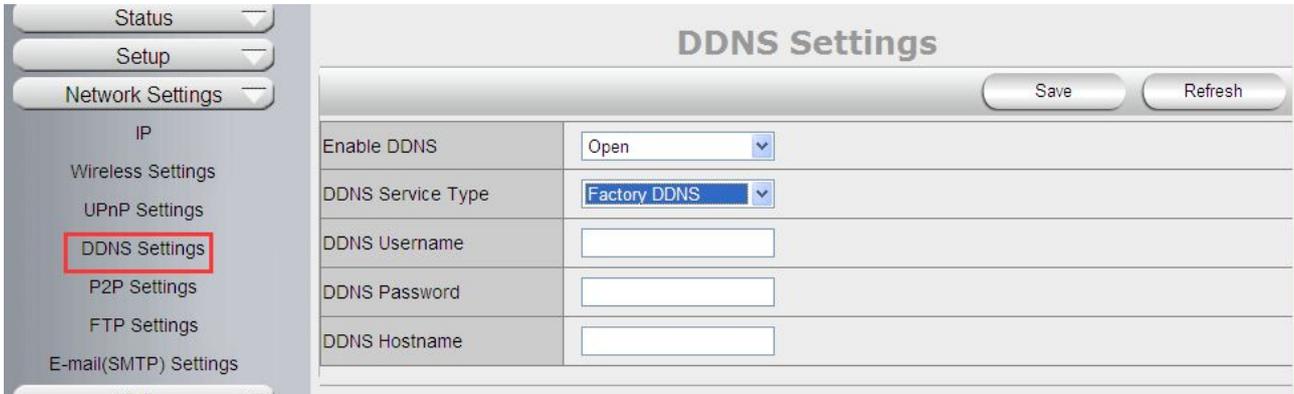
Factory DDNS: This domain is provided by the manufacturer.

Third Party DDNS: This domain is provided by a 3rd party, such as DynDNS, 3322 etc.

- **Enable DDNS:** Set DDNS function ON/OFF.
- **DDNS Server Type:** Set DDNS server type, such as factory DDNS or third party DDNS server provider.
- **DDNS User:** Registered user name from DDNS server. (If you use factory DDNS, it can't be modified.)
- **DDNS Password:** Registered password from DDNS server. (If you use factory DDNS, it can't be modified.)
- **DDNS Host Name:** Domain name set by user. (If you use factory DDNS, it can't be modified.)

For the third party DDNS, you have to register an account first, keep the user, password, host, then input it.

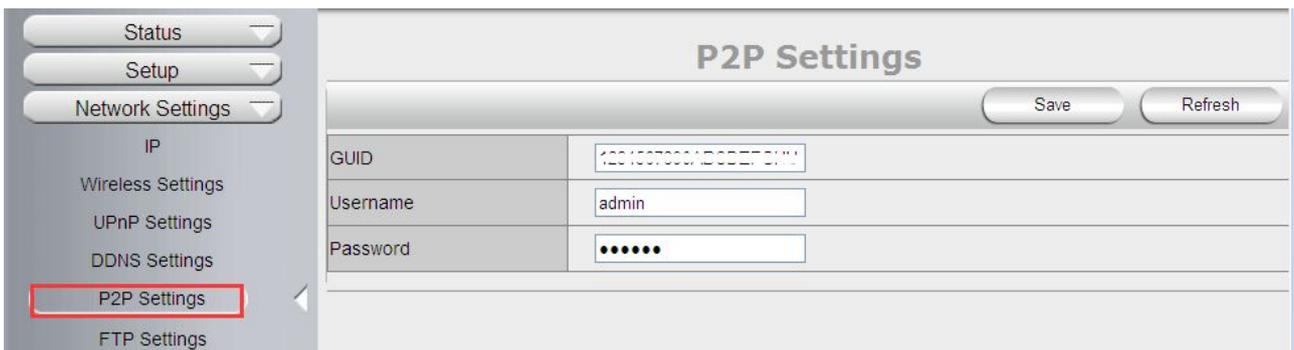
NOTE: Only one DDNS can be chosen, for example, if you use manufacturer's DDNS, the 3rd one won't work, if you use a 3rd DDNS, the manufacturer's one won't work.



4.3.5 P2P Settings

User can see and change P2P GUID here

Factory will provide a factory P2P GUID for free using. Default user: admin; password: sumpple; User can change the password here or change a new P2P GUID here.



4.3.6 FTP Settings

Set FTP service, Snapshots will be delivered to appointed FTP server when alarmed.

Enable FTP: Set FTP function ON/OFF.

FTP Server: Set FTP server address.

FTP Port: Set the port of FTP server, default is 21.

FTP User: Set the user name of FTP server.

FTP Password: Set the password of FTP server.

Upload Folder: Set the path of remote FTP server. Make sure that the folder you plan to store images exists. (The Doorbell camera cannot create the folder itself). Also, the folder must be erasable.

FTP Mode: It supports standard (POST) mode and passive (PASV) mode.

Click save to submit, click test to check the settings.

NOTE: When alarmed, there will be 3 snapshots sent to the FTP server every 1 second

4.3.7 E-mail(SMTP) Settings

Enable Email: Set e-mail function ON/OFF.

Sender: Set sender's name or email address

Sender's email: Set sender's email address.

Receiver: Set receiver's email box. (Supports 3 receivers' emails simultaneously)

SMTP Server: The sender address SMTP server.

SMTP Port: The sender's SMTP Port, usually is 25, some SMTP servers have their own port, e.g., the smtp port for Gmail is 465.

Auth User: Verify the user settings.

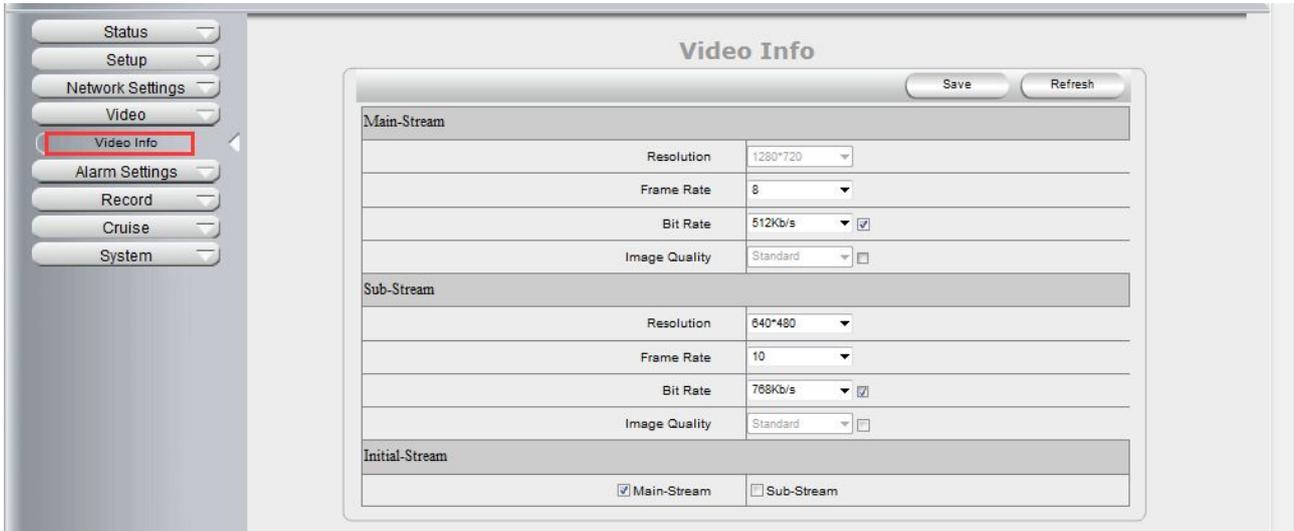
SMTP Username: Set sender's user name or email address.

SMTP password: Set sender's email address password.

Note: User can save the settings first, then click Test button to see if settings working. If not, pls double check your settings or spelling.

4.4 Video Info.

Click “Video Info” to enter the interface as below:



There are two options for stream, **Main-Stream** and **Sub-Stream**, you can set the stream based on the actual operation environment, for example, if the bandwidth is good enough, set Main-Stream as Initial-Stream, or choose Sub-Stream if better.

Set the parameters of **Main-Stream** and **Sub-Stream** as below:

Resolution: 1280 x 720, 640 x 368, 320 x 208 optional.

Frame Rate: Set the frame rate according to the bandwidth. Frame rate could be “Auto” or “from 1 fps to 30 fps (Real time)”. If the network situation is not ideal, you can reduce the frame rate to control the coding rate, make the moving pictures smoother.

Bit Rate: Higher bite rate means better quality images, but takes more bandwidth, so adjust the settings according to the actual bandwidth available. The range of bit rate from 128 Kbps ~ 4 Mbps.

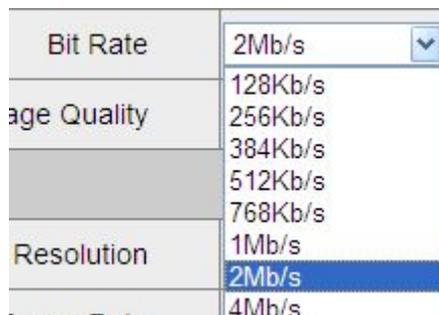


Image Quality: Better image quality, higher bit rate value, but it will take more bandwidth, the image quality parameters could be set as below:

Image Quality	Standard
	Worse
	Soso
	Not bad
Resolution	Medium
	Standard
Frame Rate	Good
	Well
Bit Rate	Pretty good

NOTE: When the device runs, only can select Bit Rate or Image Quality either.

4.5 Alarm Settings

4.5.1 Motion Detection

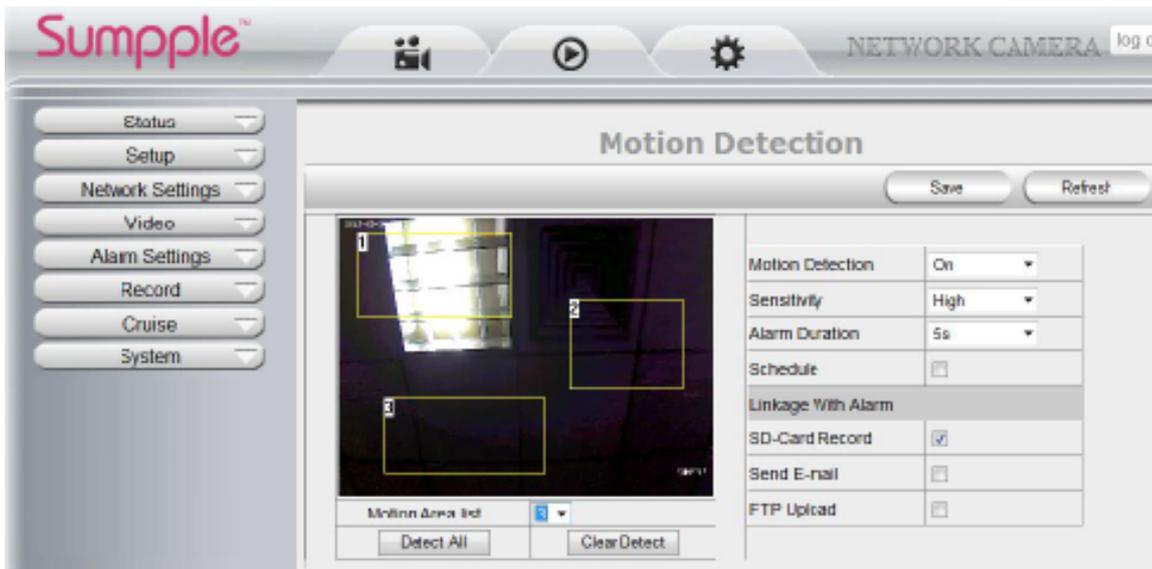
The screenshot shows the Sumpple network camera web interface. The left sidebar contains a navigation menu with the following items: Status, Setup, Network Settings, Video, Alarm Settings, **Motion Detection** (highlighted with a red box), Record, Cruise, and System. The main content area is titled "Motion Detection" and features a "Save" and "Refresh" button. Below the title is a video feed area showing a camera view of a hallway. Underneath the video feed is a "Motion Area List" dropdown set to "1" and two buttons: "Detect All" and "Clear Detect". To the right of the video feed is a settings table:

Motion Detection	On
Sensitivity	High
Alarm Duration	5s
Schedule	<input type="checkbox"/>
Linkage With Alarm	
SD-Card Record	<input type="checkbox"/>
Send E-mail	<input type="checkbox"/>
FTP Upload	<input type="checkbox"/>

Motion Detection Zone Armed:

Can set all zones to be armed, or a specified zone armed.

Before setting a specified zone, you should set "**Motion Detection**" to "**ON**", then press left mouse, drag the mouse onto video area to set the detection zone, and save it, supports 3 areas.



- **Detect All:** Setting the whole video window as the motion detect armed zone.
- **Clear Detect:** Clear all armed zone.
- **Motion Detection:** Set motion detection armed function ON/OFF.
- **Sensitivity:** Set detection sensitivity as Low, Middle, High, Higher, Highest.
- **Alarm Duration:** Set each alarm duration, can be forever, 5s, 10s, 15s, 30s, 60s.

Action with Alarm

These are linkage actions optional for motion detection. User can select the alarm relative alarm convenience to them.

SD-Card Record: Select it to enable record to SD card, unselect to stop.

Send E-mail: Select it to enable E-mail alert function, unselect to stop.

FTP Upload: Select it to enable FTP upload function, unselect to stop. .

Click **Save** to save all the settings.

Click **Refresh** to refresh the settings.

SD-Card Record	<input checked="" type="checkbox"/>
Send E-mail	<input checked="" type="checkbox"/>
FTP Upload	<input checked="" type="checkbox"/>

4.6 Record

4.6.1 Local Settings

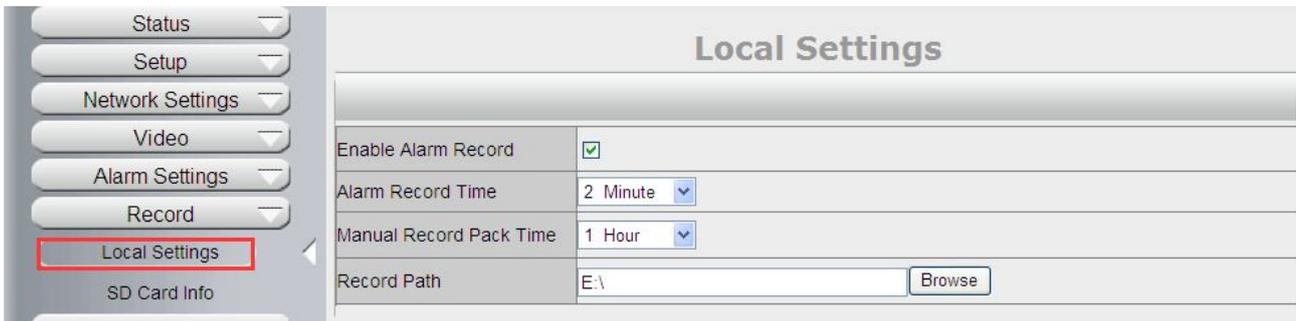
Note: This feature will suitable for IE only, as other browsers not support IE activeX.

Enable Alarm Record: Doorbell camera will record to the path user set when Alarm happens.

Alarm Record time: User can set the record time when Alarm happens. Such as 2 mins.

Manual Record Pack time: User can set the manual record time, such as 2 hours. Once click the “Record” button under the live video screen, Doorbell camera will record as long as user set.

Path: This belongs to the PC path, user can set the PC path to store all records.



Local Settings	
Enable Alarm Record	<input checked="" type="checkbox"/>
Alarm Record Time	2 Minute
Manual Record Pack Time	1 Hour
Record Path	E:\ <input type="button" value="Browse"/>

4.6.2 SD Card info

Device Name: Display the name of SD card.

Total Size: Display the total size of SD card

Balance Space: Display the free space of SD card

Status: Display the state of SD card.

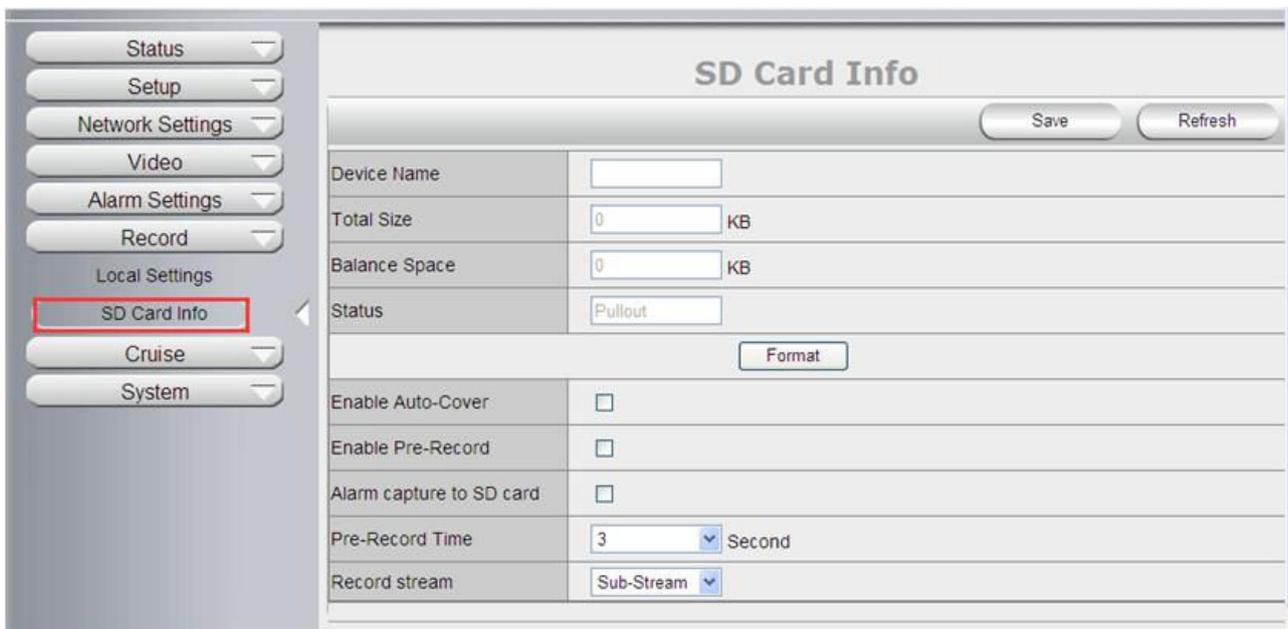
Format: Click it to delete all data and format the SD card. (All data will be lost if formatted).

Open Auto cover: Set SD card auto cover when it's full.

Open Pre-recording: Set Pre-recording function (Record the video before alarm triggered).

Pre-recording Time: Set the Pre-recording time, can be from 1 to 6 seconds.

Record Stream: Choose the stream here:Main Stream and Sub Stream.

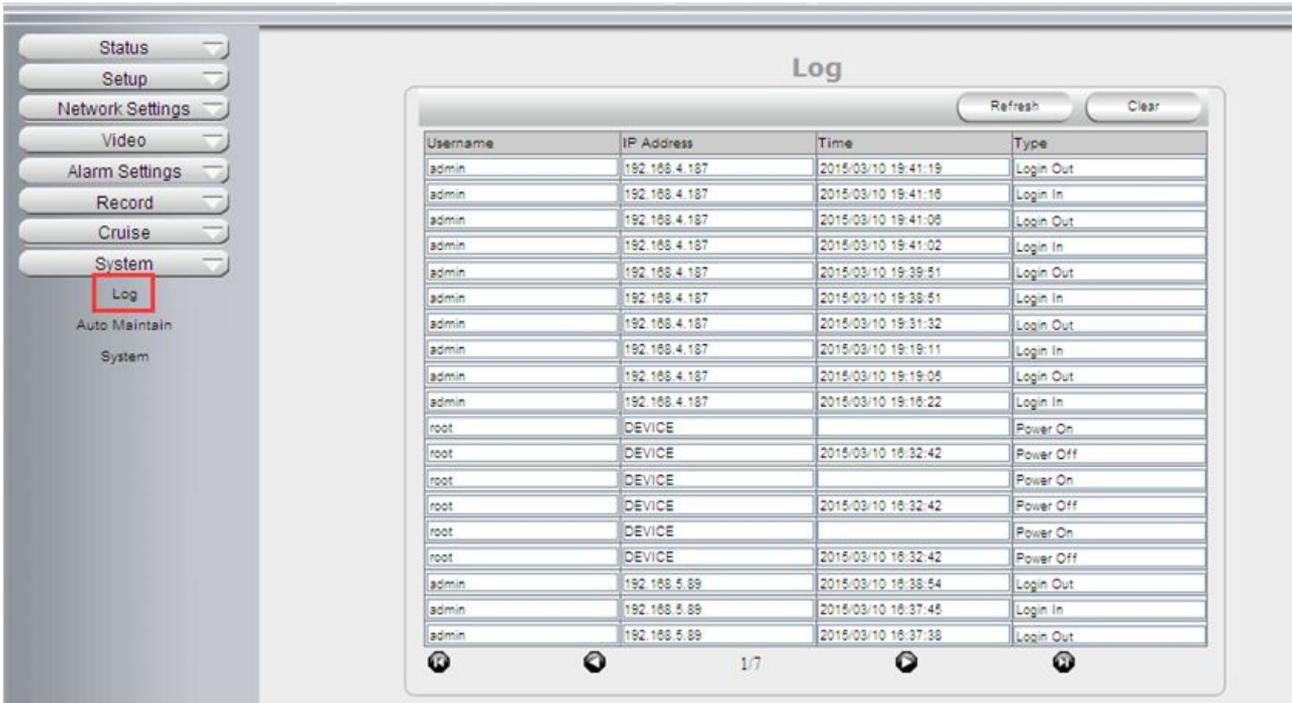


SD Card Info	
Device Name	<input type="text"/>
Total Size	0 KB
Balance Space	0 KB
Status	Pullout
<input type="button" value="Format"/>	
Enable Auto-Cover	<input type="checkbox"/>
Enable Pre-Record	<input type="checkbox"/>
Alarm capture to SD card	<input type="checkbox"/>
Pre-Record Time	3 Second
Record stream	Sub-Stream

4.7 System

4.7.1 Log

Log provides information of Doorbell camera, login, log out, alarm, power on/off..etc;

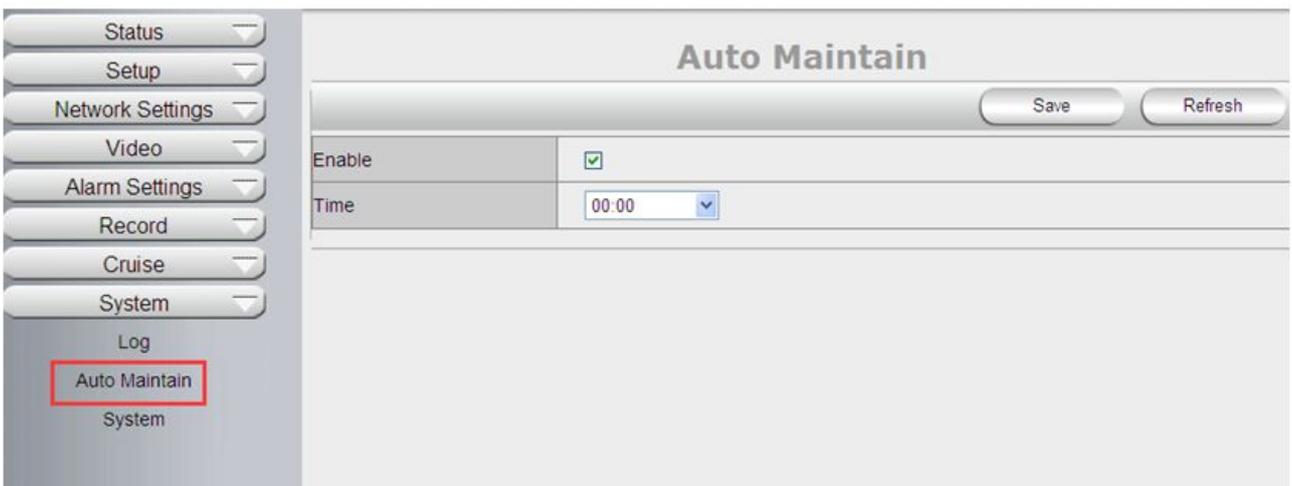


The screenshot shows the 'Log' interface with a table of system events. The table has columns for Username, IP Address, Time, and Type. The 'Log' menu item in the left sidebar is highlighted with a red box.

Username	IP Address	Time	Type
admin	192.168.4.187	2015/03/10 19:41:19	Login Out
admin	192.168.4.187	2015/03/10 19:41:18	Login In
admin	192.168.4.187	2015/03/10 19:41:06	Login Out
admin	192.168.4.187	2015/03/10 19:41:02	Login In
admin	192.168.4.187	2015/03/10 19:38:51	Login Out
admin	192.168.4.187	2015/03/10 19:38:51	Login In
admin	192.168.4.187	2015/03/10 19:31:32	Login Out
admin	192.168.4.187	2015/03/10 19:19:11	Login In
admin	192.168.4.187	2015/03/10 19:19:06	Login Out
admin	192.168.4.187	2015/03/10 19:18:22	Login In
root	DEVICE		Power On
root	DEVICE	2015/03/10 18:32:42	Power Off
root	DEVICE		Power On
root	DEVICE	2015/03/10 18:32:42	Power Off
root	DEVICE		Power On
root	DEVICE	2015/03/10 18:32:42	Power Off
admin	192.168.5.89	2015/03/10 18:38:54	Login Out
admin	192.168.5.89	2015/03/10 18:37:46	Login In
admin	192.168.5.89	2015/03/10 18:37:38	Login Out

4.7.2 Auto Maintain

Auto Maintain provides an auto protection of hardware; Set a time such as 24:00; Then Doorbell camera will auto reboot; and refresh the hardware performance.



The screenshot shows the 'Auto Maintain' interface. The 'Auto Maintain' menu item in the left sidebar is highlighted with a red box. The main area contains a form with 'Enable' checked and 'Time' set to '00:00'. There are 'Save' and 'Refresh' buttons at the top right.

Enable	Time
<input checked="" type="checkbox"/>	00:00

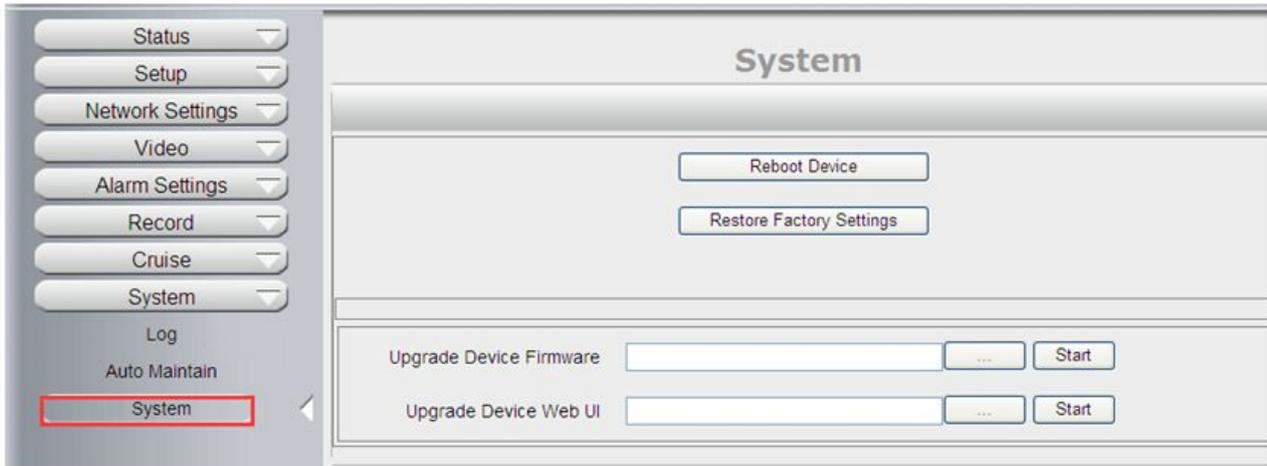
4.7.3 System

Reboot Device: Camera will get reboot.

Restore factory settings: User can restore factory settings once forget password, settings..etc.

Upgrade Device Firmware: To upgrade or degrade the camera firmware.(The firmware needs to store in the same camera you are viewing Doorbell camera.)

Upgrade Device Web ui: To upgrade or degrade the camera web ui. (The firmware needs to store in the same Doorbell camera you are viewing camera.)

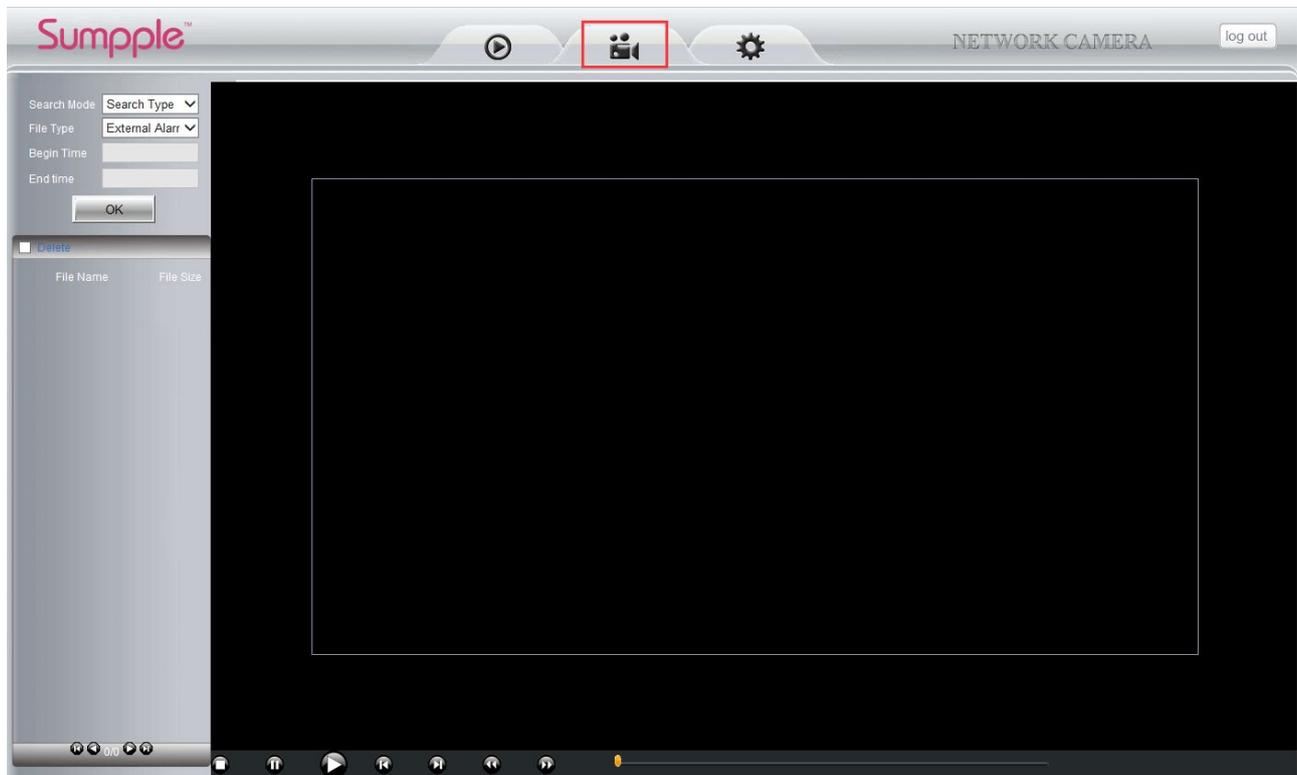


5. PLAYBACK for IE browser only

Note: Playback function shows under IE ActiveX mode only. Other browsers not support this feature.



Click login the playback interface, this is for SD Card files playback. So If User not have SD card in the Doorbell camera or not have any file in SD card, will not work.



Search Mode: User can search the record, snapshot..etc by different methods.

Search Type: External Alarm and Motion detection optional; Select External Alarm; Doorbell camera will search the alarm file from External alarm which comes from other device; Select motion detection, Doorbell camera will search the alarm file from motion detection.

Search All: Doorbell camera will search all file in SD Card.

File type: External Alarm and Motion detectio optional. This option works only work when user select Search Type from Search mode

Begin Time and End Time: This feature work when user select Search Time from Seach mode; Select a begin time, and end time, Doorbell camera will search these files in the time area.

Click "OK" icon, will pop-up a window for search file, set the mode or time, click OK to submit, then all the correlative files will be listed on the left side.

After searching, files will be listed on the left side window, choose the file, double click it or click play icon 

to start replay. Users can check the replay file information here, do other operation such as **Stop, Pause, Previous, Next, Fast Backward, Fast Forward** etc.



6. FREQUENTLY ASKED QUESTIONS

1. I have forgotten the administrator username and/or password

There is a [RST] button on the rear panel, keep the power on, hold the reset button for 30 seconds, it will restore back to factory default settings as below:

Username: admin

Password: sumpple

NOTE: Please don't press **RST** button unless you are sure you want to do it.

2. There is no picture displayed in IE browser (For IE only)

It maybe the ActiveX problem,

If using the IE browser for the first time, you should install the ActiveX control, details as below:

Before login, click the ActiveX icon  at the right side of interface to download, save the file, run it to install the ActiveX.

3. Fail to visit Doorbell camera via IE after upgrading (For IE Only)

Solution: Clear the browser buffer.

Steps: Open IE>click "Tools"> "Internet Options">"General">"Delete"> "Internet temporary files", delete the cookies and temporary files, then click "OK" and re-login.

4. The video is not smooth

Possible reason 1: The frame rate value is too small.

Solution: Increase the frame rate value.

Possible reason 2: Too many users are connecting to the device.

Solution: Close some connection or reduce the video frame rate.

Possible reason 3: Network bandwidth is too low, lots of lost packets.

Solution: Reduce the video frame rate or video compression bit rate.

5. Fail to visit Doorbell camera via IE browser

Possible Reason 1: Network is disconnected.

Solution: Connect your PC to network, check whether the network works well or not. Check if there's a problem with the cable connection, or network problem caused by PC virus.

Possible reason 2: IP Address has been occupied by other devices.

Solution: Stop the connection between Doorbell camera and network; connect the Doorbell camera to PC.

Directly reset IP address according to the proper operations recommended.

Possible reason 3: IP addresses are in different subnets.

Solution: Check IP address, Subnet masking and Gateway.

Possible reason 4: Physical address of network conflicts with the Doorbell camera.

Solution: modify the physical address of Doorbell camera.

Possible Reason 5: Web port has been modified.

Solution: Contact as Network Administrator to obtain related information.

Possible Reason 6: Unknown.

Solution: Press RESET to restore to factory settings then connect it again, the default IP address is 192.168.1.155, subnet mask is 255.255.255.0

6. The color of image is abnormal (Green or other color)

Sometimes the Doorbell camera images cannot be displayed properly because of different graphics cards, the images appears to be green or other colors, then you should run the program "Config.exe" from the downloaded OCT files.

(or run C:\windows\system32\Config.exe) to set the following parameters for the display buffer: auto-detection, used display card memory or system memory, then run IE, connect Doorbell camera again.

7. There is no voice while monitoring

Possible Reason 1: No audio input connection.

Solution: Check audio connection of the host.

Possible Reason 2: the relative audio option of Doorbell camera is OFF.

Solution: Check audio parameter settings to see if you have set the audio option ON, but without external audio input.

8. Image processing doesn't work properly

Possible Reason 1: System problem, DirectX function is disabled, which will cause slow display of images and abnormal color.

Possible Reason 2: Hardware problem, graphics card doesn't support image acceleration and hardware zooming functions. (For hardware issue, the only solution is to change your graphics card).

Solution: Install DirectX image driver, then click "Start">"Run">input "dxdiag", set enable "DirectDraw Acceleration" "Direct3D Acceleration" "AGP Texture Acceleration" functions.

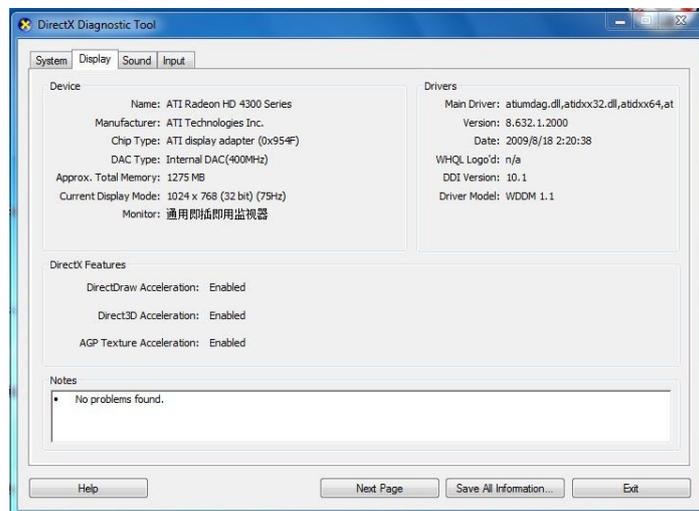


Figure 13.0

Note: If you are unable to do it, it means your DirectX is not installed properly or hardware doesn't support this function.

9. Fail to use DDNS

Possible Reason 1: The PC or Doorbell camera can't connect to the internet.

Solution: Check the internet connection and settings.

Possible Reason 2: Port forward is not set in router.

Solution: Set the port forward of extranet in router correctly.

For example, if Doorbell camera address is: 192.168.1.100, Media port is 38401, Web port is 85, factory DDNS is http://test.aipcam.com.

Set Port Forwarding in the router.

This is an important step. You need to set port forwarding in your router, to refer to the IP of your Doorbell camera correctly, for DDNS to work. There are so many kinds of routers, so it's difficult to show fixed steps, but here are some samples of different router's port forwarding settings, just for reference:

TP-LINK:

1. Login to the router.



2. Choose “**Forwarding**”, select “**Virtual Servers**”

3. Click the Add New button, pop-up below:

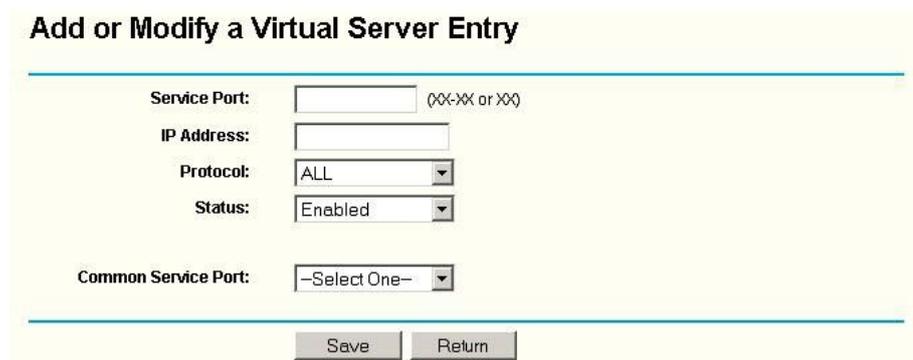
A screenshot of a web form titled 'Add or Modify a Virtual Server Entry'. The form has a light yellow background and a blue border. It contains several input fields and dropdown menus: 'Service Port' (text input with '(XX-XX or XX)' hint), 'IP Address' (text input), 'Protocol' (dropdown menu with 'ALL' selected), 'Status' (dropdown menu with 'Enabled' selected), and 'Common Service Port' (dropdown menu with '-Select One-' selected). At the bottom of the form, there are two buttons: 'Save' and 'Return'.

Figure 13.1

Fill in the service port (**don't use 80**), IP address of the Doorbell camera, then click Save

NOTE: The port and IP address should be the same as the Doorbell camera.

Fill in the **web port**, for example port 85, IP address as 192.168.1.100, click Save.

(1) Repeat step 3 above, it will pop-up the window again, fill in the **media port** as 38401, IP address as 192.168.1.100, then save.

(2) Then check the “Device Info” –“DDNS Status”,

It will show DDNS: <http://test.aipcam.com:85> , input this link in IE, then you can visit this Doorbell camera remotely.

BELKIN:

1. Login to the router.
2. Choose “**Firewall**”, select “**Virtual Servers**”
3. Input the port (**don't use 80**) and IP address, then click save.

NOTE: The port and IP address should be the same as the Doorbell camera.

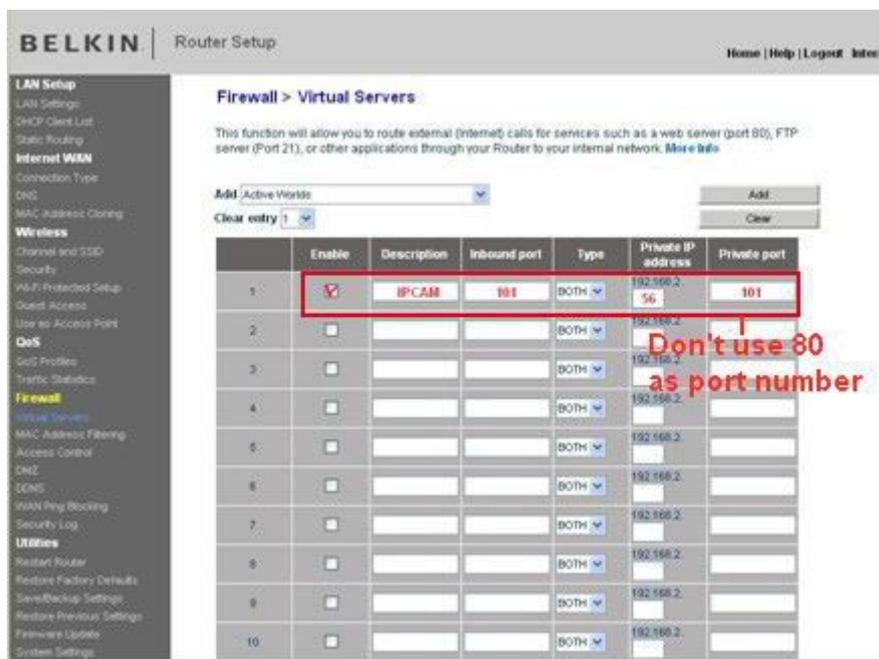


Figure 13.2

DLINK:

1. Login to the router.
2. Choose “**Advanced**”, select “**Virtual Servers**”
3. Input the port, IP address, Protocol, then click save.

NOTE: The “**public port**” & “**private port**” should be the same as Doorbell camera’s port, choose the protocol to be “**both**”.

D-Link

DIR-601 //

SETUP **ADVANCED** TOOLS STATUS SUPPORT

VIRTUAL SERVER

The Virtual Server option allows you to define a single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers.

Save Settings Don't Save Settings

24 -- VIRTUAL SERVERS LIST

		Port	Traffic Type	
<input type="checkbox"/>	Name rivomaxcam << HTTP	Public Port 81	Protocol Both	Schedule Always
<input type="checkbox"/>	IP Address 192.168.0.107 << Computer Name	Private Port 81	256	Inbound Filter Allow All
<input type="checkbox"/>	Name << Application Name	Public Port 0	Protocol TCP	Schedule Always
<input type="checkbox"/>	IP Address 0.0.0.0 << Computer Name	Private Port 0	6	Inbound Filter Allow All
<input type="checkbox"/>	Name << Application Name	Public Port 0	Protocol TCP	Schedule Always
<input type="checkbox"/>		Private Port		Inbound Filter

Helpful Hints...

Check the **Application Name** drop down menu for a list of predefined server types. If you select one of the predefined server types, click the arrow button next to the drop down menu to fill out the corresponding field.

You can select a computer from the list of DHCP clients in the **Computer Name** drop down menu, or you can manually enter the IP address of the LAN computer to which you would like to open the specified port.

Select a schedule for when the virtual server will be enabled. If you do not see the schedule you need in

Figure 13.3

7. SPECIFICATIONS

Image Sensor	Image Sensor	1/4" Color CMOS Sensor
	Display Resolution	1280 x 720 Pixels (1000K Pixels, i.e. 1 Megapixel)
	Lens	3.6mm
	Mini. Illumination	0.5 Lux
	Viewing Angle	60-90 Degree
Audio	Input	Built-in Microphone
	Output	Built-in Speaker
	Audio Compression	ADPCM
Video	Image Compression	H.264, MJPEG
	Image Frame Rate	30fps (VGA), 10fps (QVGA)
	Resolution	1280 x 720 (VGA), 640 x 480 (QVGA)
	Flip Mirror Images	Vertical / Horizontal
	Light Frequency	50Hz, 60Hz, Outdoor
	Video Parameters	Brightness, Saturation, Contrast, Hue
Communication	Ethernet Interface	Build in 10/100Mbps, Auto MDI/MDIX , RJ-45
	Supported Protocol	TCP/IP HTTP DNS DHCP PPPoE SMTP FTP SSL TFTP NTP ARP/RARP NFS RTSP RTP RTCP
	Compress rate level	128Kbps ~ 4Mbps
	Wireless Standard	IEEE 802.11b/g/n
	Data Rate	802.11b: 11Mbps (max.), 802.11g: 54Mbps (max.), 802.11n: 150Mbps (max.)
	Wireless Security	WEP & WPA WPA2 Encryption
Physical	Infrared Light	IR LEDs, Night visibility up to 10 meters
	Power Supply	DC 5V/2.0A (EU, US, AU adapter or other types optional)
Power	Power Consumption	7 Watts (Max.)
	Operate Temper.	0° ~ 55°C (14°F ~ 131°F)
Environment	Operating Humidity	20% ~ 85% non-condensing
	Storage Temper.	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
	CPU	2.0GHZ or above (suggested 3.0GHZ)
PC System Requirements	Memory Size	256MB or above (suggested 1.0GHZ)
	Display Card	64M or above
	Supported OS	Microsoft Windows 2000/XP/Vista/7
	Browser	IE6.0/7.0/8.0/Firefox/Safari/Google chrome or other standard browsers
	CE, FCC, RoHS	
Certification		

8. OBTAINING TECHNICAL SUPPORT

We hope your experience with your IP network Doorbell camera is enjoyable, but if you experience any issues or have any questions that this User's Guide has not answered, please email us.

If your Doorbell camera does not support some special functions shown in this manual, please contact our technical support team to obtain the latest Firmware and WEB UI file for upgrading.

Statement: If you found any bug of software, pls kindly not discuss in the public place or website, contact us by email or phone, we will give you a quick shot.

FCC Caution

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

This equipment generates and uses radio frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, it may cause interference to radio and television reception. It has been type tested and found to comply with the limits for remote control devices in accordance with the specifications in Sub-Parts B and C of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by unplugging the equipment, try to correct the interference by one or more of the following measures.

- Reorient the antenna of the radio/TV experiencing the interference.
- Relocate the equipment with respect to the radio/TV.
- Move the equipment away from the radio/TV.
- Plug the equipment into an outlet on a different electrical circuit from the radio/TV experiencing the interference.
- If necessary, consult your local dealer for additional suggestions.

NOTE: Modifications to this product will void the user's authority to operate this equipment.