



According to the European WEEE directive, electrical and electronic equipment must not be disposed with consumers waste. Its components must be recycled or disposed apart from each other. Otherwise

contaminative and hazardous substances can pollute our environment.

You as a consumer are committed by law to dispose electrical and electronic devices to the producer, the dealer, or public collecting points at the end of the devices lifetime for free. Particulars are regulated in national right. The symbol on the product, in the user's manual, or at the packaging alludes to these terms. With this kind of waste separation, application, and waste disposal of used devices you achieve an important share to environmental protection.

Safety Instruction

In order to keep the safety of users and your properties, please follow the following safety instructions:

1. This wireless repeater is designed for indoor use only. DO NOT expose this device to direct sun light, rain, or snow.
2. DO NOT put this at or near hot or humid places, like kitchen or bathroom. Also, do not left this Wireless repeater in the car in summer.
3. Do not allow kids to put any small parts of this wireless repeater in their mouth, and it could cause serious injury or could be fatal. If they throw this wireless repeater, it will be damaged. PLEASE KEEP THIS WIRELESS REPEATER OUT THE REACH OF CHILDREN!
4. This Wireless repeater will become hot when being used for long time (***This is normal and is not a malfunction***). DO NOT put the Wireless repeater on a paper, cloth, or other flammable objects after the Wireless repeater has been used for a long time.
5. There's no user-serviceable part inside the Wireless repeater. If you found that the Wireless repeater is not working properly, please contact your dealer of purchase and ask for help. DO NOT disassemble the Wireless repeater by yourself, warranty will be void.
6. If the Wireless repeater falls into water, DO NOT USE IT AGAIN BEFORE YOU SEND THE CARD TO THE DEALER OF PURCHASE FOR INSPECTION.

- CONTENTS -

Declaration	錯誤! 尚未定義書籤。
Chapter I Introduction	3
1.1 Highlights of your new Pan/Tilt IP Camera	3
1.2 Safety Instructions	4
1.3 Packaging Contents.....	5
1.4 Familiar with your new Network Pan/Tilt IP Camera.....	6
1.5 Installation of IP Camera	8
Chapter II Using Network Pan/Tilt IP Camera by Web Interface.....	14
2.1 IPFinder.....	14
2.2 Connect to IP Camera's Web User Interface and Install ActiveX Plugin	16
2.3 Viewing Live Video	20
2.4 Client Settings.....	23
Chapter III Advanced Configuration.....	25
3-1 System	26
3-2 Security.....	28
3-3 Network.....	30
3-3-1 "General" Setup Page	30
3-3-2 "Advanced" Setup Page	32
3-3-3 Wireless.....	34
3-4 IP Filter.....	38
3-5 Video	40
3-5-1 Image Setting	40
3-5-2 Video Setting	41
3-5-3 Overlay Setting.....	43
3-6 Audio.....	45

3-7 Motion	46
3-8 PTZ Control	48
3-9 Event	51
3-9-1 Settings	52
3-9-2 Media.....	54
3-9-3 Event Server.....	55
3-10 Recording to SD Card	59
3-11 Log	60
3-12 Device Info.....	61
3-13 Maintenance	62
3-14 Language.....	63
Chapter IV Troubleshooting.....	64

Chapter I Introduction

1.1 Highlights of your new Pan/Tilt IP Camera

Congratulates on purchasing this high-resolution 3Mega pixels Pan/Tilt (Wireless) IP Camera! This IP Camera provides 3Mega pixels high-resolution video quality, with the advanced megapixel lens, you can view images remotely in more detail than conventional close-circuit cameras.

Other highlights of this Pan/Tilt IP Camera include:

- Ultra-high resolution 5Mega pixel CMOS image sensor.
- Full Pan / Tilt Control.
- Digital input / output interface for peripherals connection such as external alarm, sensor, etc.
- Audio input / output interface, support full duplex communication in both directions.
- Built-in SD-card slot for local storage, which can act like a stand-alone DVR.
- Two Way audio.
- 3GPP Mobile Surveillance Supported.
- ONVIF Compliant.
- Support IEEE802.11b/g/n(WC0009).
- Equipped with one 3dBi detachable antenna(WC0009).
- Support WEP / WPA-PSK / WPS2-PSK for wireless security(WC0009).
- Support motion detection in three independent windows(WC0009).

1.2 Safety Instructions

Please follow the safety instructions listed below when you're using this Pan/Tilt IP Camera, or you would harm this camera and / or yourself! Also, the warranty will become void if you disobey these safety instructions.

- This Network IP Camera is sophisticated electronic device; do not drop it from high places.
- Do not place this IP Camera at hot / humid places, and avoid direct sunlight.
- This IP Camera is not a toy; keep it out from the reach of children.
- Do not insert any accessories of this IP Camera into your body.
- Make sure lens set is secured when you're using this IP Camera, lens set may fall down if it's not properly secured, and cause damage to human and itself.
- If you want to use this IP Camera at any place that may be spilled by water or dirt, the secure and water-proof camera housing is required.
- Do not pull any cord that is connected to this IP Camera by force.
- IP Camera will become hot after long time of use. Refrain from touch IP Camera with hand, or cover this IP Camera with paper or cloth.
- Never connect powered cable to IP Camera's DI/DO contacts.
- If the IP Camera falls into water when powered, do not attempt to retrieve it back by yourself! Find a qualified electric technician for help.

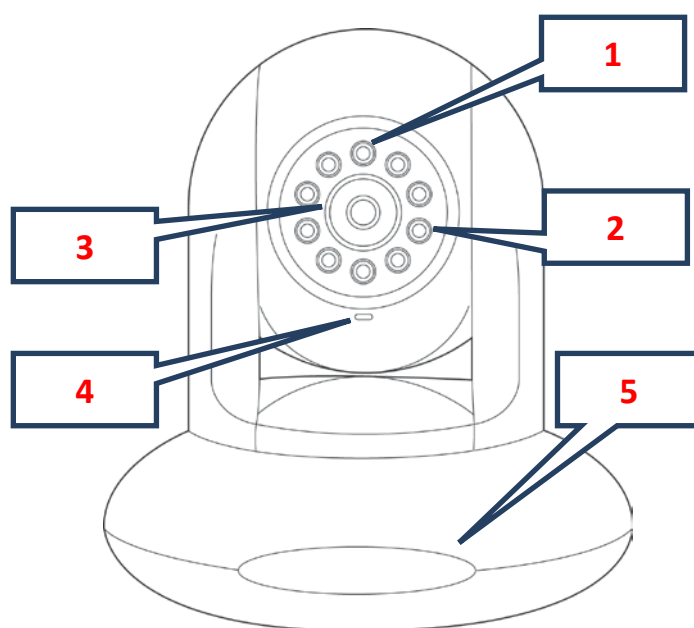
1.3 Packaging Contents

Please check the contents of your new Network Pan/Tilt IP Camera when you unpack the package. If any item is missing, please contact your dealer of purchase for help.

Item No.	Description	Quantity
1	WC0008	1
2	DC power adapter	1
3	Wall mounting Kit	1
4	CD(User Manual)	1
5	Quick installation guide	1

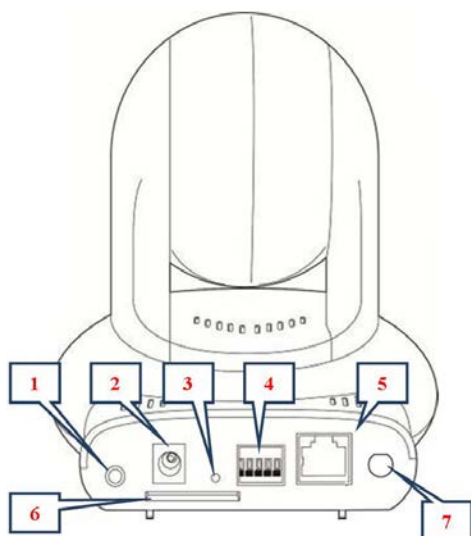
Item No.	Description	Quantity
1	WC0009	1
2	DC power adapter	1
3	3dBi detachable antenna	1
4	Wall mounting Kit	1
5	CD(User Manual)	1
6	Quick installation guide	1

1.4 Familiar with your new Network Pan/Tilt IP Camera



Item	Description
1 - IR sensor	Detects light level of the place where this IP camera install.
2 - IR LEDs	Lights up when it's too dark
3 - Focus LENS	If the image looks fuzzy, try to turn this focus ring clockwise or counter-clockwise to adjust focus until the image looks clear
4 - Microphone	Receives voice
5 - LED indicators	<p>There are 3 LED lights inside to indicate the operation of this IP camera:</p> <p>Left: Network activity LED On: Transferring data Off: Without connect network Flash:</p> <p>Right: Power LED On: IP camera is switched on Off: IP camera is switched off</p> <p>Please note: These LEDs can be switched off regardless the operation status of IP camera in IP camera's configuration menu. This will be helpful if you don't want other people to know the operation status of this IP camera.</p>

[Back]



DI/DO PIN ASSIGNMENT

Item	Description
GND	Signal ground
DO	Digital Output #1
DI1	Digital Input #1
DI2	Digital Input #2

To insert or release a wire, press the button of the PIN you wish to insert or release.

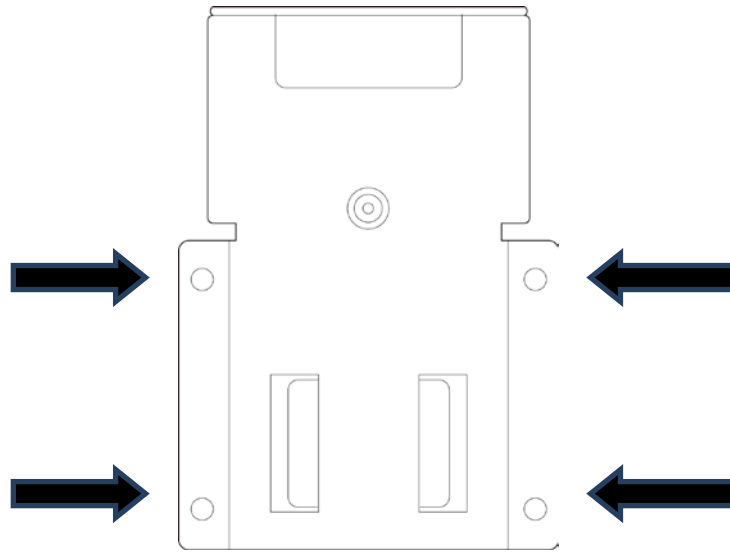
Item	Description
1 - Audio output	Connects to external audio amplifier to output voice. Use 3.5mm audio cable.
2 - DC12V	Connect to DC power adapter output
3 –WPS / RESET	RESET: When the IP camera is not functioning properly, you can use a pen or similar object to press this reset button to reset the IP camera. You can also press and hold this button for more than 5 seconds to clear all settings of IP camera, include administrator password. WPS (For WC0009 only): When you want to connect Wi-Fi AP easy. Please both press and hold this button and AP's WPS button more than 1 second. The IP camera will connect AP and set value during 5 ~10 seconds.
4 - DI/DO connectors	Digital input / output dry contacts. Connects to external peripherals by wire. See next page for pin definitions. WARNING: DO NOT CONNECT POWERED CABLE!
5 – ETHERNET	Connect to your local area network by Ethernet cable. Getting power from this Ethernet port if this device connects to PoE switch
6 - SD card slot	Inserts SD card for video recording. Maximum 32GB** of SDHD card supported.
7 – Connector for detachable antenna(WC0009)	Connect the detachable antenna when wireless connection is required.

1.5 Installation of IP Camera

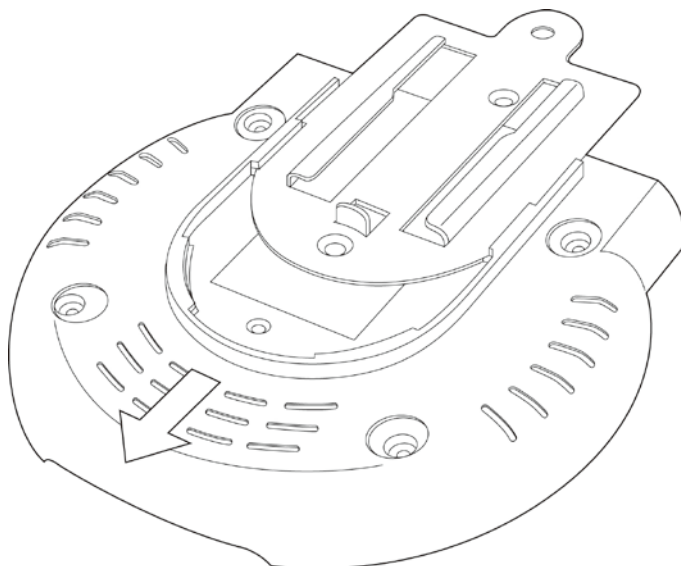
Please follow the following instructions to setup your new IP camera.

Please note: If you wish to place this IP camera on the table, please skip step 1 to 5.

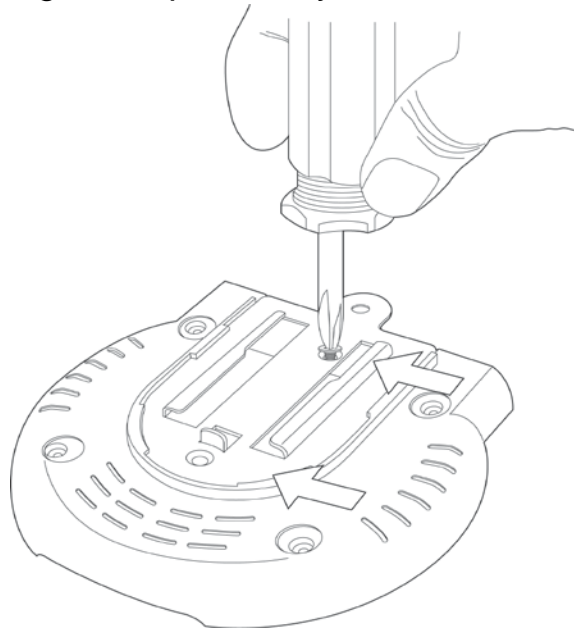
1. Secure the wall mounting metal plate A on the wall, secure it by 4 screws at the screw holes indicated by black arrows. You can secure it upside-down when required.



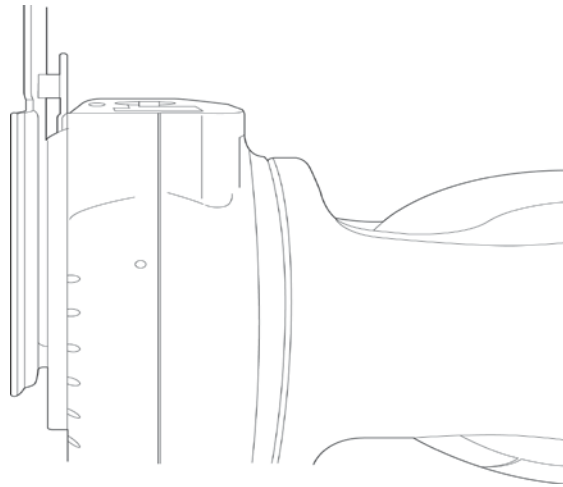
2. Insert wall mounting metal plate B into the slot at the bottom of this IP camera by the direction indicated by black arrow.



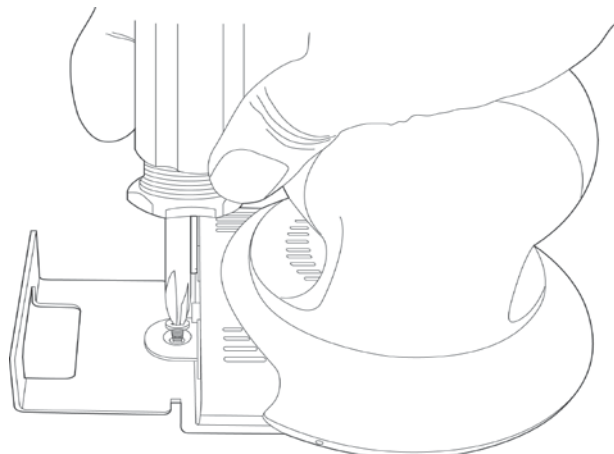
3. Secure wall mounting metal plate B by 2 screws.



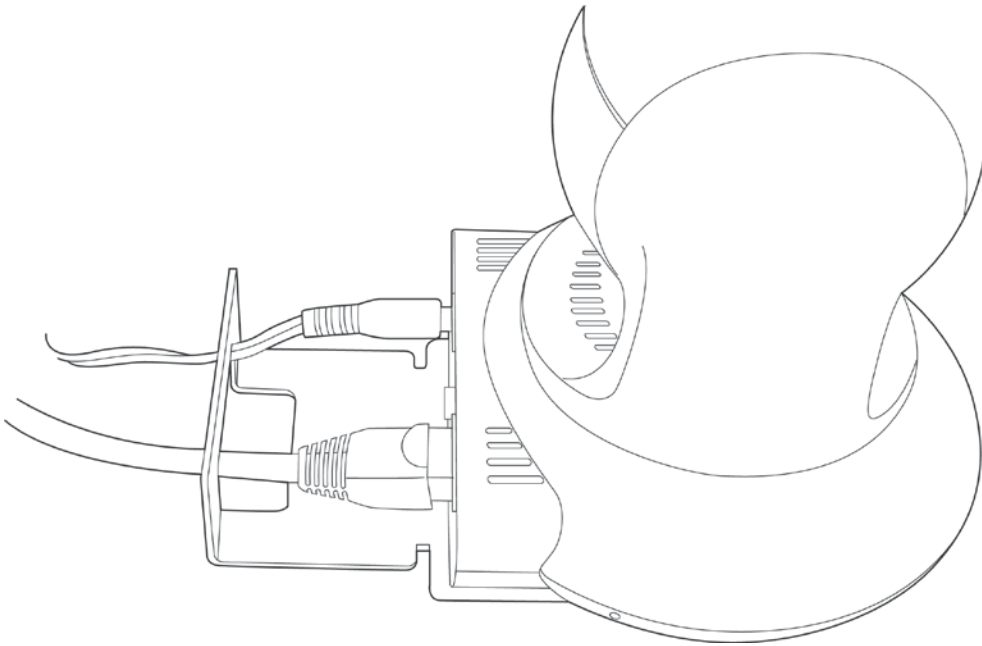
4. Insert the IP camera (with wall mounting metal plate B installed) into wall mounting metal plate A, which is already secured on the wall.



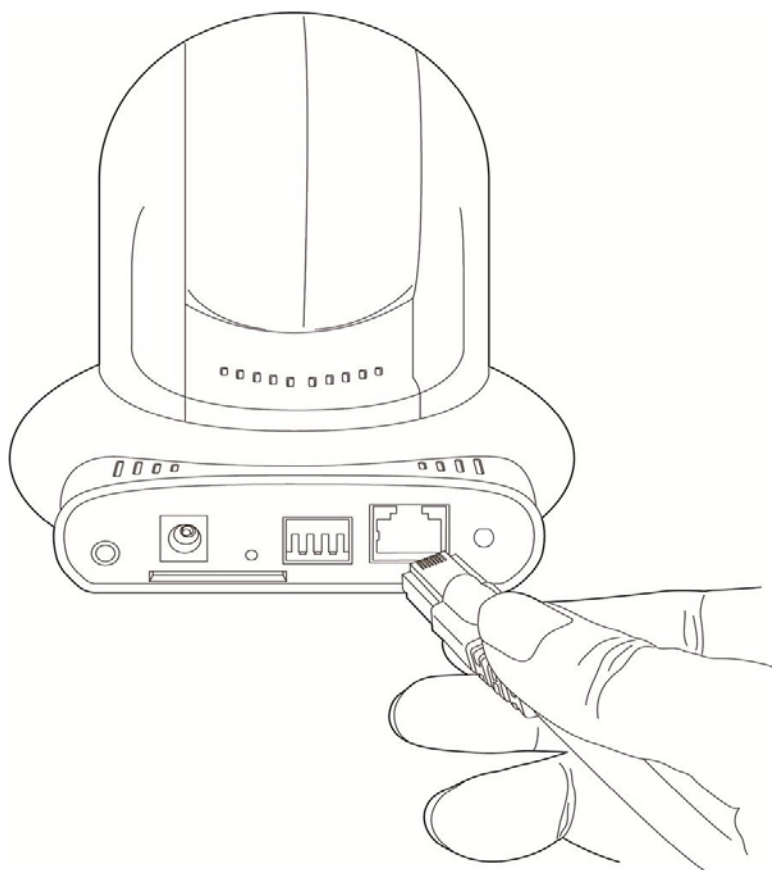
5. Secure the IP camera on the wall by securing wall mounting metal plate A and B together by screw at the place indicated by black arrow.



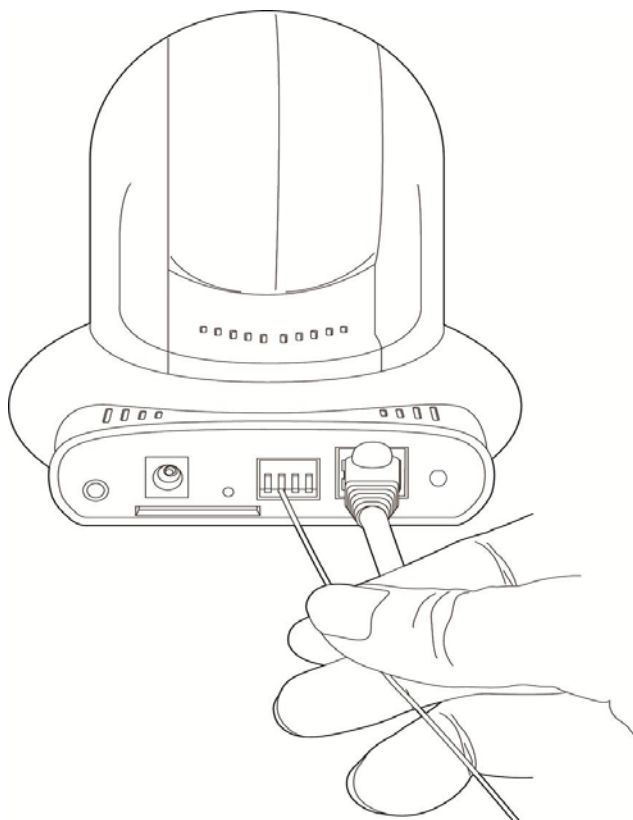
6. When mounted on the wall, cables can pass through wall mounting metal plate A as indicated by the picture below.



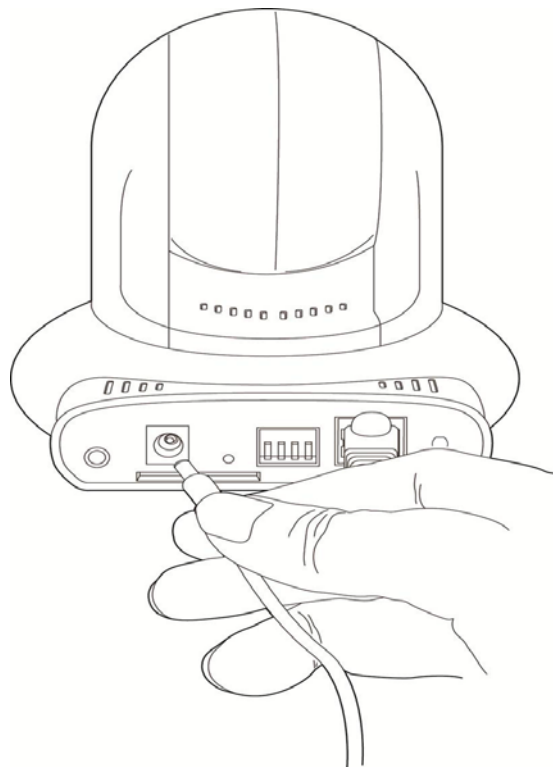
7. Insert Ethernet cable to the Ethernet port of this IP camera for Ethernet connection.



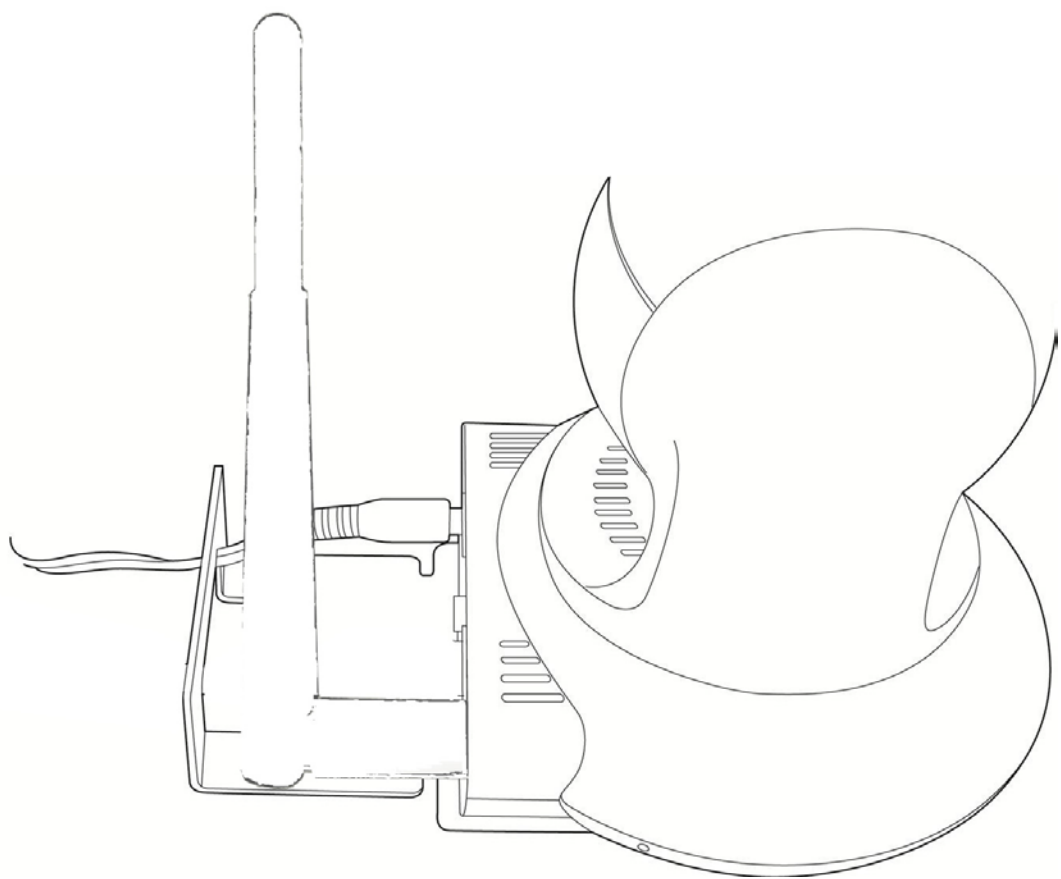
8. Insert DI/DO signal cable(s) into DI/DO port of this IP camera. If you don't have DI/DO accessories, you can skip this step.



9. Insert AC power adapter's cable into DC12V port of this IP camera.



10. The LED lights should light up after few seconds, and the IP camera will test its Pan/Tilt motor within 1 minute (Do not disturb IP camera at this stage). Please refer to following chapters for detailed operating instructions.
11. If it needs to set up wireless connection, please attach the wireless antenna to the IP camera and configure through wired connection. Remove the network cable after finish all relative wireless configuration then user can access the camera through wireless connection. Please refer to the section 3.3.3 for detail configuration.



2.1 IPFinder

You must know the IP address of IP Camera before you can connect to it. The IP Camera will use DHCP server on your local network to obtain an IP address automatically by default. So, you can check your DHCP server's IP address lease table to find the IP address of IP Camera.

[illegible]

If you need to change a certain IP Camera's IP address, you can also click on

the IP Camera you wish to change IP address, then click 'Change IP' button to change select IP Camera's IP address setting.

If you no longer need to use this utility, click 'Exit' button to close it.

Please note:

If you have several network connections, such as “Wireless Function”, please disable the “Wireless Functions” or / and other network connections that is not connected to IP camera, or IP finder may fail to search IP camera!

2.2 Connect to IP Camera's Web User Interface and Install ActiveX Plugin

When you know the IP address of IP Camera, you can connect to it by Internet Explorer web browser by entering its IP address in address bar. The use login screen will appear when you get connected:



The IP Camera's administrator username and password are both 'admin' (lower case) by default. Click 'OK' button or press 'ENTER' key on your keyboard when you finish entering username and password.

When you connect to IP Camera for the first time, you'll see the following message:

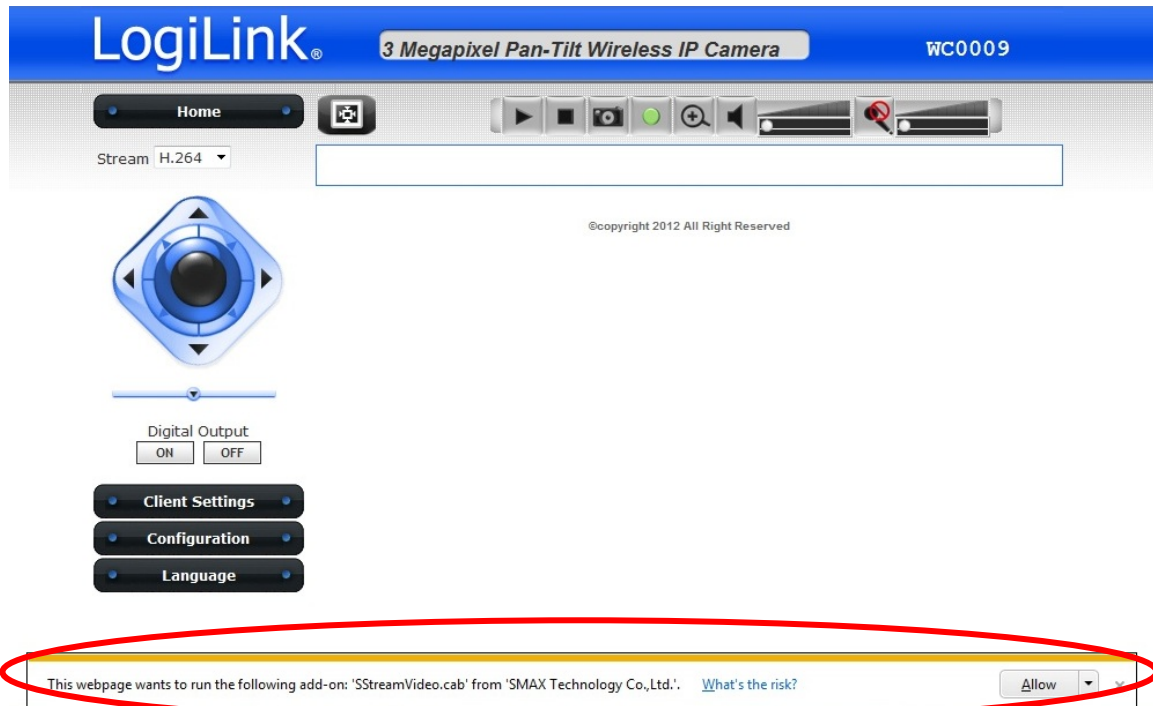
This message prompts you that you need to install ActiveX plugin before you can see the video from IP Camera.

For IE 8 and earlier version:



*Right click the indication bar and click:
“Install This Add-on for All Users on This Computer...”
to install ActiveX plugin.*

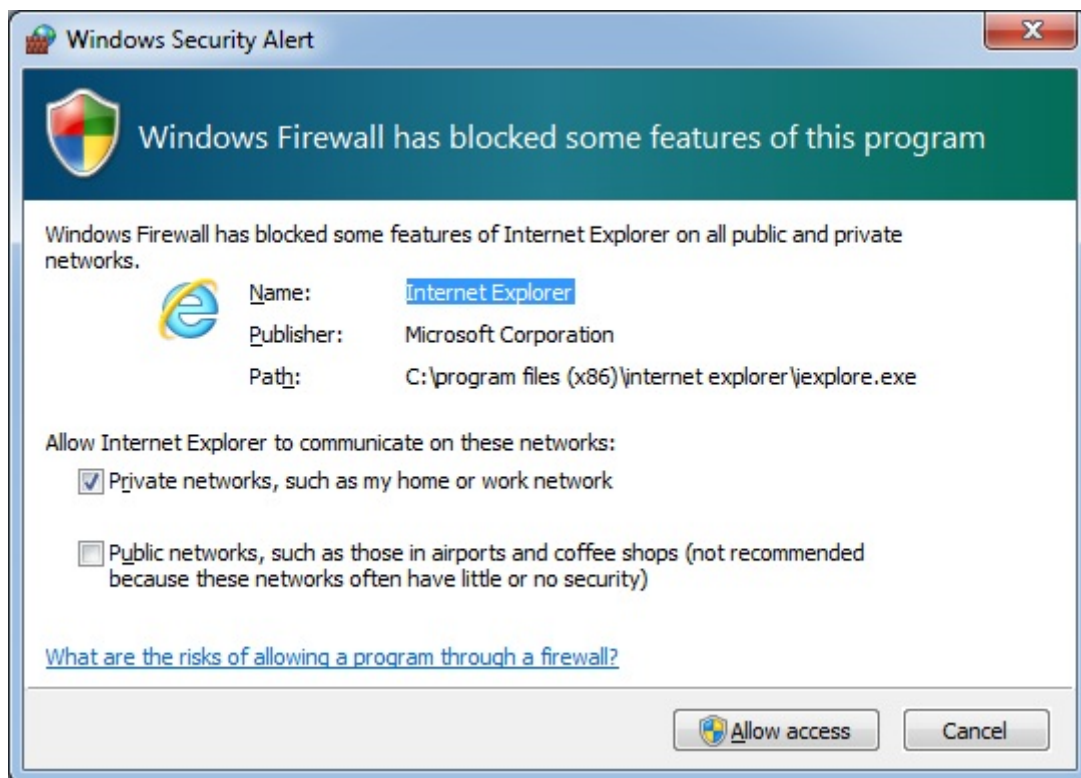
For IE 9:



Click ‘Install’ button located at the bottom of IE to install ActiveX plugin.

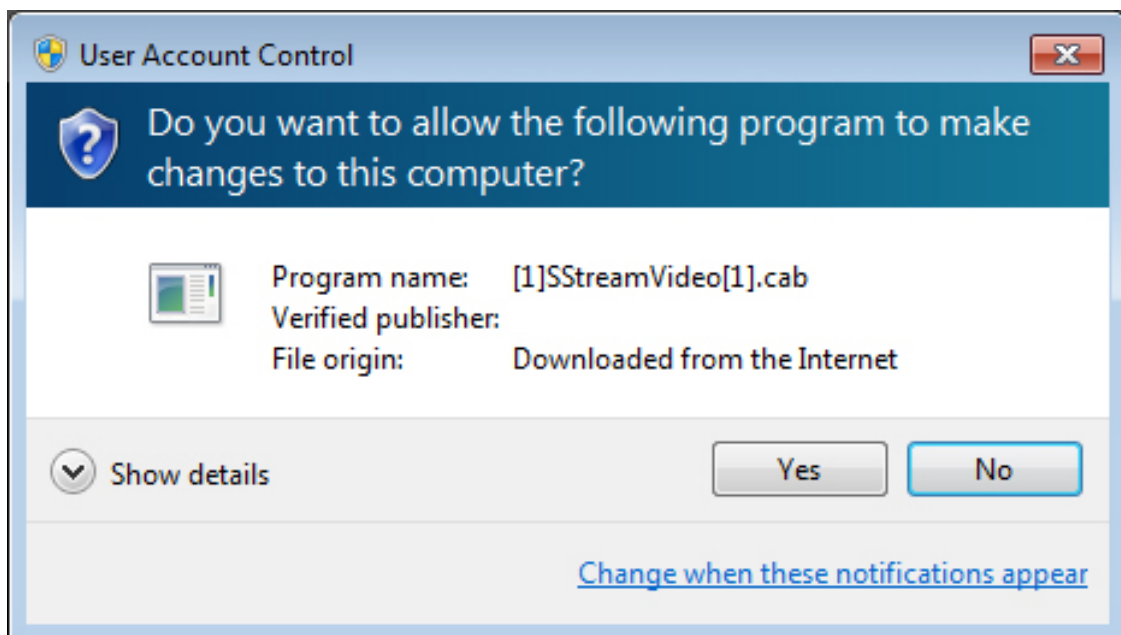
If you're prompted that:

'Windows Firewall has blocked some features of this program'



Click 'Allow access', or IP Camera will not be able to function properly.

When you're installing Internet Explorer plugin, you may also be prompted that if you want to allow changes to be made to your computer:



Click 'Yes' to allow changes.

After ActiveX plugin is installed, you should be able to see the video stream from camera.



NOTE:

If this is the first time you use this IP Camera, you can jump to chapter 2.4 for instructions on *Setup Wizard*, which will guide you to complete the software setup of your new IP Camera.




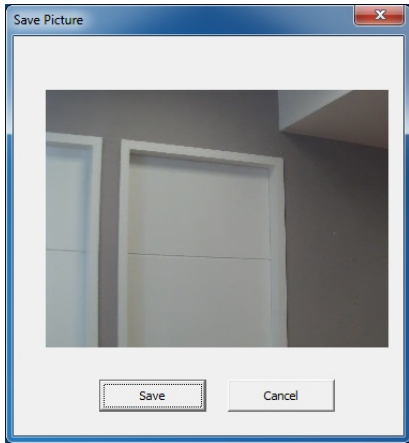


2.3 Viewing Live Video








After ActiveX control is installed, you can view IP camera's video by web browser. Just connect to IP camera by web browser and login, then you can see live video from IP camera:



There are various controls on web page, here are descriptions of every control item:

Item	Description
'Home' button	This button is visible in all setup pages of IP camera, and you can go back to live video view by clicking this button when you're in other page.
Stream	Select video stream type: H.264 or MJPEG. H.264 required less network bandwidth and this will help when network connection is slow.
Digital Output (ON / OFF)	Switch digital output interface on or off.
Client Settings	Open 'Client Setting' menu.
Configuration	Open 'Configuration' menu.
Language	Open language menu, you can switch web interface to other language. Available languages: English, Simplified Chinese, Traditional Chinese, German
Original size / Fit screen	Switches live image view between original size (full size: 3M pixels) and fit screen (smaller size). If you want to see video in detail, switch to original size.

	<p>If your computer monitor's resolution is not enough and you want to see full image view, switch to fit screen and image size will adjust automatically.</p>
<p>'Connect' button</p> 	<p>Start live video view.</p>
<p>'Disconnect' button</p> 	<p>Stop live video view.</p>
<p>'Snapshot' button</p>	<p>Take a snapshot or camera video and save image file on your computer. When you click this button, a new window will appear:</p> <div data-bbox="759 795 1169 1236" data-label="Image">  </div> <p>Click 'Save' button when you see the image you wish to save, and you'll be prompted to indicate the folder on your computer to save image file. If you changed your mind and don't want to save image file, click 'Cancel'.</p>
<p>'Start Record' button</p> <p>Video</p> 	<p>Click this button to record video and save video file on your computer. You'll be prompted to indicate the folder on your computer to save video file.</p>
<p>'Enable Digital Zoom' button</p> 	<p>This function will enlarge video view digitally from 1X to 10X, so you can see objects in video in detail.</p> <p><i>Please note: that digital zoom uses computer algorithm to enlarge the video and some details may lost. If you need to focus on detail of specific objects in video view,</i></p>

	<i>please use optical zoom ring on lens set of IP camera.</i>
<p>Enable / Disable mute button</p>  / 	<p>When mute is enabled () , you will not hear the voice from IP camera; If you want to hear voice from IP camera, click this button to disable mute () .</p> <p>You can drag the slide bar () beside enable/disable mute button to adjust audio playback volume.</p>
<p>Start / Stop talk Button</p>  / 	<p>Start or stop playing your voice through IP camera's audio output. When talk is stopped, people at IP camera will not hear you.</p> <p>Please note: you need a microphone connected to your computer, and computer's mixer setting must enable microphone recording, or nothing will be outputted by IP camera.</p>

2.4 Client Settings

In 'Client Settings' menu, you configure basic IP camera settings like data transfer protocol and data storage folder.

To access 'Client Settings' menu, click 'Client Settings' button on the left.



The following screen will appear:

The image shows the 'Client Settings' configuration page. It has a title bar with the LogiLink logo and 'Client Settings'. The main content area is divided into two sections: 'Protocol Option' and 'Storage Option'. In the 'Protocol Option' section, there are two radio buttons: 'RTSP' and 'HTTP', with 'HTTP' selected. In the 'Storage Option' section, there is a 'Folder' text box containing 'C:\Recording' and a 'Browse' button. Below it is a 'Prefix' text box containing 'CLIP'. At the bottom of this section is a checkbox labeled 'Add date and time suffix to file name', which is currently unchecked. At the bottom left of the entire form is an 'Apply' button.

Here are the descriptions of every setup item:

Item	Description
RTSP	Select this option to use RTSP (Real-Time Streaming Protocol) to transfer video data.
HTTP	Select this option to use HTTP (Hyper-Text Transfer Protocol) to transfer video data. If you don't know which one you should use, select 'RTSP'.
Folder	Select a folder on your computer to save recorded video. Click 'Browse' button and you'll be prompted to select a folder.
Prefix	When saving video files, the characters you typed in 'Prefix' field will be used as leading characters of video file's name. For example, the default setting of 'Prefix' is 'CLIP', and video file's named will be 'CLIP.avi'.
Add date and time suffix to file name	Check this box to add data and time to the ending part of video file's filename, so you can see the date and time the video file is created directly from its filename.

When you finish with above settings, click 'Apply' button to save changes.

Chapter III Advanced Configuration

If you wish to configure IP camera's settings, you can access IP camera's 'Configuration' menu, which provides various kinds of system setting. To access configuration menu, click 'Configuration' button on the left.

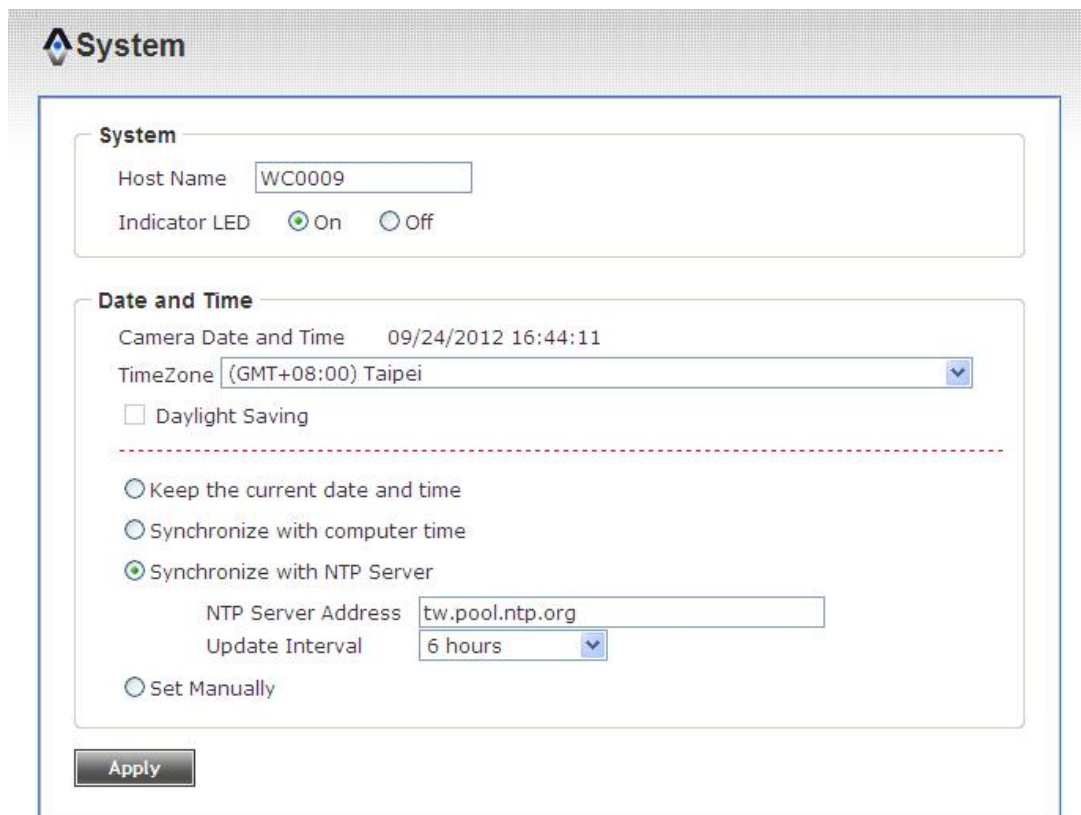


The 'Configuration' submenu will appear, please pick a setup item you wish to configure.



3-1 System

In this menu, you can configure basic IP camera settings like hostname and time.



The screenshot shows the 'System' configuration page. It has a title bar with a camera icon and the word 'System'. Below the title bar, there are two main sections: 'System' and 'Date and Time'. The 'System' section contains a 'Host Name' text box with 'WC0009' and an 'Indicator LED' section with 'On' selected. The 'Date and Time' section shows the current 'Camera Date and Time' as '09/24/2012 16:44:11', a 'TimeZone' dropdown menu set to '(GMT+08:00) Taipei', and a 'Daylight Saving' checkbox. Below a dashed line, there are three radio button options: 'Keep the current date and time', 'Synchronize with computer time', and 'Synchronize with NTP Server' (which is selected). Under the selected option, there is an 'NTP Server Address' text box with 'tw.pool.ntp.org' and an 'Update Interval' dropdown menu set to '6 hours'. At the bottom of the 'Date and Time' section is a 'Set Manually' radio button. An 'Apply' button is located at the bottom left of the form.

Here are the descriptions of every setup item:

Item	Description
Host Name	Input the IP camera's hostname here, it can be any meaningful words or characters that will help you to identify this IP camera. You can use IP camera's installation location as host name, and this will help you to identify IP camera when you have many IP cameras installed.
Indicator LED	The LED lights located at the back of IP camera is switched on by default. But, if you don't want other people to know the status of this IP camera (so they will know this IP camera is operating etc.), you can select 'Off' and LED lights will be switched off.
Timezone	Select the time zone of residence from dropdown menu to keep correct date and time.

Daylight Saving	If the area you live uses daylight saving, check this box; otherwise do not check this box to keep time correct.
Keep the current date and time	Select this option and date / time setting will not be changed when you click 'Apply' in the page. You can check 'Camera Date and Time' item in this page to know IP camera's current date and time setting.
Synchronize with computer time	Select this item and IP camera will use your computer's time as its time.
Synchronize with NTP Server	Select this item and IP camera will keep its date and time setting synchronized with specified time server (NTP server). Please input NTP server's IP address or host name in 'NTP Server Address' field, and select time update interval from 'Update Interval' dropdown menu. <i>Please note that if this IP camera can't access Internet, you must have a time server on local area network, or set the time manually.</i>
Set Manually	Set IP camera's date and time manually. Please set current date and time by 'Date' and 'Time' dropdown menu.

When you finish with above settings, click 'Apply' button to save changes.

3-2 Security

In this menu, you can configure IP camera's login account.

There are three kinds of account:

- Administrator (Can view IP camera's video and make changes of camera setting)
- User (Can view IP camera's video and see LOG, and change Client Setting and language)
- Guest (Can view IP camera's video , and change language)

There can be multiple users, but only one administrator is allowed, and you can't change administrator's user name (it will always be 'administrator').

The screenshot displays the 'Security' configuration page. It features two main sections: 'Administrator' and 'Account List'. The 'Administrator' section includes fields for 'Password' and 'Retype Password', a 'Modify' button, and a yellow warning box stating: '* Administrator password length must be between 4 and 8 characters.' The 'Account List' section includes a table with columns 'Account List' and 'New Account', and a 'Remove' button. Below the table, there are fields for 'User Name', 'Password', 'Retype Password', and 'Authority' (a dropdown menu set to 'User'), along with a 'New' button. A yellow warning box at the bottom of the 'Account List' section contains two messages: '* User name length must be between 1 and 32 characters.' and '* Password length must be between 4 and 8 characters.'

Here are the descriptions of every setup item:

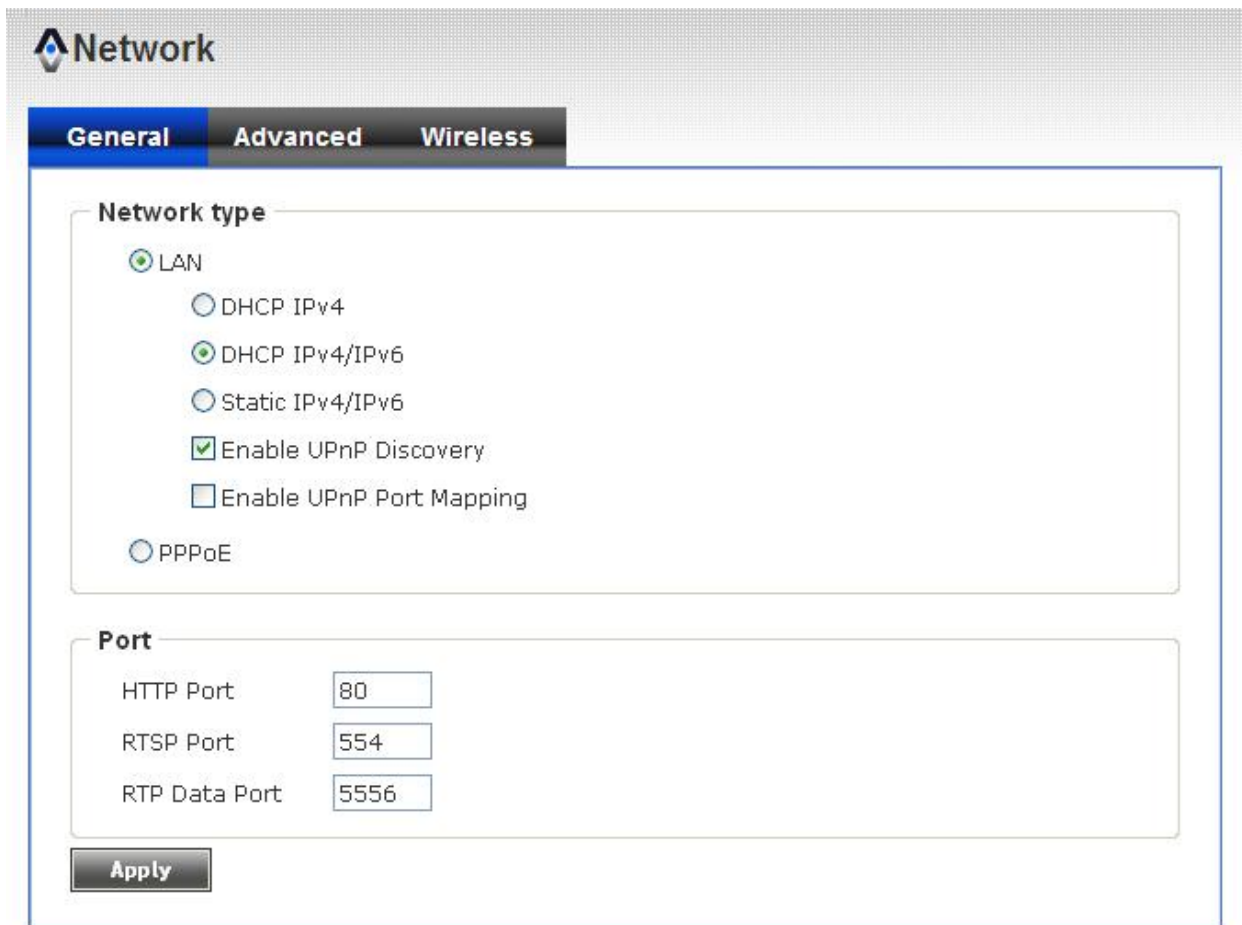
Item	Description
Password / Retype Password (Administrator)	Input administrator's new password in both 'Password' and 'Retype Password' field, and click 'Modify' button to change administrator's password. <i>Please note: Don't forget administrator's password! Or you'll need to reset IP camera's all settings to get administrator's password recovered.</i>
Account List	Here lists all users existed in IP camera. If you want to remove one user, click it in the list, and then click 'Remove' button. <i>If no user is existed, 'New Account' message will be shown here.</i>
User Name	Input new user's username here. User name must be greater than 1 character and less than 32 characters.
Password / Retype Password	Input this user's password in both 'Password' and 'Retype Password' field.
Authority	To define this user's access privilege, select 'User' or 'Guest' in dropdown menu. When you finish inputting new user's information, click 'New' button to create a new user.

3-3 Network

You can configure the network camera's general and advanced network settings here.

3-3-1 “General” Setup Page

Set up IP address for this IP camera. This IP camera supports both IPv4 and IPv6 IP address.



The screenshot shows the 'Network' configuration interface. At the top, there's a 'Network' header with a camera icon. Below it are three tabs: 'General' (selected), 'Advanced', and 'Wireless'. The 'General' tab contains two main sections: 'Network type' and 'Port'. In the 'Network type' section, there are radio buttons for 'LAN' (selected), 'DHCP IPv4', 'DHCP IPv4/IPv6', and 'Static IPv4/IPv6'. Below these are two checkboxes: 'Enable UPnP Discovery' (checked) and 'Enable UPnP Port Mapping' (unchecked). At the bottom of this section is a radio button for 'PPPoE'. The 'Port' section contains three input fields: 'HTTP Port' with the value '80', 'RTSP Port' with the value '554', and 'RTP Data Port' with the value '5556'. At the bottom left of the form is an 'Apply' button.

Network

General **Advanced** **Wireless**

Network type

☒ LAN

☐ DHCP IPv4

☒ DHCP IPv4/IPv6

☐ Static IPv4/IPv6

☒ Enable UPnP Discovery

☐ Enable UPnP Port Mapping

☐ PPPoE

Port

HTTP Port: 80

RTSP Port: 554

RTP Data Port: 5556

Apply

Here are the descriptions of every setup item:

Item	Description
LAN	<p>Select this option to assign an IP address to LAN port (or obtain an address from DHCP server automatically).</p> <p>Available options are:</p> <p>DHCP IPv4: Obtain an IPv4 IP address from DHCP server on LAN automatically.</p> <p>DHCP IPv4 / IPv6: Obtain both IPv4 and IPv6 address from DHCP server on LAN automatically.</p> <p>Static IPv4 / IPv6: Assign an IPv4 / IPv6 address to IP camera manually. If you don't have a DHCP server on your local area network, you must use this option to specify an IP address.</p> <p>IP Address(IPv4): Input IPv4 IP address*</p> <p>IP Address(IPv6): Input IPv6 IP address*</p> <p>Prefix Length: Input IPv6 IP address' prefix length (0-128)</p> <p>Subnet Mask: Input subnet mask</p> <p>Gateway: Input gateway address</p> <p>Primary DNS: Input DNS server's IP address</p> <p>Secondary DNS: Input backup DNS server's IP address, you can leave this field blank.</p> <p>* You can leave this field blank, if you only wish to use IPv4 or IPv6 IP address.</p> <p>Enable UPnP Discovery: Check this box to enable other devices on network to discover the presence of this IP camera by UPnP. It's recommended to enable this function.</p> <p>Enable UPnP Port Mapping: When UPnP is enabled, check this box to enable UPnP's port mapping.</p>
PPPoE	Select this option to use PPPoE to connect to network. You

	have to input PPPoE username and password assigned by network operator to get connected.
HTTP Port	<p>Input IP camera's web connection port number here. When this port number is changed, you need to change web browser's port number you used to connect to IP camera.</p> <p>For example, IP camera's IP address is 192.168.2.3, and if you changed HTTP port number to 82, please input 'http://192.168.2.3:82' in web browser's address bar to access IP camera's web configuration interface.</p>
RTSP Port	Input RTSP port number. When this port number changes, you must change corresponding settings in external network devices (NVR or CMS software) so they can receive this IP camera's video.
RTP Data Port	Input RTP data port number here.

When you finish with above settings, click 'Apply' button to save changes.

3-3-2 "Advanced" Setup Page

You can setup advanced network settings in this page. This page is intended for advanced settings only, and this IP camera will work fine even you don't make any changes to this page.

The screenshot shows the 'Advanced' setup page for an IP camera. It features a tabbed interface with 'General', 'Advanced', and 'Wireless' tabs. The 'Advanced' tab is active, displaying several configuration sections:

- Multicast:** Includes a checkbox for 'Enable Multicast', which is currently unchecked.
- Bonjour:** Includes a checkbox for 'Enable Discovery', which is checked.
- Qos:** Includes a checkbox for 'Enable Qos', which is unchecked.
- DDNS:** Includes a checkbox for 'Enable DDNS', which is unchecked.
- HTTPS:** Includes a checkbox for 'Enable HTTPS' (checked) and a text field for 'HTTPS Port' with the value '443'.

An 'Apply' button is located at the bottom left of the configuration area.

Here are the descriptions of every setup item:

Item	Description
Multicast	<p>Enable video multicast:</p> <p>Multicast Group Address: Input multicast group address here, must be an address between 232.0.0.0 to 232.255.255.255.</p> <p>Multicast video port: Input port number for video multicast here.</p> <p>Multicast RCTP video port: Input port number for RCTP video here.</p> <p>Multicast audio port: Input port number for audio here.</p> <p>Multicast RCTP audio port: Input port number for RCTP audio here.</p> <p>Multicast TTL: Input TTL value for multicast here.</p>
Bonjour	<p>If you're using MacOS and you have Bonjour installed, you can use it to discover this IP camera.</p>
QoS	<p>Enable QoS to improve the data transfer priority of this IP camera (Your local area network must support QoS).</p> <p>You can select Video / Audio's QoS DSCP value (0 to 63), or both video and audio.</p>
DDNS	<p>Enable DDNS support if your ISP assigns dynamic IP address to you. You must register a dynamic IP service first. Currently this IP camera supports Dyndns and TZO dynamic IP service.</p> <p>Provider: Select dynamic IP service provider.</p> <p>Host Name: Input the host name you obtained from dynamic IP service provider.</p> <p>User name: Input user name used to login dynamic IP service provider.</p>

The descriptions of every setting in this menu will be given below:

Item	Description
Wireless Connection	Select „Enable“ to activate wireless network function of this IP camera, select „Disable“ to disable it.
Network Type	<p>Select the network type of wireless connection.</p> <p>Available options are „Infrastructure“ (Connect the IP camera to a wireless access point), and „Adhoc“ (This IP camera will become a stand-alone wireless network point, other wireless computers / devices can discover this IP camera and connect to it without wireless access point). You can set to „Adhoc“ when you don“t have any wireless access point, but your computer has wireless network card. Set to „Infrastructure“ when you have wireless access point, and you have computers with wired network connection.</p>
Available Networks	<p>Here shows all wireless access points found by this IP camera. Please note not all access points will be displayed at the same time, if the access point you expected to connect does not appear, you may have to click „Refresh“ button for several times until it appears. The descriptions of all fields is listed below:</p> <p>Connect: You can select the wireless access point you wish to connect here.</p> <p>SSID: the SSID of all found wireless access points will be shown here. Some wireless access point may hide their SSID; in this case, you have to identify them by their MAC address.</p> <p>MAC Address: If you there are many wireless access points in proximity or some wireless access point hides it“s SSID, you can use MAC address to distinguish them.</p> <p>Signal: Shows the radio signal strength in percent.</p> <p>Channel: Shows the radio channel of this wireless access point.</p> <p>Encryption: Shows the encryption type used by this wireless access point. You must use the same encryption type if you wish to connect to a certain wireless access point. If the wireless access point does not use encryption, „Disabled“ will be displayed here.</p> <p>Network Type: Shows the network type of a certain wireless access point (Infrastructure or Adhoc).</p>

SSID	<input type="text" value="logilink_test"/>
Channel number	<input type="text" value="2"/>
Authentication	<input type="text" value="WPA2-PSK"/>
Encryption Type	<input type="text" value="AES"/>
WPA Pre-Shared Key	<input type="text"/>
WEP Key Length	<input type="text" value="64 bits"/>
WEP Key Format	<input type="text" value="ASCII"/>
Default Key	<input type="text" value="1"/>
WEP Key 1	<input type="text"/>
WEP Key 2	<input type="text"/>
WEP Key 3	<input type="text"/>
WEP Key 4	<input type="text"/>

SSID	Input the SSID of the wireless access point you wish to connect. It should be less than 32 alphanumerical characters. When you select a wireless access point above, it's SSID will be filled in this field automatically. However, if the SSID is not displayed (the wireless access point you selected choose to hide it's SSID), you have to know it's SSID and input it here, or you will not be able to connect it.
Channel	Select the radio channel you wish to use here. When network type is „Infrastructure“, the radio channel is auto-selected according to the channel that wireless access point uses. You can only select the channel number when network type is „Adhoc“.
Authentication	It includes None, Open System, Shared Key 64bits and 128bits, WPA-PSK, WPAS-PSK. Select one of them then the relative items below will transfer gray scale to black scale. Configure the setting consistent with the setting on the wireless router/AP that this IP camera will join the wireless network. Apply the settings then check the wireless networking.

Apply

Wi-Fi Protected Setup(WPS)

Pin Code00094276

Configure via Push Button

Start PBC

Registrar SSID

Start Pin

Pin Code	Here displays the WPS pin code used to connect to WPS-enabled wireless access points. You have to input this number into the WPS enabled access point to establish WPS connection.
Configure via Push Button	Click this button and this camera will enter PBC-style WPS connection state for 120 seconds. Please push „Start PBC“ button on the wireless access point you wish to connect within 120 seconds to establish WPS connection (The remaining time will be displayed on the button). If connection can not be established after 120 seconds, you“ll be prompted by a message box, and you can press „Start PBC“ button to try again.
Configure via PinCode	If you have wireless access point’s WPS PIN code, you can input it here and press „Start PIN“ button to start to establish PIN-style WPS connection.

3-4 IP Filter

When this IP camera is directly connected to Internet and not protected by firewall, this function acts like an mini built-in firewall to protect the safety of this IP camera and avoid attacks from hackers.

IP Filter

☐ Enable Filter **Apply**

Accepted IP list

Remove

IP Address ~ **New**

Deny IP list

Remove

IP Address ~ **New**

Here are the descriptions of every setup item:

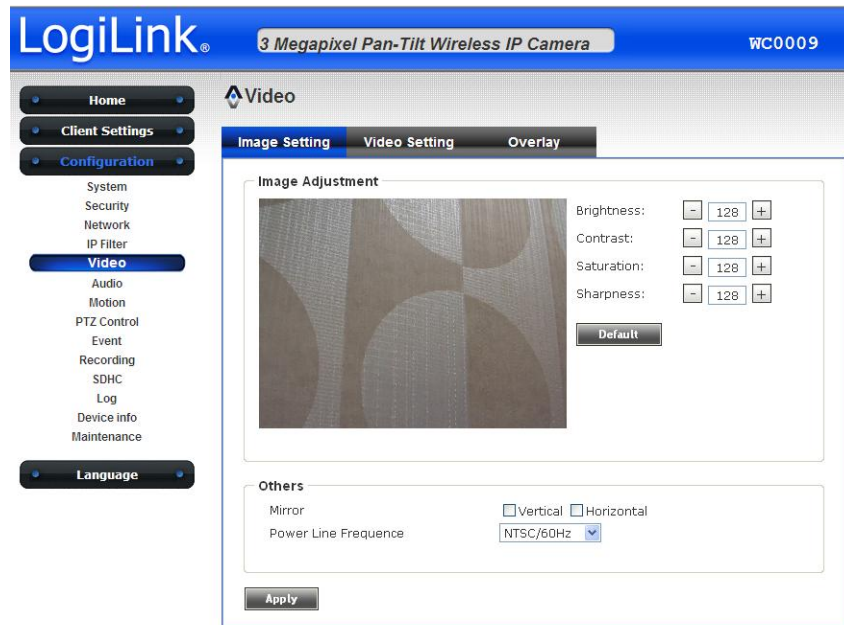
Item	Description
Enable Filter	Check this box to enable IP address filter, uncheck this Box to disable this function.
Accepted IP list	Here lists all IP address that can build connections to this IP camera. If you want to remove a set of IP address from the list, click on the IP address and click 'Remove' button.
IP Address (Accepted IP list)	Input the starting and ending IP address of IP address you wish to accept connections here. IP camera will only accept connections established from these IP address. If you want to specify one IP address only, input the

	<p>same IP address in both field.</p> <p>Click 'New' button to add IP address into accepted IP list.</p>
Deny IP list	<p>Here lists all IP address that cannot build connections to this IP camera. If you want to remove a set of IP address from the list, click on the IP address and click 'Remove' button.</p>
IP Address (Accepted IP list)	<p>Input the starting and ending IP address of IP address you wish to deny connections here. IP camera will deny connections established from these IP address.</p> <p>If you want to specify one IP address only, input the same IP address in both field.</p> <p>Click 'New' button to add IP address into deny IP list.</p>

When you finish with above settings, click 'Apply' button to save changes.

3-5 Video

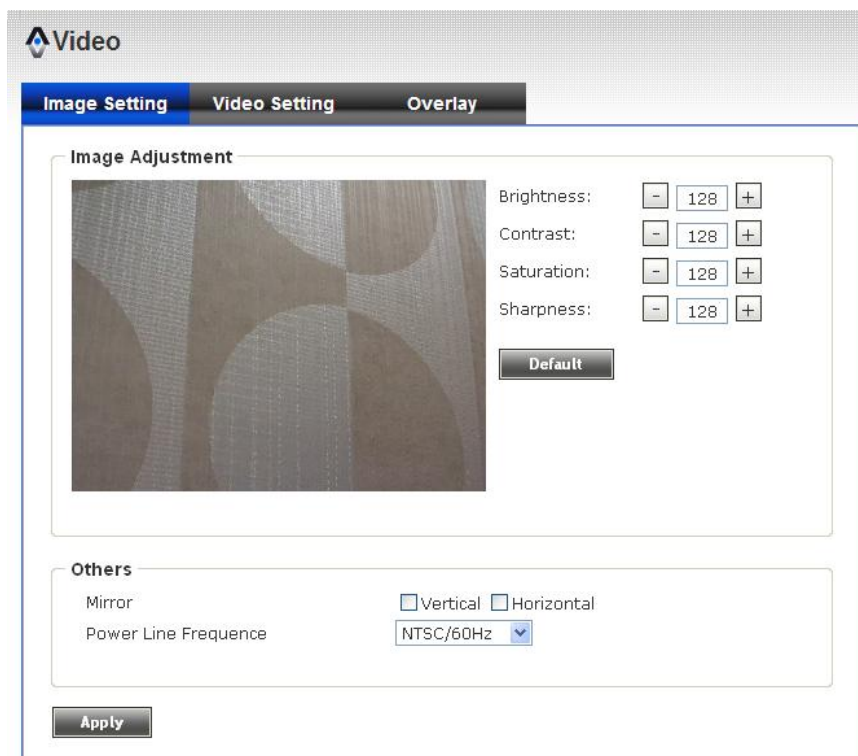
You can adjust the image of the IP camera in this menu.



There are 3 sub-menus in this menu: Image Setting, Video Setting, and Overlay, which can be accessed by tabs on the top: Image Setting, Video Setting and Overlay.

3-5-1 Image Setting

You can adjust the image parameters in this page.



Here are the descriptions of every setup item:

Item	Description
Brightness / Contrast / Saturation / Sharpness	Control the image parameters. Click ' - ' to decrease value, or click ' + ' to increase value. You can also input the value in the field directly.
Default	Set all above values to default value '128'.
Mirror	Check 'Vertical' or 'Horizontal' box to flip the image vertically or horizontally, this will help to correct the orientation of image when IP camera is hanged bottom-up by camera holder. <i>You can click both 'Vertical' and 'Horizontal' box at the same time.</i>
Power Line Frequency	Select the frequency of power line of the place you're using this IP camera. This will help to reduce the flicker of certain lights in the image.

When you finish with above settings, click 'Apply' button to save changes.

3-5-2 Video Setting

You can adjust the video transfer parameters in this page.

Image Setting

Video Setting

Overlay

Main Stream

☒ H.264

Video Resolution

Frame Rate

Rate Control ☒ Video quality

☐ Bitrate kbps 512~4000

☐ MPEG4

MJPEG

Video Resolution

Frame Rate

Video quality

Mobile View

☒ Disable

☐ 3GPP without Audio

☐ 3GPP with Audio

*One snapshot is supported when resolution is under 720P.

Apply

Here are the descriptions of every setup item:

Item	Description
H.264 /MPEG4	Select the compression of main stream: H.264 / MPEG4.
Video Resolution	<p>Select video resolution.</p> <ul style="list-style-type: none"> - H.264: 2048x1536 (QXGA) / 1920x1080 (1080p) 1280x960 (960p) / 1280x720 (720p) 720x480 (D1) / 640x480 (VGA) 320x240 (QVGA) - MPEG4: 1920x1080 (1080p) / 1280x960 (960p) 1280x720 (720p) / 720x480 (D1) 640x480 (VGA) / 320x240 (QVGA) MJPEG: 1280x720 (720p) / 720x480 (D1) 640x480 (VGA) / 320x240 (QVGA) <p>Please note that some video resolution is not available when video encoder is 'MPEG4'.</p> <p>Please note that MJPEG is not available when the resolution of "H.264" & "MPEG4" is higher than 1280 x 720 (720p).</p> <p>When network speed is insufficient, select a lower video resolution will help.</p>
Frame Rate	<p>Select video frame rate. Please note that some frame rate is not available when video encoder is 'H.264'.</p> <p>When network speed is insufficient, select a lower frame rate will help.</p>
Rate Control	<p>Select video bit rate. You can control bit rate by both 'Video quality' and 'Bitrate':</p> <ul style="list-style-type: none"> - Video quality: There are 5 levels of video quality, select 'very high' to improve video quality but consumes more network bandwidth, and select 'very low' will decrease video quality and consumes less network bandwidth. - Bitrate: Input video's bit rate directly. It must an integer between 512 and 4000. Higher bit rate provides better video quality, but consumes more network bandwidth.

When you finish with above settings, click 'Apply' button to save changes.

Note:

Mobile View is enabled to remote monitor by I-Phone or Android Google phone APP.

3-5-3 Overlay Setting

You can adjust the video overlay parameters in this page.

The screenshot shows the 'Overlay' tab selected in a settings interface. It contains three main sections: 'Time Stamp', 'Text', and 'Image'. The 'Time Stamp' section has two checkboxes: 'Enable Time Stamp' and 'Remove the background color of the text'. The 'Text' section has a checkbox for 'Enable Text Display', a text input field with 'IPCAM', a warning message '* length must be between 1~15.', and a checkbox for 'Remove the background color of the text'. The 'Image' section has a checkbox for 'Enable Image Overlay', a text input field for 'User Define Image', a 'Browse...' button, and an 'Update' button. Below the 'Image' section is a yellow box with three instructions: 1. Only support:Bitmap/JPG/JPEG, 2. Maximum width and height: 160x128, and must be multiple of 4, 3. Maximum size:64KB. At the bottom left is an 'Apply' button.

Here are the descriptions of every setup item:

Item	Description
Enable Time Stamp	Check this box to enable overlaying time stamp on video.
Remove the background color of the text (for Time Stamp)	Check this box to remove time stamp's background color. You may find this will help the readability of time stamp text in some cases.
Enable Text Display	Check this box to display certain text on video, this will help when you need to identify certain IP camera when you have a lot of IP cameras. Please input the text in 'Text' field. You can input up to 15 characters.

Remove the background color of the text (Text)	Check this box to remove custom text's background color. You may find this will help the readability of text in some cases.
Enable Image Overlay	<p>Check this box to overlay a specific image on video, so you can show certain text / picture on the video and help people to identify this IP camera.</p> <p>Click 'Browse' button to pick a picture on your computer, then click 'Update' button to use the picture. Please note that there are certain restrictions:</p> <ul style="list-style-type: none"> - Select .bmp / .jpg / .jpeg image files only. - Image's resolution should be less than 160 x 128, and can be divided by 4. - Do not upload image files that size is greater than 64KB.

When you finish with above settings, click 'Apply' button to save changes.

3-6 Audio

You can adjust audio input / output parameters here.

Audio

Microphone

☒ Enable Microphone

Audio Type: G711 u-law

Microphone Gain: 0 dB

Speaker

☐ Enable Speaker

Audio Type: G711 u-law

Apply

Here are the descriptions of every setup item:

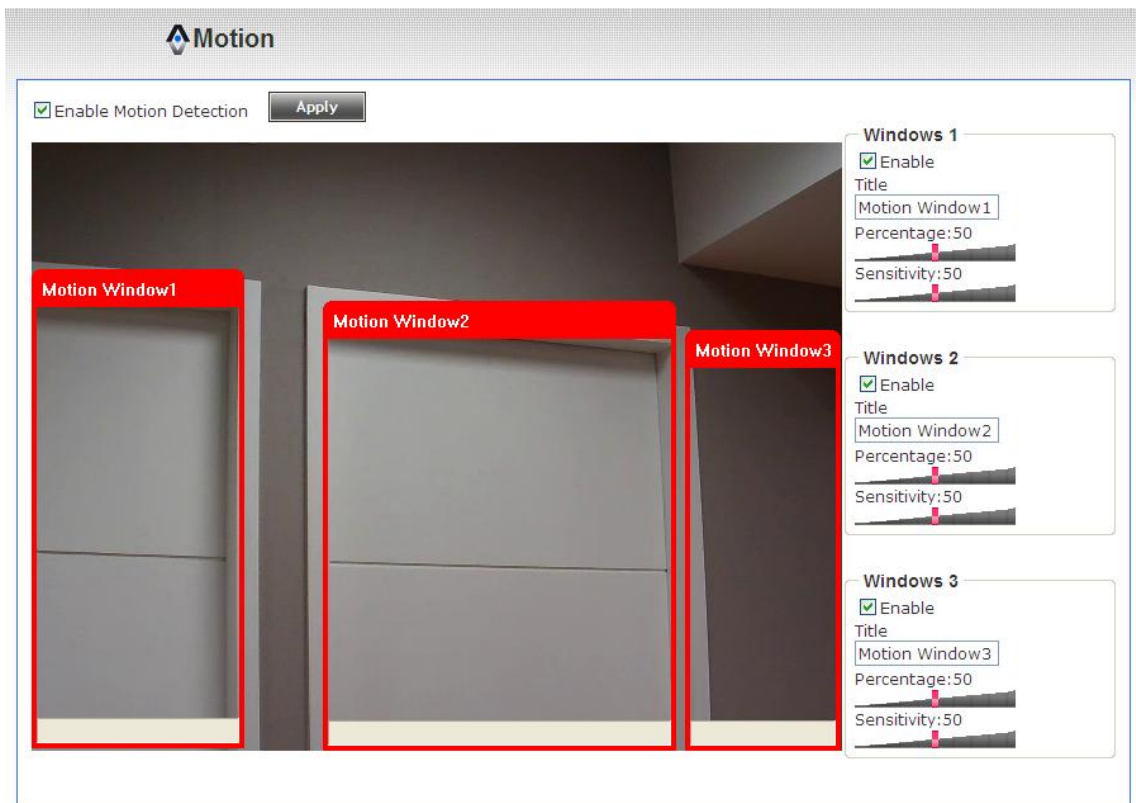
Item	Description
Enable Microphone	Check this box to enable microphone. If you don't want to hear voice from IP camera, you can uncheck this box to disable it.
Audio Type (Microphone)	The format is fixed as G.711
Microphone Gain	If the voice received by microphone is too loud or silent, you can use this function to improve voice volume, so you can hear voice from IP camera more clearly. <ul style="list-style-type: none">- Select 0 dB and IP camera will do nothing on the voice;- Select +6 dB to +18 dB to amplify the voice.
Enable Speaker (Speaker)	Check this box to enable speaker. If you don't want people at IP camera to hear you, you can uncheck this box to disable it.
Audio Type (Speaker)	The format is fixed as G.711

When you finish with above settings, click 'Apply' button to save changes.

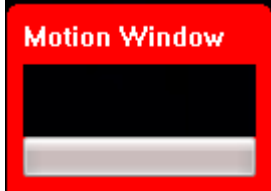
3-7 Motion

This IP camera is capable to detect object's motion, so IP camera will only record when there's motion and save disk storage space.

Motion detection is performed by examine the movement of objects in rectangular motion detection area. You can define up to 3 motion detection areas.



Here are the descriptions of every setup item:

Item	Description
Enable Motion Detection	Check this box to enable motion detection.
Enable (Window 1 to Window 3)	<p>Check this box to enable this motion detection window. You can select window 1 to 3 to enable up to 3 motion detection windows. When a motion detection window is enabled, a rectangular will appear on camera's view, with its title on the top.</p> <ul style="list-style-type: none"> - To move / resize a motion detection window:  <ul style="list-style-type: none"> - Move: Use the mouse to drag the title text. - Resize: Use the mouse the drag the four corners (upper-left/right, lower-left/right) to resize it. If you only want to adjust width or height, drag the four sidebars (top, bottom, left, and right).
Title (Window 1 to Window 3)	<p>Input characters in title field to change motion detection area's title text so you can identify it.</p> <p>Please note that you have to click 'Apply' button and the text will change.</p>
Percentage	Select the percentage of pixel change that will trigger motion detection alert. Select a lower percentage and you can detect tiny changes in motion detection area.
Sensitivity	Select the sensitivity level that will trigger motion detection alert. Select a higher sensitivity and you can detect tiny changes in motion detection area.

When you finish with above settings, click 'Apply' button to save changes.


3-8 PTZ Control


In this page, you can setup PTZ Control settings like auto pan-tilt control and patrol.

PTZ Control

Advanced

Setting





Pan Speed:
Tilt Speed:
Patrol:

Pre set Setting

Preset list

1:left-top
2:mid-top
3:right-top
4:right-mid
5:right-bottom
6:mid-bottom
7:left-bottom
8:left-mid

Description

Dwell time(sec)

* Description can only accept 16 characters.
* Dwell time must be under 30 seconds.


Patrol Setting





Preset list

1:left-top
2:mid-top
3:right-top
4:right-mid
5:right-bottom
6:mid-bottom
7:left-bottom
8:left-mid

48

Here are the descriptions of every setup item:

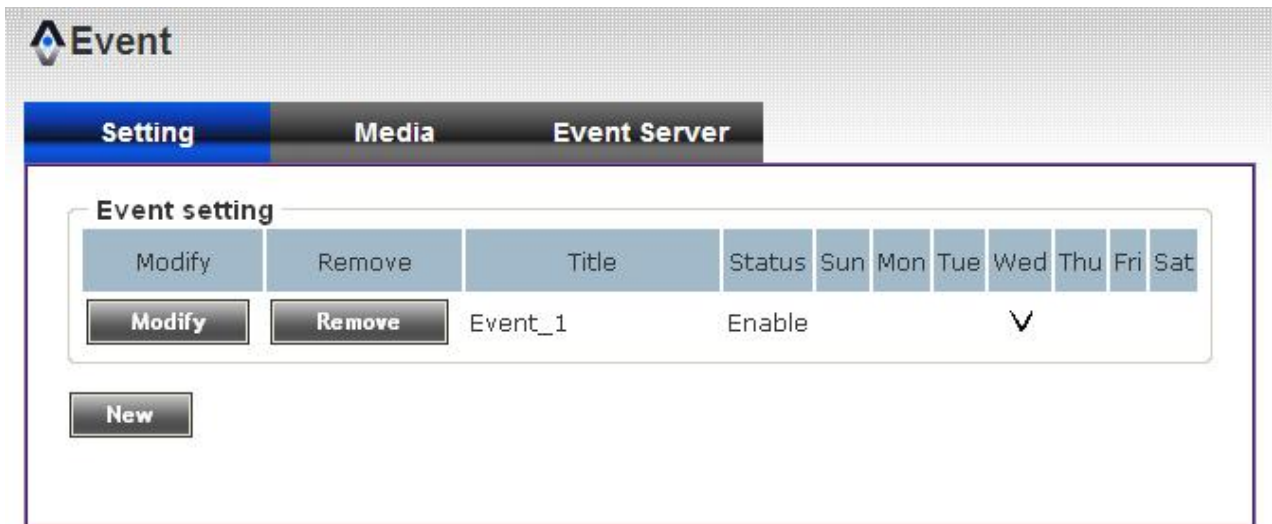
Item	Description
<p>Pan-tilt control</p> 	<p>Control pan-tilt of camera by click up, down, left, right and upper-left/right, lower-left/right.</p>
<p>Pan Speed</p>	<p>Adjust the pan speed. It should be an integer between 1 (slower) to 10 (faster).</p>
<p>Tilt speed</p>	<p>Adjust the tilt speed. It should be an integer between 1 (slower) to 10 (faster).</p>
<p>Set home</p>	<p>Click this button to set current position as home position.</p>
<p>Calibration</p>	<p>To calibration its direction and focus to its “Factory Default Position”, to ensure its preset position will be located at the correct position without deviation after a period of usage.</p>
<p>Preset list</p>	<p>This IP camera supports up to 8 preset points. You can move camera to preset point, and camera will stop there for a specific amount of time. You can specify up to 8 preset points.</p> <p>To set a preset point:</p> <ul style="list-style-type: none"> ● Move camera to the preset point you wish to set by pan-tilt control. ● Select a preset point from the list (1 to 8) ● Input a text description for this preset point (this is optional, up to 16 characters). ● Input dwelling time (0 to 30**, seconds) ● Click ‘Set’ to save current preset point. <p>You can click ‘GO Preset’ button to move camera to preset point, or click ‘Remove’ to clear this preset point setting.</p>
<p>Patrol Setting</p>	<p>When you have 2 or more preset points, you can</p>

	<p>make camera to move between these points, this function is called as 'Patrol'.</p> <p>To configure patrol, please setup preset points first, then select preset points from 'Preset list' and click  button to add it to 'Patrol' list; to remove a preset point from patrol list, select it in patrol list and click  button.</p> <p>You can also adjust the order or preset points in patrol list: select a preset point and click  or  button.</p>
--	--

When you finish, click 'Apply' button.

3-9 Event

When there's an event, you can use this setup page to define what IP camera should do, like send an Email or trigger digital output to activate external alarm.



The screenshot shows a web interface titled "Event" with three tabs: "Setting", "Media", and "Event Server". The "Setting" tab is active. Below the tabs is a table titled "Event setting". The table has columns for "Modify", "Remove", "Title", "Status", and seven days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat). A single row is visible with the title "Event_1", status "Enable", and a dropdown arrow under the "Wed" column. Below the table is a "New" button.

Modify	Remove	Title	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Modify	Remove	Event_1	Enable				▼			

New


1. Setting: Define a new event and manage events.
2. Media: Define what kind of media file should be saved on designate media.
3. Event Server: Define the details of remote server.

Please refer to following chapters for detailed instructions.

3-9-1 Settings

This page lists all existing events. You can click 'Modify' button to edit an existing event, or 'Remove' to delete an existing event.

To create a new even, just click "New" button to add an Event setting.

Event

Setting

Media

Event Server

Event setting

Modify	Remove	Title	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Modify	Remove	Event_1	Enable				▼			

New

Setting

☐ Enable Setting

Title

Trigger

☐ Motion Detection

☐ Digital Input 1

☐ Digital Input 2

Schedule Time

☐ Enable Schedule Time

☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat

Time: ☒ Always

☐ From : To :

Action

☐ Enable FTP

☐ Enable EMAIL

☐ Enable Samba(Net Storage)

☐ Enable SD CARD

☐ Trigger digital output for second(s)

Apply

To add a new event, click 'New' button and the descriptions of every setup item is listed below:

Item	Description
Enable Setting	Check this box to enable this event. If you just want to disable this event temporarily, you can uncheck this box to keep this event and disabling while not deleting it.
Title	Input any description text for this event so you can identify it quickly. You can use alphabets, numbers, and symbols include: !\$.@^_~ (no spaces allowed).
Motion Detection	Check this box and this event will be activated when one of motion detection window detects motion.
Digital Input 1 ~ 2	Check this box and this event will be activated when digital input 1 or 2's input signal is high or low (select from dropdown list).
Enable Schedule Time	Check this box and this event will be activated when designated weekday and time is reached. You also have to check weekday box, and select time from dropdown list. If you select 'Always' as time, this event will be activated during all the day.
Enable FTP	Check this box and IP camera will save file on FTP server (refer to 'FTP Server' setting in 'Event Server' tab) when this event is activated.
Enable EMAIL	Check this box and IP camera will send an Email to designated recipient address (refer to 'SMTP Server' setting in 'Event Server' tab) when this event is activated.
Enable Samba (Net Storage)	Check this box and IP camera will save file on samba server (refer to 'Samba Server' setting in 'Event Server' tab) when this event is activated.
Enable SD CARD	Check this box and IP camera will save file on SD card when this event is activated. A working SD card must be inserted into IP camera in advance.
Trigger digital output for xx second(s).	Check this box and IP camera will trigger digital out to 'high' state for xx seconds when this event is activated, where 'xx' seconds must be defined by the dropdown list.

3-9-2 Media

You can define what kind of media file should be saved on designated media.

Media

☐ One Snapshot

☒ H.264 Video Maximum Size: 3 Megabytes

Pre Event second(s)

Post Event second(s)

Here are the descriptions of every setup item:

Item	Description
One Snapshot	Save a picture file when event is triggered. Please note that this function will be enabled while “MJPEG codec” is appeared on the “Video Setting”. (Please refer to section “3-5-2 Video Setting”).
H.264 Video	Save a H.264 video clip. You can also select the recording length before and / or after the time when event is triggered in ‘Pre Event’ and ‘Post’ Event’. For example, if you set ‘Pre Event’ to ‘10’ and ‘Post Event’ to 5’, and an event is triggered at 14:10:30, then the video file will be 15 seconds long, starting from 14:10:20 to 14:10:35. <i>Tips: You may want to know what happened before event is triggered in many cases, especially when object is outside of motion detection window.</i> <i>Note: If the “Pre Event” set to “0” second, the “Post Event” cannot set to “0” second.</i>

When you finish with above settings, click ‘Apply’ button to save changes.

3-9-3 Event Server

You can define the details of remote media server: FTP (File), SMTP (Email), and Samba (File).

A Samba server can be any computer running windows operating system with network neighbor function enabled. Many stand-alone network file server also support samba server function.

The screenshot shows a software interface for configuring an Event Server. The 'Event Server' tab is selected, displaying three main sections: FTP Server, SMTP Server, and Samba Server. The FTP Server section is active, showing fields for enabling the server, server name, port (21), username, password, file path, and passive mode. The SMTP and Samba sections are currently disabled. An 'Apply' button is located at the bottom left.

Section	Option	Status
FTP Server	Enable FTP Server	Checked
	FTP Server	[Text Field]
	Port	21
	User Name	[Text Field]
	Password	[Text Field]
	File Path Name	[Text Field]
	Enable Passive Mode	Unchecked
Test FTP		
SMTP Server	Enable SMTP Server	Unchecked
Samba Server	Enable Samba Server	Unchecked
Apply		

Here are the descriptions of every setup item:

Item	Description
Enable FTP Server	<p>Check this box to enable FTP server upload.</p> <div><div><input checked="" type="checkbox"/> Enable FTP Server</div><div><div>FTP Server</div><div></div></div><div><div>Port</div><div>21</div></div><div><div>User Name</div><div></div></div><div><div>Password</div><div></div></div><div><div>File Path Name</div><div></div></div><div><input type="checkbox"/> Enable Passive Mode</div><div>Test FTP</div></div> <p>FTP Server: Input FTP server's IP address or hostname.</p> <p>Port: Input FTP server's port number. In most cases it should be default value '21'.</p> <p>User Name: Input FTP server's username.</p> <p>Password: Input FTP server's password.</p> <p>File Path Name: Input the path where you want to save file on FTP server, like 'upload/record'. If you want to save file on this FTP user's home directory, you can leave this field blank.</p> <p>Enable Passive Mode: Check this box to force IP camera to communicate with FTP server in passive mode (Some FTP Server may only work when you check this box, while others don't).</p> <p>Test FTP: Click this button to test FTP server settings above immediately.</p>

SMTP Server	<p>Check this box to enable Email send.</p> <p><input checked="" type="checkbox"/> Enable SMTP Server</p> <p>SMTP Server <input type="text"/></p> <p>Port <input type="text" value="25"/></p> <p>Sender Email Address <input type="text"/></p> <p>Receiver #1 Email Address <input type="text"/></p> <p>Receiver #2 Email Address <input type="text"/></p> <p>Subject <input type="text" value="WC0009"/></p> <p><input type="checkbox"/> Authentication</p> <p>User Name <input type="text"/></p> <p>Password <input type="text"/></p> <p><input type="checkbox"/> Requires SSL Encryption</p> <p><input type="checkbox"/> STARTTLS</p> <p><input type="button" value="Test SMTP"/></p> <p>SMTP Server: Input SMTP server's IP address or hostname.</p> <p>Port: Input SMTP server's port number. In most cases it should be default value '25'.</p> <p>Sender Email Address: Input the sender's email address that will appear in the Email send by IP camera. This will help you to identify the Email sent by this IP camera, and may help when you have anti-spam software installed (you can set this Email address to 'White List' in your anti-spam software)</p> <p>Receiver #1 Email Address: Input primary recipient's Email address. This field is required.</p> <p>Receiver #2 Email Address: Input backup recipient's Email address. This field is optional.</p> <p>Subject: Input Email title that will appear in the Email send by IP camera. This will help you to identify the Email sent by this IP camera.</p> <p>Authentication: Check this box when authentication is required by the Email server you're using. You also need to input Email server's username and password in corresponding field.</p> <p>Requires SSL Encryption: If your Email server required SSL encryption, check this box. Please note that some Email server</p>
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	<p>uses different port number than standard port 25 when SSL encryption is used.</p> <p>STARTTLS: If your Email server required STARTTLS encryption, check this box. Please note that some Email server uses different port number than standard port 25 when STARTTLS encryption is used.</p> <p>Test SMTP: Click this button to test SMTP server settings above immediately.</p>
Samba Server	<p>Check this box to enable Samba server file upload.</p> <div data-bbox="486 593 1308 913"> <input checked="" type="checkbox"/> Enable Samba Server <div> <div>Samba Server Address</div> <div>Path</div> <div>User Name</div> <div>Password</div> </div> <div>Test SMB</div> </div> <p>Samba Server Address: Input Samba server's IP address or hostname.</p> <p>Path: Input the path where you want to save file on Samba server, like 'upload/record'. If you want to save file on this user's home directory, you can leave this field blank.</p> <p>User Name: Input Samba server's username.</p> <p>Password: Input Samba server's password.</p> <p>Test SMB: Click this button to test Samba server settings above immediately.</p> <p><i>Tips: Some samba server does not have username and password check, you can just input samba server address and path to access the file storage space.</i></p>

When you finish with above settings, click 'Apply' button to save changes.

3-10 Recording to SD Card

When a SD card is inserted into IP camera, you can save video files on it.

Note:

- 1. Be sure that the SD Card format should be FAT32. The NTFS format cannot be supported by this camera.**
- 2. Unlike motion detection, this function will record video at specified time period on selected weekday(s).**

The screenshot shows the 'Recording' settings page with the 'General' tab selected. The 'Enable External storage Recording' checkbox is checked. Below it, the 'Maximum Size of Each File' is set to 10 MB. The 'Enable adding timestamp to files' checkbox is unchecked. The 'Recording Schedule' section shows all days of the week (Sun through Sat) checked. The 'Time' is set to 'Always' with the 'From' and 'To' fields set to 0:00. An 'Apply' button is at the bottom.

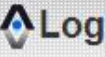
Here are the descriptions of every setup item:

Item	Description
Enable External storage Recording	Check this box to record video on SD card.
Maximum Size of Each File	Input the maximum size of every video file from 1MB to 50MB. IP camera will start a new video file when a recording video file reaches the size limit stated here.
Recording Schedule	Define the recording schedule. You can check Sun to Sat boxes to represent a weekday, and specify time period in 'From' and 'To' field. Select 'Always' to record 24 hours in selected weekday(s).

When you finish with above settings, click 'Apply' button to save changes.

3-11 Log

You can check the usage log of IP camera here.

Log

System Log

Item	Date and Time	Event
1.	09/24/2012 17:39:25	[EVENT MGR]: reload config file
2.	09/24/2012 17:21:53	admin login on 192.168.2.117
3.	09/24/2012 16:41:30	admin login on 192.168.2.117
4.	09/24/2012 15:55:48	Sync with NTP server: [2012/09/24 15:55:48]
5.	09/23/2012 23:54:44	admin login on 192.168.2.117
6.	09/23/2012 23:53:58	[RTSP SERVER]:Start one session<192.168.2.115>
7.	12/31/1969 16:01:06	Sync with NTP server: [1969/12/31 16:01:06]
8.	12/31/1969 16:01:05	[RTSP SERVER]:Stop one session<192.168.2.115>
9.	12/31/1969 16:01:00	[NET]:UPnP AV Disable
10.	09/23/2012 22:41:50	Sync with NTP server: [2012/09/23 22:41:50]
11.	09/23/2012 16:41:48	Sync with NTP server: [2012/09/23 16:41:48]
12.	09/23/2012 10:41:47	Sync with NTP server: [2012/09/23 10:41:47]
13.	09/23/2012 04:41:46	[RTSP SERVER]:Start one session<192.168.2.115>
14.	09/23/2012 04:41:44	Sync with NTP server: [2012/09/23 04:41:44]
15.	12/31/1969 16:01:05	[RTSP SERVER]:Stop one session<192.168.2.115>
16.	12/31/1969 16:01:01	[NET]:UPnP AV Disable
17.	09/22/2012 17:33:03	Sync with NTP server: [2012/09/22 17:33:03]
18.	09/22/2012 11:33:00	Sync with NTP server: [2012/09/22 11:33:00]
19.	09/22/2012 05:32:58	Sync with NTP server: [2012/09/22 05:32:58]
20.	09/21/2012 23:32:57	Sync with NTP server: [2012/09/21 23:32:57]

First page

Previous

Next

Final page

Remove

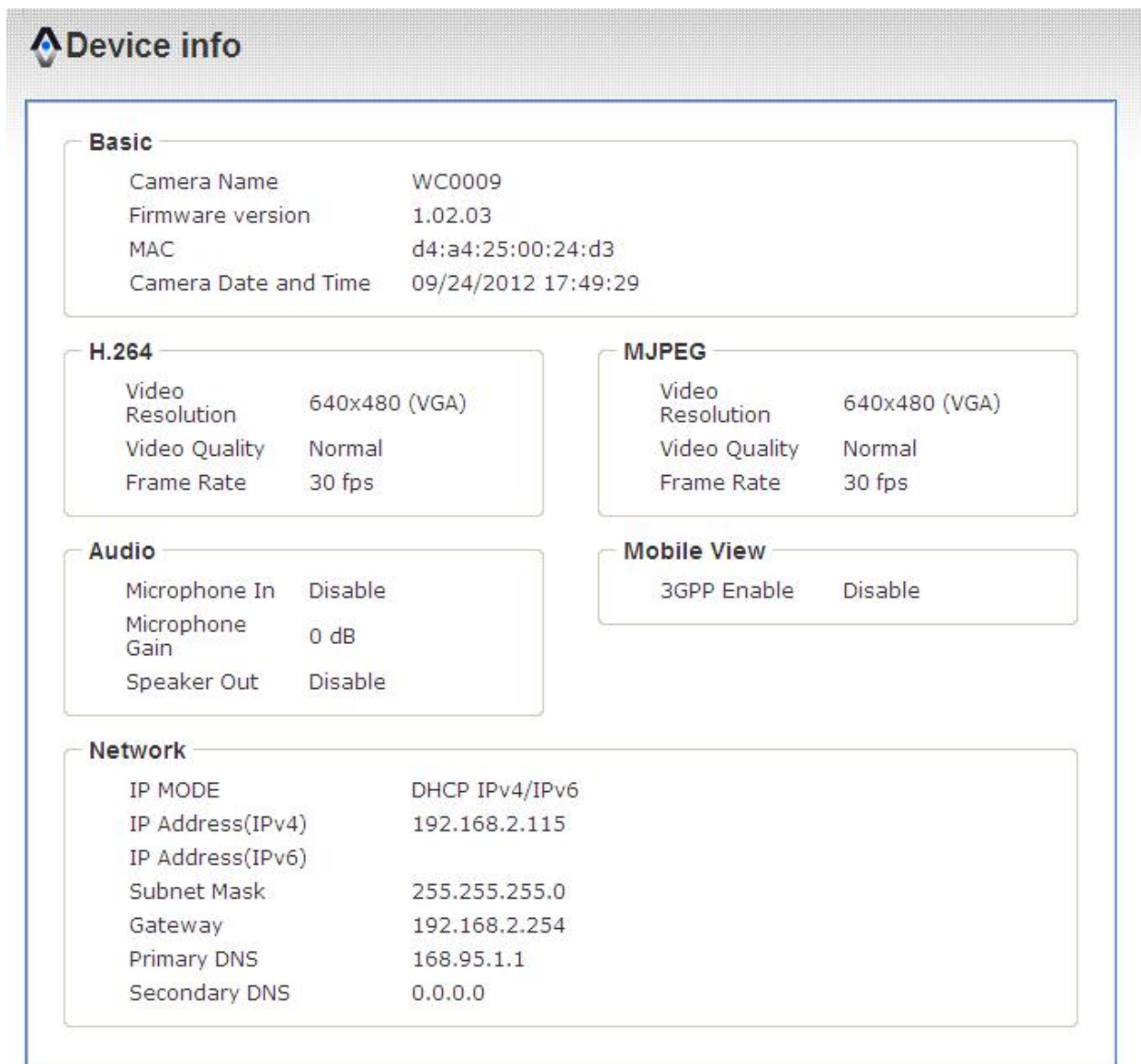
In this page, you can click:

1. First page / Final page: Jump to first / final page of log.
2. Previous / Next: Jump to previous or next page of log.
3. Remove: Clear log. You'll be prompted for confirmation.

3-12 Device Info

You can check the information and network settings of this IP camera. These information are very useful when you need to repair or fix the problem of this IP camera.

An example of device info page look like this:

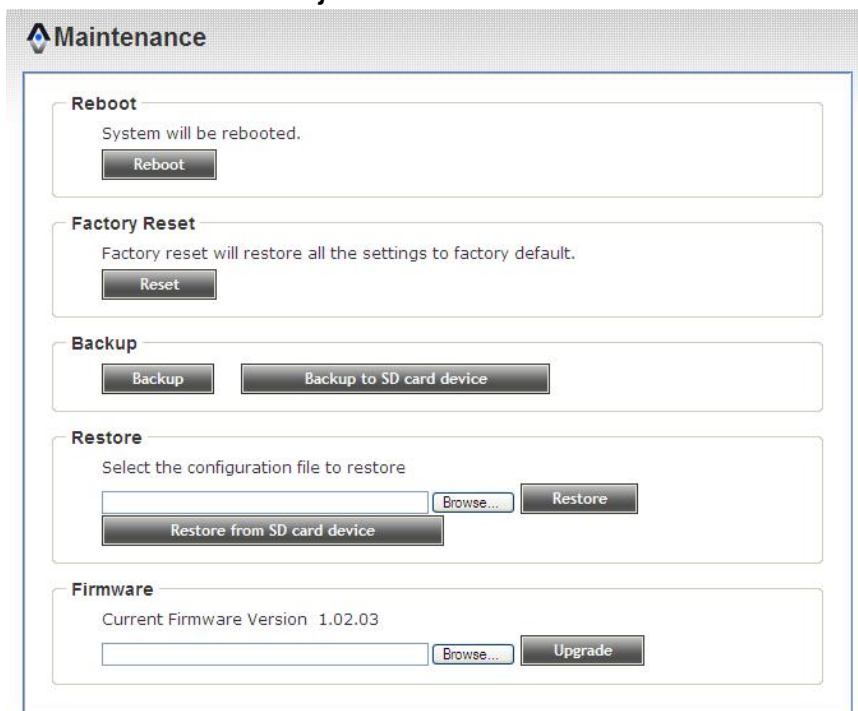


The screenshot displays the 'Device info' page of an IP camera. The page has a grey header with the title 'Device info' and a blue icon. Below the header, there are several sections, each with a title and a list of settings. The 'Basic' section includes Camera Name, Firmware version, MAC, and Camera Date and Time. The 'H.264' and 'MJPEG' sections show Video Resolution, Video Quality, and Frame Rate. The 'Audio' section includes Microphone In, Microphone Gain, and Speaker Out. The 'Mobile View' section shows 3GPP Enable. The 'Network' section includes IP MODE, IP Address (IPv4 and IPv6), Subnet Mask, Gateway, Primary DNS, and Secondary DNS.

Device info	
Basic	
Camera Name	WC0009
Firmware version	1.02.03
MAC	d4:a4:25:00:24:d3
Camera Date and Time	09/24/2012 17:49:29
H.264	
Video Resolution	640x480 (VGA)
Video Quality	Normal
Frame Rate	30 fps
MJPEG	
Video Resolution	640x480 (VGA)
Video Quality	Normal
Frame Rate	30 fps
Audio	
Microphone In	Disable
Microphone Gain	0 dB
Speaker Out	Disable
Mobile View	
3GPP Enable	Disable
Network	
IP MODE	DHCP IPv4/IPv6
IP Address(IPv4)	192.168.2.115
IP Address(IPv6)	
Subnet Mask	255.255.255.0
Gateway	192.168.2.254
Primary DNS	168.95.1.1
Secondary DNS	0.0.0.0

3-13 Maintenance

You can do some maintenance job about this IP camera here.



The screenshot shows a web interface titled "Maintenance" with a blue header bar. Below the header, there are five main sections, each with a title and a description:

- Reboot**: "System will be rebooted." with a "Reboot" button.
- Factory Reset**: "Factory reset will restore all the settings to factory default." with a "Reset" button.
- Backup**: Contains two buttons: "Backup" and "Backup to SD card device".
- Restore**: "Select the configuration file to restore". It includes a text input field, a "Browse..." button, a "Restore" button, and a "Restore from SD card device" button.
- Firmware**: "Current Firmware Version 1.02.03". It includes a text input field, a "Browse..." button, and an "Upgrade" button.

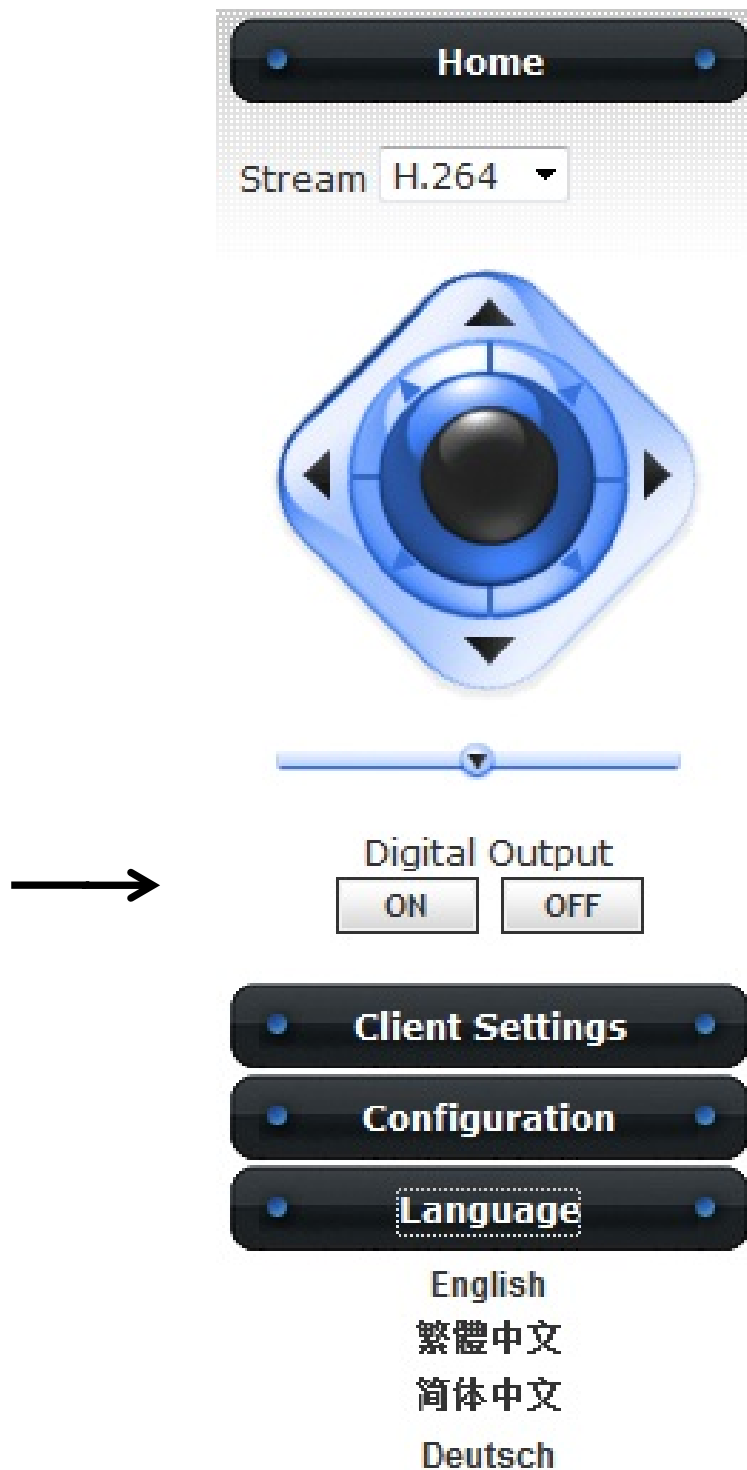
Here are the descriptions of every setup item:

Item	Description
Reboot	Click this button to reboot the IP camera. This function is useful when you find IP camera is not working properly.
Reset	Clear all settings of IP camera and reset to factory default setting.
Backup	Backup IP camera's setting and save it on your computer.
Backup to SD card device	Backup IP camera's setting and save it on SD card. A SD card must be inserted into SD card slot when you click this button, or you'll receive an error message.
Restore	Restore a previously-saved configuration file saved on your computer. Click 'Browse' button to select a file on your computer first, then click 'Restore' button.
Restore from SD card device	Restore IP camera's configuration which is previously-saved on SD card.
Upgrade	Upgrade IP camera's firmware. Click 'Browse' button to select a firmware image file on your computer first, then click 'Upgrade' button.

3-14 Language

You can change the display language of web interface.

Click 'Language' button and select one language. More languages may available in latest firmware file.



Chapter IV Troubleshooting

Please don't panic when you found this IP Camera is not working properly. Before you send this IP Camera back to us, you can do some simple checks to save your time:

Problem description	Possible solution(s)
Can't connect to IP Camera	<ol style="list-style-type: none">1) Please check the IP address of IP Camera again.2) Please make sure the network cable is correctly connected to your local area network.3) Please make sure power cable is correctly connected to IP Camera.4) Please make sure IP Camera is switched on (the LED lights on IP Camera will light up).
No IP Camera found	<ol style="list-style-type: none">1) 'Auto search' function only works on IP Cameras located on local area network.
No image	<ol style="list-style-type: none">1) If the place where IP Camera is installed is too dark, try to add some lights when possible.2) Check if there's anything covering the lens.
Image is fuzzy	<ol style="list-style-type: none">1) Check the lens and make sure it's clean. If it's dirty, use cloth with clean water to clean it, do not use alcohol or other chemical-based solution.2) Adjust focus ring until image looks clear.



CE Declaration:

This device corresponds to EU directive 1999/5/EC and 2006/95/EC: With the CE sign Logilink®, a registered trademark of the 2direct GmbH ensures, that the product is conformed to the basic standards and directives. These standards can be requested online on www.logilink.com. All trademarks and registered brands are the property of their respective owners.