

Door Station



User Manual

Table of Contents

Summary	3
Key Features	3
Trademark Acknowledgments	3
Other References	3
Chapter 1 System Overview	5
Chapter 1-1 System Requirements	5
Chapter 1-2 Software Requirements	5
Chapter 2 Before Accessing IP Cameras	6
Chapter 2-1 Configure IP Addresses using the IPScan Utility	6
Chapter 2-2 Configure IP Addresses through HTML Connection.....	6
Chapter 2-3 Web Browser Settings & Software Components Required.....	6
Chapter 2-4 Login	7
Chapter 3 IP Camera Operations	8
Chapter 3-1 HTML Operations	8
Chapter 3-2 IP Camera Main Controls	8
Chapter 3-2-1 Two-way Audio	9
Chapter 3-2-2 Record to a Local PC.....	9
Chapter 4 Basic Settings.....	10
Chapter 4-1 System	10
Chapter 4-1-1 General.....	10
Chapter 4-1-2 User	11
Chapter 4-1-3 Time	11
Chapter 4-2 Video / Audio	12
Chapter 4-2-1 General.....	12
Chapter 4-2-2 Quality Basic	13
Chapter 4-3 Network.....	13
Chapter 4-3-1 General.....	13
Chapter 4-3-2 General IPv6.....	14
Chapter 4-3-3 HTTP/RTSP Service	14
Chapter 4-3-4 HTTPS Service	15
Chapter 4-3-5 DDNS	15
Chapter 4-3-6 SNMP	16
Chapter 4-3-7 SIP	16
Chapter 4-4 Maintenance	17
Chapter 5 Advanced Mode	18
Chapter 5-1 System	18
Chapter 5-1-1 System Log	18

Chapter 5-2 Video/Audio Settings	18
Chapter 5-2-1 Quality Advance	18
Chapter 5-2-2 Day Night Mode Switch	19
Chapter 5-2-3 RS-485	20
Chapter5-2-4 Audio Adjust	20
Chapter5-2-5 Audio Playback.....	21
Chapter5-2-6 Lens Distortion Correction.....	21
Chapter 5-3 Network.....	21
Chapter 5-3-1 Multicast	22
Chapter 5-3-2 IP Address Filtering	22
Chapter 5-3-3 UPnP Settings.....	23
Chapter 5-3-4 Bonjour	23
Chapter 5-4 Event.....	23
Chapter 5-4-1 Motion Detection.....	24
Chapter 5-4-2 Tamper Detection	25
Chapter 5-4-3 Audio Detection	26
Chapter 5-4-4 Alarm Detection.....	26
Chapter 5-4-5 Network Detection	26
Chapter 5-4-6 Vandal Button	27
Chapter 5-4-7 Door Station.....	27
Chapter 5-4-8 Door Station Advance	27
Chapter 5-5 Notification	28
Chapter 5-5-1 FTP Service	28
Chapter 5-5-2 SMTP (Email) Service	28
Chapter 5-5-3 HTTP POST Service.....	29
Chapter 5-5-4 SD Card Service	29
Chapter 5-5-5 SD Card Backup	30
Appendix	31
DDNS and PPPoE Network Settings	31
Advanced Port Forwarding Technology	31
Restore to Factory Default	32
SD Card Compatibility	32
For iPhone Users	32
For Android Users	33

Summary

Door Station is an access control solution with an IP camera and high-quality intercom. These cameras adopt the latest compression technologies, which allow four simultaneous 1080p streams (Quadruple Streaming) in H.264 or MJPEG formats in different resolutions. Also, the built-in microphone with echoless function and two-way audio can monitor all guests and unwanted intrusions.

Our IP cameras are equipped with an intelligent video analytics engine that features sound detection and motion detection, which can send advanced alarm information that is compatible with other software and hardware. Moreover, the cameras provide two-way audio, SD card recording, mobile device live access, email notification with JPEG snapshots, and JPEG-to-FTP upload. Other features include progressive-scan, H.264 high-quality compressed video, day and night mode, and music playback (for the doorbell).

The Door Station also supports IPCamPlus, a video management application that maximizes the capabilities of the cameras and provides you with a comprehensive video management solution.

Key Features

- Supports various encoding formats (H.264 and MJPEG)
- Detection functions including motion, tamper, audio, alarm and network
- Multiple Streaming technology, supporting up to four concurrent streams
- Built-in intelligent video analytics engine that can send Email or FTP snapshot alarms
- Day/night video quality scheduling
- Two-way audio/video intercom
- Compatible with SIP protocols
- Bit rate and frame rate on-the-fly adjustment
- Supports Android, iPad, and iPhone mobile live monitoring
- Supports dynamic DNS (DDNS) and network time protocol (NTP)
- Supports HTTPAPI integration
- Supports G.711 (select models only)
- Supports ONVIF protocol
- Supports IPCamPlus,

Trademark Acknowledgments

Microsoft, Windows 2000, Windows XP, Windows Vista, Windows 7, ActiveX, and Internet Explorer are registered trademarks of Microsoft Corporation in the U.S. and/or other countries. Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries. Flash, Macromedia, and Macromedia Flash Player are either trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries. Linux and DynDNS are registered trademarks of the respective holders. Intel, Pentium, and Intel® Core™ 2 Duo are registered trademarks of Intel Corporation. FFmpeg is a trademark of [Fabrice Bellard](#), originator of the FFmpeg project. QuickTime and the QuickTime logo are trademarks or registered trademarks of Apple Computer, Inc., used under license there from. Other names of companies and their products mentioned in this manual may be trademarks or registered trademarks of their respective owners.

Other References

Mobile devices

For mobile surveillance, refer to the detail page of IPCamPlus on Apple App Store or Google Play.

Universal ActiveX Control

Sample codes and documents are included in the product CD and can be downloaded from our company website.

HTTP API

For non-ONVIF integration, see the HTTP API document. HTTP API is used in all our IP cameras.

Caution

- Do not drop or damage the equipment
- Do not install the equipment near fire or heat sources
- Keep the equipment from rain, moisture, smoke, or dust
- Do not cover the opening of the cabinet with cloth and/or plastic or install the unit in poorly ventilated places.
Allow 10cm between this unit and its surroundings
- Do not continue to operate the unit under abnormal conditions such as smoke, odor, or loss of signal whilst power is turned on
- Do not touch the power cord with wet hands
- Do not damage the power cord or leave it under pressure
- To avoid unnecessary magnetic interference, do not operate this unit near magnets, speaker systems, etc.
- All connection cables should be grounded properly



Chapter 1 System Overview

Chapter 1-1 System Requirements

Our IP cameras adopt compression technology that provide high compression rate and superior video quality. However, video performance depends highly on CPU power and network bandwidth for video streaming. The following sections specify the system requirements for using our IP cameras.

Chapter 1-2 Software Requirements

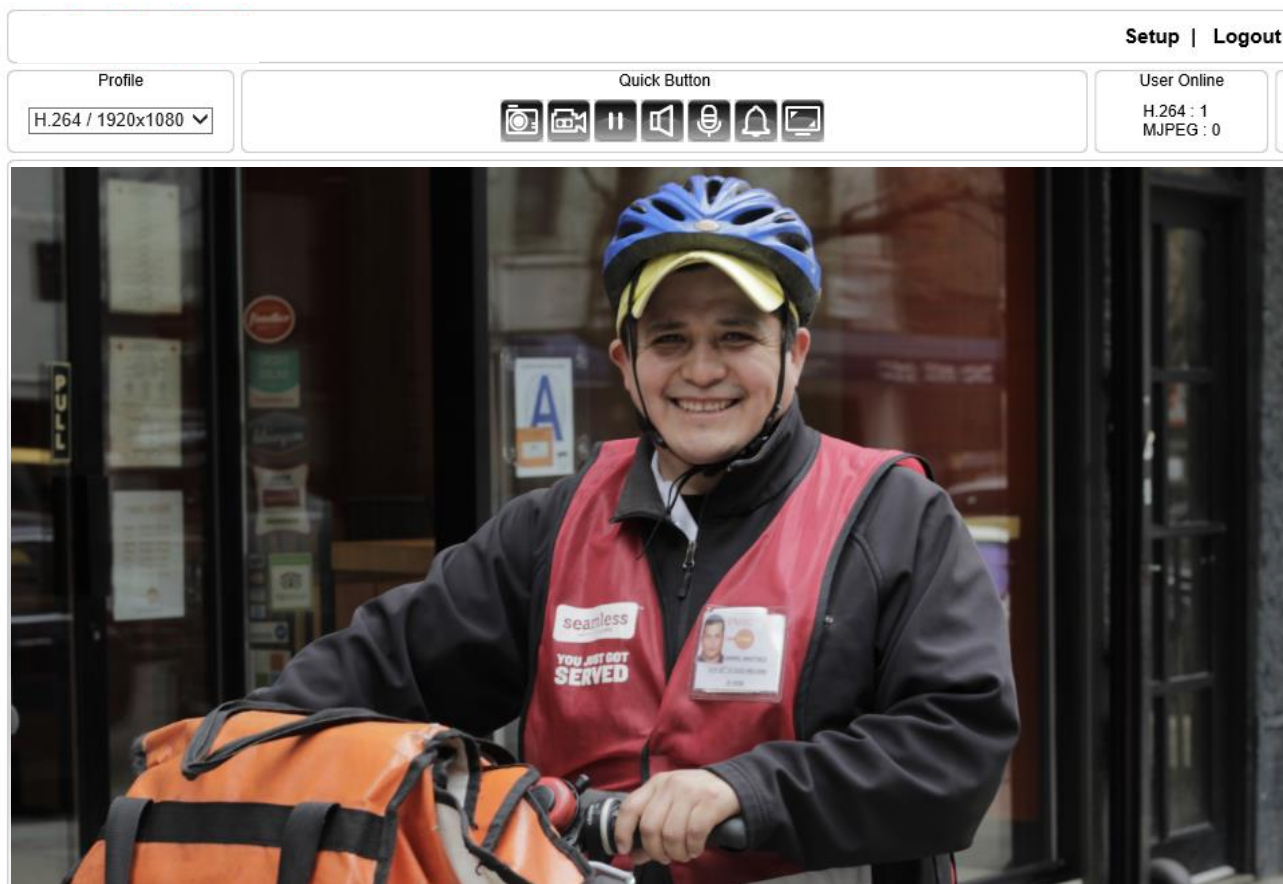
The Universal ActiveX software components or QuickTime are required for a web browser to display MJPEG or H.264 video. When you first log in to our IP camera, you may see a prompt box as below:



Click **Install** and follow the onscreen instructions to install necessary components.

Also, if necessary, download Flash Player in order to control the camera at

<http://www.adobe.com/products/flashplayer>



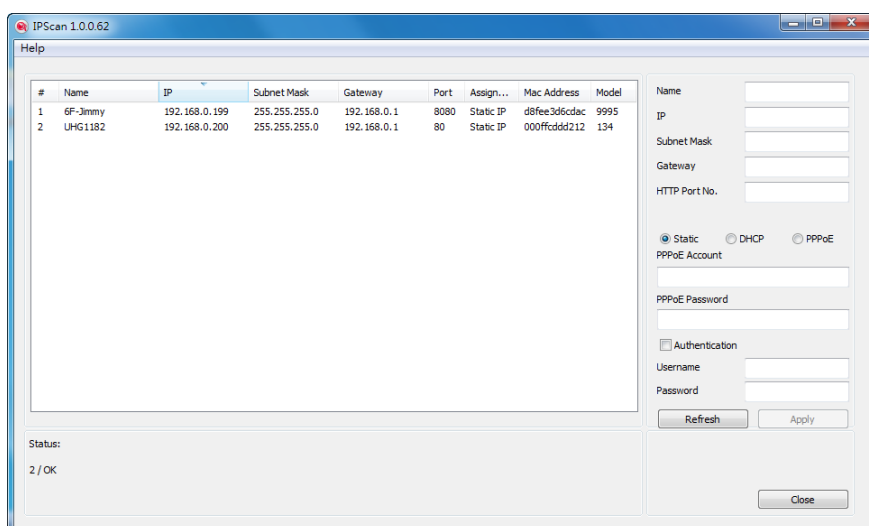
Chapter 2 Before Accessing IP Cameras

Before accessing the IP cameras, make sure that the camera's RJ-45 network connector, audio cable, and power cable are properly connected. To set the IP address, consult your network administrator. The default IP address for each IP camera is 192.168.0.200. Users can use the default IP address to verify the camera's network connection.

Chapter 2-1 Configure IP Addresses using the IPScan Utility

To configure the IP address of your cameras, simply execute the IPScan installer from the installation CD. To change the IP address, subnet mask, gateway, or HTTP port of your cameras, follow the steps below:

- Run the IPScan utility
- Click **Refresh**. All available devices will be listed on the screen
- Select the device item from the device list
- To edit or modify IP address, subnet mask, gateway, or HTTP port, use the box
- Click **Apply** for the changes to take effect
- Click **Refresh** again to verify the changed settings



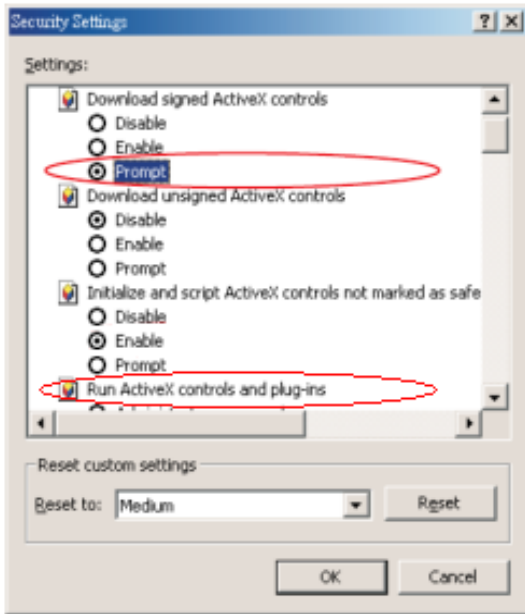
Chapter 2-2 Configure IP Addresses through HTML Connection

To change an IP address on a webpage, type the default IP address (192.168.0.200) into the browser address bar and follow the steps below:

- Log in to your IP camera using the default username **admin** and default password **pass**
- Click **Setup**→**Network** to edit or modify IP address, subnet mask, gateway, or HTTP port
- Click **Submit** for the changes to take effect.

Chapter 2-3 Web Browser Settings & Software Components Required

Make sure your Internet browser allows signed ActiveX plug-in to run on your PC. Set Download Signed ActiveX plug-in controls to Prompt and enable Run ActiveX control and plug-in. You can set this in **Internet Explorer**→**Tools**→**Internet Options**→**Security**→**Custom Settings**.



Once completed, you can access the IP camera's live video by entering the default IP address into your web browser. A security warning dialog box will appear. Click **OK** to download the ActiveX directly from the IP camera.

Chapter 2-4 Login

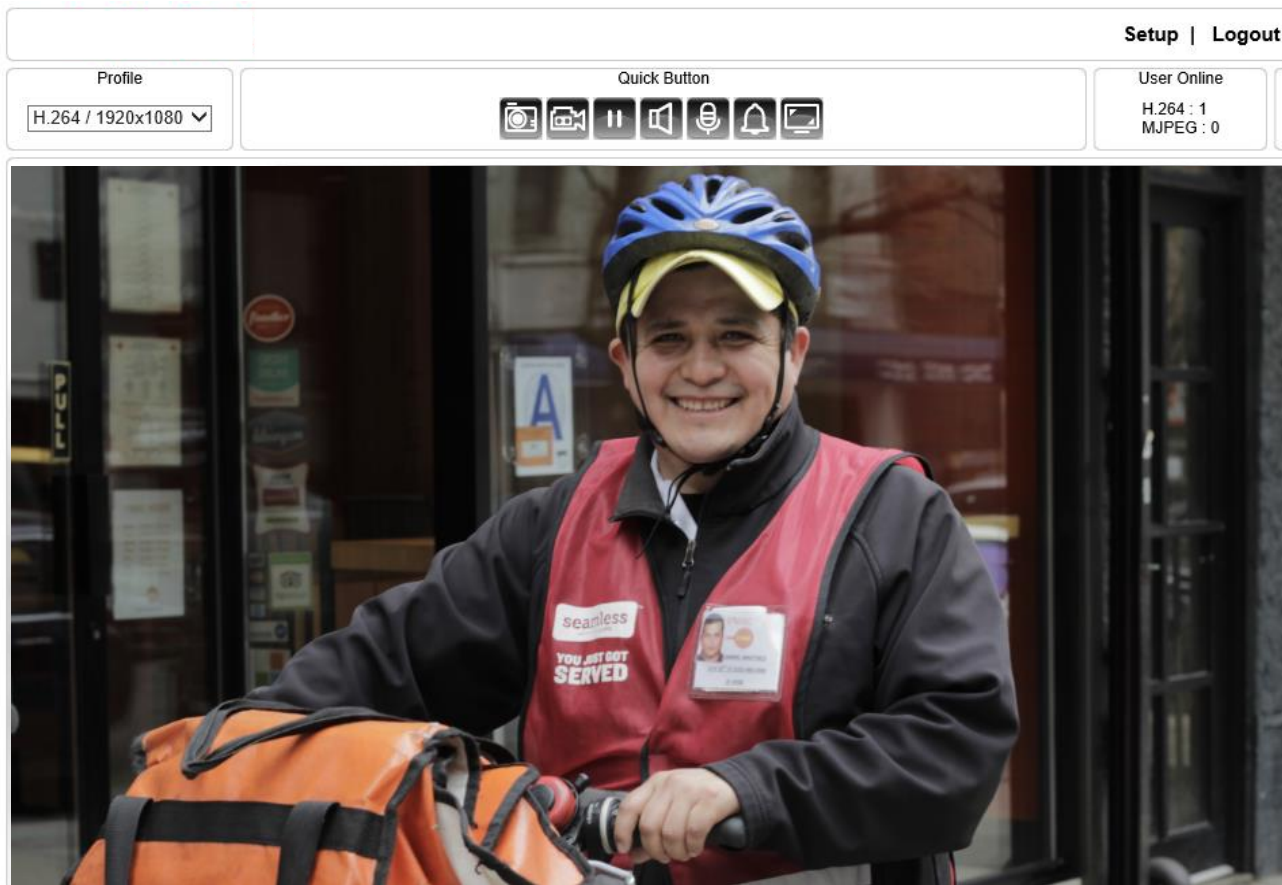
You can log in to the camera as administrator or guest. The default username for administrator is **admin**, and the password **pass**. Then press **submit** to log in.



Chapter 3 IP Camera Operations








When logged in as an administrator, you can control camera operations and adjust configurations.

Chapter 3-1 HTML Operations





Chapter 3-2 IP Camera Main Controls

The quick control panel buttons are described below:

	Take a snapshot of the video
	Start recording
	Pause recording
	Speaker on/off (for audio models only)
	Microphone on/off
	Alarm output
	Enlarge the live view

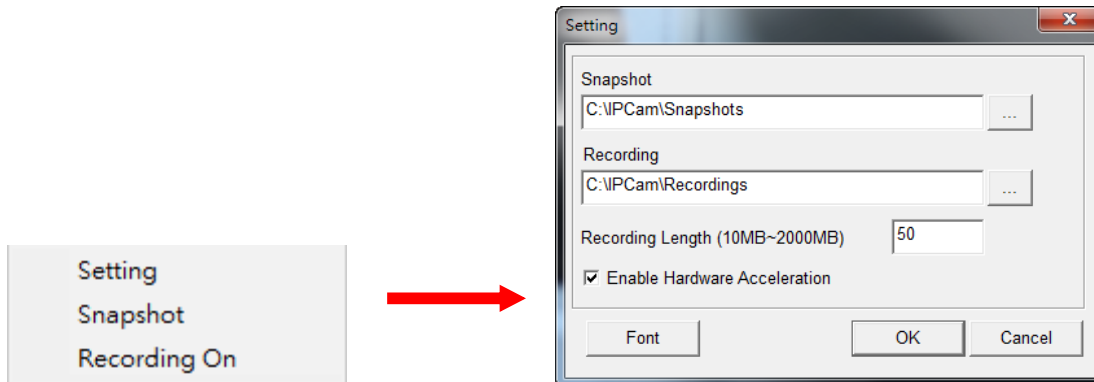
Chapter 3-2-1 Two-way Audio

For models supporting two-way audio, click the microphone icon  to speak to a remote site. Click the icon again to turn the microphone off.

Click the speaker icon  to monitor the audio of a remote site. Click the icon again to turn the speaker off.

Chapter 3-2-2 Record to a Local PC

To record to a local PC, right-click anywhere on the screen. Choose **Setting** to specify the recording paths and recording sizes, and choose **Recording On** to start recording.



Chapter 4 Basic Settings

As an administrator, you can configure the IP camera via a standard HTML webpage. Click **Setup** at the top-right corner of the screen after you log in to the camera.

Chapter 4-1 System

System

Video / Audio

Network

Maintenance

Chapter 4-1-1 General

Under **System Settings**→**General**, you will see server system information, such as MAC address, firmware version, user settings, and system time settings. To modify these options, follow the below instructions.

Advance >> System >> General

MAC Address	00:0f:fc:24:90:12
Firmware Version	3.1.66
OS Version	Linux 3.8
System Reboot Time	2017/01/11 07:33:42
Device Name	<input type="text"/>
OSD Font	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
OSD Timer	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Streaming 1:OSD Font Size	<input type="text" value="1"/> (Small:1~Large:4)
Streaming 2:OSD Font Size	<input type="text" value="1"/> (Small:1~Large:4)
Streaming 3:OSD Font Size	<input type="text" value="1"/> (Small:1~Large:4)
Streaming 4:OSD Font Size	<input type="text" value="1"/> (Small:1~Large:2)
ActiveX OSD Display	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
ActiveX OSD Name	<input type="text"/>
Web Title Name	<input type="text"/>
ActiveX Low Latency Mode	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<input type="button" value="Submit"/>	

- MAC Address: The MAC address of your camera.
- Firmware & CCD Firmware Version: Here you can see the version of your camera firmware, pan-tilt firmware, and CCD firmware. To update the firmware, see **Maintenance**.
- OS Version: The version number of your operating system.
- System Reboot Time: The last time your system was rebooted.
- Device Name: The device name can be found using the IPscan utility, which allows you to identify IP cameras. To change the device name, enter a new name for the IP camera and click **Submit**.
- OSD Font: Enable/disable to show/hide camera name on the OSD.
- OSD Time Status: Enable/disable to show/hide camera time on the OSD.
- Streaming: Adjust the font of the OSD.

- ActiveX OSD Display: Enable/disable to display/hide the device name.
- ActiveX OSD Name: The name you enter here will be displayed on the top-right corner of the ActiveX screen.
- Web Title Name: Enter the name to be displayed on the web browser.
- Active Low Latency Mode: Enable to reduce latency, if any.

Chapter 4-1-2 User

Our camera supports up to 10 user accounts. Each account can be individually configured for access rights. To add/edit a user, click **Add/Edit User**. To access an IP camera without authentication, switch the **Bypass Logon** option to **On**. Enable **IPScan Bypass Logon** to log in the camera through IPScan without authentication. To add a user, press **Add User**, and you will see the following screen:

Basic >> System >> User

Bypass Logon On Off
 IPScan Bypass Logon On Off

Account
 New Password
 Confirm Password
 User Group Administrator , Operator , Viewer
 Administrator
 Panel Control

Enter the account name and password for the new account, and then check to assign the access rights for this account. To edit account information, click **Edit User**. To delete a user, click **Remove User**. Click **Submit** to update the settings.

Chapter 4-1-3 Time

You can change the time of your camera through a HTML web page. Simply select the date and time in the drop-down menus, and click **Submit** to apply. You may also set the daylight saving time in this page.

Basic >> System >> Timer

Server Time Mon, 19 Jan 2015 15:07:35 GMT+0800

Synchronize with NTP Every Hour Off

Time Server

Time Zone

Time

Daylight Saving Time On Off

Start Date (Month/Date Hour)

End Date (Month/Date Hour)

Synchronize with an NTP server

To synchronize with an NTP server, change the **Synchronize with NTP** to **Every Hour**. The camera will

synchronize its system time with a time server every hour.

Note: This function requires Internet connection.

Chapter 4-2 Video / Audio

System
Video / Audio
Network
Maintenance

Chapter 4-2-1 General

To transmit video over a low bandwidth network such as the Internet, set the bit rate close to the actual upload bandwidth. The camera will encode frames based on the bit rate setting.

Basic >> Video / Audio >> General

Entropy Coding Mode : Main Profile High Profile
 Encoder2 : Enable Disable
 Encoder3/TV Out : Disable/(TV Out Enable) Enable/(TV Out Disable)
 Power Line Frequency : 60Hz 50Hz
 Image Enhance Mode :

Encoder1

Profile Name
 Resolution
 Output Frame Rate
 GOP (Group of Pictures)
 VBR/CBR Mode
 Bit Rate
 RTSPURL

Encoder3

Profile Name
 Resolution
 Output Frame Rate
 Image Quality
 RTSPURL

Encoder2

Profile Name
 Resolution
 Output Frame Rate
 GOP (Group of Pictures)
 VBR/CBR Mode
 Bit Rate
 RTSPURL

Encoder4

Profile Name
 Resolution
 Output Frame Rate
 Image Quality
 RTSPURL

- Entropy Coding Mode: Choose between standard- (**Main Profile**) and good-quality (**High Profile**) encoders
- Encoder2: Apply secondary encoder.
- Encoder3/TV Out: Switch to **TV Out**.
- Power Line Frequency: Switch between NTSC/PAL video systems.
- Image Enhance Mode: Switch to HDR.
- Profile Name: Switch between H.264 and MJPEG.
- Resolution: Switch between 1920x1080, 1280x960, 1280x720, and 720x480.
- Output frame rate: The frame rate of the video

- GOP: The number of I-frames to be displayed in one second
- VBR: Variable bit rate, an encoding mode that reduces the use of bandwidth; CBR: constant bit rate, an encoding mode that consumes more bandwidth
- Bit rate: The maximum bit rate available for your network connection.
- RTSP URL: Allows you to see the video stream through the Real Time Streaming Protocol.

Chapter 4-2-2 Quality Basic

This menu allows you to adjust brightness, auto contrast, contrast, hue, saturation, and sharpness both for the Day Mode and Night Mode. Individual day/night settings ensure the camera to provide optimal video quality.

Day Mode
Night Mode

Brightness : 53 (Low / High)

Contrast : 45 (Low / High)

Hue : 50 (Low / High)

Saturation : 50 (Low / High)

Sharpness : 22 (Low / High)

Chapter 4-3 Network

System
Video / Audio
Network
Maintenance

Chapter 4-3-1 General

Network settings are the basic settings that link our IP cameras to the network. The default IP address of our IP cameras is 192.168.0.200. Enter this IP address into your web browser to verify the network connection between a local PC and your IP camera.

To set up a local area network, enter the IP address, subnet mask, gateway, and DNS. Also enter account name and password if you are using PPPoE to connect to the network. Click **Submit** to update the settings.

Basic >> Network >> General

Network Static DHCP PPPoE

IP Address

Subnet Mask

Gateway

Default DNS

Second DNS

Account

Password

QoS(DSCP) (0~63)

2nd IP Address Enable Disable

2nd IP Address

2nd Subnet Mask

3rd IP Address Enable Disable

3rd IP Address

3rd Subnet Mask

To acquire Internet access, contact your local Internet Service Provider (ISP) for a global IP address. Enter the IP address (global), subnet mask, and gateway IP provided by your ISP.

- IP Address: The IP address you're using.
- Subnet Address: The subnet address you're are using.
- Default DNS—The IP address of the default and first DNS server
- Second DNS IP Address—The IP address of the backup and second DNS server to the default DNS
- Account—Username of the PPPoE service
- Password—Password of the PPPoE service
- QoS: Enter a value between 0-63 to prioritize the bandwidth usage.
- If a second or third IP address is available, please activate and enter an address.

A router, gateway, or other DHCP software server can remotely assign an IP address to your IP camera. There is no need to manually configure the IP address, subnet mask, and gateway. However, every time the DHCP service is rebooted, the IP address of the IP camera may vary. You may need to use IPscan to search for the IP camera. To enable DHCP, click the **DHCP** option and click **Submit**.

Chapter 4-3-2 General IPv6

Basic >> Network >> General IPv6

Network	<input type="radio"/> On <input checked="" type="radio"/> Off	
IP Address	<input type="text" value="fe80::000f:fc24:9000"/>	<input type="text" value="64"/>
Default Router	<input type="text"/>	
Default DNS	<input type="text"/>	
<input type="button" value="Submit"/>		

Enter the required information to activate IPv6.

Chapter 4-3-3 HTTP/RTSP Service

Basic >> Network >> HTTP/RTSP Service

HTTP Port	<input type="text" value="80"/>
RTSP Port	<input type="text" value="554"/>
ONVIF search	<input checked="" type="radio"/> On <input type="radio"/> Off
RTSP Package Size	<input type="text" value="1"/> KB
METADATA	<input type="radio"/> On <input checked="" type="radio"/> Off
RTCP Check	<input type="radio"/> On <input checked="" type="radio"/> Off
Repeated delivery of SPS/PPS	<input checked="" type="radio"/> On <input type="radio"/> Off
RTSP Authentication	<input checked="" type="radio"/> On <input type="radio"/> Off
Video Port	<input checked="" type="radio"/> HTTP Port <input type="radio"/> RTSP/UDP Port
Encoder1	<input type="text" value="stream0"/>
Encoder2	<input type="text" value="stream1"/>
Encoder3	<input type="text" value="stream2"/>
Encoder4	<input type="text" value="stream3"/>
<input type="button" value="Submit"/>	

HTTP and RTSP are two reliable protocol for video streaming. With correct port forwarding, videos can be sent over the Internet. Details are described in the appendix. To change the HTTP port number, consult your network administrator. Choose the streaming type you want to use (HTTP or RTSP/UDP). Click **Submit** for the changes to take effect.

Settings on this page are described below:

- HTTP Port: The default is 80.

- RTSP Port: The default is 554.
- ONVIF: Turn on/off ONVIF search function.
- RTSP Package Size: Choose the size of each RTSP package depending on your bandwidth.
- METADATA: Enable/disable METADATA.
- RTCP Check: Enable to send RTCP packages for transmission optimization.
- Repeated Delivery of SPS/PPS: Enable to send SPS/PPS information before I frames.
- RTSP Authentication: Enabling this option will require username and password when connecting to the RTSP stream.
- Video Port: Choose between HTTP or RTSP/UDP for your stream.
- Encoder: Change the profile name.

Chapter 4-3-4 HTTPS Service

Basic >> Network >> HTTPS Service

HTTPS Service Enable Disable

Save

Enable to load the secure encryption webpage.

Chapter 4-3-5 DDNS

Advance >> Network >> DDNS

DynDNS
DDNS Enable Disable
Account
Password
Host name
<http://249012>

Submit

The DDNS service allows you to automatically update the DNS server. We provides two DDNS servers to choose from (we recommend you use the first one from the drop-down menu). Click **Submit** for the changes to take effect.

To activate DDNS, go to www.dyndns.org. If the IP camera is on Internet with a global IP address, use the last 6 digits of the MAC address as the host name with default account and the default password,. The IP camera will automatically register to www.dyndns.org.

Note: The DDNS feature requires Internet connection.

Chapter 4-3-6 SNMP

Basic >> Network >> SNMP

SNMP	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
SNMP v1/v2	
Read Only Community	<input type="text" value="public"/>
Read/Write Community	<input type="text" value="private"/>
SNMP v3	
Username	<input type="text" value="admin"/>
Authentication Password(MD5)	<input type="text" value="password"/>
Privacy Password(DES)	<input type="text" value="password"/>
Read/Write Security Name	<input type="text" value="public"/>
Read Only Security Name	<input type="text" value="private"/>
SNMP Heartbeat	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
SNMP Heartbeat Server	<input type="text" value="255.255.255.255"/>
SNMP Heartbeat Dwell Time	<input type="text" value="1"/> Sec.

Enable to activate SNMP service. Modify the fields to suit your needs, and click **Submit** for the changes to take effect.

Chapter 4-3-7 SIP

Basic >> Network >> SIP

VOIP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
SIP Domain Server	<input type="text" value="sipserver.com"/>
Registration Username	<input type="text" value="admin"/>
Registration Password	<input type="text" value="••••"/>
Registration Expires	<input type="text" value="30"/> <input type="button" value="v"/>
SIP Port	<input type="text" value="5060"/>
Audio RTP-Port	<input type="text" value="7078"/>
Video RTP-Port	<input type="text" value="9078"/>

Extension	<input type="text" value="Ext. 1"/> <input type="button" value="v"/>
Remote Username	<input type="text" value="6000"/>
Remote IP	<input type="text" value="192.168.0.100"/>
Remote Port	<input type="text" value="5060"/>

Call Status: Not Ready

This device supports **Session Initiation Protocol (SIP)** as Internet intercom. Fill in the required fields according to your SIP domain server for additional information including IP address and relevant ports.

Enter the required fields for the Internet device you want to call and press **Submit**. Refresh the webpage and make sure the **Call Status** becomes **Ready** to connect the call.

Chapter 4-4 Maintenance

System

Video / Audio

Network

Maintenance

Advance >> Maintenance >> Firmware Update

Please do not turn off power and wait until this web page shows up automatically. Fail to update firmware correctly due to network communication issue that it may damage this machine and is required to ship back to your vender for repair.

File System(flashS2L.bin/flashIS2L.bin)

flashamS2L.bin:Application Firmware

flashamIS2L.bin:Linux OS

瀏覽...
Upload 0%

Export Settings

Import Setting 瀏覽...

Load Default
Reboot System

In the **Maintenance** page, you can click **Load Default** to restore the camera to factory settings, or click **Reboot System** to restart the camera. Restoring to factory settings does not affect IP addresses.

To update the firmware of your IP camera, click **Browse** and locate the update file. Click **Submit** to start the firmware update.

Warning: Never disconnect the power during the update. This could cause irreversible damage to your device.

Note: If you forget your password, please contact your vendor or send the device to us.

Chapter 5 Advanced Mode

The **Advanced Mode** provides several professional settings that are not available in the **Basic Mode**.

Chapter 5-1 System

System

Video / Audio

Network

Event

Notification

Maintenance

Chapter 5-1-1 System Log

You can view the system-generated log in this page. Click **Save** to export the log to a text file.

Advance >> System >> System Log

Log Page 1

1.	192.168.0.1	2012/10/23 20:17:44	USER LOGOUT
2.	192.168.0.1	2012/10/23 20:17:41	USER LOGIN
3.	192.168.0.1	2012/10/23 20:05:01	USER LOGOUT
4.	192.168.0.1	2012/10/23 19:50:15	USER LOGIN
5.	192.168.0.1	2012/10/23 19:50:11	USER LOGOUT
6.	192.168.0.1	2012/10/23 19:50:09	USER LOGIN

Chapter 5-2 Video/Audio Settings

System

Video / Audio

Network

Event

Notification

Maintenance

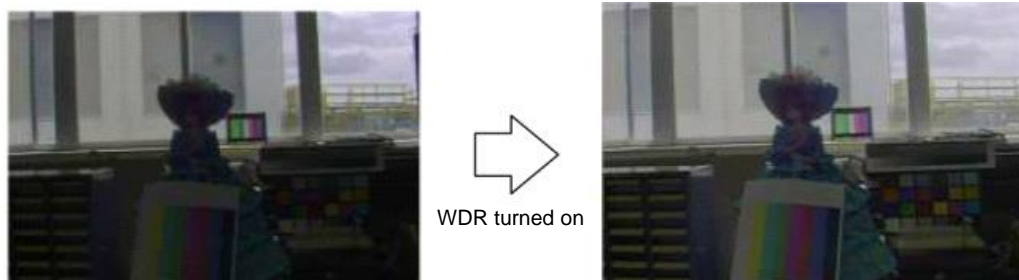
Chapter 5-2-1 Quality Advance

Day Mode

Night Mode

White Balance Control	Auto ▼
Mirror	Off ▼
Flip	Off ▼
Exposure Value	5 ▼
WDR	Off ▼
Shutter Limit(sec):	Min 1/8000 ▼ Max 1/50 ▼
Auto Gain Control(SENSE UP+)	36dB ▼
3D Noise Reduction	10 ▼
Sense Up	Off ▼
Color Mode	Black/White ▼
IR LED	50 ▼
IR Cut Filter	Off ▼
<input type="button" value="Load Default"/>	

- White Balance Control: Switch between auto more or four white balance options (tungsten, indoor, fluorescent, and outdoor).
- Mirror: Turn **On** to invert the screen horizontally.
- Flip: Turn **On** to invert the screen vertically.
- Exposure Value: Adjust the EV for optimal exposure.
- WDR: The Wide Dynamic Range function enhances back-lighted subjects to capture more details.



- Shutter Limit: Control the maximum and minimum value for the shutter.
- Auto Gain Control (SENSE UP+): The settings are **6dB**, **12dB**, **18dB**, **24dB**, **30dB**, **36dB**, and **42dB**, with a default of **36dB**.
- 3D Noise Reduction: Be sure to activate the function to reduce the noise occurred when shooting under low-light environments or using slow shutter. The settings are **Off** or **1–32**, with a default of **10**.
- Sense Up: Switch between **Off**, **1 Frame**, **2 Frames**, **3 Frames**, and **7 Frames**.
- Color Mode: Switch between **Black/White** and **Color**.
- IR LED: Adjust the intensity of the IR LED.
- IR Cut Filter: **Off** for night illumination and **On** for daytime usage.

Chapter 5-2-2 Day Night Mode Switch

Advance >> Video / Audio >> Day Night Mode Switch

Auto , Switch Delay Time Sec.
 Light sensor current value 23
 Day to Night Threshold
 Night to Day Threshold

Day Mode
 Night Mode
 Schedule

Avoid Motion Detection at IR Switching Enable Disable

Avoid Motion Detection Dwell at IR Switching Sec.

- Auto: Set the delay time to 1, 2, 5, 15, 20, and 30, and also assign a threshold value for switching between day/night mode.
- Day Mode: Switch instantly to **Day Mode**.
- Night Mode: Switch instantly to **Night Mode**.
- Schedule: Assign the time for the switch to change automatically.
- Avoid Motion Detection at IR Switching: **Enable** to turn off motion detection.
- Avoid Motion Detection Dwell at IR Switching: Determine the dwell time for avoiding the detection.

Chapter 5-2-3 RS-485

Advance >> Video / Audio >> RS-485

Baud Rate	9600 ▾
Bits of Data	8 ▾
Parity	none ▾
Stop bit	1 ▾

Save

Choose the corresponding options for your devices.

Chapter5-2-4 Audio Adjust

Advance >> Video / Audio >> Audio Adjust

Audio Adjust	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
MIC Volume	50 ▾
Audio Input Gain	0 dB ▾
Audio Input Filter	1 ▾
Audio Output Volume	50 ▾
Audio Coding Type	G711 u-law
Sampling Rate	8000 Hz ▾
Bit Rate	16 kbit/s

Submit

Detailed audio settings are described below:

- Audio Adjust: Choose **Enable** to turn on audio adjust.
- MIC Volume: Adjust the volume of the MIC.
- Audio Input Gain: Level of gain for audio input.
- Audio Input Filter
- Audio Output Volume: Volume adjustment.
- Audio Coding Type: G.711 u-Law.
- Sampling rate: The sampling rate has been set to 8000 Hz.
- Bit Rate: The bit rate has been set to 16 Kbit/s.

Chapter5-2-5 Audio Playback

Advance >> Video / Audio >> Audio Playback

Upload Files	File	Test
Name: <input type="text" value="Ring"/> <input type="text"/> <input type="button" value="浏览..."/> <input type="button" value="Upload"/> <input type="button" value="Delete"/>	Ring.wav	<input type="button" value="Play"/> <input type="button" value="Stop"/>
Name: <input type="text" value="Barking"/> <input type="text"/> <input type="button" value="浏览..."/> <input type="button" value="Upload"/> <input type="button" value="Delete"/>	Barking.wav	<input type="button" value="Play"/> <input type="button" value="Stop"/>
Name: <input type="text" value="Siren"/> <input type="text"/> <input type="button" value="浏览..."/> <input type="button" value="Upload"/> <input type="button" value="Delete"/>	Siren.wav	<input type="button" value="Play"/> <input type="button" value="Stop"/>
Name: <input type="text"/> <input type="text"/> <input type="button" value="浏览..."/> <input type="button" value="Upload"/> <input type="button" value="Delete"/>		<input type="button" value="Play"/> <input type="button" value="Stop"/>
Name: <input type="text"/> <input type="text"/> <input type="button" value="浏览..."/> <input type="button" value="Upload"/> <input type="button" value="Delete"/>		<input type="button" value="Play"/> <input type="button" value="Stop"/>

Please note as below:

1. User should be able to upload up to five audio files.
2. The maximum size of audio file must be less than 3MB.
3. The upload audio file must be WAV format.
4. The sampling rate of audio file must be 8000Hz, 16000Hz, 32000Hz, 44100Hz.
5. The quantization bit of audio file must be 16 bit.
6. The channel of audio file must be Mono.

Click **Browse** to upload or remove music. See notes under the webpage for more details.

Chapter5-2-6 Lens Distortion Correction

Lens Distortion Correction Mode Enable Disable

Strength : 80 (Low / High)



Zoom : 50 (In / Out)



Choose **Enable** to turn on the lens distortion function. Select the intensity and zoom level according to your needs.

Chapter 5-3 Network

System

Video / Audio

Network

Event

Notification

Maintenance

Chapter 5-3-1 Multicast

Advance >> Network >> Multicast

Encoder1	Multicast	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
	IP Address	<input type="text" value="239.0.0.0"/>
	Video Port	<input type="text" value="1234"/> (2~65534)
	Video Port(RTCP)	<input type="text" value="1235"/> (2~65534)
	Audio Port	<input type="text" value="1236"/> (2~65534)
	Audio Port(RTCP)	<input type="text" value="1237"/> (2~65534)
	TTL	<input type="text" value="5"/> (1~255)
Encoder2	Multicast	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
	IP Address	<input type="text" value="239.0.0.1"/>
	Video Port	<input type="text" value="1238"/> (2~65534)
	Video Port(RTCP)	<input type="text" value="1239"/> (2~65534)
	Audio Port	<input type="text" value="1240"/> (2~65534)
	Audio Port(RTCP)	<input type="text" value="1241"/> (2~65534)
	TTL	<input type="text" value="5"/> (1~255)
Encoder3	Multicast	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
	IP Address	<input type="text" value="239.0.0.2"/>
	Video Port	<input type="text" value="5568"/> (2~65534)
	Video Port(RTCP)	<input type="text" value="5569"/> (2~65534)
	Audio Port	<input type="text" value="5570"/> (2~65534)
	Audio Port(RTCP)	<input type="text" value="5571"/> (2~65534)
	TTL	<input type="text" value="5"/> (1~255)
Encoder4	Multicast	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
	IP Address	<input type="text" value="239.0.0.3"/>
	Video Port	<input type="text" value="5572"/> (2~65534)
	Video Port(RTCP)	<input type="text" value="5573"/> (2~65534)
	Audio Port	<input type="text" value="5574"/> (2~65534)
	Audio Port(RTCP)	<input type="text" value="5575"/> (2~65534)
	TTL	<input type="text" value="5"/> (1~255)

Our cameras support video streaming of 4 different content formats. Under this page, you can configure the settings for individual streams.

Chapter 5-3-2 IP Address Filtering

The IP cameras provide an IP address filter to help you block unauthorized IP addresses from accessing the camera. Enable the service before you enter the IP address you want to block, and press **Add**. Click **Delete** to remove an IP address from the list.

Advance >> Network >> IP Address Filtering

IP Address Filtering Enable Disable

IP Address

192.168.0.100

Chapter 5-3-3 UPnP Settings

The UPnP service is a network protocol that allows Windows PC users to access IP cameras in a LAN environment. To activate the UPnP service, choose **Enable** to activate.

Basic >> Network >> UPnP

UPnP Service Enable Disable

Friendly Name UPnP IPCam Device

In Windows, go to **Network**→**File Explorer** to see the IP cameras via the UPnP protocol.

Chapter 5-3-4 Bonjour

Bonjour is Apple’s implementation of zero-configuration networking protocol. Click **Enable** to activate this service.

Advance >> Network >> Bonjour

Bonjour Enable Disable

Friendly Name

Chapter 5-4 Event

- System
- Video / Audio
- Network
- Event
- Notification
- Maintenance

Here you can configure the detection settings for motion, tamper, sound, alarm, and network failure. Choose an event type in the drop-down menu, then click **Edit Event**.

Advance >> Event >> Event

Event Name

Event	Status	FTP	SMTP	SD Card	Alarm Output	HTTP POST	SNMP Trap	Push Service	Schedule
Motion Detection	Enable			V					Auto
Tamper Detection	Disable								Auto
Audio Detection	Enable			V					Auto
Alarm Detection	Enable			V					Auto
Alarm Detection 2	Enable			V					Auto
PIR	Enable			V					Auto
Ring Button	Enable			V					Auto
Network Detection	Disable	-	-			-	-	-	Auto

Then the page you see allows you to choose the action to take when the chosen events are detected, such as sending JPEG images to an FTP server or an email account, and/or triggering SD card video recording. To schedule event monitoring, choose **Schedule** when you edit an event and highlight the time periods you want the camera to detect events. Click **Submit** for the changes to take effect.

Advance >> Event >> Event

Event **Motion Detection**

Enable

Action

- FTP Service Dwell Time Sec.
- SMTP Service Dwell Time Sec.
- SD Card Service Dwell Time Sec.
- Alarm Output Dwell Time Sec.
- HTTP POST Service Dwell Time Sec.
 HTTP POST Service : URL
- SNMP Trap Service
- Push Service Dwell Time Sec.

Schedule

Always

Schedule

	0:00	6:00	12:00	18:00
Sun				
Mon				
Tue				
Wed				
Thu				
Fri				
Sat				

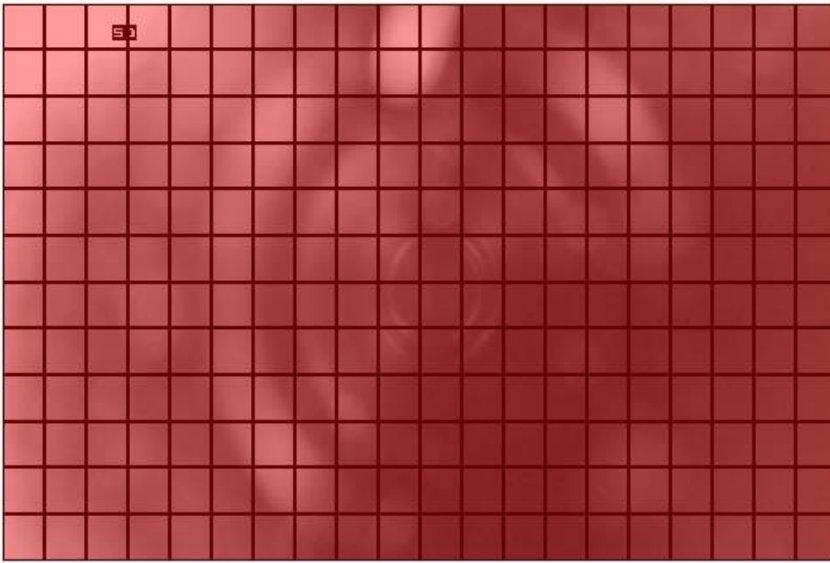
Event Schedule
 Not Scheduled

- FTP Service: When an alarm is triggered, snapshots will be sent to a pre-determined FTP site during the specified time.
- SMTP Service: When an alarm is triggered, snapshots will be sent to pre-determined Email addresses during the specified time.
- SD Card Service: When an alarm is triggered, snapshots will be saved to the inserted SD card during the specified time.
- Alarm Output: When an alarm is triggered, alarm notifications will be sent to the external device connected to the camera during the specified time.
- HTTP POST Service: Enter a URL, and when an alarm is triggered, snapshots will be posted to the website during the specified time.
- Push Service: Receiving push notifications on mobile devices.

Chapter 5-4-1 Motion Detection

Once the above configurations are set, click **Motion Detection** to determine the areas to monitor. First, **Enable** to activate the function and determine the sensitivity. Next, simply double-click or drag across the areas you want to monitor, and cancel your selection by double-click again or drag across the areas you don't want to monitor with the right mouse button.

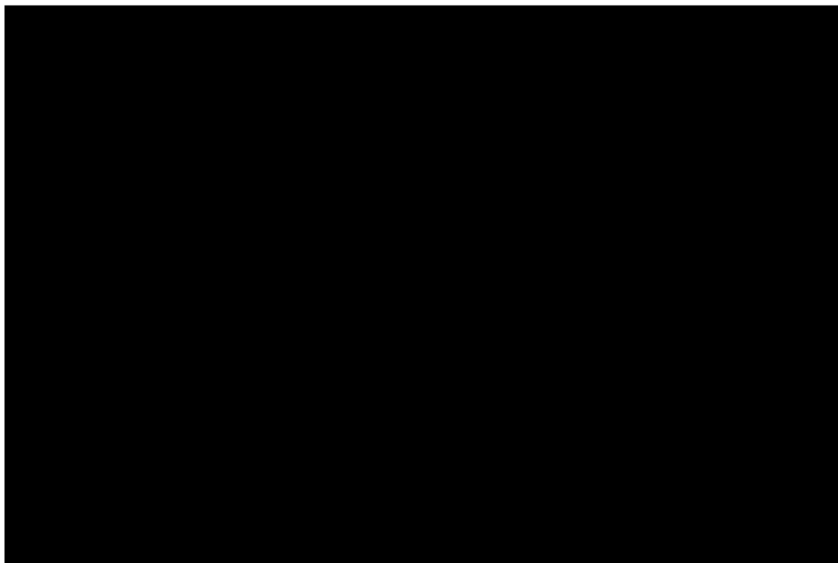
Advance >> Event >> Motion Detection



Motion Detection Enable Disable
Motion Sensitivity(Low:99~High:1)

Chapter 5-4-2 Tamper Detection

Advance >> Event >> Tamper Detection



Tamper Detection Enable Disable
Tamper Detection Time Sec.
Tamper Detection Dwell Sec.

Choose **Enable** to turn on tamper detection. Also, remember to specify the time and dwell of the surveillance.

Chapter 5-4-3 Audio Detection

Advance >> Event >> Audio Detection



Audio Detection Enable Disable

Audio Detection OSD Enable Disable

Audio Detection Trigger Level
(Easy:1~Hard:99) 50 ▼

Audio Detection Sensitivity
(Low:1~High:99) 52 ▼

Submit

When the detected sound exceeds the sensitivity level, the audio detector will trigger an alarm and send a notification.

- Audio Detection: Click **Enable** to activate audio detection.
- Audio Detection OSD: Show a bar when the level of sound exceed the detection threshold.
- Audio Detection Trigger Level: Determine the level for the alarm to be triggered.
- Audio Detection Sensitivity: Determine the sensitivity of the sensor.

Chapter 5-4-4 Alarm Detection

If you connect an external alarm digital input to the IP camera, enable **Alarm Notification** and switch between **NO** (normally open) and **NC** (normally closed) for the input.

Advance >> Event >> Alarm Detection

Alarm Notification Enable Disable

Alarm Input Mode NO NC

Alarm Notification 2 Enable Disable

Alarm Input Mode 2 NO NC

Submit

Chapter 5-4-5 Network Detection

Enable this option to send a notification upon network failure.

Advance >> Event >> Network Detection

No Network Activity Enable Disable

Submit

Chapter 5-4-6 Vandal Button

Advance >> Event >> Vandal Button

Vandal Button Enable Disable

Submit

Choose **Enable** to activate the vandal button when the Door Station is removed or vandalized.

Chapter 5-4-7 Door Station

Advance >> Event >> Door Station

Event Name Dialed In Edit Event

Event	Button LED	White LED	Audio Playback
Dialed In	V		Ring
Dialed Out	V		
PIR	V	V	
Ring Button	V	V	

Click **Edit Event** to enter individual settings. Available settings are as below:

Advance >> Event >> Door Station

Event Name Dialed In

Button LED Off On Flashing Dwell Time 5 Sec.

Night

Constant On

White LED Off On Dwell Time 1 Sec.

Audio Playback Ring

SIP Extension 0

Submit Cancel

- Button LED: Set the button to **Off**, **On**, or **Flashing** (including dwell time settings). You can also change the button to **Night** mode or **Constant on**.
- White LED: Click **On** to turn on the white LED for visitor illumination (including dwell time settings)>
- Audio Playback: Play default or uploaded songs as the doorbell.
- SIP Extension: Assign the door station to one of the SIP extension device.

Chapter 5-4-8 Door Station Advance

Advance >> Event >> Door Station Advance

PIR Enable Disable

PIR Sensitivity 50 (Low:100 ~ High:1)

Strength of White LED 1 (Low:1~High:10)

White LED mode Not action in the day mode.

Not action in the night mode.

Action in the day and night mode

Submit

- PIR: **Enable** or **Disable** the IR motion sensor.
- PIR Sensitivity: Adjust the sensitivity of the sensor.
- Strength of White LED: Adjust the power of the white LED.
- White LED mode: Choose one of the activation method for the LED.

Chapter 5-5 Notification

System

Video / Audio

Network

Event

Notification

Maintenance

Chapter 5-5-1 FTP Service

Enter the required FTP information to send alarm snapshots to an FTP server.

Advance >> Notification >> FTP Service

FTP Server IP/DNS	<input type="text" value="ftp.server.com"/>
FTP Server Port	<input type="text" value="21"/>
Account	<input type="text" value="Account"/>
Password	<input type="password" value="••••••"/>
Directory	<input type="text" value="/alarm_jpeg/"/>
Prefix	<input type="text"/>
Date Format	<input type="text" value="YYMMDD_hhmmss"/> ▼
Postfix	<input type="text"/>
File Format	<input type="text" value="JPEG480P"/> ▼
Auto FTP Sent	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Auto FTP Sent Dwell	<input type="text" value="1 Hour"/> ▼

- FTP server IP/DNS— IP address or domain name of the FTP server
- Account— account name to log in to the FTP server
- Password— password of the account
- Directory—file path for storing the JPEG snapshots
- Prefix—prefix of the JPEG filename
- Date format—date string for the JPEG filename
- Postfix—postfix of the JPEG filename

Chapter 5-5-2 SMTP (Email) Service

If an alarm is triggered, you can send a snapshot to the email account(s) you designate. Enter the required information to enable this service.

Advance >> Event >> SMTP Service

E-mail Receiver Setting

E-mail Address1

E-mail Address2

E-mail Address3

E-mail Address4

E-mail Address5

E-mail Sender Setting

E-mail Address

SMTP Server

SMTP Authentication AUTH LOGIN AUTH SSL

SMTP Port

Authentication Enable Disable

Auth Account

Auth Password

Chapter 5-5-3 HTTP POST Service

Through the POST protocol, the camera can automatically send notification snapshots to a website if an alarm is triggered.

Advance >> Notification >> HTTP POST Service

HTTP POST Server IP/DNS

HTTP POST Server Port

Account

Password

JPEG Attachment Enable Disable

Attachment File Format Fixed Date

Attachment File Name

Chapter 5-5-4 SD Card Service

Ensure an SD card is properly installed to the camera before you enable the SD recording option. The camera will start recording videos when an alarm occurs.

Advance >> System >> SD Card Service

SD Recording On Off

SD Recording OSD On Off

SD Recording Continuous On Off

Recording Format

Pre Record Time Sec.

SD Card Status NORMAL

SD Card State SD Card No Plug In

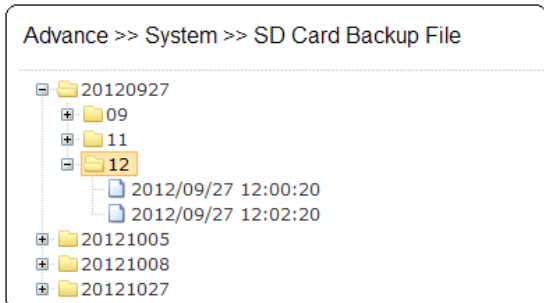
SD Card Total Bytes 0 MBytes

SD Card Free Bytes 0 MBytes

Warning: Ensure to click **Unmount** before removing the SD card, or the system may crash.

Chapter 5-5-5 SD Card Backup

To download a specific clip, right-click the file you want to download and save the AVI file to a local PC.

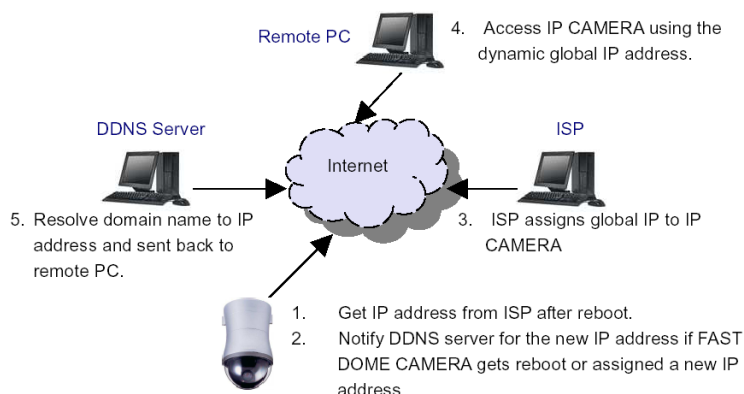


Appendix

DDNS and PPPoE Network Settings

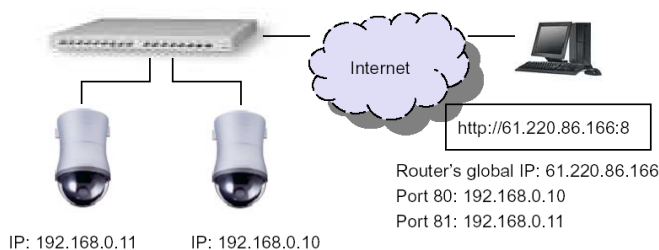
One of the advantages of dopting DDNS and PPPoE services is to save the cost of renting a global IP address. When you power on a camera with a video server and connect to the Internet with the PPPoE service, the camera asks your ISP for a dynamic global IP address. This Internet-accessible IP address will be renewed by the ISP every time you log on the Internet.

Whenever the IP is changed, the camera with the video server will notify the DDNS server of your new IP address. A remote user who intends to connect to the camera with the video server can enter the domain name in the web browser. The domain name will be translated to a new IP address to be used by the camera.



Advanced Port Forwarding Technology

Communication port forwarding technology has been widely used to share a global Internet IP to other devices on the network. The infrastructure of this technology is shown in the below figure, in which the port 80 of the IP router is forwarded to the device with an IP of 192.168.0.10, and the port 81 of the router is forwarded to the device with an IP of 192.168.0.11. When a remote PC on the Internet tries to access the port 81, the user is actually accessing 192.168.0.11, private IP of given by the router.



Restore to Factory Default

To restore the IP camera to the factory default, follow the below procedures:

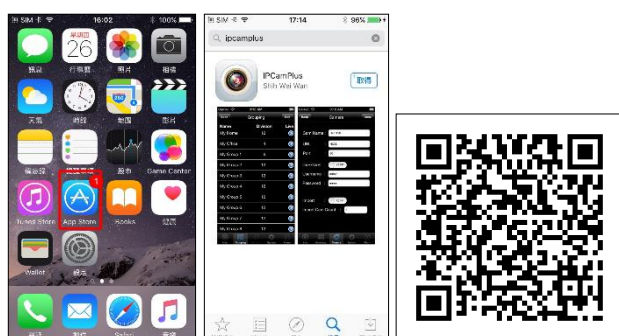
1. Press and hold **Load Default** button for 10 seconds before releasing.
2. The camera will restart.
3. Launch to IPScan Utility to search for the IP camera.
4. Access the IP camera via an Internet browser.
5. Enter the default username and password.

SD Card Compatibility

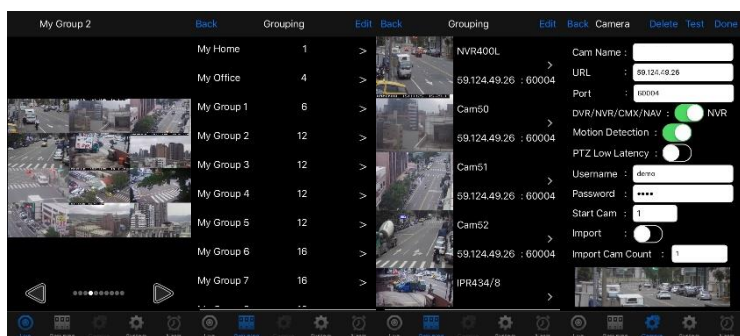
Manufacturer	Capacity	SDHC/SDSC
Sandisk	16GB	SDHC
Sandisk	8GB	SDHC
Transcend	8GB	SDHC
Transcend	4GB	SDHC
Sandisk	32GB	SDHC

For iPhone Users

Tap **App Store**, and search and download **IPCamPlus**. Or, you can scan the QR Code below.



Open **IPCamPlus**, then choose tab **Groupings**. Select a group, choose a camera type, and add a camera.



Next, enter camera information as follows:

1. Cam Name: IP Camera or DVR camera name
2. URL: IP address
3. Port
4. Enter your username and password. The default IP camera user name is **admin**, password **pass**. The default DVR user name is **admin**, password **1111**.

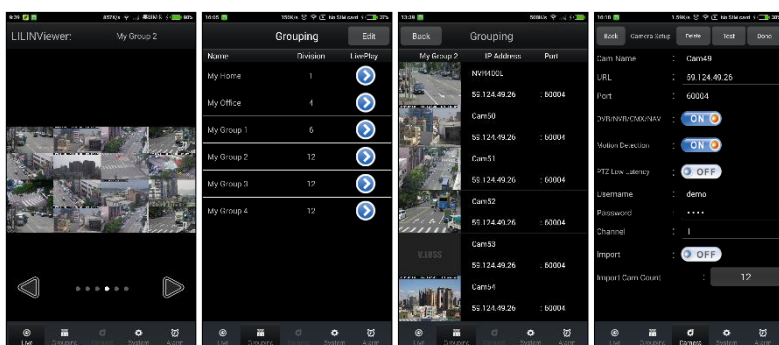
After you enter the above information, tap **Done** to save the changes, and the live view of your IP camera or DVR will appear.

For Android Users

Tap **Play Store** to download **IPCamPlus**, or scan the following QR code.



Open **IPCamPlus**, then choose tab **Groupings**. Select a group, choose a camera type, and add a camera.



Next, enter camera information as follows:

1. Cam Name: IP Camera or DVR camera name
2. URL: IP address
3. Port
4. Enter your username and password. The default IP camera user name is **admin**, password **pass**. The default DVR user name is **admin**, password **1111**.

After you enter the above information, tap **Done** to save the changes, and the live view of your IP camera or DVR will appear.