

**1080P Full-HD
H.264 CMOS Network Vandal Dome**

CAM669F / CAM669F-PoE

User's Manual

Date: 7/20/2012

Firmware Version: VB1.0.26

Content

Content	1
1. Preface	3
2. Product Specifications	3
3. Product Installation	6
A. Hardware Installation	6
Cable Connections.....	6
Audio Connections.....	8
I/O Connections	8
3-Axis Gimbals Adjustment	10
B. Monitor Setting	11
C. IP Assignment	錯誤! 尚未定義書籤。
4. Live Video	14
5. Configuration	19
A. System	19
System Information	19
User Management	23
System Upgrade	25
System Logs	26
B. Video/Audio Setting	27
Video Format	27
Image Setting.....	32
Audio Setting	35
C. Network Setting	37
Network Setting	37
Mail / FTP / Samba Setting	41
PPPoE / DDNS Setting	45
D. Network (Advance) Setting	48
HTTPS Setting	48
SNMP Setting	50
IP Filter Setting	52
QoS/ DSCP Setting.....	54

IEEE 802.1x Setting.....	55
E. Event Handling	56
Event Setting	56
I/O Setting.....	62
Schedule.....	64
Micro-SD Card	66
6. Network Configuration	69
A. Intranet Only	69
Connects to PC Directly.....	69
Connects to an Exist LAN	70
B. Internet Only	71
Connects to ADSL with Fixed Public IP Address.....	71
Connects to ADSL with Floating Public IP Address (PPPoE).....	72
C. Intranet + Internet.....	74
Connects to Internet with Fixed Public IP Address.....	74
Connects to Internet with Floating Public IP Address.....	76
7. Factory Default.....	77
Compatible List of SD Card.....	78

1. Preface

This camera is a 1080P Full-HD 2 Mega-Pixel CMOS network camera which builds in web server. User views real-time video via IE browser. It supports H.264, MJPEG and MPEG4 video compression which provides smooth and high quality video. The event video can be stored in the Micro-SD card, and can be playback remotely.

The IR model equips infrared illuminator to provide good image quality, even in darkness. The PoE model built-in support for Power over Ethernet allows the camera to receive both data and power over a single Ethernet cable.

This camera is an easy-to-use IP camera which is designed for security application.

2. Product Specifications

- 2 Mega-Pixel CMOS Sensor
- H.264 / MJPEG / MPEG4 compression formats and triple streaming
- Supports resolution up to 1920x1080, 1080P@30FPS real time
- Self-Contained HTTP Web Server providing Internet capability for remote access
- Day & Night functionality for 24-hours surveillance, auto activate IR illuminator in low illumination (IR model)
- Infrared radiant distance up to 12 meters (IR model)
- Unbreakable housing, support IP66 water proof standard
- Digital Wide Dynamic Range
- Shutter Speed adjustment
- Sense Up adjustment
- Day&Night Switch time control manually
- Built-in PoE splitter, support for Power over Ethernet (PoE model)
- Supports Micro-SD card for local event recording
- 2-way audio
- Online firmware upgrade
- Recorded files compatible with Microsoft Windows Media Player

Hardware	
CPU / RAM / ROM	ARM 9, 32 bit RISC / 256MB / 16MB
Image Sensor	1/2.7" CMOS, 2 Mega-Pixel
Lens	Vari-focal 3.3~12mm, Mega-Pixel lens, F1.4
IR Distance (IR model)	12 Meters
IR LED (IR model)	Built-in 18 IR LEDs
Illumination	Normal: 0.1 lux, IR On: 0 lux
Day / Night	Built-in Mechanism IR Cut Filter (ICR)
Shutter Time	1/5 ~ 1/10000 sec
Audio In	Internal terminal block for connecting external passive-type of microphone
Audio Out	Internal terminal block for connecting external amplified speaker
Digital I/O	Internal terminal block provides 1 Digital in / 1 Relay out
3-Axis Gimbals Adjustment	Rotation: 300° Pan: 360° Tilt: 75°
Water Proof	IP-66 standard
Power Supply	Normal model: DC 12V, 1A PoE model (built-in PoE Splitter): Use PoE: PoE Injector (IEEE 802.3af) Or, use Power Adaptor: DC 12V, 1A
Power Consumption	Max. 7 Watt
Dimensions	Φ134 x H108 mm
Network	
Ethernet	10/ 100 Base-T
Network Protocol	HTTP, HTTPS, TCP/IP, RTP/RTSP, UDP, 3GPP, SMTP, FTP, Samba, PPPoE, DHCP, DDNS, NTP, UPnP, SNMP, QoS/DSCP, IP Filter, IEEE 802.1x
System	
Video Resolution	1920x1080, 1280x720, 640x480, 320x240, 176x144
Compression Format	H.264 / MJPEG / MPEG4
Frame Rate	Up to 30FPS
Triple Streaming	Yes (2 for live view, 1 for 3GPP)
3GPP	Yes, Live view with 3G mobile phone
Video Bitrate Adjustment	CBR, VBR
Video Adjustment	Brightness, Contrast, Hue, Saturation, Sharpness, Gain control, Shutter time, Sense Up, Digital WDR, Gamma, Exposure, Digital Noise Reduction, Day/Night color mode, Video orientation
Image Snapshot	Yes

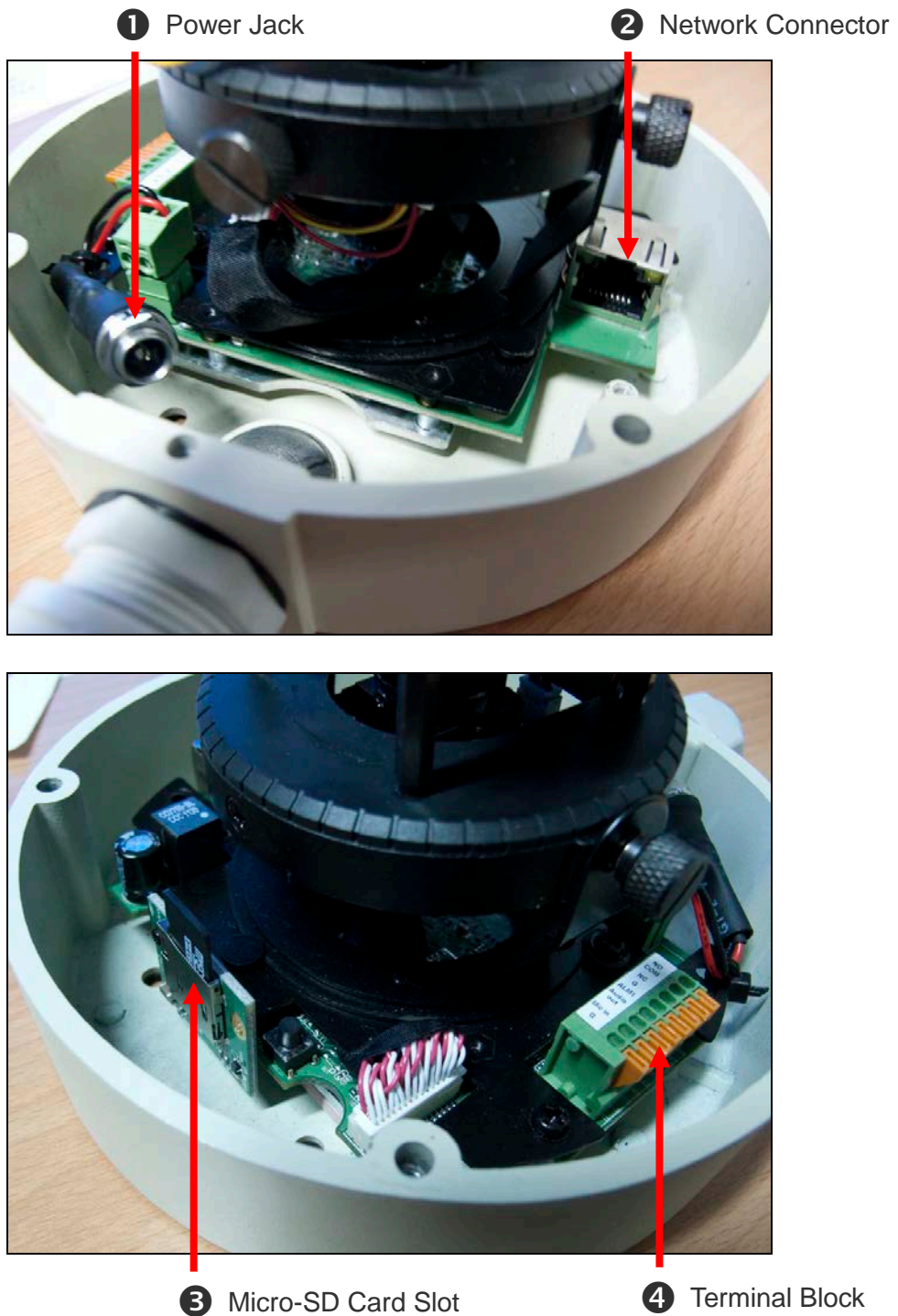
Privacy Mask	Yes, 3 different areas
Motion Detection	Yes, 3 different areas
Event Trigger	Motion Detection, Digital In
Triggered Action	Send Email, Send to FTP, Save to SD Card, Save to Samba HDD, Relay Out
Pre/ Post Alarm	Yes, configurable
Security	Password protection, IP address filtering, HTTPS encrypted data transmission, IEEE 802.1x port-based authentication, QoS/DSCP
Firmware Upgrade	HTTP mode, can be upgraded remotely
Connection	Up to 10 clients simultaneously
Audio	Yes, 2-way
SD card management	
Recording Trigger	Motion Detection, Digital In, IP Check, Network Disconnect
Schedule	Snapshot with schedule
Video Format	Video (AVI), Snapshot (JPEG)
Video Playback	Yes
Web browsing requirement	
OS	Windows 2000, XP, Vista, Windows 7
Web Browser	Microsoft IE V7.0 (32-bit) or above, Mozilla Firefox V6.0 or above, Opera V11.5 or above, Safari V5.1 or above, Google Chrome V13.0 or above
Suggested Hardware	Intel Core 2 Duo 2.53GHz, RAM: 1GB Graphic card: 128MB onboard RAM

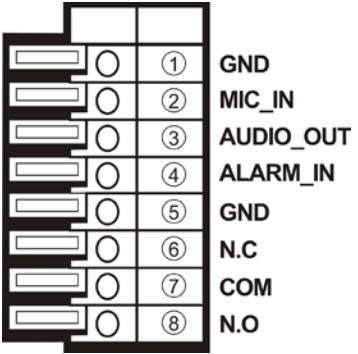
* Specifications are subject to change without notice

3. Product Installation

A. Hardware Installation

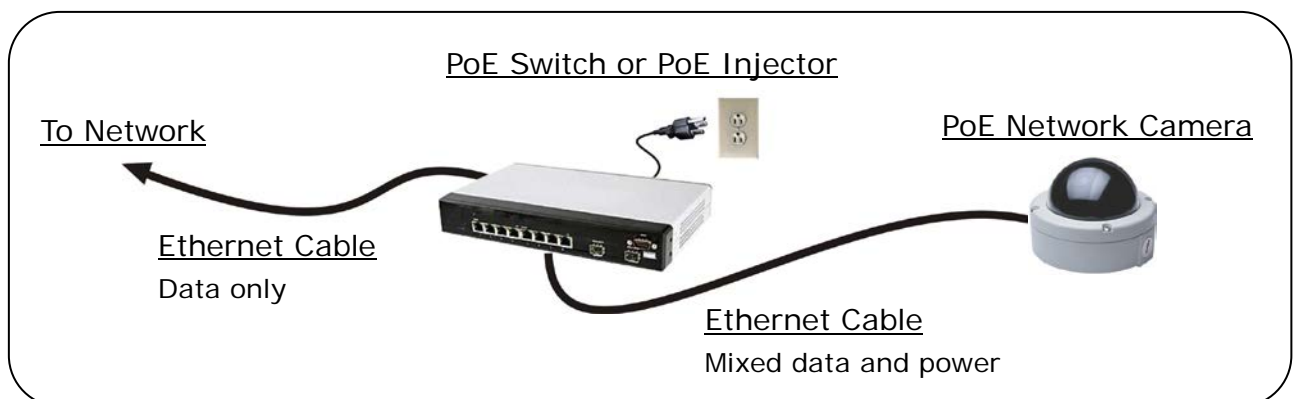
Cable Connections



1 Power Jack:	To connect the DC 12V power adapter.
2 Network Connector:	The RJ-45 connector allows connect to the Ethernet network.
3 Micro-SD Card Slot:	Insert a Micro-SD card if you want to do the event recording in the camera.
4 Terminal Block: 	The terminal block provides the following functionalities: <ul style="list-style-type: none"> ● MIC Input: Allows connect to a passive-type of microphone, the connected audio will be heard at the remote site. ● Audio Output: Allows connect to an amplified speaker, you can hear the voice of the remote site from the speaker. ● Digital I/O: Digital In and Relay Out.

1. Refer to the next sections to connect the cable of Digital I/O, Audio output and MIC input if you want to use these functionalities.
2. Connect Ethernet cable for network connection.
3. Connect power adapter to turn on the camera.
4. If the camera is PoE model, the power adapter is not necessary. The camera will get the power from the PoE injector or PoE switch.

PoE (Power over Ethernet) is a technology that integrates power into a standard LAN infrastructure. It enables power to be provided to the network device, such as an IP phone or a network camera, using the same cable as that used for network connection. It eliminates the need for power outlets at the camera locations. Please follow the below figure for the connection.

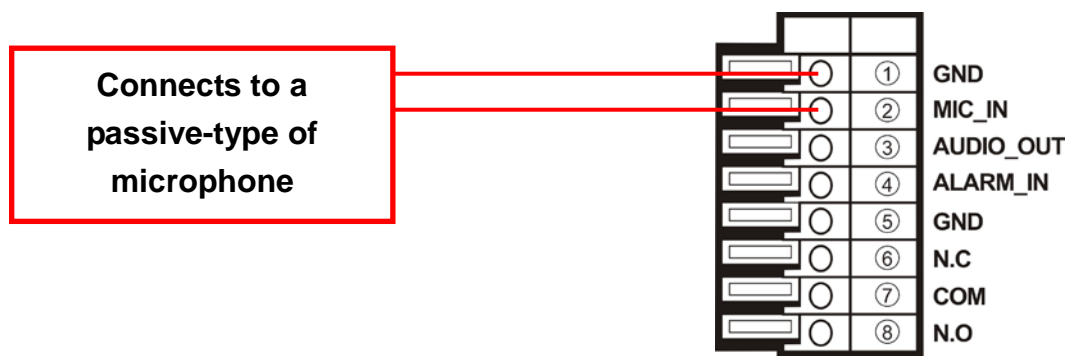


- Set up the network configurations according to the network environment. For further explanation, please refer to [Network Configuration](#) chapter.

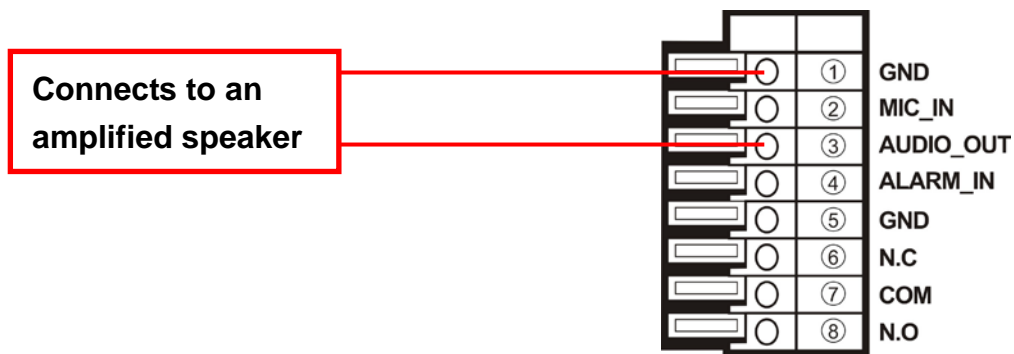
Audio Connections

The terminal block inside of the camera provides audio functionalities. You can connect the wires of connector to this terminal block to output these signals.

Microphone Input



Audio Output



I/O Connections

The terminal block inside of the camera also Digital Input and Relay Output. You can connect the wires of connector to this terminal block to output these signals. The I/O connector used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to:

- 1 set of Digital Input (Alarm + GND) – The digital inputs for connecting devices that can toggle between an open and closed circuit, such as PIRs, door/window

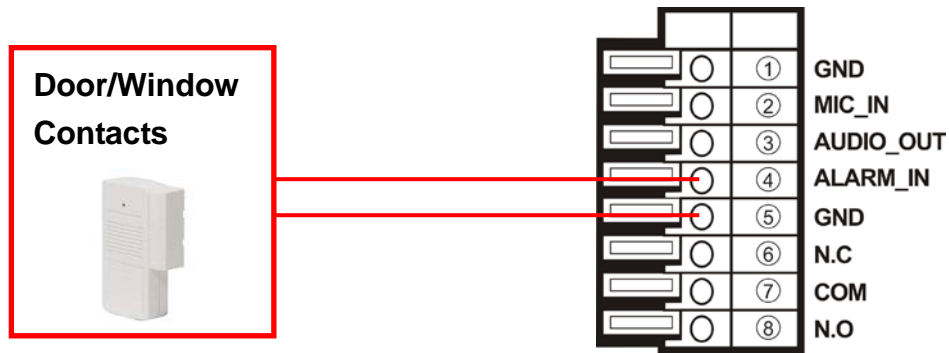
contacts, glass break detectors, etc. When a signal is received the status changes and the input becomes active.

- 1 set of Relay Output (N.O. + COM or N.C + COM) – The output to Relay switch of the alarm device such as LEDs, Sirens, etc.

Digital Input (Alarm Input)

GND (Ground): Initial status is LOW.

Alarm: Max. 50mA, 3.3VDC.

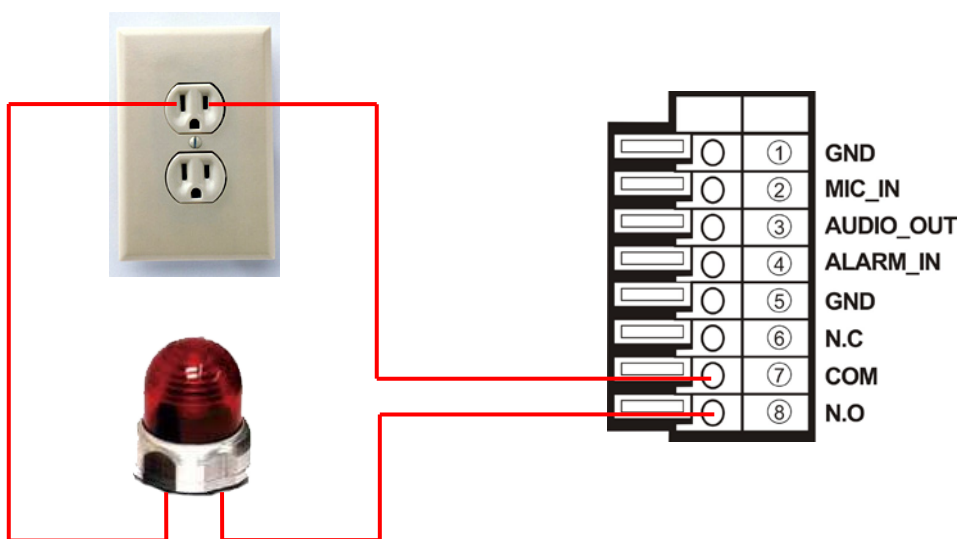


Relay Output

COM: Common pin.

N.O. (Normally Open): Max. 1A / 24VDC or 0.5A / 125VAC.

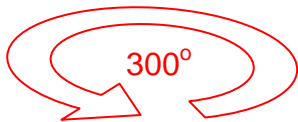
N.C. (Normally Close): Max. 1A / 24VDC or 0.5A / 125VAC.



3-Axis Gimbals Adjustment

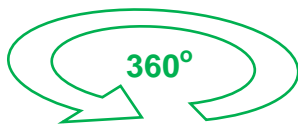
The gimbals adjustment offers the convenience method to install on the ceiling or wall. You can open the case, and adjust the lens to the direction as wished. The pan, tilt and rotation adjustments are provided in this model. You can adjust the gimbals with Pan 360°, Tilt 75°, and Rotation 300° respectively.

Rotation Adjustment



1. Loosen "Screw 1".
2. Adjust "Rotation Gimbals" as wished.
3. Fasten "Screw 1" to fix the gimbals.

Pan Adjustment

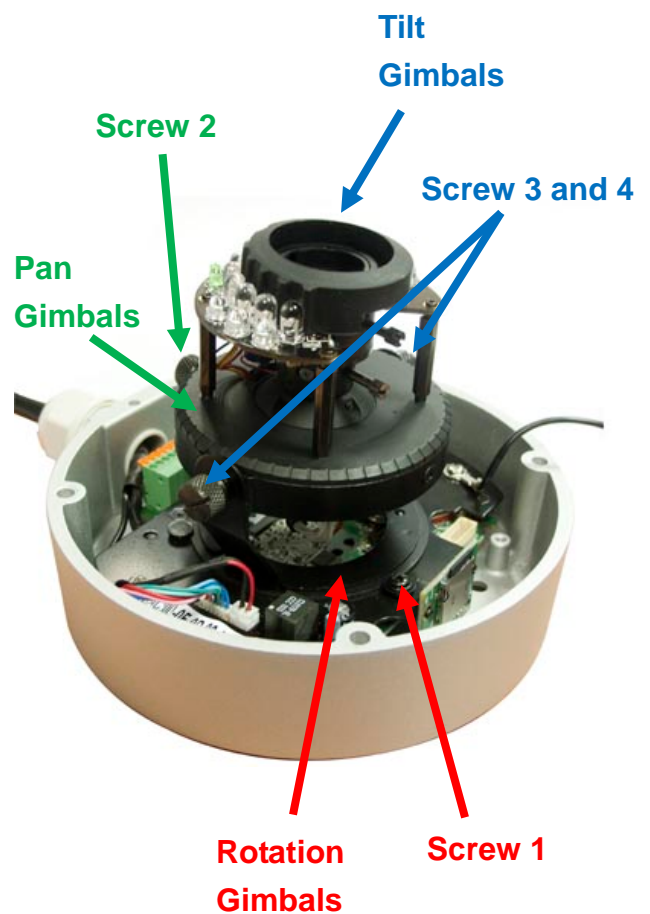


1. Loosen "Screw 2".
2. Adjust "Pan Gimbals" as wished.
3. Fasten "Screw 2" to fix the gimbals.

Tilt Adjustment

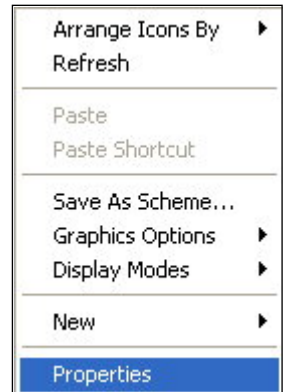


1. Loosen "Screw 3" and "Screw 4".
2. Adjust "Tilt Gimbals" as wished.
3. Fasten "Screw 3" and "Screw 4" to fix the gimbals.

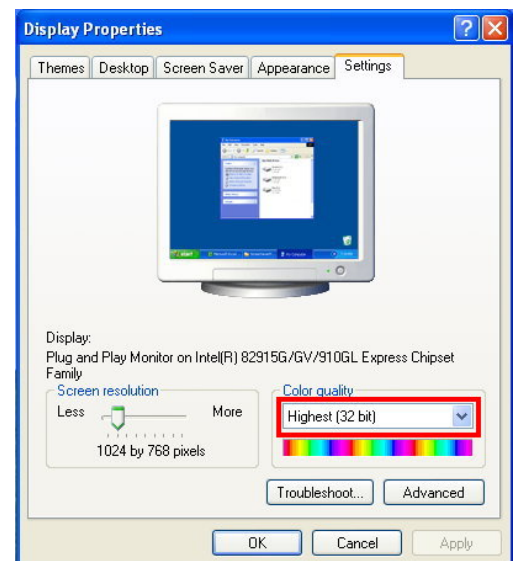


B. Monitor Setting

1. Right-Click on the desktop. Select “Properties”



2. **Change color quality to “Highest (32bit)”**.



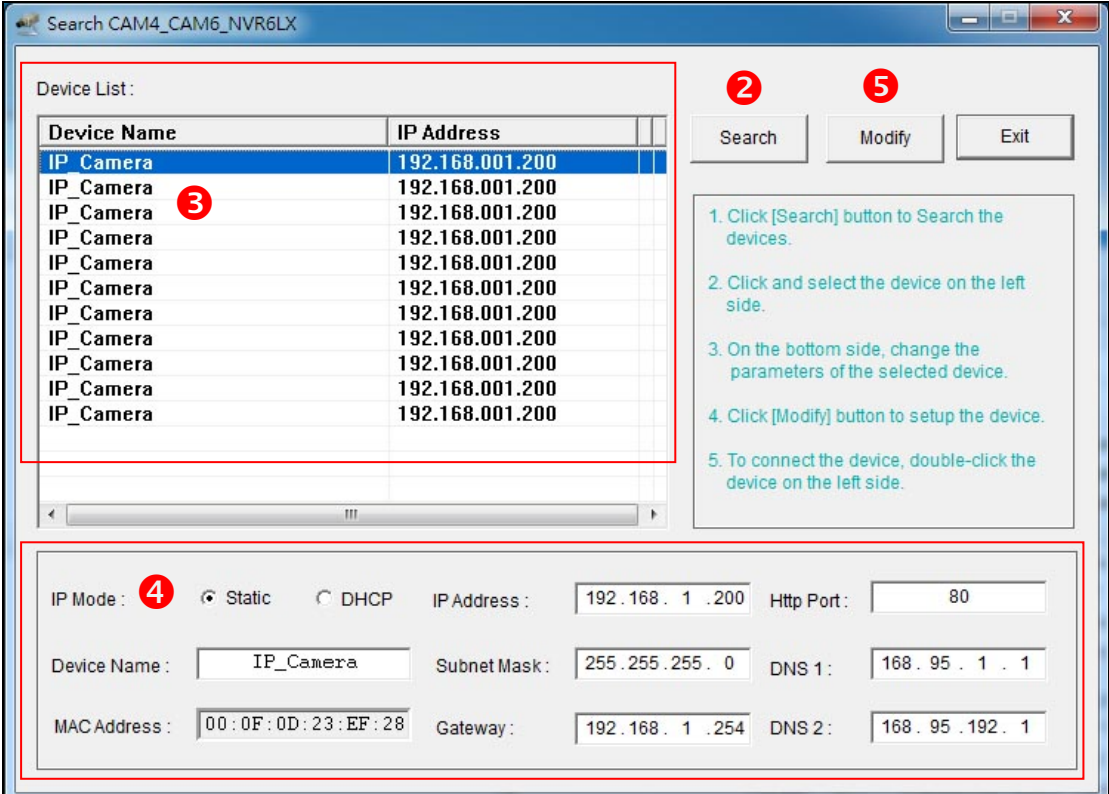
C. IP Assignment

- Always consult your network administrator before assigning an IP address to your camera in order to avoid using a previously assigned IP address.
- MAC Address: Each network camera has a unique Ethernet address (MAC address) shown on the sticker of the device.
- One final note, although the IP Search is able to find and configure any network device on the LAN except those that are behind a router, it is a good idea to set the host PC to the same subnet. In order to connect to the Web-based user interface of the network camera, the host PC must be in the same subnet. For more information about subnets, please consult your network administrator.

“Asoni IP Search” is a utility that provides an easier, more efficient way to configure the IP address and network settings of the network camera in Local Network (LAN).

The software can be installed from the attached software CD.

1. Once “Asoni IP Search” has been successfully installed on the computer, double click the “Search CAM4_CAM6_NVR6LX” icon on the desktop.



1. Click the desktop icon to launch the software.

2. Click the [Search] button to search for devices.

3. Select a device from the Device List.

4. Click the [Modify] button to configure the selected device.

5. Double-click the selected device in the Device List to connect.

Device Name	IP Address
IP_Camera	192.168.001.200
IP_Camera	192.168.001.200
IP_Camera	192.168.001.200
IP_Camera	192.168.001.200
IP_Camera	192.168.001.200
IP_Camera	192.168.001.200
IP_Camera	192.168.001.200
IP_Camera	192.168.001.200
IP_Camera	192.168.001.200
IP_Camera	192.168.001.200
IP_Camera	192.168.001.200

IP Mode: Static DHCP IP Address: 192.168.1.200 Http Port: 80

Device Name: IP_Camera Subnet Mask: 255.255.255.0 DNS 1: 168.95.1.1

MAC Address: 00:0F:0D:23:EF:28 Gateway: 192.168.1.254 DNS 2: 168.95.192.1

2. IP Search searches all the network devices which connect to the intranet and lists on the window. Click **[Search]** button to search again.
3. From the list, click and select the device with the MAC Address that corresponds to the device that is to be configured.
4. The network configuration of the selected device will show on the bottom, filling in the Device Name, IP Address, Subnet Mask, Gateway and the others.
5. Click **[Modify]** button to save the settings into the device.
6. Wait for few seconds to let the device update the settings, and then click **[Search]** button again to re-search the network devices.
7. Double-click the network device listed on the window, It will open an IE browser and connect to this device directly.

4. Live Video

Start the IE browser, type the IP address of the network camera in the address field:

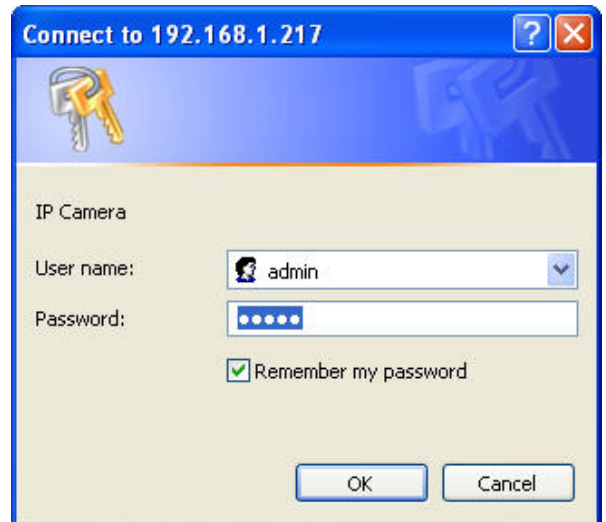
http://<IP of camera>

If the “HTTP Port” has been changed from “80”, type the URL as:

http://<IP of camera>:<HTTP Port>

After link to the camera, it will show a dialogue box. Key-in the user name and password to log-in and open the web page of camera.

The default user name and password are “**admin**” and “**admin**”.



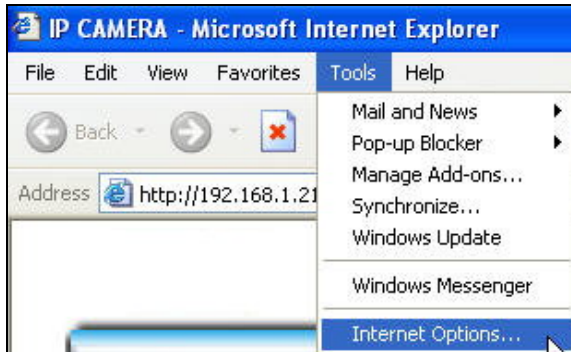
For the first time to view the camera video via IE, it will ask you to install the ActiveX component.



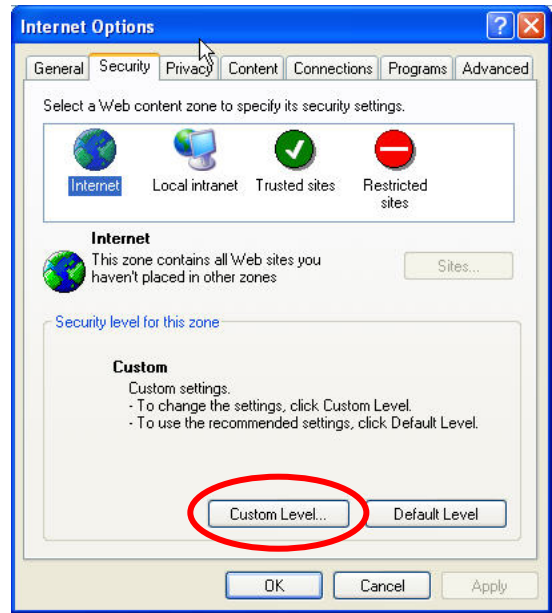
If the installation failed, please check the security setting for the IE browser.

1. In IE, click on **[Tools]** → **[Internet Options...]**
2. Click on **[Security]** Tab → **[Custom Level...]**
3. In Security Settings, under **[Download unsigned ActiveX controls]**, select “Enable” or “Prompt”.
4. In Security Settings, under **[Initialize and script ActiveX controls not marked as safe]**, select “Enable” or “Prompt”.
5. When pop-up window with warning message, click **[Yes]** to save the settings.

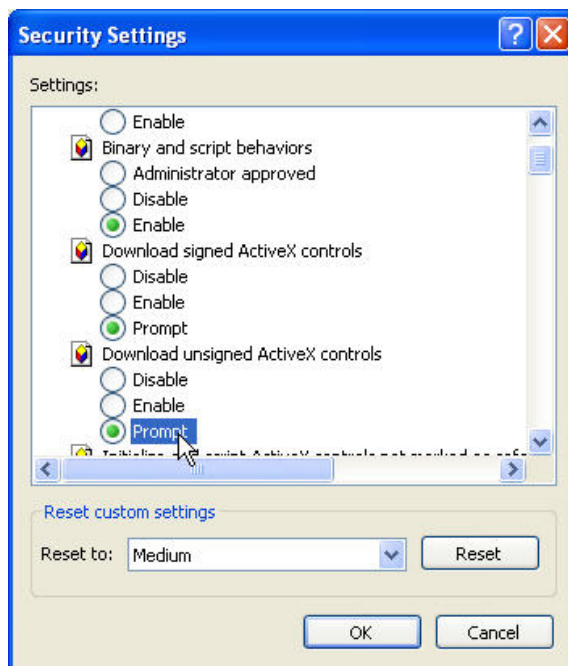
1



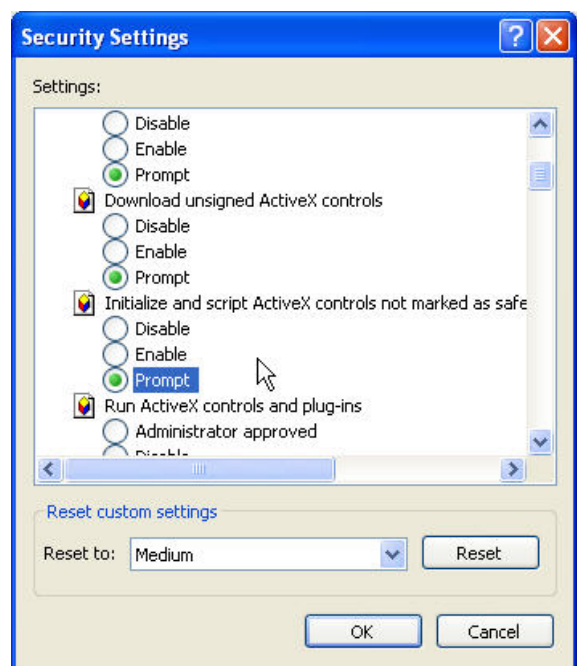
2



3

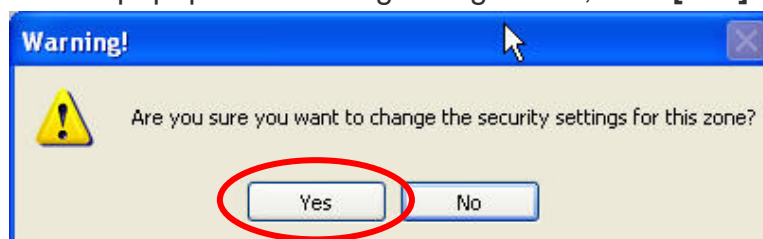


4



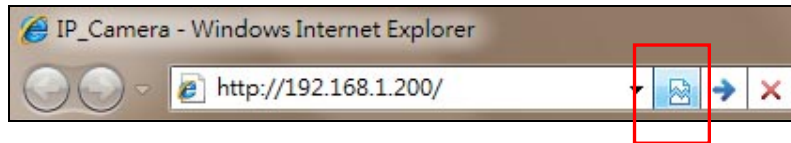
5

When popup the following dialogue box, click [Yes].












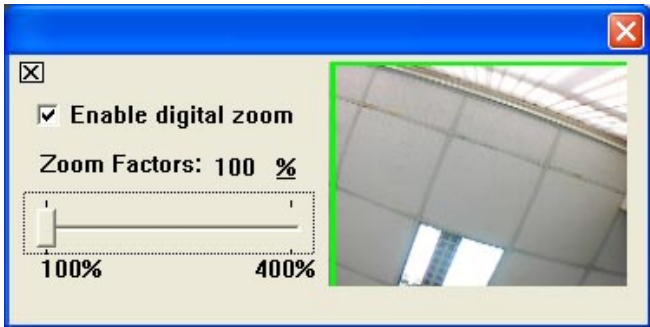
The web page of the device shows as following.

If you are using IE 8.0 or above, please click “Compatibility View” icon to make this web page works properly:



- ① **Streaming** : Select the streaming 1 or 2 from the pull-down list to display.
- ② **Language** : Change the display language temporarily.
 Note: The display language is changed temporarily for current connection, and it doesn't change the default language. To change the default language, please go to [Configuration](#) → [System Information](#) page.
- ③ **Configuration** : Go into the configuration page to set the parameters if necessary.
- ④ **Status Bar** : Shows system date/time, video resolution and video refresh rate (FPS).

- 5 **Online Visitor** : Shows how many users connect to this network camera.
- 6 **Function Buttons** : Click these buttons will perform the following functions.

	<p><u>Original Size</u> : Click this button to display the original size of video.</p>
	<p><u>Shrink View</u> : Click this button to shrink the video to fit the window for view.</p>
	<p><u>Full Screen</u> : Click this button or double-click the video, the video will change to full screen mode. Press [Esc] key or double-click the video again, it will back to normal mode.</p>
	<p><u>Snapshot</u> : Click this button to take snapshot of the video. The image will be displayed in a pop-up window, click  to save as a jpg picture.</p>
	<p><u>Record</u> : Click this button to record the video into the local PC. It will ask you where to save the video. To stop recording, click this button again. The saved video format is AVI. The recorded file can be played by Microsoft Media Player. Note, H.264 decoder must be installed to play the recorded file. You can install "FFdshow" from the included CD for the decoder.</p>
	<p><u>Chatting</u> : The camera supports 2-way audio. Click this button, then you can use microphone which connected to the PC to talk to the camera side.</p>
	<p><u>Voice</u> : Click this button to turn on the audio from camera. Click again to turn off it.</p>
	<p><u>Digital Zoom</u> : Click this button, a pop-up window appears. You can enable / disable the digital zoom, and adjust the ratio.</p> <div data-bbox="817 1626 1469 1951" style="border: 1px solid blue; padding: 5px;">  <p>The screenshot shows a window titled 'Digital Zoom' with a close button (X) in the top right corner. It contains a checked checkbox labeled 'Enable digital zoom'. Below it, the text 'Zoom Factors: 100 %' is displayed. A horizontal slider is shown with a vertical marker at the 100% position. The slider has '100%' at the left end and '400%' at the right end. To the right of the slider is a small video preview window showing a zoomed-in view of a ceiling.</p> </div>




Relay Out (ON/OFF Switch) : Click the button to manually turn on / off the Relay via the built-in Digital Out.



Relay Out (Time Switch) : Click the button to manually turn on the Relay via the built-in Digital Out, after the interval time is passed, the Relay will be turned off automatically. The interval time can be set up in [Configuration → Event Handling → I/O](#).

5. Configuration

Click [**Configuration**] button to get into the configuration page. Click  [**Live View**] button to back to the Live-View page.

A. System

System Information

Set up the camera name, select language, and set up the camera time.



System Information

System Information				
Server Information				
MAC Address:	00:0F:0D:20:C8:09			
Server Name:	IP Camera	<input type="checkbox"/> Show on Status Bar		
Default Language:	<input checked="" type="radio"/> English	<input type="radio"/> Traditional Chinese	<input type="radio"/> Simplified Chinese	
OSD Setting				
Time Stamp:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable			
Position:	<input checked="" type="radio"/> Top-Left <input type="radio"/> Top-Right <input type="radio"/> Bottom-Left <input type="radio"/> Bottom-Right			
Text:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable			
	OSD_Display Text Edit			
Time Setting				
Server Time:	2010/6/3 11:5:34 Time Zone: GMT+08:00			
Date Format:	<input checked="" type="radio"/> yy/mm/dd <input type="radio"/> mm/dd/yy <input type="radio"/> dd/mm/yy			
Time Zone:	GMT+08:00			
<input checked="" type="checkbox"/> Enable Daylight Saving:				
	Month	Week	Day of Week	Time
DST Start:	May	2nd	Monday	12 AM
DST End:	August	1st	Monday	12 AM
<input checked="" type="radio"/> Synchronize with NTP Server				
NTP Server:	198.123.30.132			
Update Schedule:	6 Hour			
Time Shift:	0 Minutes [-1440..1440]			
<input type="radio"/> Synchronize with PC's Time				
Date:	2010/6/3			
Time:	11:5:44			
<input type="radio"/> Manually Input Date and Time				
Date:	2010/6/3			
Time:	11:1:45			
<input type="radio"/> The date and time remain the same				
<input type="button" value="Apply"/>				

Server Information

Server Information	
MAC Address:	<input type="text" value="00:0F:0D:20:C8:09"/>
Server Name:	<input type="text" value="IP Camera"/> <input type="checkbox"/> Show on Status Bar
Default Language:	<input checked="" type="radio"/> English <input type="radio"/> Traditional Chinese <input type="radio"/> Simplified Chinese

MAC Address: The MAC address of the Ethernet network card in the device.

Server Name: You can type a name into this field to identify this device.

Show on Status Bar: Determine whether show the server name on the Status Bar.

Default Language: Select the default language for the user interface.

OSD Setting

OSD Setting	
Time Stamp:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Position:	<input checked="" type="radio"/> Top-Left <input type="radio"/> Top-Right <input type="radio"/> Bottom-Left <input type="radio"/> Bottom-Right
Text:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
	OSD_Display Text Edit

Time Stamp: Enable this option will display the date and time on the video.

Position: Select the display position of Time stamp.

Text: Enable this option will display the OSD string on the video.

Text Edit: Click this button to open “Text Edit” dialog window. You can change the OSD string and adjust the alpha of the text. After editing, click **[Upgrade]** button.

Text Edit



Text Edit

Text

Alpha

Time Setting

Time Setting				
Server Time:	2010/6/3 11:5:34 Time Zone: GMT+08:00			
Date Format:	<input checked="" type="radio"/> yy/mm/dd <input type="radio"/> mm/dd/yy <input type="radio"/> dd/mm/yy			
Time Zone:	GMT+08:00 ▼			
<input checked="" type="checkbox"/> Enable Daylight Saving:				
	Month	Week	Day of Week	Time
DST Start:	May ▼	2nd ▼	Monday ▼	12 AM ▼
DST End:	August ▼	1st ▼	Monday ▼	12 AM ▼
<input checked="" type="radio"/> Synchronize with NTP Server				
NTP Server:	198.123.30.132			
Update Schedule:	6 ▼ Hour			
Time Shift:	0 Minutes [-1440..1440]			
<input type="radio"/> Synchronize with PC's Time				
Date:	2010/6/3			
Time:	11:5:44			
<input type="radio"/> Manually Input Date and Time				
Date:	2010/6/3			
Time:	11:1:45			
<input type="radio"/> The date and time remain the same				

Date Format: Select the format to display the date.

Time Zone: Select the GMT to match your time zone.

Enable Daylight Saving: If using “Daylight Saving”, enable this option and select the start and end time.

Synchronize with NTP Server: Select this option and type the IP address of a NTP (Network Time Protocol) server, this device will synchronize the time with the NTP server via network.

- NTP Server: Type the IP address or URL of the NTP server.
- Update Schedule: Select the interval for the update time. For example, if select “6 Hours”, this device will synchronize the date and time with the NTP server every 6 hours.

Synchronize with PC's time: Select this option will synchronize the device time with the PC's time.

Manually Input Date and Time: Manually input the date and time.

The date and time remain the same: Keep the current date and time without change.

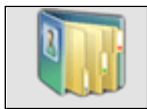
*After set up, click **[Apply]** to save the settings.*

User Management

You can add, remove and manage the users in this page.

This device supports 3 user groups:

- Administrator: The administrator can view, operate and configure all functions and settings of this device.
- Guest: The users in Guest group can only view the live video in Live-View page.
- Anonymous: The anonymous user can only view the live video in Live-View page. The privilege is same as Guest group.



User Management

User Management

Anonymous User Login

Yes No

Setting

Add User

User Name:

Password:

Confirm Password:

Add/Set

User List

User Name	User Group	Modify	Remove
admin	Administrator	Edit	
guest	Guest	Edit	Remove

Anonymous User Login

To allow user visit this device without login, select **[Yes]** and then click **[Setting]** to enable this function.

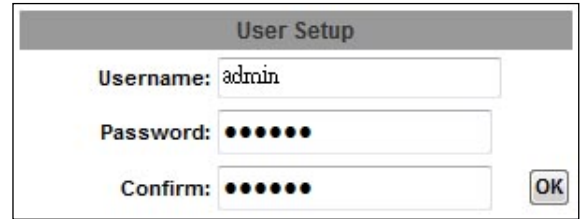
Add User

To add a new user, type the user name and password, then click **[Add/Set]** to save the user.

User List

This table lists the current users.

Edit: To change the username and password, click **[Edit]** and modify the administrator or user in the pop-up window.



The image shows a 'User Setup' dialog box with a grey header. It contains three input fields: 'Username' with the text 'admin', 'Password' with seven black dots, and 'Confirm' with seven black dots. An 'OK' button is located to the right of the 'Confirm' field.

Remove: To remove the user, click **[Remove]**.

System Upgrade

This page allows user to upgrade firmware, restart device and restore the factory default settings.



System Upgrade

System Upgrade	
Firmware Upgrade	
Current Firmware Version:	V1.0.20_As.1
New Firmware:	<input type="text"/> <input type="button" value="Browse..."/>
<input type="button" value="Upgrade"/>	
Reboot System	
<input type="button" value="Reboot"/>	
Factory Default	
<input type="button" value="Default"/>	

Firmware Upgrade

The firmware can be upgraded online.

To update the firmware, click **[Browse...]** to select the new firmware file, and then click **[Upgrade]** to the procedure.

Reboot System

To restart the device, click **[Reboot]** and then click **[Yes]** on the prompted window.

Factory Default

To load the factory defaults, click **[Default]** and then click **[Yes]** on the prompted window. Note, all settings including User account, Network, A/V and Event settings will be restored to the factory defaults.

System Logs



System Logs

System Logs	
System Status Logs:	View
Motion Trigger Logs:	View
Digital-In Trigger Logs:	View
All Logs:	View

System Status Logs

Click the **[View]** button on the right side to list the logs of system status.

Motion Trigger Logs

Click the **[View]** button on the right side to list the logs of motion detection.

Digital-In Trigger Logs

Click the **[View]** button on the right side to list the logs of digital input detection.

All Logs

Click the **[View]** button on the right side to list all logs.

B. Video/Audio Setting

Video Format

This device supports H.264, MPEG4 and MJPEG Triple Mode and Triple Streaming, set the video parameters in this page.



Video Format

Video Format	
Video System:	NTSC - 60Hz ▼
Streaming 1 Output Setting	
<input type="radio"/> Basic Mode <input checked="" type="radio"/> Advanced Mode	
Resolution:	1920x1080 ▼
Bitrate Control Mode:	<input checked="" type="radio"/> CBR (Constant Bit Rate) <input type="radio"/> VBR (Variable Bit Rate)
Frame Rate Per Second:	30 FPS ▼
CBR - Highest Video Bitrate:	2Mbps ▼
VBR - Video Quantitative:	7 ▼
GOP Size:	1 X FPS ▼ GOP = 30
Video Compression Format:	H.264 ▼
RTSP Path:	<input type="text"/> *Audio Format= G.711 *Link the camera with this address -> rtsp://[IP]/
Streaming 2 Output Setting	
<input type="radio"/> Basic Mode <input checked="" type="radio"/> Advanced Mode <input type="radio"/> Close	
Resolution:	640x480 ▼
Quality:	Standard ▼
Frame Rate Per Second:	15 FPS ▼
Video Compression Format:	MJPEG ▼
RTSP Path:	<input type="text"/> v2 *Audio Format= G.711 *Link the camera with this address -> rtsp://[IP]/v2
3GPP Streaming Output Setting (Resolution=176x144, FPS=5, Video=MPEG4, Audio=AMR)	
<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
3GPP Path:	<input type="text"/> 3g *Link the camera with this address -> rtsp://[IP]/3g *Link the camera (no audio) with this address -> rtsp://[IP]/3gx
<input type="button" value="Apply"/>	

Video System

Select NTSC-60Hz or PAL-50Hz to match your local video system.

Streaming 1 Output Setting

Basic / Advanced Mode: Select the mode to configure the parameters. Advanced mode provides more detail parameters for setting.

Resolution: Select the resolution from the pull-down list.

- 1920x1080 (Up to 30FPS)
- 1280x720 (Up to 30FPS)
- 640X480 (Up to 30FPS)
- 320X240 (Up to 30FPS)
- 176X144 (Up to 30FPS)

Frame Rate Per Second: The video refreshing rate per second. Select the frame rate from the pull-down list. Refer to the above tables for the supported highest FPS.

Video Compression Format: Choose H.264, MPEG4 or MJPEG format to compress and output the video stream.

H.264 or MPEG4: The video stream will be compressed in H.264 or MPEG4 format. Choose CBR (Constant Bit Rate) or VBR (Variable Bit Rate) in Bitrate Control Mode.

- CBR: Set the Video Bitrate from 32Kbps ~ 8Mbps depend on the upload bandwidth of network. **The data size of video stream will be limited under the selected bit rate.**
- VBR: Set the Video Quantitative from 1 ~ 10, the higher value will get better video quality. **The data size of video stream is no limitation, if the upload bandwidth of network is lower than the data size, the video will be displayed slowly.**
- GOP Size: Set the GOP (Group of Picture) size. **If you don't know what value should be set, please set it to "1XFPS".**

MJPEG: The video stream will be compressed in MJPEG format.

- Quality: 5 levels for select. The higher quality will get bigger file size.

RTSP Path: Assign a name to identify this video stream. When view the video stream with RTSP connection, the URL should be "rtsp://<Public IP of this device>:<RTSP port>/<RTSP path>".

Streaming 2 Output Setting

Basic / Advanced / Close Mode: Select the mode to configure the parameters.

Advanced mode provides more detail parameters for setting. Select Close mode will disable the streaming 2.

Resolution: Select the resolution from the pull-down list.

- 1920x1080 (Up to 30FPS)
- 1280x720 (Up to 30FPS)
- 640X480 (Up to 30FPS)
- 320X240 (Up to 30FPS)
- 176X144 (Up to 30FPS)

Frame Rate Per Second: The video refreshing rate per second. Select the frame rate from the pull-down list. Refer to the above tables for the supported highest FPS.

Note: when the Resolution of streaming 1 is 1920x1080 or 1280x720, the highest FPS of streaming 2 will be reduced.

Video Compression Format: Choose H.264, MPEG4 or MJPEG format to compress and output the video stream.

H.264 or MPEG4: The video stream will be compressed in H.264 or MPEG4 format. Choose CBR (Constant Bit Rate) or VBR (Variable Bit Rate) in Bitrate Control Mode.

- CBR: Set the Video Bitrate from 32Kbps ~ 8Mbps depend on the upload bandwidth of network. **The data size of video stream will be limited under the selected bit rate.**
- VBR: Set the Video Quantitative from 1 ~ 10, the higher value will get better video quality. **The data size of video stream is no limitation, if the upload bandwidth of network is lower than the data size, the video will be displayed slowly.**
- GOP Size: Set the GOP (Group of Picture) size. **If you don't know what value should be set, please set it to "1XFPS".**

MJPEG: The video stream will be compressed in MJPEG format.

- Quality: 5 levels for select. The higher quality will get bigger file size.

RTSP Path: Assign a name to identify this video stream. When view the video stream with RTSP connection, the URL should be "rtsp://<Public IP of this device>:<RTSP port>/<RTSP path>".

3GPP Streaming Output Setting

3GPP Streaming Output Setting (Resolution=176x144, FPS=5, Video=MPEG4, Audio=AMR)	
<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
3GPP Path:	<input type="text" value="3g"/> <small>*Link the camera with this address -> rtsp://[IP]/3g</small> <small>*Link the camera (no audio) with this address -> rtsp://[IP]/3gx</small>

After enable the 3GPP streaming, it will enable this device to send out the video in 3GPP format, and you can view the live video on the 3G mobile phone.

Since the bandwidth of 3G is not fast usually, the 3GPP streaming will be set to the following configuration:

- Resolution – Fixed to 176x144.
- Frame Rate –Fixed to 5FPS.
- Video Format – Fixed to MPEG4.
- Audio Format – Fixed to AMR.

3GPP Path: Assign a name to identify the 3GPP video stream

To view the live video with a 3G mobile phone or PDA, open “Streaming Player” or web browser in the mobile phone, type the URL as following to link and view the live video:

rtsp://<Public IP of camera>:<RTSP port>/<3GPP path>

* <Public IP of camera>: The public IP address of the camera.

* <RTSP port>: The RTSP port of the camera. This port is assigned in [Configuration → Network Setting → Network Setting](#)

* <3GPP path>: The name of the 3GPP video stream.

If your 3G mobile phone or PDA does not support the viewing of RTSP streaming, you can view the camera with http connection. To do this, use a Java compliant browser such as Opera, and type the URL as following to link and view the live video:

http://<Public IP of camera>:<HTTP port>/Jview.html

* <Public IP of camera>: The public IP address of the camera.

* <HTTP port>: The HTTP port of the camera. This port is assigned in [Configuration → Network Setting → Network Setting](#)

Note: Do not use the IE browser in 3G mobile phone because it doesn't support Java.

*After set up, click **[Apply]** to save the settings.*

Image Setting



Image Setting

Image Setting

Privacy Mask

Set Area: Draw/Clear Area1 Draw/Clear Area2 Draw/Clear Area3 Save Area Settings

Image Quality

Brightness:	0
Contrast:	0
Hue:	0
Saturation:	0
Sharpness:	0
Automatic Gain Control:	16x
Shutter Time:	Indoor
Sense-Up:	1/15
D-WDR:	Off
Gamma:	<input type="radio"/> Outdoor <input checked="" type="radio"/> Indoor
Exposure:	0
Video Orientation:	<input type="checkbox"/> Flip <input type="checkbox"/> Mirror
Day/Night Color Mode (ICR):	Auto (by Define-Lux) <small>* If select 'Synchronize with Digital-Input-1', the ICR will be synchronized with Digital-Input-1, and the Digital-Input-1 can not be used by user for other purpose.</small>
Define-Lux:	Color - when over: 7 lux Mono - when under: 3 lux Current Lux: About 13 lux Refresh
DNR:	1 (low)

Default

Privacy Mask

For the security purpose, there are 3 areas can be setup for privacy masks, the masked areas will not be shown in Live-View and recorded file. To set up or clear the privacy mask, click [**Draw/Clear Area**] button, and then use mouse to drag the area on the video. After configuration, click [**Save Area Settings**] button to save the settings.

Image Quality

Brightness / Contrast / Hue / Saturation / Sharpness: Adjust these parameters to get clear video.

Automatic Gain Control: Adjust this function according to the environment.

Shutter Time:

- Outdoor / Indoor: Select one of these two options according to the environment, the camera will adjust the shutter time automatically.
- 1/30 ~ 1/1000: Manually adjust and fix the shutter time for different application.

Sense-Up: Adjust this parameter depend on the environment to get clear video.

D-WDR: This camera supports “Digital Wide Dynamic Range”, provides clear images when there are both very bright and very dark areas simultaneously in the field of view of the camera. Adjust this parameter depend on the environment.

Gamma: Adjust this parameter depend on the environment to get clear video.

Exposure: Adjust the exposure level depend on the environment.

Video Orientation: Change the orientation to display the video.

DNR: This camera supports “Digital Noise Reduction”, adjust this parameter to get clear video.

Default: Click [**Default**] button will load the default settings.

Day/Night Color Mode (ICR)

If the camera equips ICR (IR Cut Filter), you can configure this function to determine when to switch on/ off the ICR.

Auto (by Defined-Lux):

Day/Night Color Mode (ICR):	Auto (by Define-Lux) ▼
	* If select 'Synchronize with Digital-Input-1', the ICR will be synchronized with Digital-Input-1, and the Digital-Input-1 can not be used by user for other purpose.
Define-Lux:	Color - when over: 7 lux ▼ Mono - when under: 3 lux ▼
	Current Lux: About 13 lux Refresh

You can define the Lux of environment to change the color mode automatically. When the environment is brighter than “Color – when over”, the video will display in color; when the environment is darker than “Mono – when under”, the video will display in mono color (black and white).

You can click **[Refresh]** button to detect the current Lux of environment.

Always Color:

The video will always display in color.

Always Mono:

The video will always display in mono color (black and white).

Auto (by Defined-Time):

	Auto (by Define-Time) ▼
Day/Night Color Mode (ICR):	* If select 'Synchronize with Digital-Input-1', the ICR will be synchronized with Digital-Input-1, and the Digital-Input-1 can not be used by user for other purpose.
Define-Time:	Color - start from: 05:00 Mono - start from: 17:00 (HH:MM)
	<input type="button" value="Save Time Settings"/>

You can define the period to change the color mode automatically. To set the time, type the time in “Color - start from” and “Mono - start from” fields, and then click **[Save Time Settings]** to save the configuration.

Synchronize with Digital-Input-1:

The ICR will be synchronized with Digital-Input-1, and the Digital-Input-1 cannot be used by user for other purpose. **This option is for specific camera model, please do not select this option with this camera.**

Audio Setting

This device supports 2-way audio. **Note, the audio will not be smooth when enable SD card recording function simultaneously.**



Audio Setting

Audio Setting	
Audio from IP Camera to PC	
<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
Audio Type:	G.711 (64Kbps) ▼
<input type="button" value="Apply"/>	
Adjust Volume	
Mic-In:	5 ▼
Line-Out:	5 ▼
<input type="button" value="Default"/>	

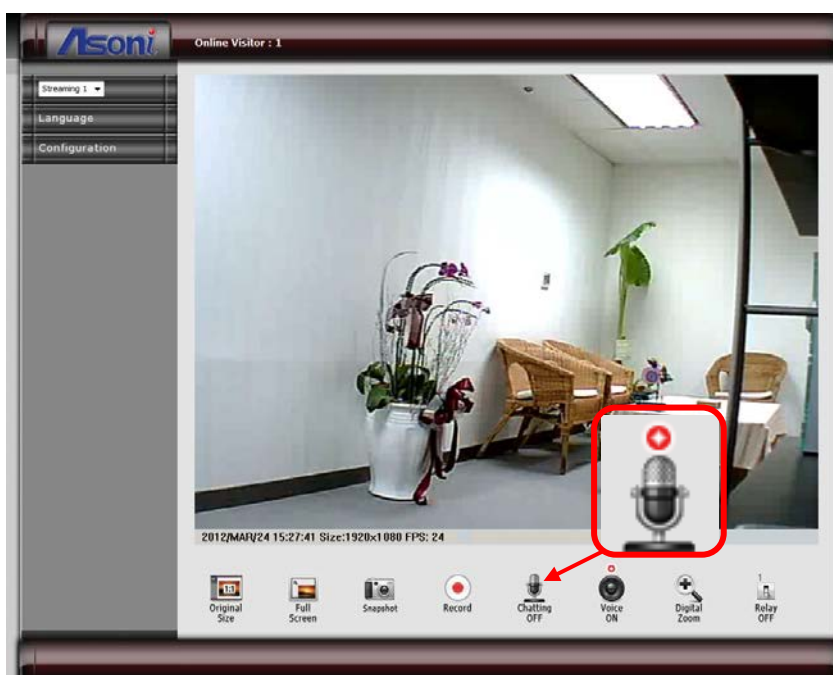
Audio from Device to Local PC

For this device to local PC, select **[Enable]** and then click **[Apply]** to start this function. If set to **[Disable]**, the **[Voice]** icon on Live View page is not workable.

You can also change the Audio Type if necessary.

Audio from Local PC to This Device

For local PC to this device, click **[Chatting]** icon on the Live View page and then talk to the microphone connected on PC.



Adjust Volume

Adjust Volume	
Mic-In:	5 ▼
Line-Out:	5 ▼
<input type="button" value="Default"/>	

The volume level of Microphone-In and Audio-Out can be adjusted.

Click **[Default]** button will back to the factory default value.

C. Network Setting

Network Setting



Network Setting

Network Setting	
IP Assignment	
<input type="radio"/> DHCP <input checked="" type="radio"/> Static IP	
IP Address:	192.168.1.200
Subnet Mask:	255.255.255.0
Gateway:	192.168.1.254
DNS 1:	168.95.1.1
DNS 2:	168.95.192.1
Port Assignment	
HTTP Port:	80
HTTPS Port:	443
	HTTPS Setting
UPnP Setting	
UPnP:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
UPnP Port Forwarding:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
External HTTP Port:	80
External HTTPS Port:	443
External RTSP Port:	554
RTSP Server Setting	
RTSP Server:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
RTSP Authentication:	Disable ▾
RTSP Port:	554
RTP Start Port:	5000 [1024..9997]
RTP End Port:	9000 [1027..10000]
Multicast Setting (Based on the RTSP Server)	
Streaming 1:	
IP Address:	234.5.6.78 [224.3.1.0 ~ 239.255.255.255]
Port:	6000 [1 ~ 65535]
TTL:	15 [1 ~ 255]
Streaming 2:	
IP Address:	234.5.6.79 [224.3.1.0 ~ 239.255.255.255]
Port:	6001 [1 ~ 65535]
TTL:	15 [1 ~ 255]
Onvif Setting	
Onvif Version:	<input checked="" type="radio"/> V1.02 <input type="radio"/> V1.01 <input type="radio"/> Disable
Security:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
RTSP Keepalive:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
<input type="button" value="Apply"/>	

IP Assignment

DHCP: If this device behinds a router and the router provides DHCP service, using DHCP, this device will get all network parameters from the router automatically.

Static: Assign IP address, subnet mask, gateway, and DNS manually.

Port Assignment

Set the port if necessary. If this device will be connected via Internet, configure the NAT (Network Address Translation) in router to match the port assignment.

HTTP Port: Set the port for HTTP connection. The default is “80”, change the port if you want to use router’s NAT (Network Address Translation) to make this device can be linked from Internet.

HTTPS Port: Set the port for HTTPS connection. The default is “443”, change the port if you want to use router’s NAT (Network Address Translation) to make this device can be linked from Internet.

UPnP Setting

UPnP: Enable or disable the UPnP protocol.

This device supports UPnP, if the UPnP service is enabled on your computer, the device will automatically be detected and a new icon will be added to “My Network Places”.

Note: UPnP service must be enabled on your computer.

The Windows Vista and Windows 7 have enabled UPnP service by default. To activate UPnP service in Windows XP, please follow the procedure:

1. Open the “Control Panel” from the “Start” menu.
2. Select “Add/Remove Programs”.
3. Select “Add/Remove Windows Components” and open “Networking Services” section.
4. Click “Details” and select “UPnP” to setup the service.
5. The network device icon will be added to “My Network Places”.
6. You may double-click the network device icon to access it via IE browser.

UPnP Port Forwarding: Enable or disable the “UPnP Port Forwarding” function.

The “UPnP Port Forwarding” function provides an easy way to configure the NAT (Network Address Translation) in router. If the router equips “UPnP Port Forwarding” function too, this device will ask the router to open the “External HTTP Port”, “External HTTPS Port” and “External RTSP Port” for this device automatically. Therefore, you don’t need to configure the Port Forwarding manually.

Note: Not all routers equip “UPnP Port Forwarding” function. The device will report whether this function is successful after click **[Apply]** button.

RTSP Server Setting

RTSP Server: The video stream can be direct retrieve via RTSP connection, you can close this function by disable this option.

RTSP Authentication: If you select and enable this function, the remote client must meet the authentication to retrieve video stream via RTSP connection.

RTSP Port: Set the port for transfer the video and audio. The default is “554”, change the port if you want to use router’s NAT (Network Address Translation) to make this device can be linked from Internet.

RTP Port: Set the port range of RTP port.

In RTSP mode, you may use TCP and UDP for connecting. TCP connection uses RTSP Port. UDP connection uses RTP Start and End Port.

Multicast Setting (Based on the RTSP Server)

Multicast addressing is a network technology for the delivery of streaming to a group of destinations simultaneously using the most efficient strategy to deliver the messages over each link of the network only once, creating copies only when the links to the multiple destinations split. To implement the Multicast, a switch or router that supports Multicast function is necessary in the network.

If your network supports Multicast, you can configure the device to enable this function by setup the following:

IP Address: This is the multicast group address the streaming should be sent to. You should configure each recipient with the same multicast group address and receive the streaming from this address. The range is 224.3.1.0 ~ 239.255.255.255

Port: The multicast port. The range is 1 ~ 65535

TTL: Time-To-Live (TTL) for Multicast Packets. This value decides how "far" from a sending host a given multicast packet should be forwarded.

Onvif Setting

This device supports Onvif standard, you can configure the following settings to compatible with the NVC (Network Video Client) such as NVR or recording software:

Onvif Setting	
Onvif Version:	<input checked="" type="radio"/> V1.02 <input type="radio"/> V1.01 <input type="radio"/> Disable
Security:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
RTSP Keepalive:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Onvif Version: Select the version of Onvif standard, or disable the Onvif output.

Security: Enable or disable the Onvif security authentication.

RTSP Keepalive: If select “Enable”, when the NVC doesn’t send the command for keeping the RTSP connection, this device will terminate the RTSP connection. If select “Disable”, this device will always keep the RTSP connection. If the “Time-out” error happens on NVC side, please disable this function.

*After set up, click **[Apply]** to save the settings.*

Mail / FTP / Samba Setting

To send out the event video to E-mail, FTP or Samba network storage, please set up the configuration first.



Mail/FTP/Samba

Mail / FTP / Samba	
Mail Setting	
Login Method:	Account ▾
Send Mail Server:	smtp.mailserver.com
User Name:	test
Password:	••••
Sender's Mail:	sender@mailserver.com
Receiver's Mail:	receiver@abcmail.com
Bcc Mail:	boss@abcmail.com
Mail Port:	25 (Default Port = 25)
<input type="checkbox"/> Secure Connect	<input checked="" type="radio"/> TLS <input type="radio"/> SSL
<input type="button" value="Test"/>	
FTP Setting	
FTP Server:	ftp.company.com
User Name:	ftptest
Password:	••••
FTP Port:	21 (Default Port = 21)
Store Path:	/
FTP Mode:	PORT ▾
Auto Create Folder by Date:	Yes ▾ (ex: Store_Path/20100115/121032m.avi)
<input type="button" value="Test"/>	
Samba (Network Storage) Setting	
NAS Location:	\\192.168.11.50\Event (ex: \\NAS IP_Address\Folder)
Workgroup:	WORKGROUP
User Name:	sambatest
Password:	••••
Auto Create Folder by Date:	Yes ▾ (ex: NAS_Location/20100115/121032m.avi)
<input type="button" value="Test"/>	
<input type="button" value="Apply"/>	

Mail Setting

Mail Setting	
Login Method:	Account ▼
Send Mail Server:	smtp.mailserver.com
User Name:	test
Password:	••••
Sender's Mail:	sender@mailserver.com
Receiver's Mail:	receiver@abcmail.com
Bcc Mail:	boss@abcmail.com
Mail Port:	25 (Default Port = 25)
<input type="checkbox"/> Secure Connect	<input checked="" type="radio"/> TLS <input type="radio"/> SSL
<input type="button" value="Test"/>	

Login Method: This device provides 2 kinds of mail settings. “Anonymous” for the mail server which doesn’t need login with user name and password. “Account” for the mail server which needs login with user name and password.

Send Mail Server: The IP address or URL of the send-mail server.

User Name / Password: The user name and password of the sender to login mail server and send the mail.

Sender’s Mail: The sender’s mail address.

Receiver’s Mail: The receiver’s mail address.

BCC Mail: The mail address to receive the mail also.

Mail Port: The port of the mail service. Default is 25.

Secure Connect: Enable this function if your mail server needs it.

FTP Setting

FTP Setting	
FTP Server:	ftp.company.com
User Name:	ftptest
Password:	••••
FTP Port:	21 (Default Port = 21)
Store Path:	/
FTP Mode:	PORT ▼
Auto Create Folder by Date:	Yes ▼ (ex: Store_Path/20100115/121032m.avi)
<input type="button" value="Test"/>	

FTP Server: The IP address or URL of the FTP server.

User Name / Password: The user name and password to log in the FTP server.

FTP Port: The port of the FTP service. Default is 21.

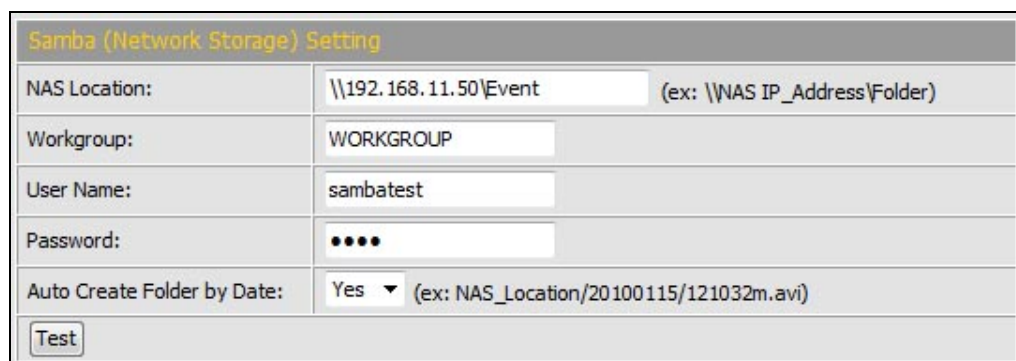
Store Path: The path to save the sent video file.

FTP Mode: Select “PORT” or “PASV” to fit the FTP server. “PORT” is for sending file to an Active FTP server; “PASV” is for sending file to a Passive FTP server.

Auto Create Folder by Date: If select “Yes”, a folder will be created under the “Store Path” and named with the date, and then the video file will be saved in this folder. If select “No”, the video file will be saved in the “Store Path” without folder.

Samba (Network Storage) Setting

“Samba” is a networking protocol provides file sharing service between network devices. If you have a network storage is running Samba service, this camera can send the event video or snapshot to the network storage directly.



Samba (Network Storage) Setting	
NAS Location:	<input type="text" value="\\192.168.11.50\Event"/> (ex: \\NAS IP_Address\Folder)
Workgroup:	<input type="text" value="WORKGROUP"/>
User Name:	<input type="text" value="sambatest"/>
Password:	<input type="password" value="••••"/>
Auto Create Folder by Date:	Yes <input type="button" value="v"/> (ex: NAS_Location/20100115/121032m.avi)
<input type="button" value="Test"/>	

NAS Location: The location of the Samba network storage, including IP address or URL and the folder, the event video or snapshot will be send to this location.

Workgroup: Type the work group this Samba network storage belong to.

User Name / Password: The user name and password to log in the Samba network storage.

Auto Create Folder by Date: If select “Yes”, a folder will be created under the “NAS Location” and named with the date, and then the video file will be saved in this folder. If select “No”, the video file will be saved in the “NAS Location” without folder.

*After set up, click **[Apply]** to save the settings.*

Test the Settings

You can click **[Test]** button, this device will send a test mail to receiver’s mail box, or upload a test file to FTP site and the Samba network storage, to make sure the

settings of mail, FTP or Samba network storage are correct.

PPPoE / DDNS Setting



PPPoE/DDNS Setting

PPPoE & Dynamic DNS Setting	
PPPoE Setting	
<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
User Name:	adsluser
Password:	••••
Send E-mail after Dialed:	<input checked="" type="checkbox"/> Enable
E-mail Subject:	PPPoE From IP Camera
DDNS Setting	
<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
Provider:	dyndns.org ▼
Host Name:	test.dyndns.org
User Name:	test
Password:	••••
Scheduled Update:	1440 Minutes
Status	
<div style="border: 1px solid gray; padding: 5px;">http://test.dyndns.org</div>	
<input type="button" value="Apply"/>	
Note: <ol style="list-style-type: none"> Schedule Update: Depends on the input time of Scheduled Update, it will update DDNS's web site automatically. The time range is from 5 to 5000 minutes. *0: It will not update. dyndns.org & 3322.org: Update once per day is recommended (1440 minutes per day). If updated too frequently, it will be blocked. 	

PPPoE Setting

If this device connects to an ADSL modem directly and want to use PPPoE connection, select **[Enable]** and then set the parameters in this page.

PPPoE Setting	
<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
User Name:	adsluser
Password:	••••
Send E-mail after Dialed:	<input checked="" type="checkbox"/> Enable
E-mail Subject:	PPPoE From IP Camera

Enable/ Disable: Enable or disable the PPPoE connection.

User name/ Password: Input the user name and password of the PPPoE connection.

Send E-mail After Dialed: If select [**Enable**], when connect to the Internet via PPPoE, this device will send a mail with the Subject to a specific mail account, this mail contains the public IP address of the ADSL connection. To set the mail account, please refer to [Configuration → Network Setting → Mail/FTP/Samba](#) page.

E-mail Subject: The subject of the E-mail will be sent.

DDNS Setting

This device supports DDNS, set the parameters in this page.

DDNS Setting	
<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
Provider:	dyndns.org ▼
Host Name:	test.dyndns.org
User Name:	test
Password:	••••
Scheduled Update:	1440 Minutes
Status	
<div style="border: 1px solid gray; padding: 5px;"> http://test.dyndns.org </div>	
<input type="button" value="Apply"/>	
Note: <ol style="list-style-type: none"> Schedule Update: Depends on the input time of Scheduled Update, it will update DDNS's web site automatically. The time range is from 5 to 5000 minutes. *0: It will not update. dyndns.org & 3322.org: Update once per day is recommended (1440 minutes per day). If updated too frequently, it will be blocked. 	

There are several DDNS providers can be selected. Select the provider from the pull-down list, input Hostname, User name, Password and the Schedule Update time, and then click **[Apply]** to connect to the DDNS provider.

*After set up, click **[Apply]** to save the settings.*

The “Status” field will display the message to indicate the status of DDNS service.

Updating: Information update.

Idle: Stop service.

http://<hostname (username)>.<provider>.com: DDNS registration successful, can now link to the camera with this URL address.

Update Failed, the name is already registered: The hostname or username has already been used. Please change it.

Update Failed, check your internet connection: Network connection failed.

Update Failed, please check the account information with you provider: The input hostname, username or password may be wrong.

D. Network (Advance) Setting

HTTPS Setting

HTTPS (Hypertext Transfer Protocol Secure) is a combination of Hypertext Transfer Protocol (HTTP) with SSL/TLS protocol. It provides encrypted communication and secure identification of a network web server. Https can help protect streaming data transmission over the network on the higher security level.



HTTPS Setting

HTTPS Setting	
Created Request	
Subject:	C=TW , ST= , L= , O= , OU= , CN=
Date:	2012/Mar/24 16:27:52
<input type="button" value="Content"/>	<input type="button" value="Remove"/>
Installed Certificate	
Subject:	C=TW , ST= , L= , O= , OU= , CN=
Date:	Apr 23 09:05:24 2011 GMT
<input type="button" value="Content"/>	<input type="button" value="Remove"/>
Connection Types	
Connection Type:	HTTP and HTTPS ▼

Before setting new request, please remove old secure identification at Http connection type.

Created Request	
Subject:	C=TW , ST= , L= , O= , OU= , CN=
Date:	2012/Mar/24 16:27:52
<input type="button" value="Content"/>	<input type="button" value="Remove"/>
Installed Certificate	
Subject:	C=TW , ST= , L= , O= , OU= , CN=
Date:	Apr 23 09:05:24 2011 GMT
<input type="button" value="Content"/>	<input type="button" value="Remove"/>
Connection Types	
Connection Type:	HTTP ▼

Created Request

Create Request	
Country:	<input type="text"/>
State or Province:	<input type="text"/>
Locality:	<input type="text"/>
Organization:	<input type="text"/>
Organizational Unit:	<input type="text"/>
Common Name:	<input type="text"/>
<input type="button" value="Apply"/>	

Input the secure identification and then click **[Apply]** to save the settings.

Install Certificate

Install Signed Certificate	
Signed Certificate:	<input type="text"/> <input type="button" value="Browse..."/>
<input type="button" value="Install"/>	
Create Self-Signed Certificate	
Country:	<input type="text"/>
State or Province:	<input type="text"/>
Locality:	<input type="text"/>
Organization:	<input type="text"/>
Organizational Unit:	<input type="text"/>
Common Name:	<input type="text"/>
Validity:	<input type="text"/> Days
<input type="button" value="Apply"/>	

There are two ways to set Certificate – “Install Signed Certificate” and “Create Self-Signed Certificate”.

Input the necessary data and then click **[Apply]** to save the settings.

SNMP Setting

SNMP (Simple Network Management Protocol) is an Internet-standard protocol for managing devices on IP networks. It is used mostly in network management systems to monitor network-attached devices for conditions that warrant administrative attention. SNMP exposes management data in the form of variables on the managed systems, which describe the system configuration.



SNMP Setting

SNMP	
SNMP Setting	
<input type="checkbox"/> SNMPv1 <input type="checkbox"/> SNMPv2c	
Write Community:	<input type="text" value="write"/>
Read Community:	<input type="text" value="public"/>
<input type="checkbox"/> SNMPv3	
Write Security Name:	<input type="text" value="write"/>
Authentication Type:	<input checked="" type="radio"/> MD5 <input type="radio"/> SHA
Authentication Password:	<input type="text"/>
Encryption Type:	<input checked="" type="radio"/> DES <input type="radio"/> AES
Encryption Password:	<input type="text"/>
Read Security Name:	<input type="text" value="public"/>
Authentication Type:	<input checked="" type="radio"/> MD5 <input type="radio"/> SHA
Authentication Password:	<input type="text"/>
Encryption Type:	<input checked="" type="radio"/> DES <input type="radio"/> AES
Encryption Password:	<input type="text"/>
<input type="checkbox"/> SNMPv1/ v2c Trap	
Trap Address:	<input type="text"/>
Trap Community:	<input type="text" value="public"/>
Trap Event:	<input type="checkbox"/> Cold Start <input type="checkbox"/> Setting Changed <input type="checkbox"/> Network Disconnected <input type="checkbox"/> V3 Authentication Failed <input type="checkbox"/> SD Insert/ Remove
<input type="button" value="Apply"/>	

SNMPv1 and SNMPv2

To use SNMPv1 or SNMPv2, click the checkbox to enable SNMPv1 or SNMPv2, and then input the name of Write Community and Read Community.

SNMPv3

To use SNMPv3, click the checkbox to enable SNMPv3, and then set Security Name, Authentication Type, Authentication Password, Encryption Type, Encryption Password of Write mode and Read mode.

SNMPv1/ v2c Trap

Enable “SNMPv1/ v2c Trap” can detect the Trap server. Please click the checkbox to select what event need to be detected.

*After set up, click **[Apply]** to save the settings.*

IP Filter Setting

The IP Filter function allows you to create the IP address list to manage the clients that are allowed or denied to access this device.



IP Filter Setting

Access List

IP Address Filter Setting

Enable IP address filter

Allow Deny

IPv4 IP Address: Single address:

IPv4 IP Address List

No.	IP Address	Filter	Action
1	192.168.1.1-192.168.1.100	allow	<input type="button" value="Remove"/>
2	192.168.1.101-192.168.1.200	deny	<input type="button" value="Remove"/>
3			<input type="button" value="Remove"/>
4			<input type="button" value="Remove"/>
5			<input type="button" value="Remove"/>
6			<input type="button" value="Remove"/>
7			<input type="button" value="Remove"/>
8			<input type="button" value="Remove"/>
9			<input type="button" value="Remove"/>
10			<input type="button" value="Remove"/>

Administrator Access

Allow administrator always access this device

Administrator IP Address:

IP Address Filter Setting

Enable IP address filter: Click the checkbox to enable this function.

IPv4 IP Address: Input the IP address (single or range) that will be allowed or denied to access this device. After input the IP address, click **[Add]** to save it, the IP address will be listed in “IPv4 IP Address List”.

IPv4 IP Address List: Here lists the Allow/ Deny IP addresses. To remove the IP address from the list, just click **[Remove]** button on the right.

Administrator Access

Administrator Access	
<input checked="" type="checkbox"/>	Allow administrator always access this device
Administrator IP Address:	<input type="text" value="192.168.1.250"/>

To always allow the administrator access this device, click the checkbox to enable this function, and the input the IP address of administrator.

After set up, click **[Apply]** to save the settings.

QoS/ DSCP Setting

DSCP (Differentiated Services Code point) specifies a simple mechanism for classifying and managing network traffic and provide QoS (Quality of Service) on IP networks. DSCP is a 6-bit in the IP header for packet classification purpose. Please define the reserve for Live Stream, Event/ Alarm and Management.



QoS/ DSCP Setting

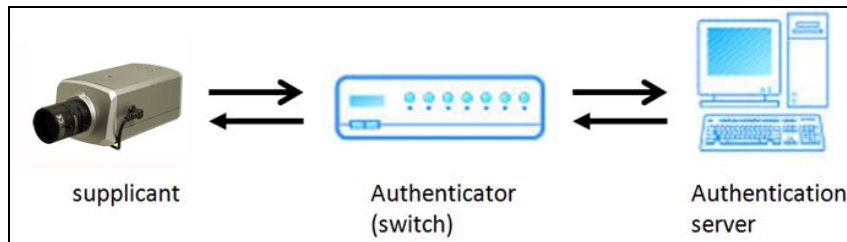
QoS/DSCP	
QoS/DSCP Setting	
<input type="checkbox"/> Enable QoS/DSCP	
Live Stream:	<input type="text" value="0"/> (0~63)
Event/ Alarm:	<input type="text" value="0"/> (0~63)
Management:	<input type="text" value="0"/> (0~63)
<input type="button" value="Apply"/>	

After set up, click **[Apply]** to save the settings.

IEEE 802.1x Setting

IEEE 802.1x is an IEEE standard for port-based Network Access Control. It provides an authentication mechanism to device wishing to attach to a LAN or WLAN.

The EAPOL protocol support service identification and optional point to point encryption over the local LAN segment.



IEEE802.1x Setting

IEEE 802.1x/ EAP-TLS		
IEEE 802.1x Setting		
<input type="checkbox"/> Enable IEEE 802.1x		
Eapol Version:	<input checked="" type="radio"/> V1 <input type="radio"/> V2	
Identity:	<input type="text"/>	
Private Key Password:	<input type="text"/>	
<input type="button" value="Apply"/>		
CA Certificate:	<input type="text"/> <input type="button" value="Browse..."/>	<input type="button" value="Upload"/>
Status:	<input type="text"/>	<input type="button" value="Remove"/>
Client Certificate:	<input type="text"/> <input type="button" value="Browse..."/>	<input type="button" value="Upload"/>
Status:	<input type="text"/>	<input type="button" value="Remove"/>
Client Private Key:	<input type="text"/> <input type="button" value="Browse..."/>	<input type="button" value="Upload"/>
Status:	<input type="text"/>	<input type="button" value="Remove"/>

Please check what version of the authenticator and authentication server support. This device supports EAP-TLS method. Please enter ID, password issued by the CA, and then click **[Apply]** to save the settings.

Then, upload the related certificates.

E. Event Handling

Event Setting

This device supports multiple event settings.



Event

Event Setting

Motion Detection

Set Area:	Draw/Clear Area1	Draw/Clear Area2	Draw/Clear Area3
Sensitivity:	5	5	5
<input checked="" type="checkbox"/> Detect Area 1:	<input checked="" type="checkbox"/> E-mail <input type="checkbox"/> FTP <input checked="" type="checkbox"/> Out1 <input checked="" type="checkbox"/> Save to SD card <input type="checkbox"/> Save to Samba	<input type="checkbox"/> E-mail <input checked="" type="checkbox"/> FTP <input type="checkbox"/> Out1 <input checked="" type="checkbox"/> Save to SD card <input type="checkbox"/> Save to Samba	<input type="checkbox"/> E-mail <input checked="" type="checkbox"/> FTP <input type="checkbox"/> Out1 <input checked="" type="checkbox"/> Save to SD card <input type="checkbox"/> Save to Samba
<input checked="" type="checkbox"/> Detect Area 2:	<input type="checkbox"/> E-mail <input checked="" type="checkbox"/> FTP <input type="checkbox"/> Out1 <input checked="" type="checkbox"/> Save to SD card <input type="checkbox"/> Save to Samba		
<input checked="" type="checkbox"/> Detect Area 3:	<input type="checkbox"/> E-mail <input checked="" type="checkbox"/> FTP <input type="checkbox"/> Out1 <input checked="" type="checkbox"/> Save to SD card <input type="checkbox"/> Save to Samba		
Log :	<input type="checkbox"/> E-mail <input type="checkbox"/> FTP <input type="checkbox"/> Save to Samba		
E-Mail Subject:	IP Camera Warning!		
Detection Interval:	10 sec <small>a period of time between every two motions detected.</small>		
<input type="checkbox"/> Enable motion detection based on - Schedule Time			

Record File Setting

Record Format:	Video(Record time = [PreAlarm] ~ [PostAlarm])
----------------	---

Pre and Post Record Time Setting

Pre Alarm:	5 sec	Post Alarm:	5 sec
------------	-------	-------------	-------

Network Disconnection Detect

When Dis-connected:	<input type="checkbox"/> Record Video into SD Card
---------------------	--

Specific IP Detection

Detect IP:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
IP Address:	www.google.com
Detection Interval:	30 sec
When Dis-connected:	<input type="checkbox"/> Record Video into SD Card

This device supports 4 kinds of event detections:

- Motion Detection.
- Digital Input Detection.
- Network Disconnection Detection: This event will be triggered once the wire network is disconnected.
- Specific IP Detection: This event will be triggered once the network connection with a specific IP address is disconnected.

Motion Detection

This device allows 3 areas for detect motion. When motion detection is triggered, it can send the video or snapshot to specific mail address; transmit the video or snapshot to remote FTP server or Samba network storage; trigger the digital out; record video or snapshot into local SD card.

Event Setting



Motion Detection

Set Area:	Draw/Clear Area1	Draw/Clear Area2	Draw/Clear Area3
Sensitivity:	5	5	5
<input checked="" type="checkbox"/> Detect Area 1:	<input checked="" type="checkbox"/> E-mail	<input type="checkbox"/> FTP	<input checked="" type="checkbox"/> Out1
<input checked="" type="checkbox"/> Detect Area 2:	<input type="checkbox"/> E-mail	<input checked="" type="checkbox"/> FTP	<input type="checkbox"/> Out1
<input checked="" type="checkbox"/> Detect Area 3:	<input type="checkbox"/> E-mail	<input checked="" type="checkbox"/> FTP	<input type="checkbox"/> Out1
Log :	<input type="checkbox"/> E-mail <input type="checkbox"/> FTP <input type="checkbox"/> Save to Samba		
E-Mail Subject:	IP Camera Warning!		
Detection Interval:	10 sec a period of time between every two motions detected.		
<input type="checkbox"/> Enable motion detection based on - Schedule Time			

Set the Area: To set up or clear the motion area, click **[Draw/Clear Area]** button on

“Set Area” row, and then use mouse to drag the area on the video.

Adjust the Sensitivity: To adjust the sensitivity of detection, select the level from the pull-down list.

Activate Motion Detection: To activate the motion detection, enable the [**Detect Area**] check box

Actions when Motion Detection is Trigger: Select what actions will be taken once the motion detection is triggered in each area.

- E-mail: When the motion detection is triggered in this area, send the recorded video or snapshot to the specific mail address.
- FTP: When the motion detection is triggered in this area, send the recorded video or snapshot to the specific FTP site.
- Save to Samba: When the motion detection is triggered in this area, send the recorded video or snapshot to the Samba network storage.

To set the mail account FTP site and Samba network storage, please refer to [Configuration → Network Setting → Mail/FTP/Samba](#) page.

- Out1: When the motion detection is triggered in this area, turn on the Digital Output 1.
- Save to SD Card: When the motion detection is triggered in this area, record the video or snapshot into the local SD card.

Log: If “Save to SD Card” option has been selected for action, you can determine whether send a message to the specific mail address FTP site or Samba network storage.

E-Mail Subject: The subject of the E-mail will be sent.

Detection Interval: This option provides two functions:

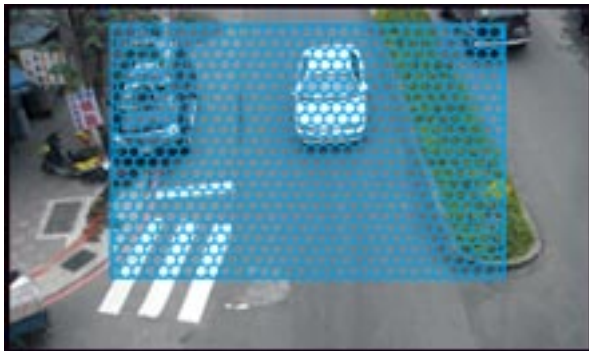
- The interval time between multiple detections. For example, if the time set to 10 seconds, when the motion detection is triggered at time 10H:05M:10S, the next detection will be accepted after 10H:05M:20S. The detections between 10H:05M:10S to 10H:05M:19S will not be accepted.
- If the “Out” is selected for the action, the Interval means “Digital Output On” period. For example, if Interval set to 20 seconds, when the motion detection is triggered, the Digital Output will be “On” and lasting for 20 seconds, and then “Off” automatically.

Enable Motion Detection in Schedule Time: Enable this option will automatic activate the motion detection with scheduled time and stop the detection in the other time. Please refer to [Schedule](#) page to setup the schedule time.

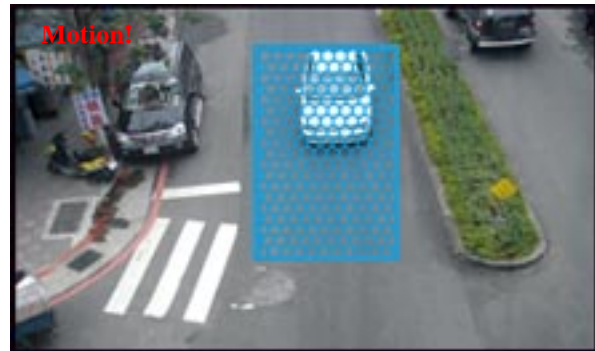
Recommendation of Motion Detection Area

To ensure the Motion Detection works well, and avoid unnecessary trigger, please follow the rules to draw the Motion Detection Areas:

- The moving object larger than the 50% of the Motion Detection Area, it will be detected, and the Motion Detection is triggered.
- The moving object smaller than the 50% of the Motion Detection Area, it will not be detected, and the Motion Detection will not be triggered.
- Recommend use 3 smaller Motion Detection Areas to replace a large area.

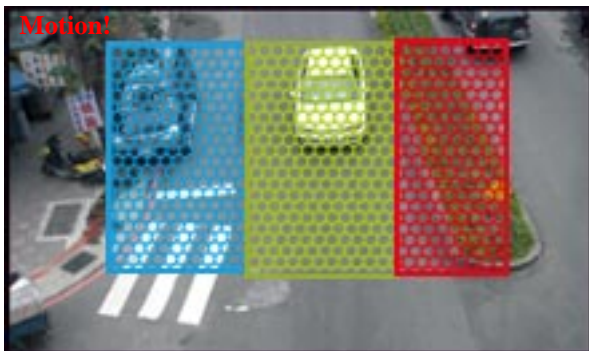


The moving object smaller than the 50% of the motion area, it will not be detected!



The moving object larger than the 50% of the motion area, it will be detected, and the motion is triggered!

To detect the smaller moving object, use 3 motion areas to replace a large motion area, refer the figure below:



The moving object will be detected when it is in any of the 3 motion areas, and the motion is triggered!

Record File Setting

There are 3 methods to record the event video in SD card or send out via E-mail, FTP:

Record File Setting	
Record Format:	Video(Record time = [PreAlarm] ~ [PostAlarm])
Pre and Post Record Time Setting	
Pre Alarm:	5 sec
Post Alarm:	5 sec

Video: When an event (Motion Detection or Digital Input Detection) is triggered, the video will be recorded as still image with AVI format. The beginning and ending time of the file is depending on the [Pre and Post Record Time Setting](#).

Snapshots: This option is available when the “Video Format” of streaming 1 is set as “MJPEG” in [Video Format](#). When an event (Motion Detection or Digital Input Detection) is triggered, this device will take a series of snapshot with JPG format. The beginning and ending time of the snapshot pictures is depending on the [Pre and Post Record Time Setting](#).

Snapshot (Single): This option is available when the “Video Format” of streaming 1 is set as “MJPEG” in [Video Format](#) page. When an event (Motion Detection or Digital Input Detection) is triggered, this device will take a snapshot with JPG format.

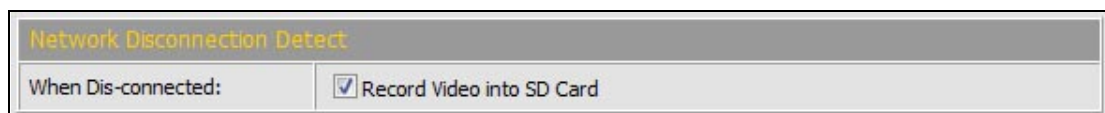
Pre and Post Record Time Setting

Configure the record time for the event recording file. For example, if set “Pre Alarm” as 3 seconds and set “Post Alarm” as 5 seconds, when an event (Motion Detection or Digital Input Detection) is triggered at time 10H:05M:10S, the video will be recorded from 10H:05M:07S to 10H:05M:14S.

Note: Limited by the built-in RAM of this device, when data is too much or video quality set too high, it will cause recording frame drop or decrease the recording time of post alarm.

To avoid the “frame drop” situation, please reduce the bitrate of the video. We recommend connect the device in LAN (Local Network) and set the video as CBR, and Bitrate less than 1.5Mbps.

Network Disconnection Detect



After enable the check box of “Record Video into SD Card”, when the wire network is disconnected, it will save the video into local SD card.

Note: When this event is happen, the frame rate of live video and recorded video will be limited to 5FPS. The longest continue record period of single video file is 20 minutes, and the interval of two video files is fixed with 1 minute.

Specific IP Detection

For the use of recording software, this device supports the detection of the connection of this device and PC. Whenever the connection is disconnected, it records the video to local SD card to make sure the video recording is continuous.

Specific IP Detection	
Detect IP:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
IP Address:	192.168.1.10
Detection Interval:	30 sec ▼
When Dis-connected:	<input checked="" type="checkbox"/> Record Video into SD Card

Detect IP – Enable / Disable: Select to enable or disable this function.

IP Address: The IP address or URL of the PC which installed the recording software.

Detection Interval: The interval time of the detection.

When Dis-connected: After enable the check box of “Record Video into SD Card”, when the network connection of PC is disconnected, it will save the video into local SD card.

Note: When this event is happen, the frame rate of live video and recorded video will be limited to 5FPS. The longest continue record period of single video file is 20 minutes, and the interval of two video files is fixed with 1 minute.

After set up, click **[Apply]** to save the settings.

I/O Setting

This device provides Digital Input and Digital Output. When the Digital Input is triggered, it can send the video or snapshot to specific mail address; transmit the video or snapshot to remote FTP server or Samba network storage; trigger the digital out; record video or snapshot into local SD card.



I/O Setting

I/O Setting	
Digital Input Setting	
Input 1 Sensor Type:	N.O ▾
Input 1 Trigger Action:	<input type="checkbox"/> E-mail <input checked="" type="checkbox"/> FTP <input checked="" type="checkbox"/> Out1 <input checked="" type="checkbox"/> Save to SD card <input type="checkbox"/> Save to Samba
Log:	<input type="checkbox"/> E-mail <input type="checkbox"/> FTP <input type="checkbox"/> Save to Samba
E-Mail Subject:	GPIO In Detected!
Detection Interval:	10 sec ▾
<input type="checkbox"/> Enable Digital Input detection based on - Schedule Time	
Digital Output Setting	
Output Switch Type:	<input type="radio"/> OnOff Switch <input checked="" type="radio"/> Time Switch
Turn-On Time:	10 sec ▾
<input type="button" value="Apply"/>	

Digital Input Setting

Input 1 Sensor Type: Select the type of the sensor which connected to the Digital Input. **[N.O]** means “Normally Opened”, this type of sensor will be triggered when it is closed. **[N.C]** means “Normally Closed”, this type of sensor will be triggered when it is opened.

Input 1 Trigger Action: Select the actions when the Digital Input is triggered.

- E-mail: When the Digital Input is triggered, send the recorded video or snapshot to the specific mail address.
- FTP: When the Digital Input is triggered, send the recorded video or snapshot to the specific FTP site.
- Save to Samba: When the Digital Input is triggered, send the recorded video or snapshot to the Samba network storage.

To set the mail account FTP site and Samba network storage, please refer to [Configuration → Network Setting → Mail/FTP/Samba](#) page.

- Out1: When the Digital Input is triggered, activate the Digital Output 1.

- **Save to SD Card:** When the Digital Input is triggered, record the video or snapshot into to SD card.

Log: If “Save to SD Card” option has been selected for action, you can determine whether send a message to the specific mail address FTP site or Samba network storage.

E-Mail Subject: The subject of the E-mail will be sent.

Detection Interval: This option provides two functions.

- The interval time between multiple detections. For example, if the time set to 10 seconds, when the Digital Input is triggered at time 10H:05M:10S, the next trigger will be accepted after 10H:05M:20S. The triggers between 10H:05M:10S to 10H:05M:19S will not be accepted.
- If the “Out” is selected for the action, the Interval means “Digital Output On” period. For example, if Interval set to 20 seconds, when the Digital Input is triggered, the Digital Output will be “On” and lasting for 20 seconds, and then “Off” automatically.

Enable Digital Input Detection in Schedule Time: Enable this option will automatic activate the Digital-Input detection with scheduled time and stop the detection in the other time. Please refer to [Schedule](#) page to setup the schedule time.

Digital Output Setting

This section is for setup the parameters of Digital Output.

Note: The following settings are available when manually turn on the Relay Out on Live-View page.

Output Switch Type: Select the type of the Digital Output switch. **[On/Off Switch]** will be triggered to On or Off constantly. **[Time Switch]** will be triggered to “On” and lasting for a period time, and then “Off” automatically.

Turn-On Time: If the Digital Output switch is a “Time Switch”, the lasting time of the “On” period can be set here.

*After set up, click **[Apply]** to save the settings.*

Schedule

This function provides the schedule for the following:

- Send Snapshot with the Scheduled Time: automatic send a snapshot to the E-mail address, FTP server or Samba network storage, or save to SD card. The interval time can be set.
- Activate and Stop the Motion Detection with Scheduled Time: if the “Enable Motion Detection in Schedule Time” option in [Configuration → Event Handling → Event Setting → Motion Detection](#) page is enabled, the motion detection will be activated with scheduled time and stop the detection in the other time.
- Activate and Stop the Digital Input Detection with Scheduled Time: if the “Enable Digital Input Detection in Schedule Time” option in [Configuration → Event Handling → I/O Setting](#) page is enabled, the Digital-Input detection will be activated with scheduled time and stop the detection in the other time.



Schedule

Schedule

All	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon.																								
Tue.																								
Wed.																								
Thu.																								
Fri.																								
Sat.																								
Sun.																								

Scheduled Hours

Send and Save Snapshot with Schedule Time

Enable Disable

Snapshot: E-mail FTP Save to SD card Save to Samba

Interval: Second(s) [1..50000]

File Name:

Setup Schedule

Select / Unselect All Time: Click **[All]** of the top-left of the time table to select or

unselect all time. The square in green means the time is selected; the square in light-grey means the time is unselected.

Select / Unselect Specific Time: Click the square of the time table to select or unselect the specific time. The square in green means the time is selected; the square in light-grey means the time is unselected.

Send Snapshot with Scheduled Time

Enable / Disable: To enable or disable the schedule function.

Snapshot: Select the method to send out the snapshot.

- E-mail: Automatic send the snapshot to the specific mail address, the interval time of the snapshot pictures is depending on the Interval setting.
- FTP: Automatic send the snapshot to the specific FTP site, the interval time of the snapshot pictures is depending on the Interval setting.
- Save to Samba: Automatic send the snapshot to the Samba network storage, the interval time of the snapshot pictures is depending on the Interval setting.
To set the mail account FTP site and Samba network storage, please refer to [Configuration → Network Setting → Mail/FTP/Samba](#) page.
- Save to SD Card: Automatic save the snapshot into SD card, the interval time of the snapshot pictures is depending on the Interval setting.

Interval: The interval time of the snapshot pictures. For example, if the time set to 10 seconds, in the scheduled time, the device will send out snapshot every 10 seconds.

File Name: The header of the filename of the snapshot. For example, if you input “Camera” in this field, the filename of the snapshot will be “Camera-yyyymmdd-hhmmss.jpg”, “yyyymmdd” indicates the year, month and date; hhmmss indicates the hour, minute and second.

*After set up, click **[Apply]** to save the settings.*

Micro-SD Card

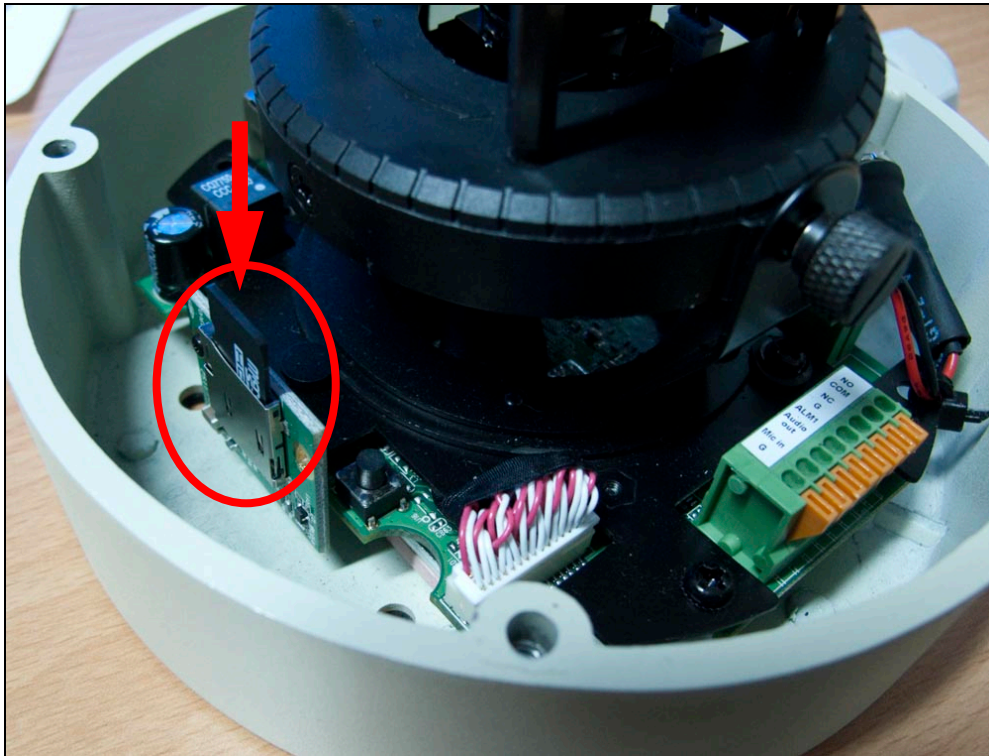
In this page, if a Micro-SD Card is inserted, you can record the video once an event is triggered, play back and manage the recorded files in the Micro-SD Card.

Note: The Micro-SD card must be formatted as FAT or FAT32 file system.

The use of the Micro-SD Card will affect the operation of this device slightly, such as affecting the frame rate of the video.

Install Micro-SD Card

Make sure the direction and pushing Micro-SD card into the slot completely.



Record

Enable [**Save to SD Card**] option in [Event Setting](#) or [I/O Setting](#) page, the video can be recorded into the card once the event is triggered. When the Micro-SD Card is full, it will remove the earliest file automatically.

Playback

When open this page, the date of recorded files shows.



SD Card

Recorded Files in SD Card

20100603

SD Card: << 239M / 239M >>

Format SD Card

Auto Deletion

Auto Deletion: Off (Keep 1/ 2/ 3/ 4...days)

Apply

2010/06/03 Del

Time	Video	Event Type	<input type="checkbox"/>
11:39:32	113932m.avi	Motion Detection	<input type="checkbox"/>
11:39:42	113942m.avi	Motion Detection	<input type="checkbox"/>
11:39:52	113952m.avi	Motion Detection	<input type="checkbox"/>
11:40:02	114002m.avi	Motion Detection	<input type="checkbox"/>
11:40:12	114012m.avi	Motion Detection	<input type="checkbox"/>
11:40:22	114022m.avi	Motion Detection	<input type="checkbox"/>
11:40:32	114032m.avi	Motion Detection	<input type="checkbox"/>
11:40:42	114042m.avi	Motion Detection	<input type="checkbox"/>
11:40:52	114052m.avi	Motion Detection	<input type="checkbox"/>
11:41:02	114102m.avi	Motion Detection	<input type="checkbox"/>

1 2

Files link daily.

The “.avi” extension name of the file means this file is a video file; the “.jpg” extension name means it is a picture file. Click the file to start Microsoft Media Player to play it. If the bandwidth is lower for playback directly, please right-click on the file and select **[Save As...]** to download it to the PC, and then play the downloaded file with Microsoft Media Player.

Note: the video format is compressed with H.264, the PC must install the H.264 decoder. You can install “FFdshow” from the included CD for the decoder.

Delete Recorded File

To delete the recorded file, check the check box of the file, then click **[Del]** button.

Format SD Card

If you want to empty the Micro-SD card, click **[Format SD Card]** to format the card.

To view the recorded files, just click the date, it will show the list of the recorded files.

Auto Deletion

Recorded Files in SD Card	
20100603	
SD Card: << 239M / 239M >>	
<input type="button" value="Format SD Card"/>	
Auto Deletion	
Auto Deletion:	Off ▼ (Keep 1/ 2/ 3/ 4...days)
<input type="button" value="Apply"/>	

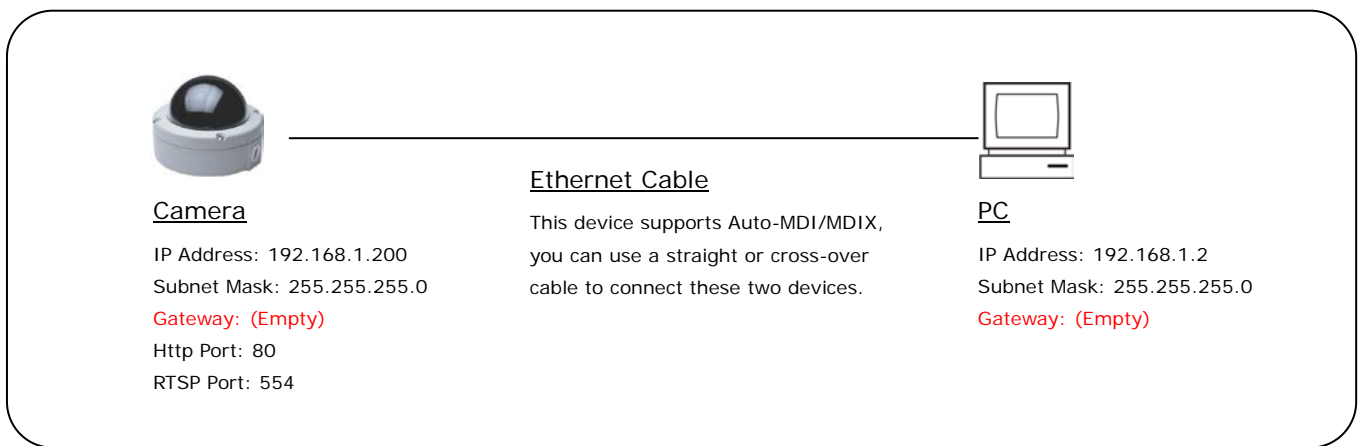
If enable this function, the recorded files before the selected day will be deleted automatically. After select the option, click **[Apply]** to save the setting.

6. Network Configuration

A. Intranet Only

Connects to PC Directly

If you want to connect the camera to PC directly for the very first time setup, please refer to the figure below for the connection.



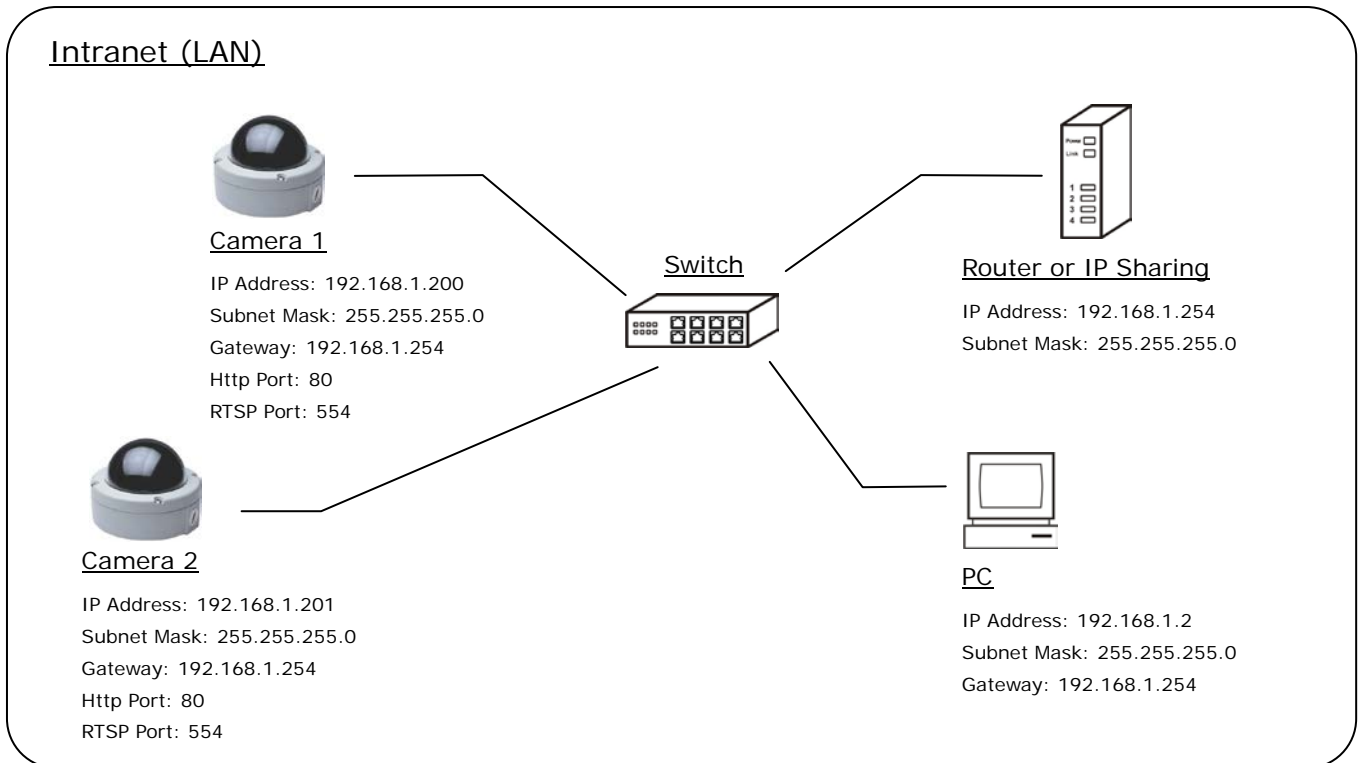
- Connect the camera to PC with Ethernet cable. The camera equips an Auto-MDI/MDIX network connector, you can use a straight or cross-over Ethernet cable.
- Refer to [Configuration → Network → Network](#) page to configure the IP settings.
- Please make sure the IP address of PC and camera are in the same subnet. Ex. [192.168.1.2](#) and [192.168.1.200](#) have the same subnet.
- Set Subnet Mask of PC and camera.
- Clear the Gateway of PC and camera to empty.

For example, if the IP settings have been configured as the above figure, the cameras can be linked with following addresses:

Client	Camera	Link Address	Remark
PC	Camera	http://192.168.1.200	

Connects to an Exist LAN

If the camera will be used in a local network (LAN) and don't allow to access via Internet, please refer to the figure below for the connection.



- Connect the cameras to the Switch.
- Refer to [Configuration → Network → Network](#) page to configure the IP settings.
- Please make sure the IP address of Router, PC and camera are in the same subnet. Ex. [192.168.1.2](#) and [192.168.1.200](#) have the same subnet.
- Set Subnet Mask of Router, PC and cameras.
- Set Gateway of PC and cameras with the same IP address. Usually, the Gateway is the IP address of router.
- Set the IP address of a valid DNS into cameras. An invalid DNS will cause the domain name can't be resolved and reached, such as email address.

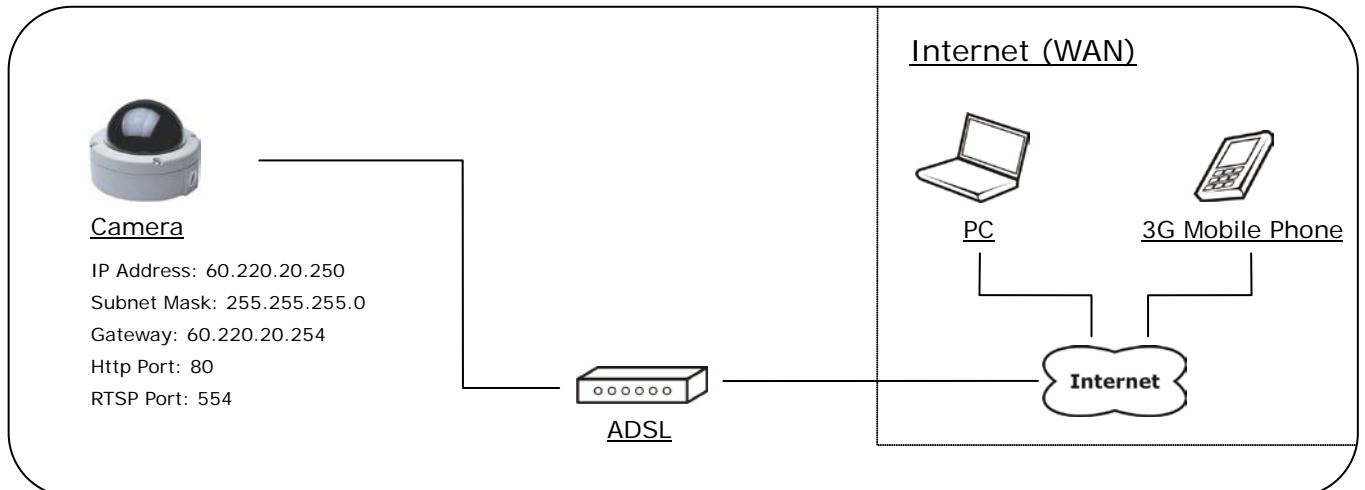
For example, if the IP settings have been configured as the above figure, the cameras can be linked with following addresses:

Client	Camera	Link Address	Remark
PC	Camera 1	http://192.168.1.200	
	Camera 2	http://192.168.1.201	

B. Internet Only

Connects to ADSL with Fixed Public IP Address

If the camera connects to Internet with an ADSL modem and the public IP address of ADSL is fixed, please refer to the figure below for the connection.



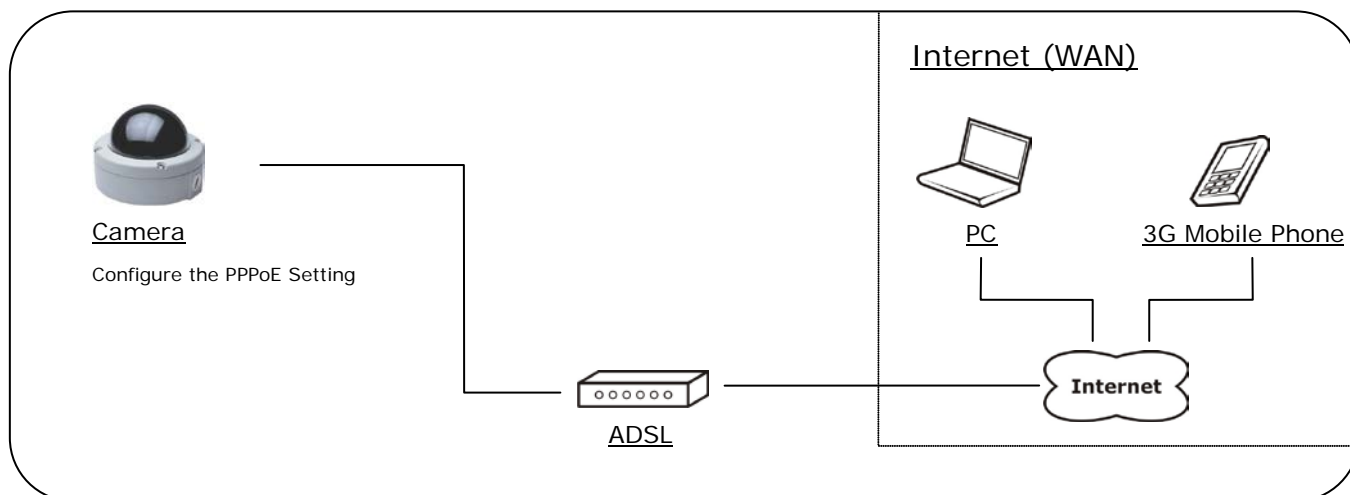
- Connect the camera to the ADSL modem.
- Refer to [Configuration → Network → Network](#) page, configure the IP address, Subnet Mask, Gateway and DNS with the settings that ISP provided for ADSL connection.

For example, if the public IP address is “60.220.20.250”, now the camera can be linked with following addresses:

Client	Link Address	Remark
PC	http://60.220.20.250	
3G Mobile Phone	With audio: rtsp://60.220.20.250/3g Without audio: rtsp://60.220.20.250/3gx	Must enable “3GPP Stream” in Configuration → Video/Audio → Video Format page

Connects to ADSL with Floating Public IP Address (PPPoE)

If the camera connects to Internet with an ADSL modem and the public IP address of ADSL is variable, the camera can use PPPoE function for the connection.



- Connect the camera to the ADSL modem.
- Refer to [Configuration → Network → PPPoE](#) page to configure the PPPoE settings.
- The camera will automatic dial-up and get the public IP address from ISP.
- If you have enable “Send Mail After Dialed” function, the camera will send an email to tell you the current public IP address.

For example, if the public IP address is “60.220.20.250”, now the camera can be linked with following addresses:

Client	Link Address	Remark
PC	http://60.220.20.250	
3G Mobile Phone	With audio: rtsp://60.220.20.250/3g Without audio: rtsp://60.220.20.250/3gx	Must enable “3GPP Stream” in Configuration → Video/Audio → Video Format page

Using DDNS Function

Since the public IP address is variable, you can enable DDNS function to get a fixed URL to instead of the IP address, refer to [Configuration → Network → DDNS](#) page to configure and enable the DDNS function.

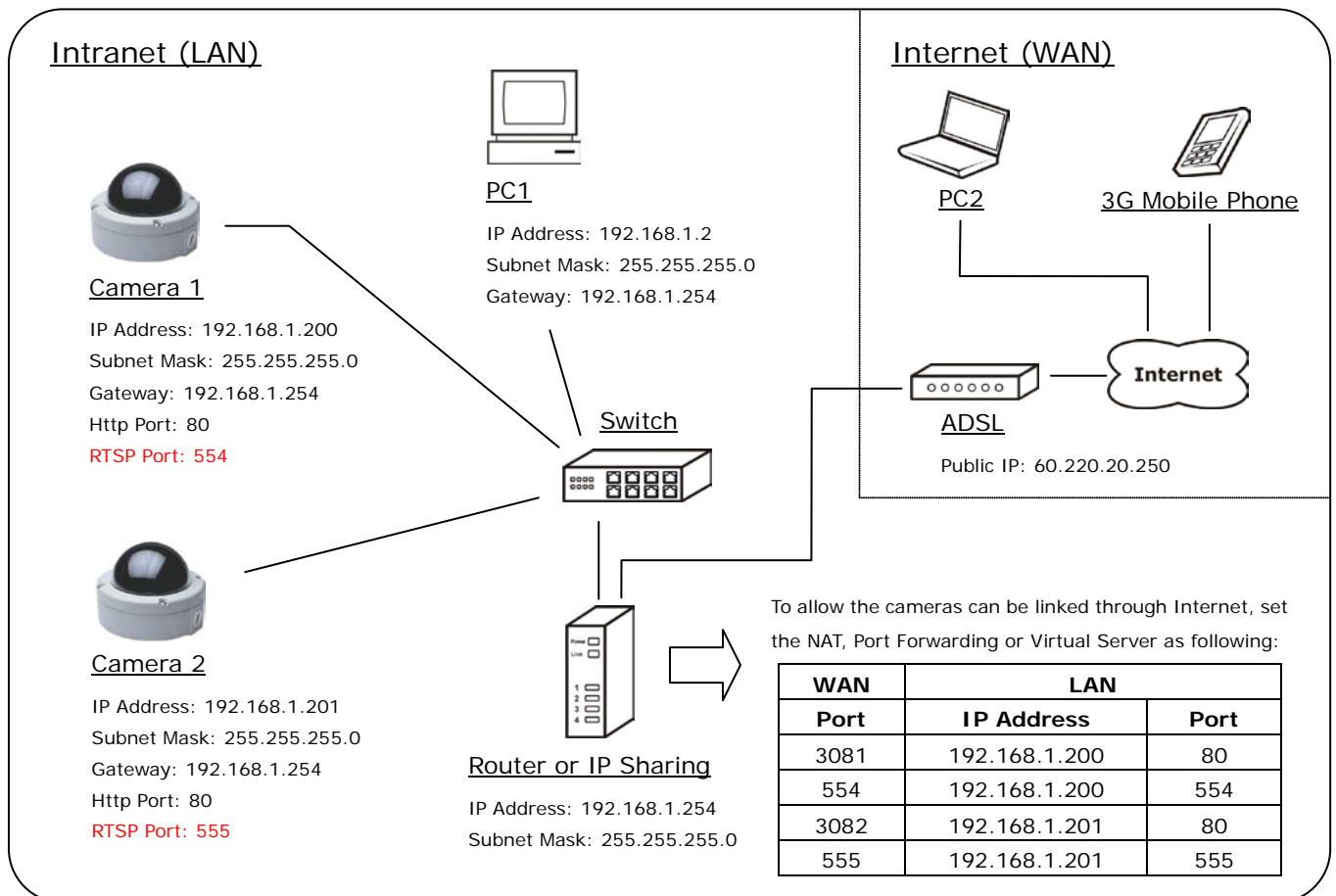
After enable the DDNS, assume the registered URL is “test.dyndns.org”, now the camera can be linked with following URLs:

Client	Link Address	Remark
PC	http://test.dyndns.org	
3G Mobile Phone	With audio: rtsp://test.dyndns.org/3g Without audio: rtsp://test.dyndns.org/3gx	Must enable “3GPP Stream” in Configuration → Video/Audio → Video Format page

C. Intranet + Internet

Connects to Internet with Fixed Public IP Address

If the camera will be added into a local network (LAN), and will be accessed via both Intranet and Internet, please refer to the figure below for the connection.



- Assume the local network will be connected to Internet with ADSL connection, first, configure the router (or IP sharing) with the ADSL connection. Please refer to the user's manual of router for the configuration.
- Connect the cameras to the Switch.
- Refer to [Configuration → Network → Network](#) page to configure the IP settings.
- Configure the cameras with different IP address. Ex. assign camera1 to 192.168.1.200, and assign camera2 to 192.168.1.201
- Please make sure the IP address of Router, PC and cameras are in the same subnet. Ex. [192.168.1.2](#) and [192.168.1.200](#) have the same subnet.

- Set Subnet Mask of Router, PC and cameras.
- Set Gateway of PC and cameras with the same IP address. The Gateway is the IP address of router.
- Set the IP address of a valid DNS into cameras. An invalid DNS will cause the domain name can't be resolved and reached, such as email address.
- Configure the cameras with different RTSP port. Ex. assign camera1 with port 554, and assign camera2 with port 555.
- To allow the cameras can be linked through Internet, set router's NAT (Network Address Translation), Port Forwarding or Virtual Server as following:

Camera	WAN Side		LAN Side			Remark
	Port	Protocol	IP Address	Port	Protocol	
Camera 1	3081	TCP	192.168.1.200	80	TCP	Port for Web page
	554	TCP	192.168.1.200	554	TCP	Port for Video and Audio
Camera 2	3082	TCP	192.168.1.201	80	TCP	Port for Web page
	555	TCP	192.168.1.201	555	TCP	Port for Video and Audio

For example, if the IP settings have been configured as the above figure, the cameras can be linked with following addresses:

Clients in Intranet	Camera	Link Address	Remark
PC1	Camera 1	http://192.168.1.200	
	Camera 2	http://192.168.1.201	

Client from Internet	Camera	Link Address	Remark
PC2	Camera 1	http://60.220.20.250:3081	
	Camera 2	http://60.220.20.250:3082	
3G Mobile Phone	Camera 1	With audio: rtsp://60.220.20.250:554/3g Without audio: rtsp://60.220.20.250:554/3gx	Must enable "3GPP Stream" in Configuration → Video/Audio → Video Format page

	Camera 2	With audio: rtsp://60.220.20.250:555/3g Without audio: rtsp://60.220.20.250:555/3gx	
--	----------	--	--

Connects to Internet with Floating Public IP Address

If the public IP address of ADSL connection is variable, you can enable DDNS function to get a fixed URL to instead of the IP address.

Note: only one device can enable the DDNS function in the local network (LAN), multiple devices use DDNS will update to the DDNS provider too frequently, and the DDNS provider will block your URL.

If the router has DDNS function, use router's DDNS function is recommended. Please refer to the user's manual of router for the configuration.

If the router doesn't have DDNS function, use one of the cameras DDNS function is recommended. Refer to [Configuration → Network → DDNS](#) page to configure and enable the DDNS function.

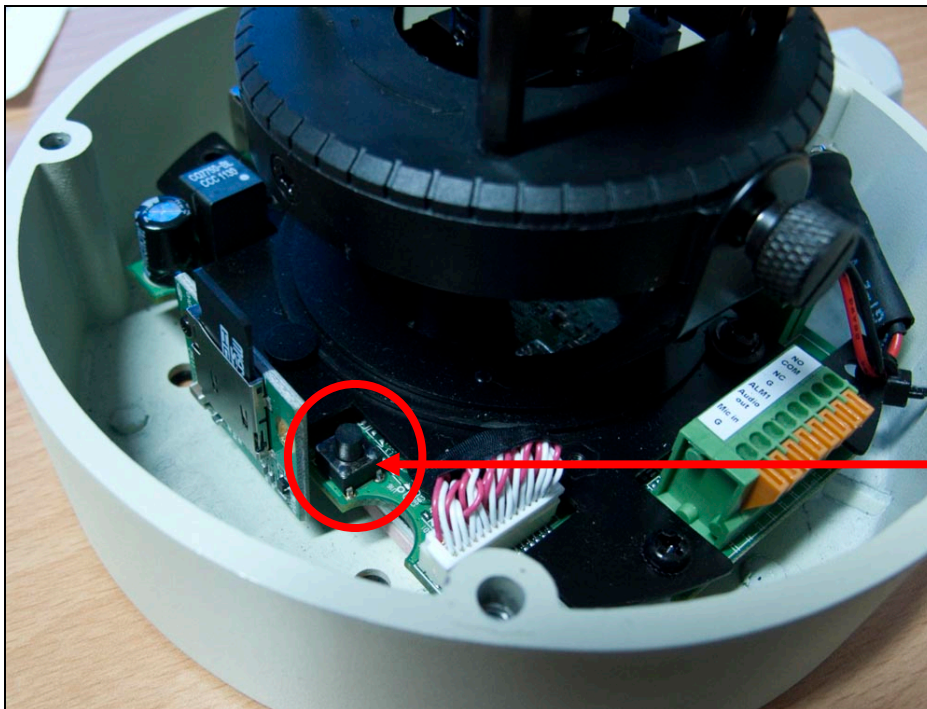
After enable the DDNS, assume the registered URL is "test.dyndns.org", now the cameras can be linked with following URLs:

Client from Internet	Camera	Link Address	Remark
PC2	Camera 1	http://test.dyndns.org:3081	
	Camera 2	http://test.dyndns.org:3082	
3G Mobile Phone	Camera 1	With audio: rtsp://test.dyndns.org:554/3g Without audio: rtsp://test.dyndns.org:554/3gx	Must enable "3GPP Stream" in Configuration → Video/Audio → Video Format page
	Camera 2	With audio: rtsp://test.dyndns.org:555/3g Without audio: rtsp://test.dyndns.org:555/3gx	

7. Factory Default

To recover the default password and other settings, please follow the steps:

1. Power off this device.
2. Remove the cover of device.
3. Push the "Factory Default Button" as shown on the picture below, and keeping push it and don't release.



Factory Default Button

4. Power on the device. Don't release the button during the system booting.
5. It will take around 30 seconds to boot the device.
6. Release the button when the device finishes proceed.
7. Re-login the device using the default username (admin) and password (admin).
8. The IP address is probably restored to the default, in this case, use IP Search utility to search the device. The default IP address is 192.168.1.200

Compatible List of SD Card

The Compatible List of SD Card

Recommended Micro-SD Card	
SanDisk 128M	ADATA 512M
SanDisk 256M	ADATA 4G
SanDisk 512M	Toshiba 128M
SanDisk 1G	Toshiba 256M
SanDisk 2G	Toshiba 4G
SanDisk 4G	Kingston 128M
SanDisk 8G	Kingston 256M
SanDisk 16G	Kingston 512M
SanDisk 32G	Kingston 1G
Transcend 4G	Kingston 32G
Transcend 8G	
Transcend 16G	
Transcend 32G	