

User Manual

Mega-Pixel IP CAMERA

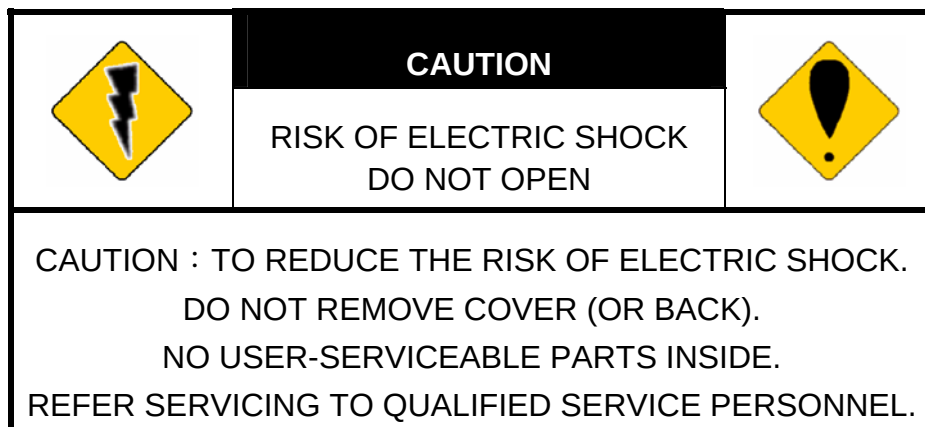


WARINGS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

CAUTION



COPYRIGHT

THE TRADEMARKS MENTIONED IN THE MANUAL ARE LEGALLY REGISTERED TO THEIR RESPECTIVE COMPANIES.

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V1.0 2007/JUNE/21

I. Preface

This IP camera is a high resolution Mega-Pixel IP Camera. It has the web server built in. User can view real-time video via IE browser. It supports MPEG-4 & JPEG video compression which provides smooth and high video quality. The video can be stored in the SD card, and playback remotely.

With user friendly interface, it is an easy-to-use IP camera which is designed for security application.

II. Product Specifications

- MegaPixel Resolution (SXGA)
- MPEG4/ JPEG compression
- Supports SD card for local recording
- 2-way audio
- Supports Cell phone/PDA
- Wireless network connection [Optional]
- Online firmware upgrade
- Real-time video recording
- Compatible with Microsoft Windows Media Player

Specifications

Hardware	
CPU	ARM 9 ,32 bit RISC
SDRAM	64MB
Flash	8MB
Image sensor	1/4" CMOS ,1.5 lux
Lens	4.0mm,F2.0
Audio in/ out	1 in/ 1 out
Power Consumption	LAN: DC 5V, 700mA 3.5W
	WLAN : DC 5V, 900mA 4.5W
Dimensions (W×H×D)	67.1 × 111.7 × 50.6 mm

Network		
Ethernet		10/ 100 Base-T
Wireless (Optional)		802.11b/g
WEP		64/ 128 bit
Network Protocol		HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP
System		
Video Resolution		1280x1024, 640x480, 320x240, 160x120
Video adjust		Brightness, Contrast, exposure, sharpness
Image snapshot		Yes
Full screen monitoring		Yes
Compression format		MPEG-4/ JPEG
Video bitrate adjust		CBR, VBR
Motion Detection		Yes, 3 different areas
Triggered action		Mail, FTP, Save to SD card
Pre/ Post alarm		Yes, configurable
Security		Password protection
Firmware upgrade		HTTP mode, can be upgraded remotely
Simultaneous connection		Up to 10
Audio		2-ways
SD card management		
Recording trigger		Motion Detection, IP check, Network down (Wire connection only)
Video format		AVI, JPEG
Video playback		Yes
File Management		Yes, can be deleted or overwrite
Web browsing requirement		
OS		Windows 2000, XP, 2003, IE 6 or above
Hardware	Suggested	Intel-C 2.0G, RAM : 512MB, Graphic card : 64MB
	Minimum	Intel-C 1.6G, RAM : 256MB, Graphic card : 32MB

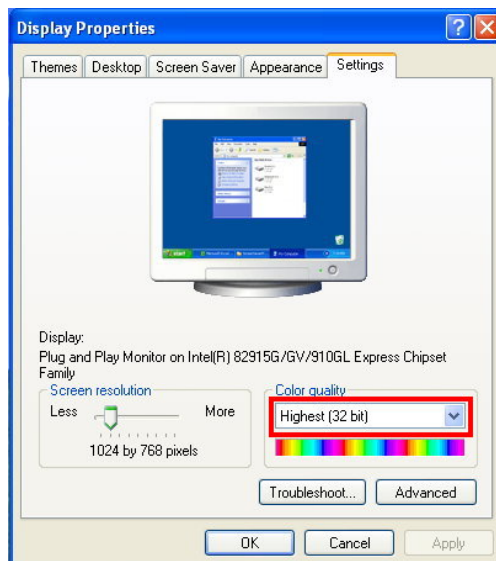
III. Product Installation

A. Monitor Setting

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



- ii. Change color quality to highest (32bit).



B. Hardware Installation

- i. Connect power adaptor



- ii. Connect Ethernet cable



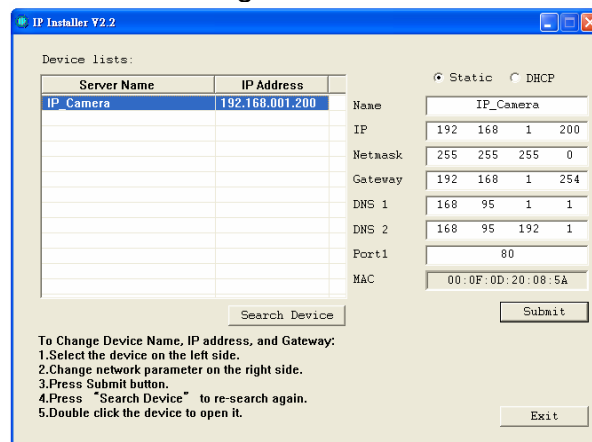
- iii. Connect IP Camera to PC or Network
- iv. Set up the network configurations according to the network environment.
For further explanation, please refer to chapter VI, "Network Configuration for IP CAMERA".

C. IP Assignment

- i. Use the software, "IP Installer" to assign the IP address of IP CAMERA.
The software is in the attached software CD.
- ii. IP Installer supports two languages:
 - a. IPInstallerCht.exe : Chinese version
 - b. IPInstallerEng.exe : English version
- iii. There are 3 kinds of IP configuration.
 - a. Fixed IP (Public IP or Virtual IP)
 - b. DHCP (Dynamic IP)
 - c. Dial-up (PPPoE)
- iv. Execute IP Installer
- v. For Windows XP SP2 user, the following message may show. Please click "Unblock".

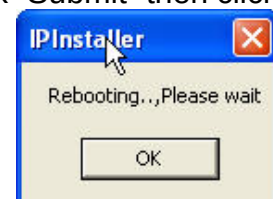


vi. IP Installer configuration:



vii. IP Installer will search all IP Cameras connected on Lan. The user can click "Search Device" to search again.

viii. Click one of the IP Camera listed on the left side. The network configuration of this IP camera will show on the right side. You may change the "name" of the IP Camera to your preference (eg: Office, warehouse). Change the parameter and click "Submit" then click "OK". It



will apply the change and reboot the Device.

ix. Please make sure the subnet of PC IP address and IP CAM IP address are the same.

The same Subnet:

IP CAM IP address: 192.168.1.200

PC IP address: 192.168.1.100

Different Subnets:

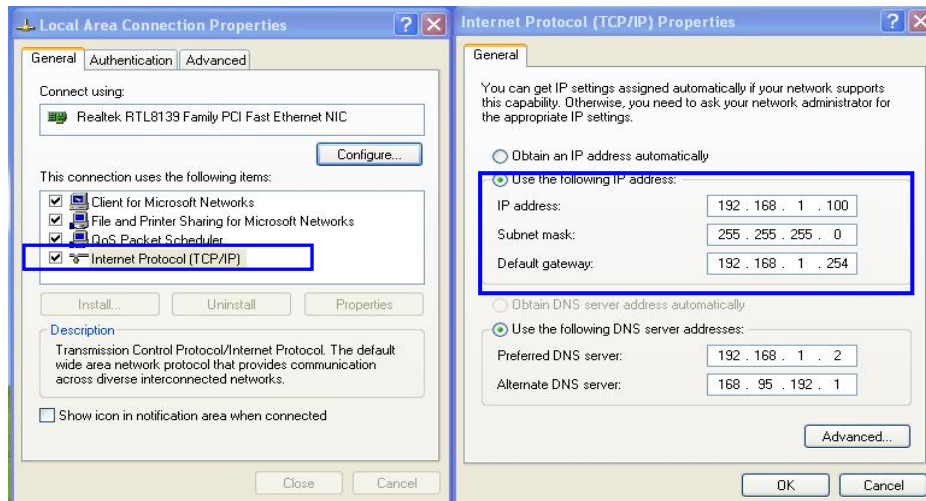
IP CAM IP address: 192.168.2.200

PC IP address: 192.168.1.100

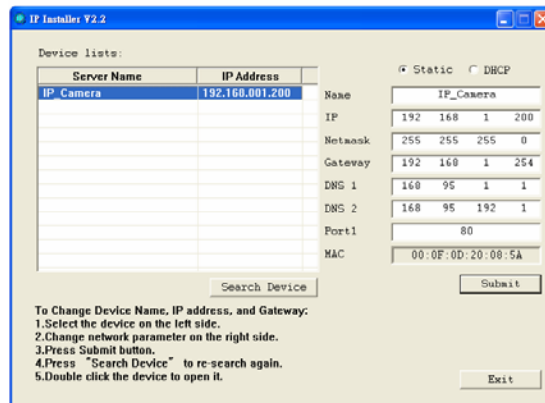
To Change PC IP address:

Control Panel→Network Connections→Local Area Connection
Properties→Internet Protocol (TCP/IP) →Properties

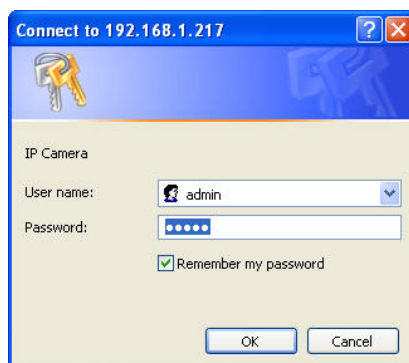
Please make sure your IP Camera and PC have the same Subnet. If not,
please change IP Camera subnet or PC IP subnet accordingly.



- x. A quick way to access remote monitoring is to left-click the mouse twice on a selected IP Camera listed on “Device list” of IP Installer. An IE browser will be opened.

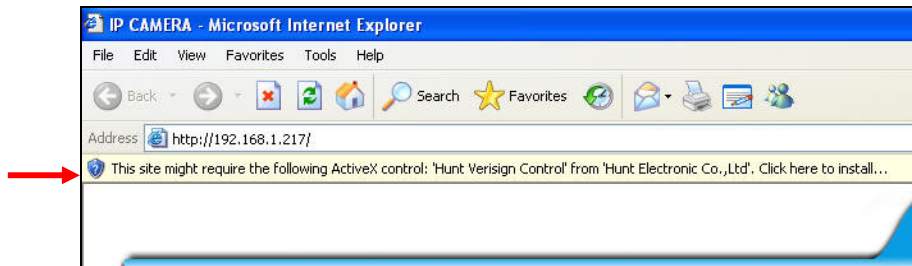


- xi. Then, please key in the default “user name: admin” and “password: admin”.



D. Install ActiveX control:

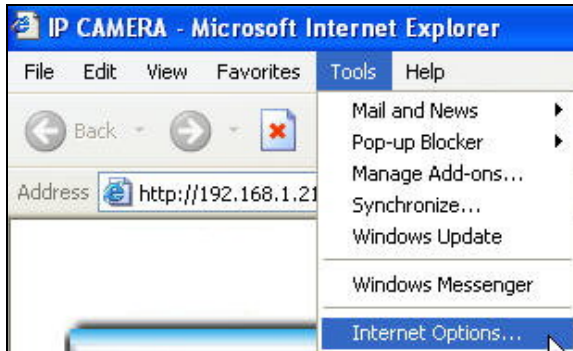
For the first time to view the camera video via IE, it will ask you to install the ActiveX component.



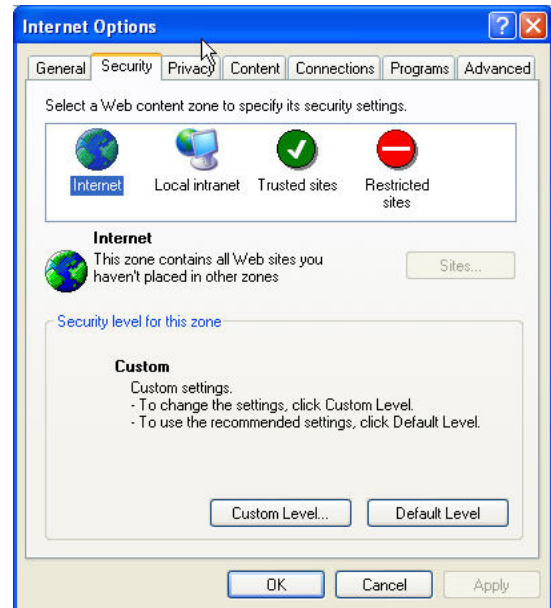
If the installation failed, please check the security setting for the IE browser.

- i. IE → Tools → Internet Options... → Security Tab → Custom Level... → Security Settings → Download unsigned ActiveX controls → Select "Enable" or Prompt.
- ii. IE → Tools → Internet Options... → Security Tab → Custom Level... → Initialize and script ActiveX controls not marked as safe → Select "Enable" or Prompt.

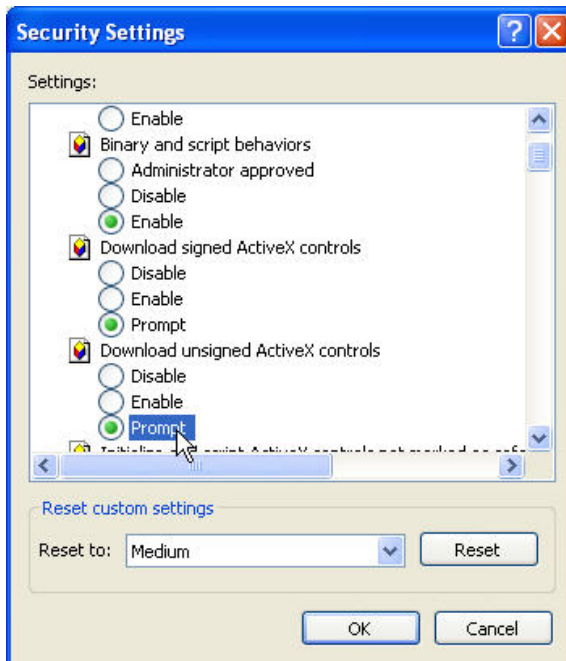
1



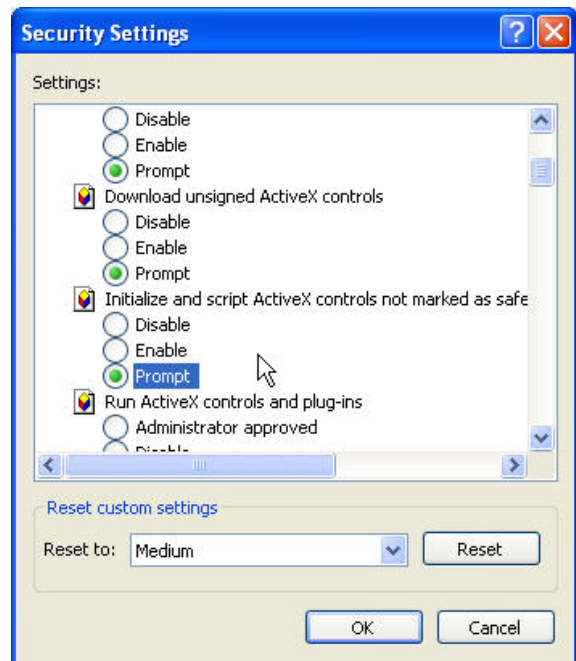
2



3

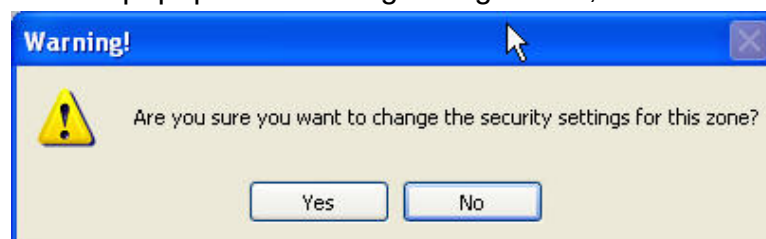


4



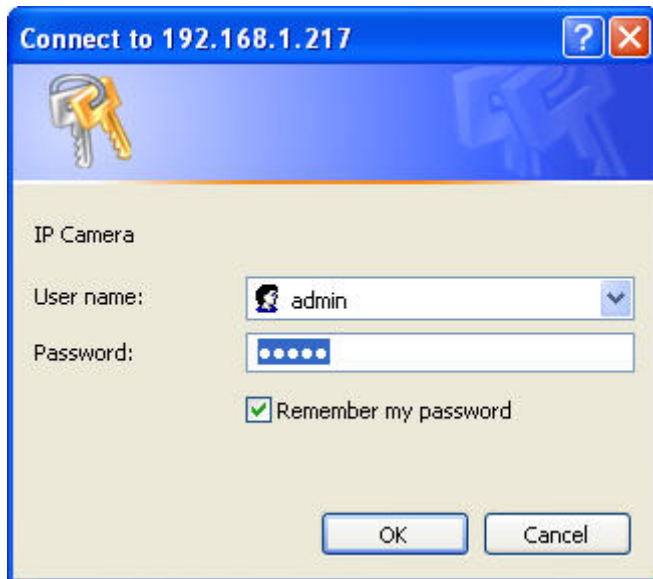
5

When popup the following dialogue box, click "Yes".

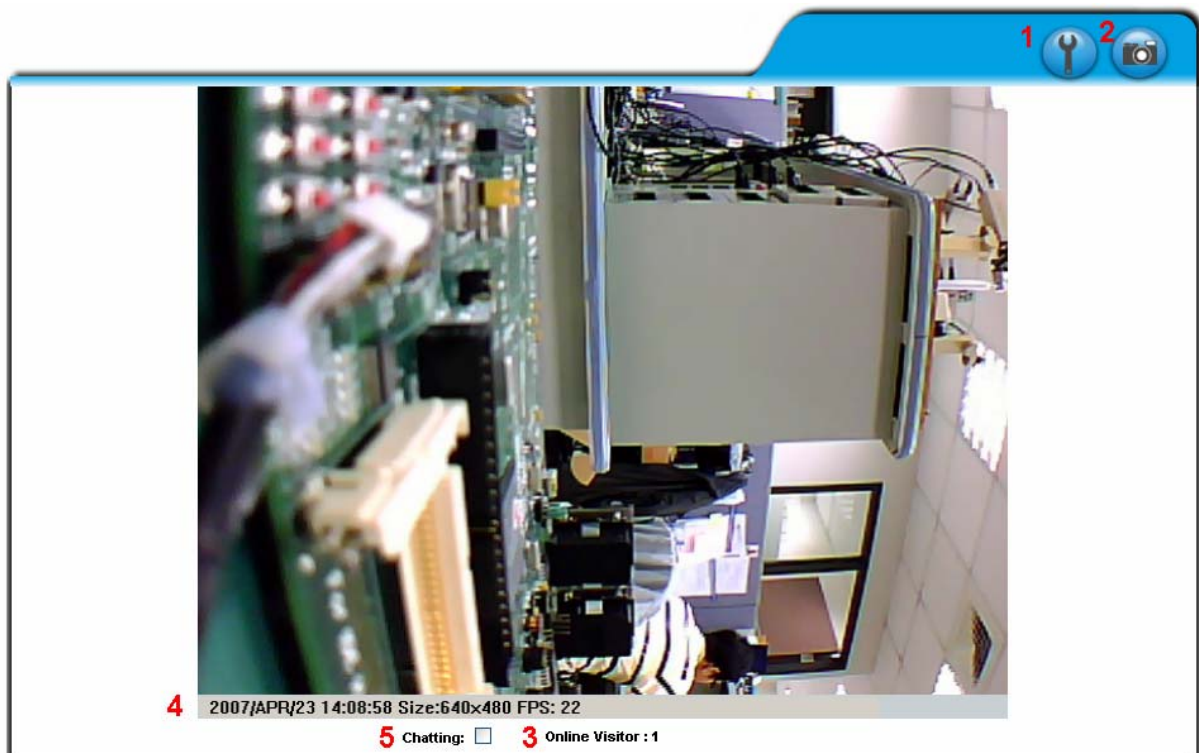


IV. Live Video

Start an IE browser, type the IP address of the IP camera in the address field. It will show the following dialogue box. Key-in the user name and password. The default user name and password are “**admin**” and “**admin**”.



When connect to the IP CAMERA. The following program interface shows.



1.  : Get into the administration page

2.  : Video Snapshot

3. Shows how many people connect to this IP camera
4. Show system time, video resolution, and video refreshing rate
5. IP CAMERA supports 2-way audio. Click the “Chatting” check box. Then you can use microphone which connect to the PC to talk to server side, which is IP CAMERA side.

Double-click the video; it will change to full screen mode. Press “Esc” or double-click the video again, it will change back to normal mode.

Right-Click the mouse on the video, it will show a pop-up menu.



1. Snapshot : Save a JPEG picture
2. Record Start : Record the video in the local PC. It will ask you where to save the video. To stop recording, right-click the mouse again. Select “Record Stop”. The video format is AVI. Use Microsoft Media Player to play the recorded file.
3. Mute : Turn of the audio. Click again to turn on it.
4. Full Screen : Full-screen mode.

V. IP CAMERA Configuration



Click



to back to the live video

page.



The screenshot shows the IP Camera Configuration web interface. On the left is a sidebar menu with icons and labels for different configuration sections: System (gears icon), Network (globe icon), AV Setting (camera and microphone icon), and Event List (document icon). The main content area is titled 'System Information' and contains the following settings:

- Server Information**
 - Server Name: MegaPixel830
 - MAC Address: 00:0F:0D:20:08:5A
 - Language: ☒ English ☐ 繁體中文 ☐ 简体中文
- Time Setting**
 - Server Time: 2007/5/4 16:49:28 Time Zone: GMT+08:00
 - Date Format: ☒ yy/mm/dd ☐ mm/dd/yy ☐ dd/mm/yy
 - Time zone: GMT+08:00
 - ☐ NTP :
 - NTP Server : 198.123.30.132
 - ☐ Synchronize with PC's time
 - Date : 2007/5/4
 - Time : 17:6:54
 - ☐ Manual
 - Date : 2007/5/4
 - Time : 17:6:53
 - ☒ The date and time remain the same

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

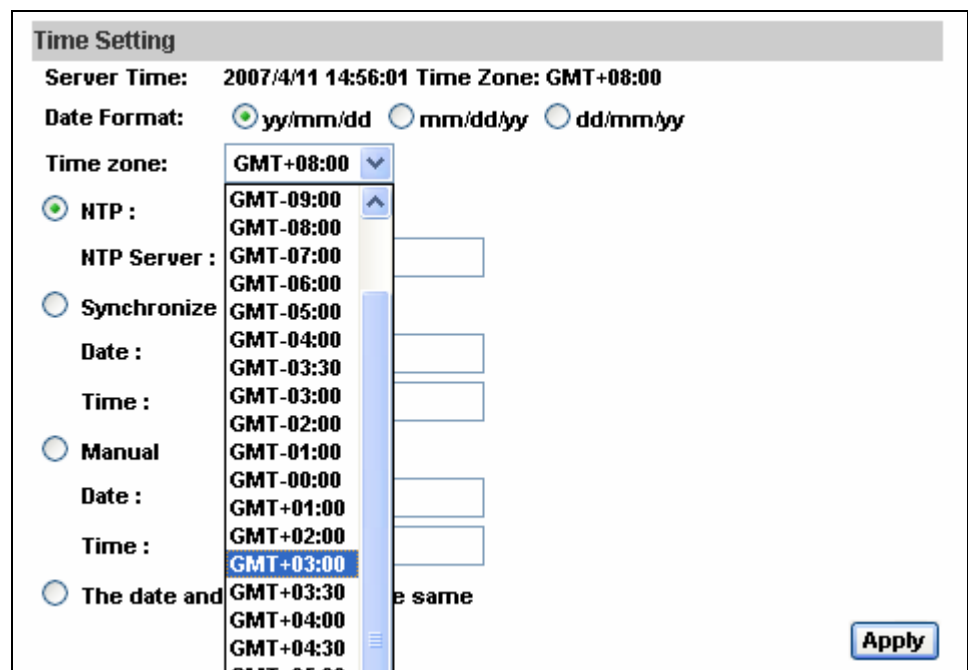
A. System

i、System Information：

- a. Server Information：Set up the camera name, select language, and set up the camera time.
 1. Server Name：This is the Camera name. This name will show on the IP Installer.
 2. Select language：There are English, Traditional Chinese, and Simplified Chinese to select. When change, it will show the following dialogue box for the confirmation of changing language.



- b. Server time setting：Select options to set up time - “NTP”, “Synchronize with PC’s time”, “Manual”, and “The date and time remain the same”.



Time Setting

Server Time: 2007/4/11 14:56:01 Time Zone: GMT+08:00

Date Format: ☒ yy/mm/dd ☐ mm/dd/yy ☐ dd/mm/yy

Time zone: GMT+08:00

☒ NTP :
NTP Server : GMT-07:00

☐ Synchronize
Date : GMT-05:00
Time : GMT-04:00

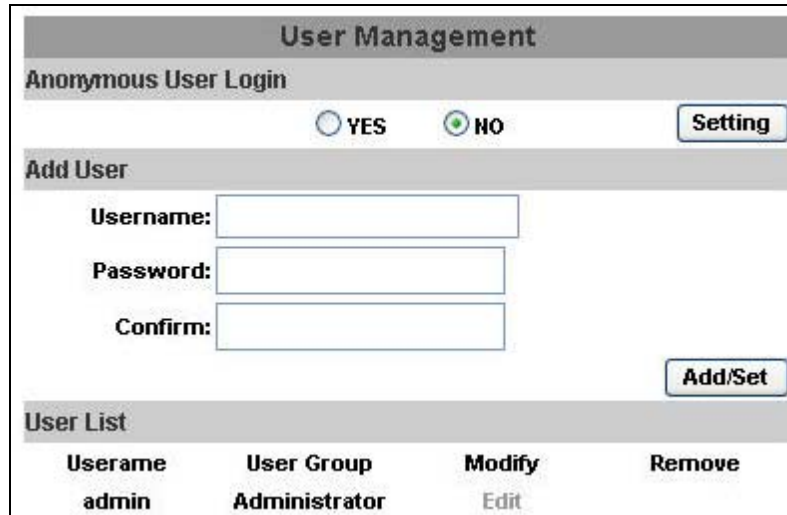
☐ Manual
Date : GMT-03:30
Time : GMT-03:00

☐ The date and time remain the same

Apply

ii 、 User Management

IP CAMERA supports three different users, administrator, general user, and anonymous user.



The screenshot shows the 'User Management' web interface. It has a title bar 'User Management'. Below it is a section 'Anonymous User Login' with two radio buttons: 'YES' (unselected) and 'NO' (selected). There is a 'Setting' button to the right. Below this is an 'Add User' section with three input fields: 'Username:', 'Password:', and 'Confirm:'. There is an 'Add/Set' button to the right of these fields. At the bottom is a 'User List' section with a table. The table has four columns: 'Username', 'User Group', 'Modify', and 'Remove'. The first row shows 'admin' as the username, 'Administrator' as the user group, 'Edit' as the modify option, and an empty space for the remove option.

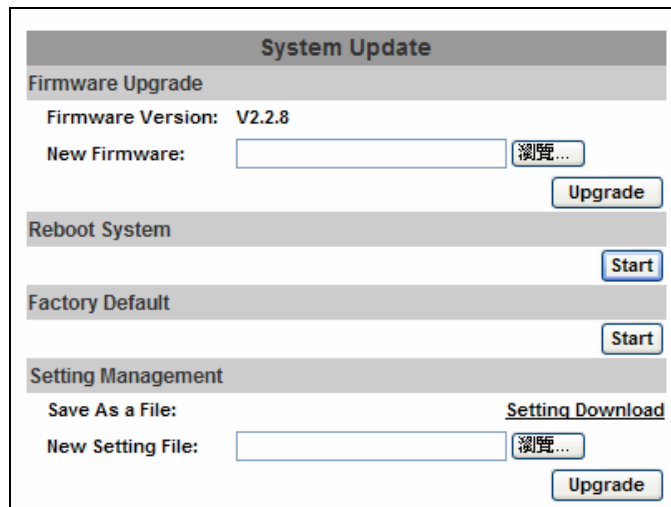
Username	User Group	Modify	Remove
admin	Administrator	Edit	

- Anonymous User Login :
Yes : Allow anonymous login
No : Need user name & password to access this IP camera
- Add user :
Type the user name and password, then click "Add/Set".
- Click "edit" or "delete" to modify the user.



The screenshot shows a 'User Setup' dialog box within a Microsoft Internet Explorer window titled 'User_Setting - Microsoft Internet Explorer'. The dialog box has a title bar 'User Setup'. It contains three input fields: 'Username:' with the text 'admin', 'Password:', and 'Confirm:'. There is an 'OK' button to the right of the 'Confirm:' field.

iii 、 System update :



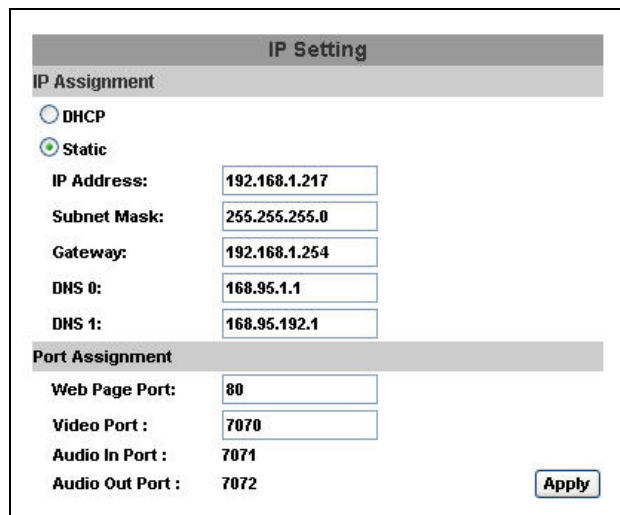
The image shows a web interface titled "System Update". It contains several sections: "Firmware Upgrade" with fields for "Firmware Version: V2.2.8" and "New Firmware:" followed by a "Browse..." button and an "Upgrade" button; "Reboot System" with a "Start" button; "Factory Default" with a "Start" button; and "Setting Management" with a "Save As a File:" label, a "Setting Download" link, a "New Setting File:" field with a "Browse..." button, and an "Upgrade" button.

- a. To update the firmware online, click "Browse..." to select the firmware. Then click "Upgrade" to proceed.
- b. Reboot system : re-start the IP camera
- c. Factory default : delete all settings and restore defaults system.
- d. Setting Management : User may download the current setting to PC, or upgrade from previous saved setting.
 1. Setting download:
Right-click the mouse button on Setting Download → Select "Save AS..." to save current IP CAM setting in PC → Select saving directory → Save
 2. Upgrade from previous setting
Browse → search previous setting → open → upgrade → Setting update confirm → click [index.html](#). to return to main page

B. Network

i、 IP Setting

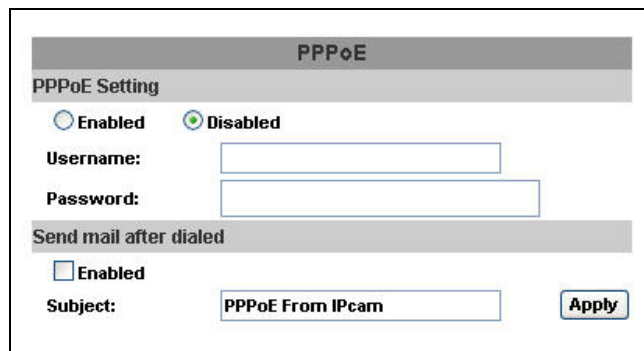
IP Camera supports DHCP and static IP.



IP Setting	
IP Assignment	
☐ DHCP	
☒ Static	
IP Address:	192.168.1.217
Subnet Mask:	255.255.255.0
Gateway:	192.168.1.254
DNS 0:	168.95.1.1
DNS 1:	168.95.192.1
Port Assignment	
Web Page Port:	80
Video Port :	7070
Audio In Port :	7071
Audio Out Port :	7072
Apply	

- DHCP : Under DHCP mode - IP CAMERA will get all the network parameters automatically.
- Static IP : Please type in IP address, subnet mask, gateway, and DNS manually.
- Port Assignment: user may need to assign different port to avoid conflict when setting up IP assignment.

ii、 PPPoE :



PPPoE	
PPPoE Setting	
☐ Enabled	☒ Disabled
Username:	
Password:	
Send mail after dialed	
☐ Enabled	
Subject:	PPPoE From IPcam
Apply	

Select "Enabled" to use PPPoE.

Key-in Username and password for the ADSL connection.

Send mail after dialed : When connect to the internet, it will send a mail to a specific mail account. For the mail setting, please refer to "Mail and FTP" settings.

iii 、 DDNS :

It supports DDNS (Dynamic DNS) service.

a. DynDNS :

DDNS

DDNS Setting

☐ Enabled ☒ Disabled

Provider:

dyndns.org

Hostname:

Username:

Password:

Schedule Update:

1440

 Minutes

State

Idle

Apply

Note:

1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.

2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

3. Enable this service
4. Key-in the DynDNS server name, user name, and password.
5. Set up the IP Schedule update refreshing rate.
6. Click “Apply”
7. If setting up IP schedule update too frequently, the IP may be blocked. In general, schedule update every day (1440 minutes) is recommended.

b. Camddns service :

DDNS

DDNS Setting

☐ Enabled ☒ Disabled

Provider: ddns.camddns.com

Username:

Schedule Update: 1440 Minutes

State

Idle

Apply

Note:
1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.
2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

1. Please enable this service
2. Key-in user name.
3. IP Schedule update is default at 5 minutes
4. Click "Apply".

c. DDNS Status

1. Updating : Information update
2. Idle : Stop service
3. DDNS registration successful, can now log by
<http://<username>.ddns.camddns.com> : Register successfully.
4. Update Failed, the name is already registered : The user name has already been used. Please change it.
5. Update Failed, please check your internet connection : Network connection failed.
6. Update Failed, please check the account information you provide : The server, user name, and password may be wrong.

iv 、 Wireless Setting (Wireless Network Optional)

Supports 802.11 b/g wireless connection.

Notice : Wireless network and Ethernet network use the same IP, the user has to unplug Ethernet cable, if Ethernet cable is not unplug, wireless setting can not be executed.

Wireless Setting			
Status of Wireless Networks			
SSID	Mode	Security	Signal strength
allan	Infrastructure	WPA	79
RHOSON	Infrastructure	WEP	16
Link	Infrastructure	OFF	16
SinoStar	Infrastructure	WEP	11
7f-2	Infrastructure	WEP	12
00160159A7FA	Infrastructure	WEP	56
RDTEST	Infrastructure	WEP	48
3Com	Infrastructure	OFF	43
Default	Infrastructure	WPA	74

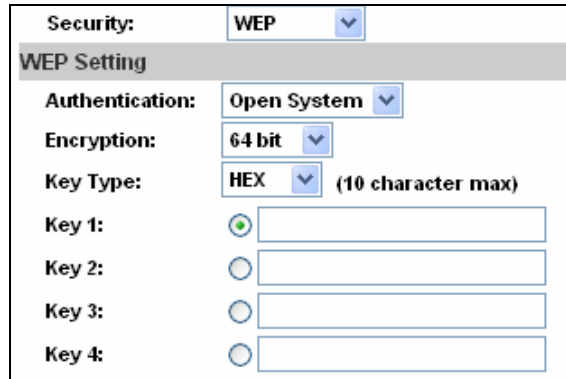
Wireless Setting	
MAC Address:	00:16:16:16:DD:E1
Mode:	Infrastructure ▼
Operation Mode:	Auto ▼
SSID:	allan
Security:	None ▼
Apply	

- a. Status of Wireless Networks :
scan all wireless services.
- b. Wireless Setting :
 1. **Mode** : There are Infrastructure and Ad-hoc. Infrastructure is for connecting with the router. Ad-hoc is for connecting with PC. There is "Channel" to select only when user uses Ad-hoc mode.
e.g. If one PC's channel is 1, the other's channel has to be 1, too.

Wireless Setting	
MAC Address:	00:11:E2:03:37:48
Mode:	Ad-hoc ▼
Operation Mode:	Auto ▼
SSID:	Default
Channel:	6 ▼
Security:	None ▼

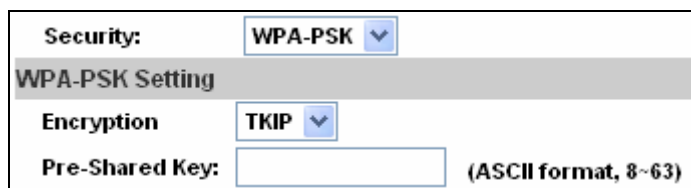
2. **SSID** : Based on AP setting.

3. **Channel** : This is used only when the user selects Ad-hoc mode in order to avoid conflict.
4. **Security** : It supports “None”, “WEP”, “WPA-PSK” security encryption based on the setting of the Router.
5. **WEP** :



The image shows a screenshot of the WEP configuration interface. At the top, 'Security:' is set to 'WEP'. Below this is a section titled 'WEP Setting'. It contains several fields: 'Authentication:' is set to 'Open System'; 'Encryption:' is set to '64 bit'; 'Key Type:' is set to 'HEX' with a note '(10 character max)'. Below these are four rows for 'Key 1:', 'Key 2:', 'Key 3:', and 'Key 4:', each with a radio button and a text input field. The 'Key 1' radio button is selected.

- Authentication : There are Open System and Shared Keys, it is based on different encryptions. This has to be the same as the Router’s setting.
 - Encryption : There are 64 bits and 128 bits. This is based on Key Type based on the Router’s setting.
 - Key Type : There are HEX and ASCII. When selecting HEX, the user only can input 0~9 characters and use A, B, C, D, E, and F.
 - When selecting ASCII, the user can input any character.
(Case sensitive)
 - Key 1~4 : Based on Key Type to input characters.
6. **WPA-PSK** :

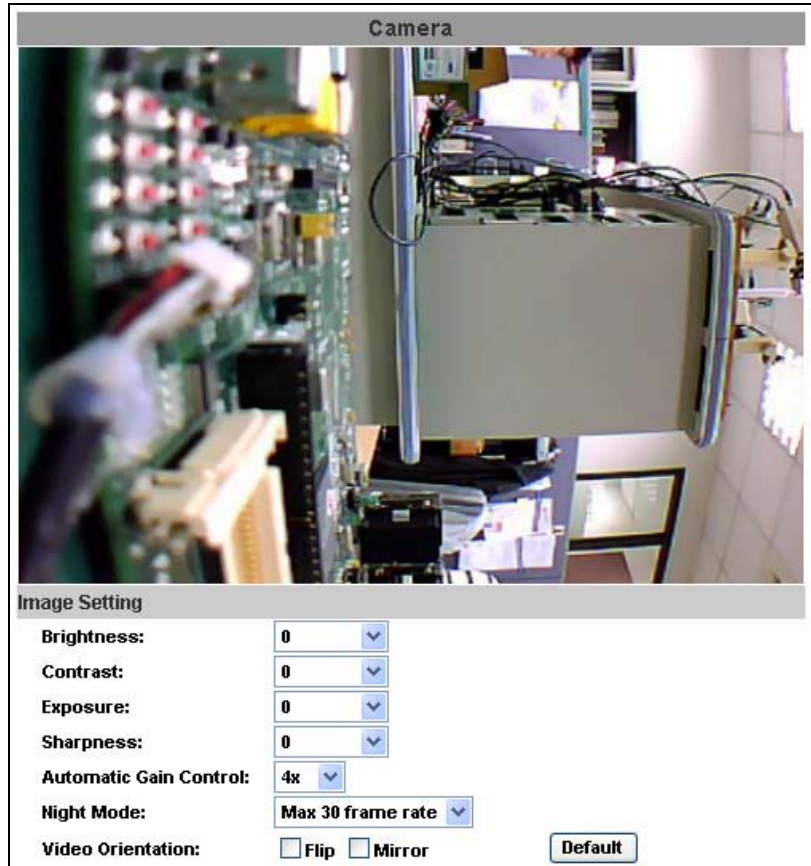


The image shows a screenshot of the WPA-PSK configuration interface. At the top, 'Security:' is set to 'WPA-PSK'. Below this is a section titled 'WPA-PSK Setting'. It contains two fields: 'Encryption' is set to 'TKIP'; 'Pre-Shared Key:' is a text input field with a note '(ASCII format, 8~63)'.

- Encryption : There are TKIP and AES.
- Pre-Shared Key : Allow any characters. (Case sensitive)

C. A/V Setting

i. Image Setting



Camera

Image Setting

Brightness: 0

Contrast: 0

Exposure: 0

Sharpness: 0

Automatic Gain Control: 4x

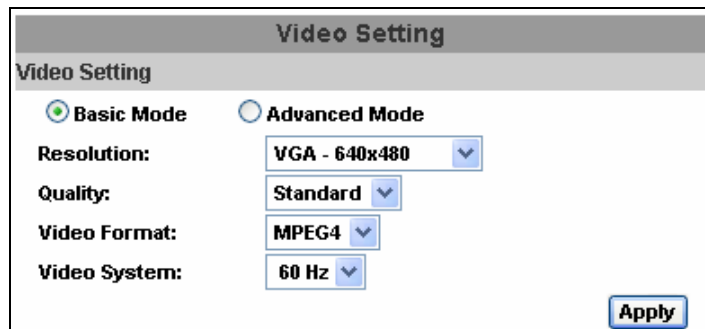
Night Mode: Max 30 frame rate

Video Orientation: ☐ Flip ☐ Mirror Default

Adjust “Brightness”, “Contrast”, “Exposure”, “Sharpness” to user preference.

ii. Video Setting

a. Basic Mode :



Video Setting

Video Setting

☒ Basic Mode ☐ Advanced Mode

Resolution: VGA - 640x480

Quality: Standard

Video Format: MPEG4

Video System: 60 Hz

Apply

1. Resolution :

There are 4 resolutions to choose.

SXGA – 1280×1024

VGA – 640×480

QVGA – 320×240

QQVGA – 160×120

2. Quality :

There are 5 levels to adjust. The higher the quality is, the bigger the file size is.

3. Video Format :

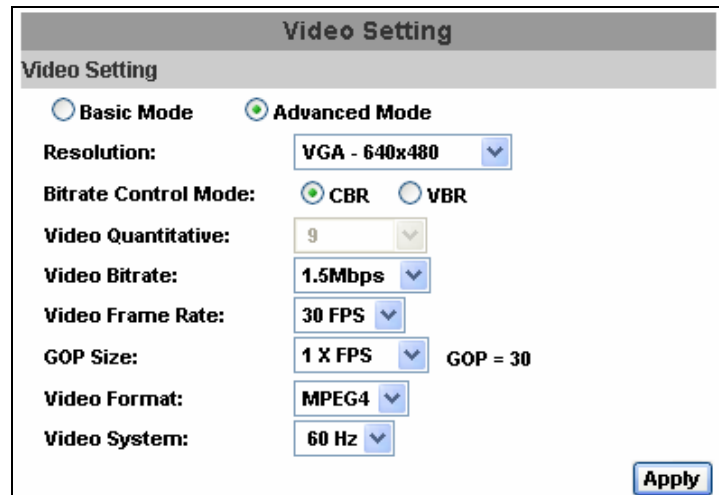
There are 2 Video Formats to choose
MPEG4 or JPEG.

4. Video System :

Please select 60 (Hz) if you are in America, Taiwan...

Please select 50 (Hz) if you are in Europe, China...

b. Advanced Mode :



1. Resolution :

There are 4 resolutions to choose.

SXGA – 1280×1024

VGA – 640×480

QVGA – 320×240

QQVGA – 160×120

2. Bitrate Control Mode :

There are CBR [Constant Bit Rate] and VBR [Variable Bit Rate] to use.

CBR : 64Kbps~4Mbps (the higher the CBR is, the better the video quality is)

VBR : 1~10 (Compression Rate)

3. Video Frame Rate:

The video refreshing rate per second.

4. GOP :

It means "Group of Pictures". The higher the GOP is, the better

the quality is.

5. Video Format :

There are 2 Video Format to choose
MPEG4 or JPEG.

6. Video System :

Please select 60 (Hz) if you are in America, Taiwan...

Please select 50 (Hz) if you are in Europe, China...

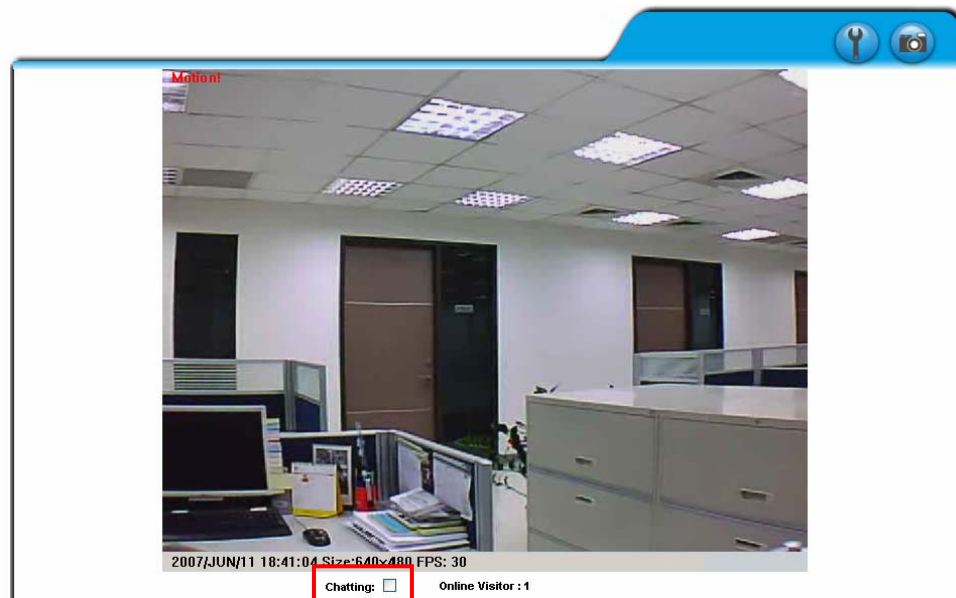
iii 、 Audio :

IP CAMERA supports 2-way audio. User can send audio from IP Camera Built-in mic to remote PC; User can also send audio from remote PC mic to IP Camera's external speaker.

- a. Audio from IP camera built-in mic to local PC: select "Enable" to start this function.



- b. Audio from local PC to IP camera: check "chatting" in the browsing page.

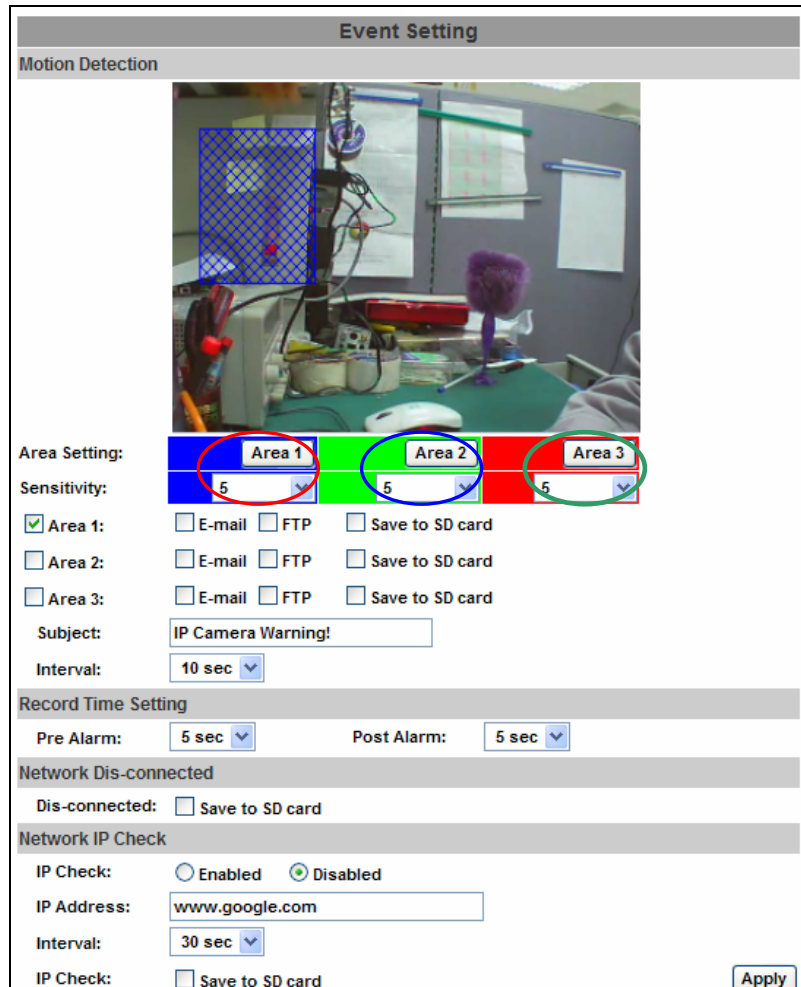


The Audio will not be smooth when enable SD card recording function simultaneously.

D. Event List

IP CAMERA provides multiple event settings.

i. Event Setting



a. Motion Detection :

IP CAMERA allows 3 areas motion detection. When motion is triggered, it can send video to some specific mail addresses, transmit the video to remote ftp server, and save video to local SD card. To set up the motion area, click "Area Setting". Using mouse to drag and draw the area. The same operation for area 2 and 3.

b. Record Time Setting :

Pre Alarm and Post Alarm setups for video start and end time when motion detected, or other devices got triggered.

c. Network Dis-connected :

When the network is down, it will save the video to local SD card.

This function can only be enabled in wire connection.

d. Network IP check :

Whenever the connection is down, it records the video to SD card.

Make sure the video recording is continuous. To use this function,

key in the IP address of the PC which has recording software

installed. Enable the function of "Save to SD card", then click

"Apply".

The interval of two video files recorded on SD card is fixed with 30 seconds.

ii 、 Mail & FTP :

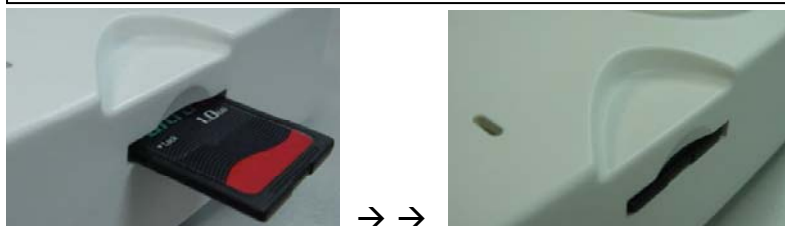
To send out the video via mail or ftp, please set up the configuration first.

Mail & FTP	
Mail Setting	
Mail Server:	
Username:	
Password:	
Sender's Mail:	
Receiver's Mail:	
Bcc Mail:	
FTP Setting	
FTP Server:	
Username:	
Password:	
Port:	21
Path:	/
Apply	

iii 、 SD card

Please Insert SD card before use it. Make sure pushing SD card into the slot completely.

Note : The use of the SD card will affect the operation of the IP CAMERA slightly, such as affecting the frame rate of the video.



a. Playback :



1. It will show the capacity of the SD card. Click the date listed on this page. It will show the list of the video.

2006/04/17			Del
Time	Video	Event Type	☐
09:05:22	090522f.avi	Network Dis-connected	☐
09:05:52	090552f.avi	Network Dis-connected	☐
09:06:22	090622f.avi	Network Dis-connected	☐
09:06:52	090652f.avi	Network Dis-connected	☐
09:07:22	090722f.avi	Network Dis-connected	☐
09:07:52	090752f.avi	Network Dis-connected	☐
09:08:22	090822f.avi	Network Dis-connected	☐
09:08:51	090851f.avi	Network Dis-connected	☐
09:09:21	090921f.avi	Network Dis-connected	☐
09:09:51	090951f.avi	Network Dis-connected	☐

2. The video format is AVI. Click the video to start Microsoft Media Player to play it.
3. To delete the video, check the box, then click **Del**. When the SD card is full, it will remove the oldest video automatically.

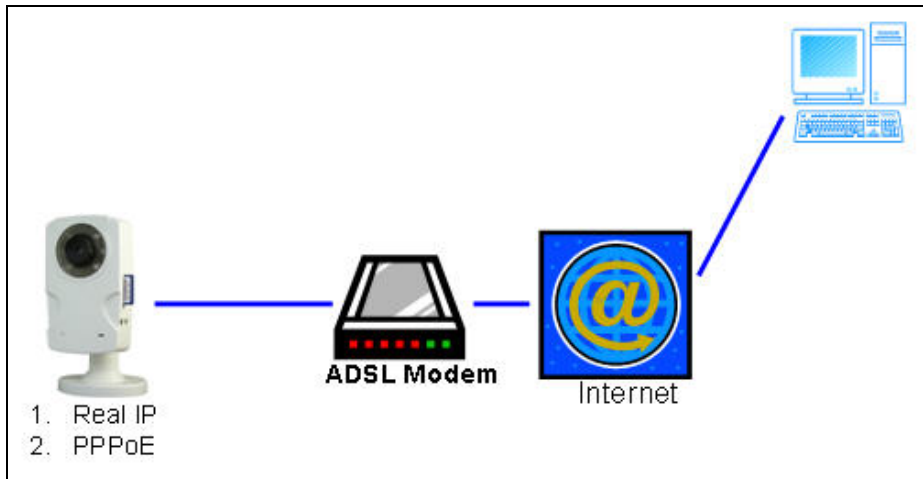
iv 、 Log List

Log List	
System Logs	Logs
Motion Detection Logs	Logs
I/O Logs	Logs
All Logs	Logs

Sort by System Logs, Motion Detection Logs and I/O Logs. In addition, System Logs and I/O Logs won't lose data due to power failure.

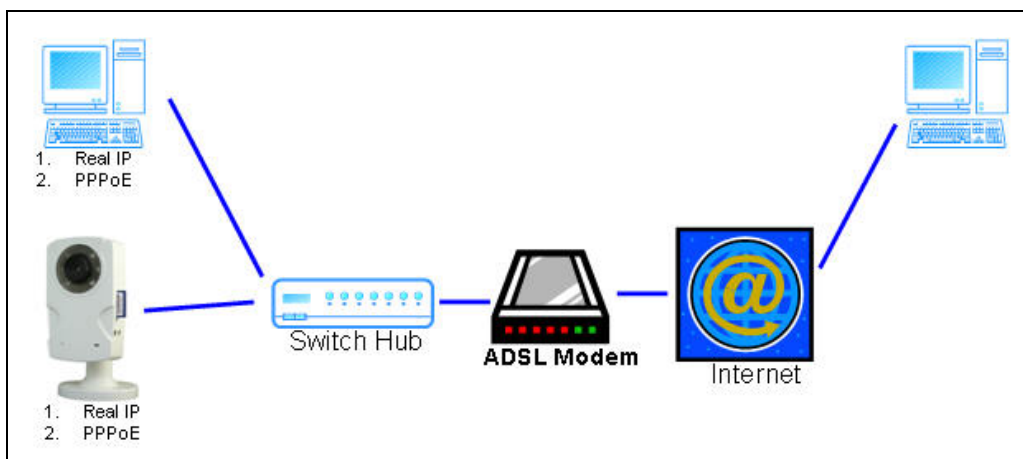
VI. Network Configuration

i、 Configuration 1 :



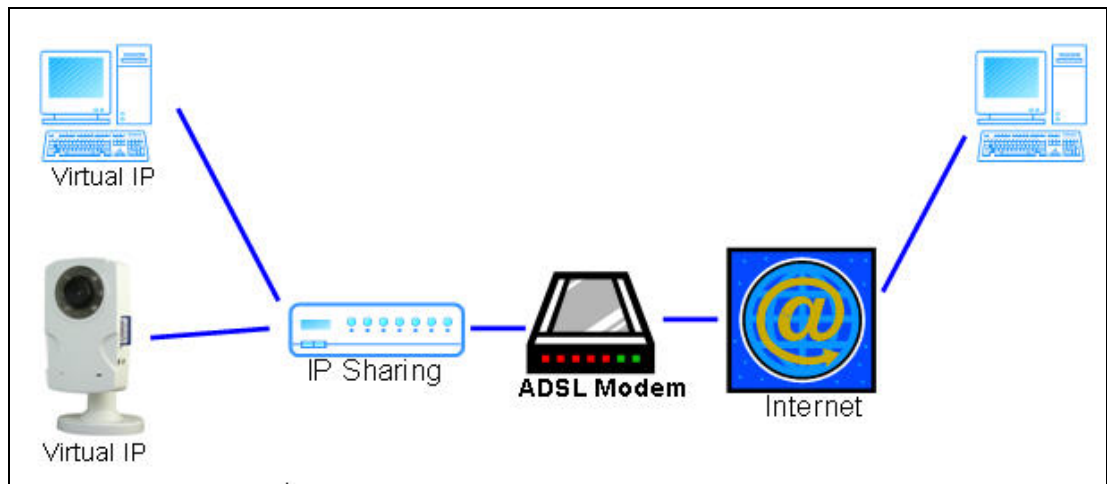
- a. Internet Access : ADSL or Cable Modem
- b. IP address : One real IP or one dynamic IP
- c. Only IP CAMERA connects to the internet
- d. For fixed real IP, set up the IP into IP CAMERA. For dynamic IP, start PPPoE.

ii、 Configuration 2 :



- a. Internet Access : ADSL or Cable Modem
- b. IP address : More than one real IP or one dynamic IP
- c. IP CAMERA and PC connect to the internet
- d. Device needed : Switch Hub
- e. For fixed real IP, set up the IP into IP CAMERA and PC. For dynamic IP, start PPPoE.

iii 、 Configuration 3 :



- a. Internet Access : ADSL or Cable Modem
- b. IP address : one real IP or one dynamic IP
- c. IP CAMERA and PC connect to the internet
- d. Device needed : IP sharing
- e. Use virtual IP, set up port forwarding in IP sharing.

VII. Factory Default

- i 、 To recover the default IP address and password, please follow the following steps.
- ii 、 Remove power, and press and hold the button in the back of IP CAMERA.



- iii 、 Power on the camera. Don't release the button during the system booting.
- iv 、 It will take around 30 seconds to boot the camera.
- v 、 Release the button when camera finishes process.
- vi 、 Re-login the camera using the default IP (<http://192.168.1.200>), and user name (**admin**), password (**admin**).

VIII. Package contents

- i 、 IP CAMERA Network Camera
- ii 、 Adaptor
- iii 、 Ethernet Cable
- iv 、 CD title (User manual, IP installation Utility)

Appendix I

SD Card Recommended :

SanDisk 128M	Transcend 128M 80X
SanDisk 256M	Transcend 256M 80X
SanDisk 512M	Transcend 512M 80X
SanDisk 1G	Transcend 1G 80X
SanDisk 2G	Transcend 2G 80X
SanDisk 4G	Transcend 4G 80X