

PIXORD

Mega-Pixel IP Camera Series

P415M

User's Manual



Version: 1.0



Date: 09/10/2008

WARINGS

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

DO NOT INSERT ANY METALLIC & ELETRIC CONDUCTIVE OBJECT THROUGH VENTILATION GRILLS.

CAUTION

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

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Chapter 1

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 & MJPEG 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.

Chapter 2

Product Specifications

- MegaPixel Resolution (SXGA)
- MPEG4/ MJPEG Compression Format
- SD Card backup
- Supports Cell phone/PDA/3GPP
- Dual Streaming
- SDK for Software Integration
- Free Bundle 36 Channel Recording Software

Specifications

Hardware	
CPU	ARM 9 ,32 bit RISC
RAM	32MB
ROM	8MB
Image sensor	1/4" CMOS
Sensitivity	1.5 lux @ F1.4
Lens Type	Vari-focal 3.7~12 mm lens
Power Consumption	DC 12V, 0.2A
Operating Temperature	-10°C ~ 45°C
Dimensions	131.2mm (Ø) x 94.3mm (H)
Weight	300g
Network	
Ethernet	10/ 100 Base-T
Network Protocol	HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, 3GPP, UPnP
System	
Video Resolution	1280x1024, 640x480, 320x240, 160x120
Video adjust	Brightness, Contrast, Exposure, Sharpness, AGC Night Mode
Dual Streaming	Yes
Image snapshot	Yes

Full screen monitoring	Yes	
Compression format	MPEG-4/ MJPEG	
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	
SD card management		
Recording trigger	Motion Detection, IP check, Network Status (Wire connection only)	
Video format	AVI, JPEG	
Video playback	Yes	
Delete files	Yes	
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

Chapter 3

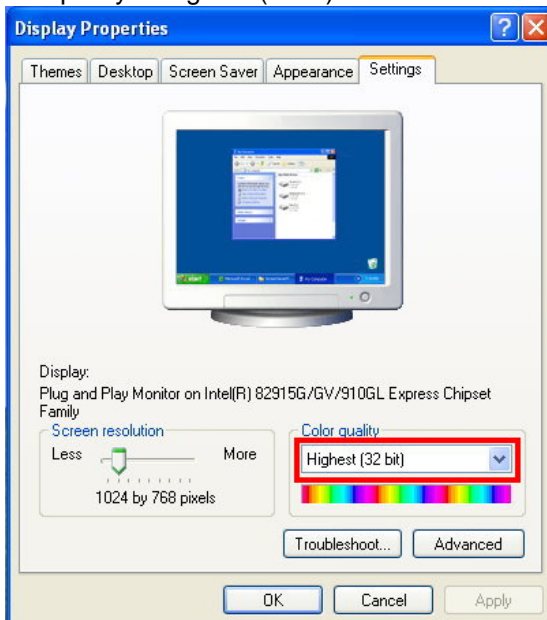
Product Installation

1. Monitor Setting

I. Right-Click on the desktop. Select " Properties".



II. Change color quality to highest (32bit).



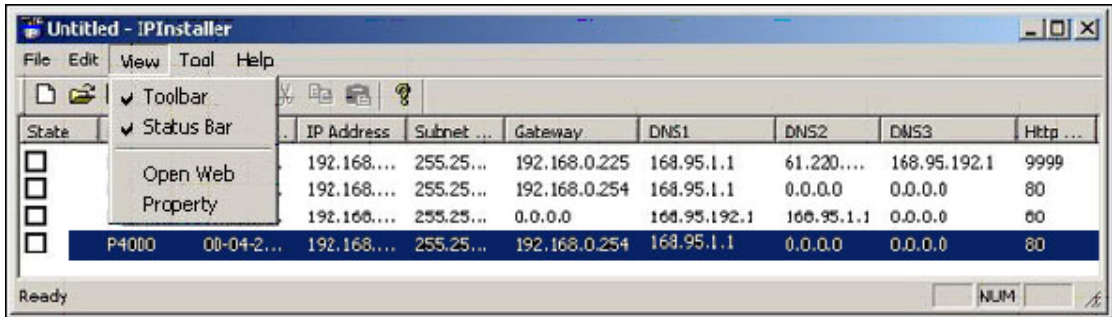
2. Hardware Installation

- 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".

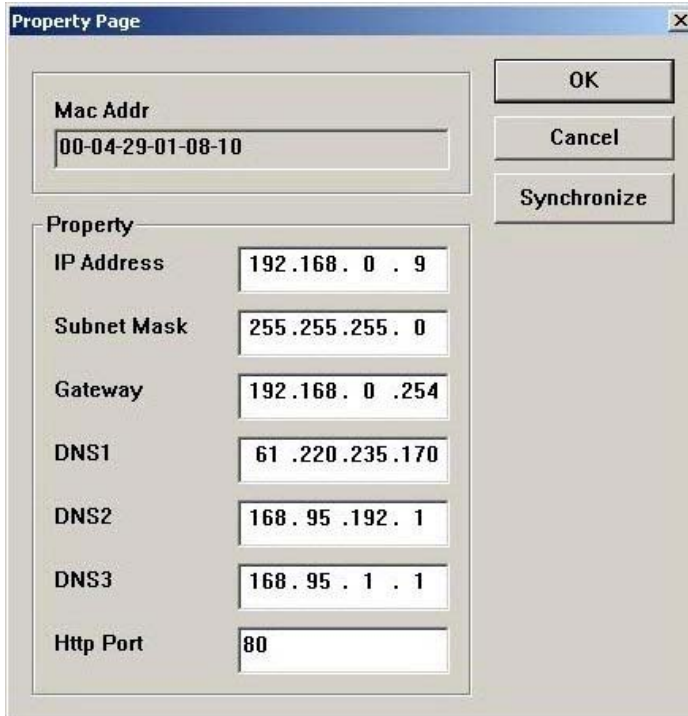
3. IP Assignment

IP Installer is a utility that provides an easier, more efficient way to configure the IP address and network settings of the network camera. It even provides a convenient way to set the network settings for multiple devices simultaneously using the batch setting function. Moreover, IP Installer can save the network settings for all devices as a backup and restore them when necessary.

- Always consult your network administrator before assigning an IP address to your server in order to avoid using a previously assigned IP address.
 - Ensure the network camera is powered on and correctly connected to the network.
 - MAC Address: Each network camera has a unique Ethernet address (MAC address) shown on the sticker of the camera.
 - One final note, although the IP Installer is able to find and configure any network camera 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.
1. Use the software, "IP Installer" to assign an IP address for the camera device. The software is in the attached software CD.
 2. Click "IP Installer" from the CD menu to start the installation.
 3. Once IP Installer has been successfully installed on the computer, double click the IP Installer icon on the desktop, or select it from Start > Programs > PiXORD Corporation > IP Installer > IP Installer.
 4. The IP Installer window is displayed below. Click the menu bar Tool > Search Network Device to search the network camera in the LAN.
 5. From the list, select the device with the MAC Address that corresponds to the device that is to be configured.
 6. Double click the item to open the Property Page dialog box for the selected device or click the menu bar View > Property.



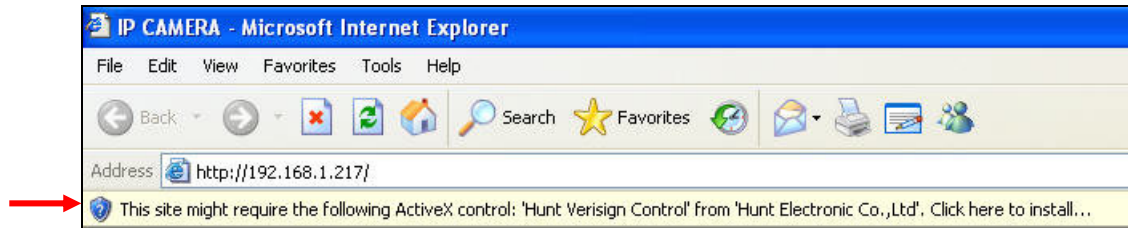
- After filling in the properties, click [Synchronize] button to complete the configuration settings and save in the network camera and PC immediately. If click [OK] button, the configuration is only be saved in the PC.



- To access the Web-based UI of the selected unit, run the View > Open Web on the menu bar.
- If the device has been configured correctly, the default Web browser will open to the home page of the selected device.

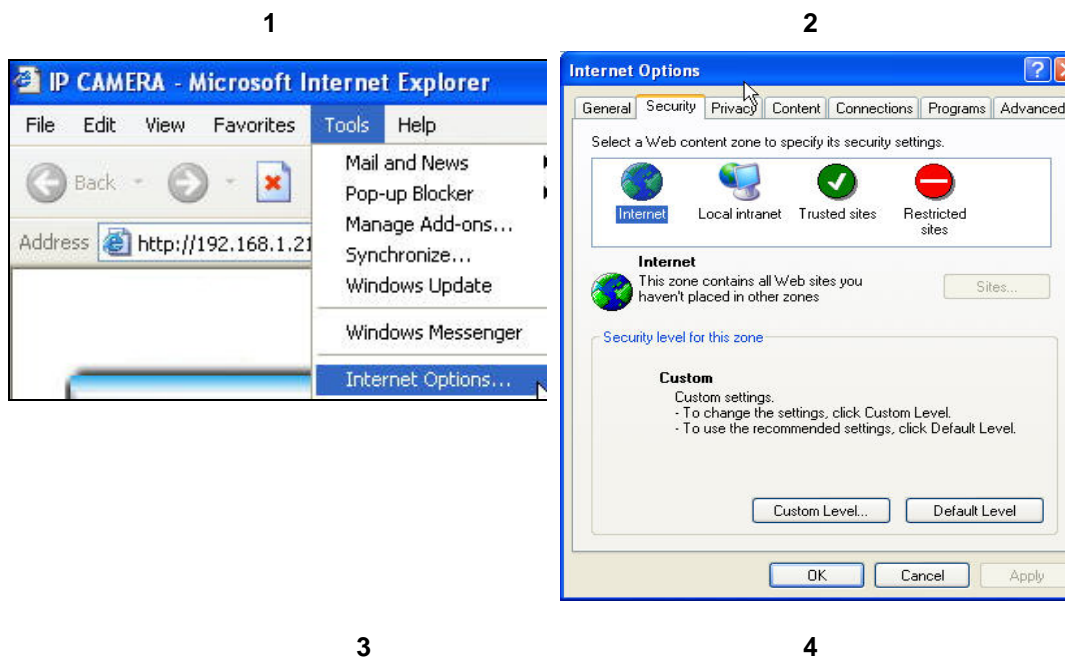
4. Install ActiveX control

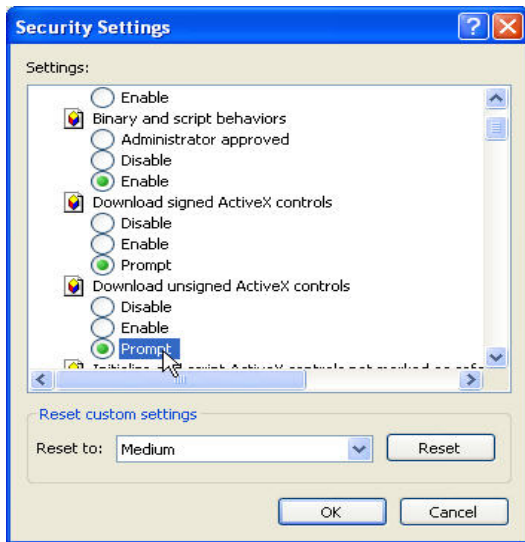
For the first time to view the camera video via IE, it will ask you to install the ActiveX component.



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

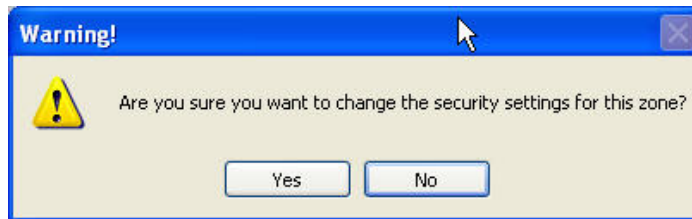
- I. IE → Tools → Internet Options... → Security Tab → Custom Level... → Security Settings → Download unsigned ActiveX controls → Select "Enable" or Prompt.
- II. IE → Tools → Internet Options... → Security Tab → Custom Level... → Initialize and script ActiveX controls not marked as safe → Select "Enable"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





5

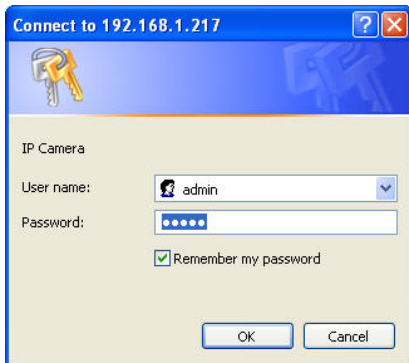
When popup the following dialogue box, click "Yes".



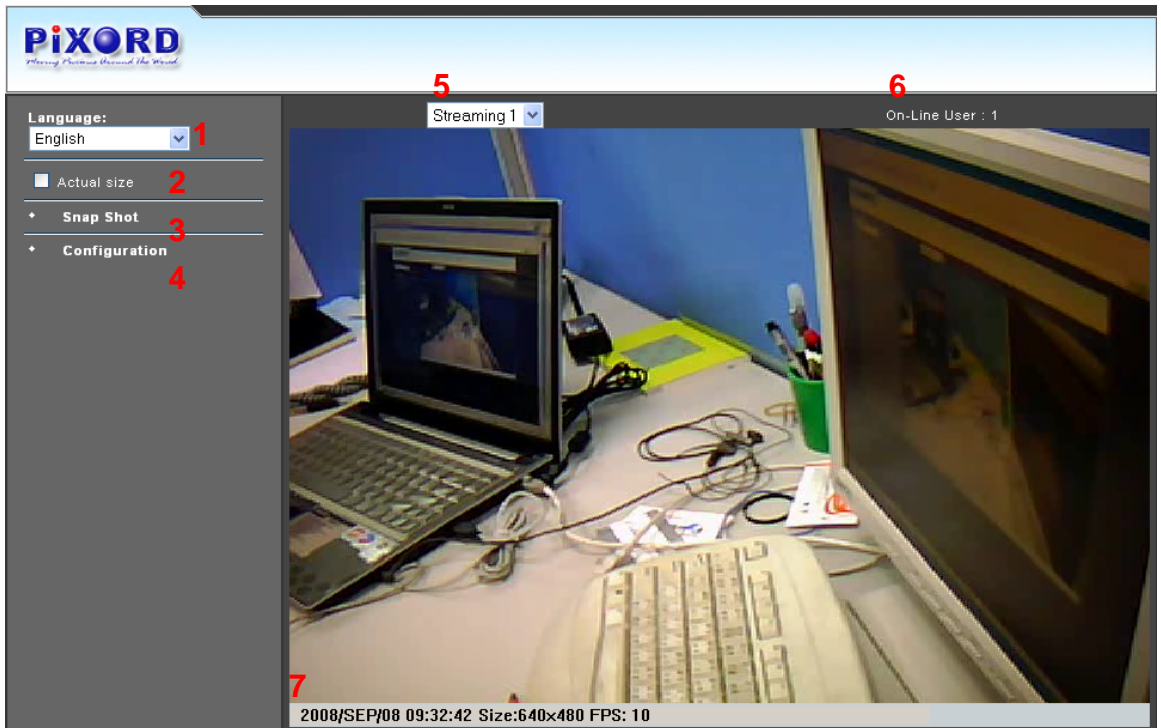
Chapter 4

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. Languages: Select a language for the interface. Currently 4 languages can be selected; English, Traditional Chinese, Simplified Chinese and French.
2. Display the video image in actual size.
3. Video snapshot
4. Get into the administration page.
5. Select video streaming source **(When streaming 2 setting in 『Video Setting』 is closed, this function will not display)**
6. Shows how many people connect to this IP camera
7. Show system time, video resolution, and video refreshing rate

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.

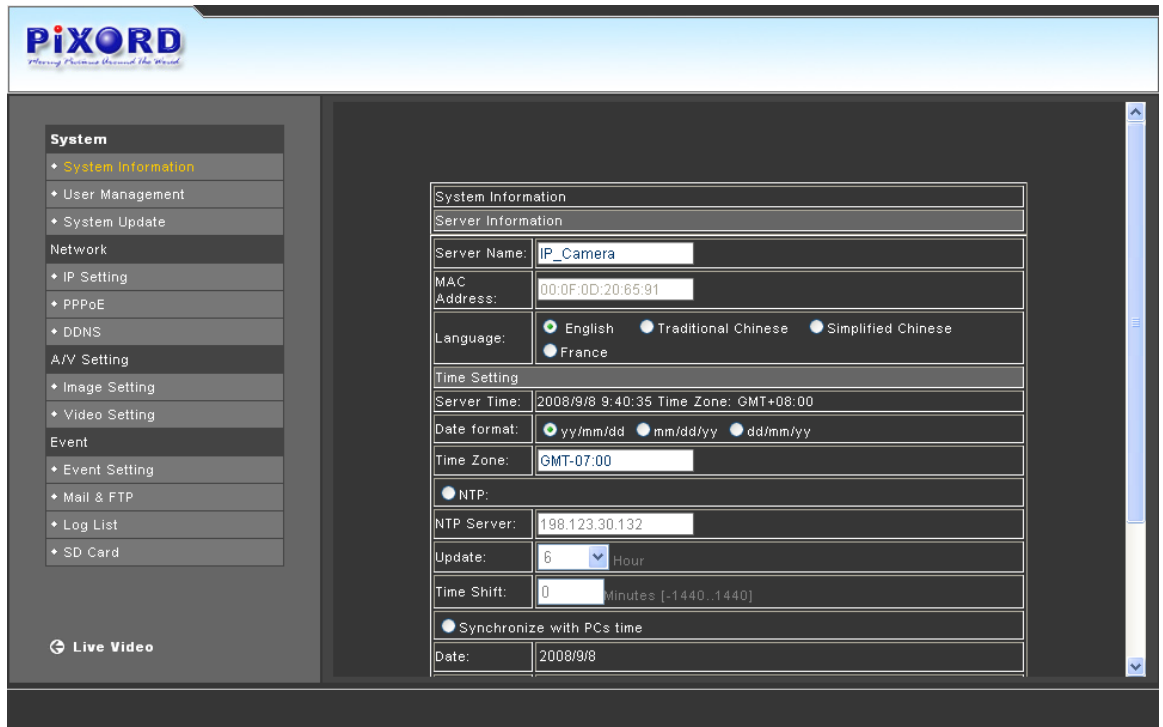


- Snapshot
- Record Start
- Mute
- Full Screen
- Zoom

1. Snapshot : Save a jpg picture
2. Record Start : Record 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.
5. Zoom: Launch digital zoom function

IP Camera Configuration

Click Configuration to get into the administration page. Click **Live Video** to back to the live video page.



1. 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 Simple Chinese to select. When changed, it will show the following dialogue box for the confirmation of changing language.



- b. OSD Setting : select a position where date & time display on screen.

OSD Setting	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Position:	<input checked="" type="radio"/> Top-Left <input type="radio"/> Top-Right <input type="radio"/> Bottom-Left <input type="radio"/> Bottom-Right

- c. Server time setting : Select options to set up time - "NTP", "Synchronize with PC's time", "Manual", "The date and time remain the same".

Time Setting	
Server Time:	2008/9/5 10:40:11 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-07:00
<input checked="" type="radio"/> NTP:	<div style="border: 1px solid black; padding: 2px;"> GMT-09:00 GMT-08:00 GMT-07:00 GMT-06:00 GMT-05:00 GMT-04:00 GMT-03:30 GMT-03:00 GMT-02:00 GMT-01:00 GMT-00:00 GMT+01:00 GMT+02:00 GMT+03:00 GMT+03:30 GMT+04:00 GMT+04:30 GMT+05:00 GMT+05:30 </div>
NTP Server:	
Update:	
Time Shift:	
<input type="radio"/> Synchroniz	
Date:	
Time:	
<input type="radio"/> Manual	
Date:	
Time:	
<input type="radio"/> The date ar	e same

ii. User Management

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

User Management			
Anonymous User Login	<input type="radio"/> YES <input checked="" type="radio"/> NO <input type="button" value="Setting"/>		
Add User			
Username:	<input type="text"/>		
Password:	<input type="text"/>		
Confirm:	<input type="text"/>		
<input type="button" value="Add/Set"/>			
User List			
Username	User Group	Modify	Remove
admin	Administrator	Edit	
1	Guest	Edit	Remove
Note: Maximun general users : 20 .			

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

The screenshot shows a web browser window with the title "User_Setting - Microsoft Internet Explorer". The main content area is titled "User Setup" and contains the following fields and buttons:

- Username:** A text input field containing the value "admin".
- Password:** An empty text input field.
- Confirm:** An empty text input field.
- OK:** A button located to the right of the "Confirm" field.

iii. System update :

Firmware Upgrade	
Firmware Version:	V3.2.38.R01.PX
New Firmware:	<input type="text"/> Browse...
<input type="button" value="Upgrade"/>	
Reboot System	
<input type="button" value="Start"/>	
Factory Default	
<input type="button" value="Start"/>	
Setting Management	
Save As a File:	Right click the mouse button on Setting Download and then select Save As to save current system's setting in the PC.
New Setting File:	<input type="text"/> Browse...
<input type="button" value="Upgrade"/>	

- a. To update the firmware online, click "Browse..." to select the firmware. Then click "Upgrade" to the proceed.
- b. Reboot system : re-start the IP camera
- c. Factory default : delete all the 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

2. Network

i. IP Setting

The camera supports DHCP and static IP.

IP Setting		
IP Assignment		
<input type="radio"/> DHCP		
<input checked="" type="radio"/> Static	IP Address:	192.168.2.213
	Subnet Mask:	255.255.255.0
	Gateway:	192.168.2.254
	DNS 0:	0.0.0.0
	DNS 1:	0.0.0.0
Port Assignment		
Web Page Port:	80	
RTSP Port:	554	
RTP Start Port:	5000 [1024..10000]	
RTP End port:	9000 [1025..10000]	
UPnP		
UPnP:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	
<input type="button" value="Apply"/>		

- a. DHCP : Using DHCP, camera will get all the network parameters automatically.
- b. Static IP : Please type in IP address, subnet mask, gateway, and DNS manually.
- c. Port Assignment: user may need to assign different port to avoid conflict when setting up IP assignment.
 1. Web Page Port: setup web page connecting port and video transmitting port (Default: 80)
 2. RTSP Port: setup port for RTSP transmitting (Default: 554)
 3. RTP Start and End Port: in RTSP mode, you may use TCP and UDP for connecting. TCP connection uses RTSP Port (554). UDP connection uses RTP Start and End Port.
- d. UPnP

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

Note: UPnP must be enabled on your computer.

Please follow the procedure to activate UPnP

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 IP device icon will be added to “MY Network Places”
6. User may double click the IP device icon to access IE browser

ii. PPPoE :

PPPoE	
PPPoE Setting	
<input checked="" type="radio"/> Enabled	<input type="radio"/> Disabled
Username:	<input type="text"/>
Password:	<input type="text"/>
Send mail after dialed	
<input type="checkbox"/> Enabled	
Subject:	PPPoE From IP Camer: <input type="button" value="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 :

Camera supports DDNS (Dynamic DNS) service.

a. DynDNS :

DDNS	
DDNS Setting	
<input checked="" type="radio"/> Enabled	<input type="radio"/> Disabled
Provider:	dyndns.org 
Hostname:	<input type="text"/>
Username:	<input type="text"/>
Password:	<input type="text"/>
Schedule Update:	60 <input type="text"/> Minutes
Status	
Idle  	
Apply	
<p>Note:</p> <p>1. Schedule Update: Depends on the input time of Schedule Update, it will update DDNS's web site automatically. The time range is from 5 to 5000 minutes. *0: It will not update.</p> <p>2. dyndns.org & 3322.org : Update once per day is recommended (1440 minutes per day). If updated too frequently, it will be blocked.</p>	

1. Please enable this service
2. Key-in the DynDNS server name, user name, and password.
3. Set up the IP Schedule update refreshing rate.
4. Click "Apply"
5. 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	
<input checked="" type="radio"/> Enabled	<input type="radio"/> Disabled
Provider:	ddns.camddns.com(TW) ▾
Username:	<input type="text"/>
Schedule Update:	60 <input type="text"/> Minutes
Status	
Idle	
<input type="button" value="Apply"/>	
Note: 1.Schedule Update: Depends on the input time of Schedule Update, it will update DDNS's web site automatically. The time range is from 5 to 5000 minutes. *0: It will not update. 2.dyndns.org & 3322.org : Update once per day is recommended (1440 minutes per day). If updated too frequently, it will be blocked.	

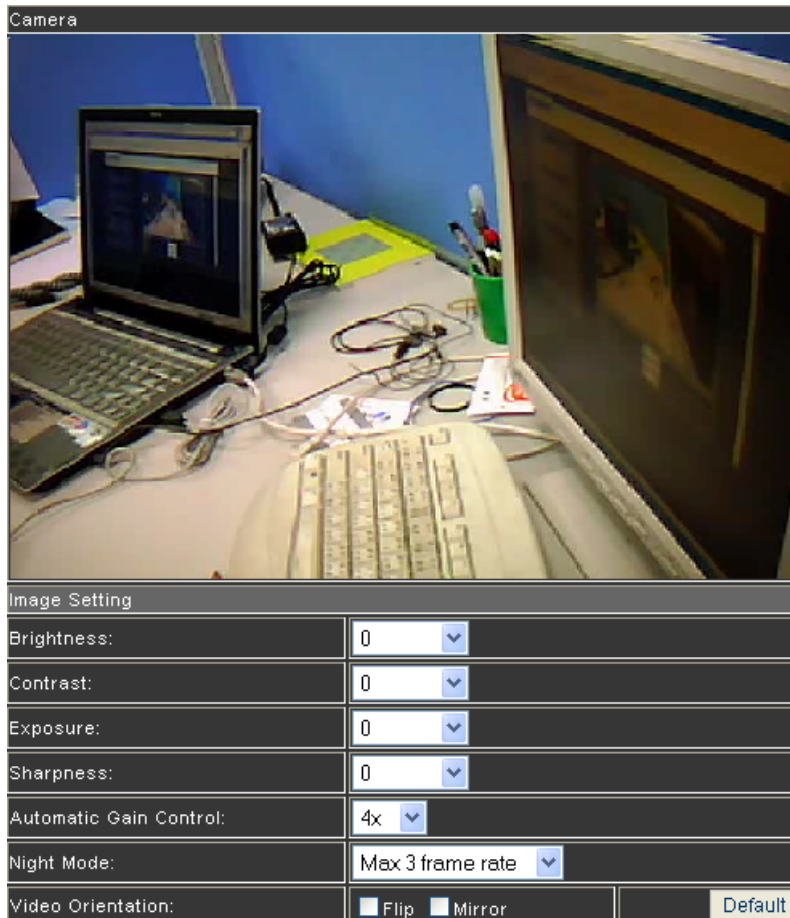
1. Please enable this service
2. Key-in user name.
3. IP Schedule update is default at 5 minutes
4. Click "Apply".

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

3. A/V Setting

i. Image Setting



Adjust "Brightness", "Contrast", "Hue", "Saturation" to get clear video.

Automatic gain control, night mode, and video orientation are adjustable.

Night mode:

This function can be set at different Frame rate to increase night illumination. Lower the Frame rate set, slower the frame refresh rate, but better the night illumination.

Night mode will be activated automatically depending on lux illumination, if set at 15 frame rate, when night mode activated at night, the frame rate will not be more than 15FPS

ii. Video setting

User may select 2 streaming output simultaneously:

Streaming 1 Setting: Basic mode and Advanced mode

Streaming 2 Setting: Basic mode, Advanced mode, and 3GPP mode

(Max Video Frame Rate for both streaming combined is 30 FPS)

a. Streaming 1 Basic Mode :

Video	
Streaming 1 Setting	
<input checked="" type="radio"/> Basic Mode <input type="radio"/> Advanced Mode	
Resolution:	VGA - 640x480 ▾
Quality:	Medium ▾
Video Frame Rate:	10 FPS ▾
Video Format:	MPEG4 ▾
Video System:	60 Hz ▾
RTSP Path:	v0 ex:rtsp://<<IP>>/v0 No Audio

1. Resolution :

There are 4 resolutions to choose.

SXGA – 1280x1024

VGA – 640x480

QVGA – 320x240

QQVGA – 160x120

2. Quality :

There are 5 levels to adjust:

Best/ High/ Standard/ Medium/ Low

The higher the quality is, the bigger the file size is.

Also not good for internet transmitting

3. Video Frame Rate : The video refreshing rate per second. [Max 30 FPS \(10FPS at resolution 1280x1024\)](#)

4. Video Format : MPEG4 or JPEG.

5. Video System:

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

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

6. RTSP Path: RTSP output name

b. Streaming 1 Advanced Mode :

Video	
Streaming 1 Setting	
<input type="radio"/> Basic Mode <input checked="" type="radio"/> Advanced Mode	
Resolution:	VGA - 640x480
Bitrate Control Mode:	<input checked="" type="radio"/> CBR <input type="radio"/> VBR
Video Quantitative:	7
Video bitrate:	512Kbps
Video Frame Rate:	10 FPS
GOP Size:	1 X FPS GOP = 10
Video Format:	MPEG4
Video System:	60 Hz
RTSP Path:	v0 ex:rtsp://<<IP>>/v0 No Audio

1. Resolution :

There are 4 resolutions to choose.

SXGA – 1280x1024

VGA – 640x480

QVGA – 320x240

QQVGA – 160x120

2. Bitrate Control Mode

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

CBR : 32Kbps~4Mbps (the higher the CBR is, the better the video quality is , vice versa)

VBR : 1~10 (Compression Rate)

3. Video Frame Rate

Picture display frame per second

[Max 30 FPS \(10FPS at resolution 1280x1024\)](#)

4. GOP Size

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...

7. RTSP Path: RTSP output connecting route

c. Streaming 2 Basic Mode :

Streaming 2 Setting	
<input checked="" type="radio"/> Basic Mode <input type="radio"/> Advanced Mode <input type="radio"/> 3GPP Mode <input type="radio"/> Close	
Resolution:	VGA - 640x480
Quality:	Low
Video Frame Rate:	20 FPS
Video Format:	MPEG4
RTSP Path:	v2 ex:rtsp://<<IP>>/v2 No Audio
<input type="button" value="Apply"/>	

1. Resolution :

There are 4 resolutions to choose.

SXGA – 1280x1024

VGA – 640x480

QVGA – 320x240

QQVGA – 160x120

2. Quality :

There are 5 levels to adjust:

Best/ High/ Standard/ Medium/ Low

The higher the quality is, the bigger the file size is. Also not good for internet transmitting

3. Video Frame Rate:

The video refreshing rate per second

Max 30 FPS (10FPS at resolution 1280x1024)

4. Video Format : MPEG4 or JPEG

5. RTSP Path: RTSP output connecting route

d. Streaming 2 Advanced Mode :

Streaming 2 Setting	
<input type="radio"/> Basic Mode <input checked="" type="radio"/> Advanced Mode <input type="radio"/> 3GPP Mode <input type="radio"/> Close	
Resolution:	VGA - 640x480
Bitrate Control Mode:	<input checked="" type="radio"/> CBR <input type="radio"/> VBR
Video Quantitative:	7
Video bitrate:	128Kbps
Video Frame Rate:	20 FPS
GOP Size:	1 X FPS GOP = 20
Video Format:	MPEG4
RTSP Path:	v2 ex:rtsp://<<IP>>/v2 No Audio
<input type="button" value="Apply"/>	

1. Resolution :

There are 4 resolutions to choose.

- SXGA – 1280x1024
- VGA – 640x480
- QVGA – 320x240
- QQVGA – 160x120

2. Bitrate Control Mode

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

CBR : 32Kbps~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 Size

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

5. Video Format : MPEG4 or JPEG

6. RTSP Path: RTSP output name

e. Streaming 2, 3GPP mode:

Streaming 2 Setting	
<input type="radio"/> Basic Mode <input type="radio"/> Advanced Mode <input checked="" type="radio"/> 3GPP Mode <input type="radio"/> Close	
Resolution:	QCIF - 176x120
Bitrate Control Mode:	<input checked="" type="radio"/> CBR <input type="radio"/> VBR
Video Quantitative:	7
Video bitrate:	128Kbps
Video Frame Rate:	5 FPS
GOP Size:	1 X FPS GOP = 5
Video Format:	MPEG4
3GPP Path:	3g ex:rtsp://<<IP>>/3g Audio:AMR
	ex:rtsp://<<IP>>/3gx No Audio
<input type="button" value="Apply"/>	

3GPP default value is QQVGA · 128Kbp · 5FPS · GOP=1XFPS

3GPP mode suggested setting: QQVGA, lower than 128kbps, 5FPS, GOP= 1x FPS or 2x FPS, MPEG4 format

3GPP can achieve up to 10FPS, In 3GPP mode, Stream 1 & Stream 2 combined frame rate is 20FPS

1. Fix Resolution :
QQVGA – 160x120
2. Bitrate Control Mode
There are CBR [Constant Bit Rate] and VBR [Variable Bit Rate] to use.
CBR : 32Kbps~320bps (the higher the CBR is, the better the video quality is)
VBR : 1~10 (Compression Rate)
3. Video Frame Rate (5 FPS is recommended)
The video refreshing rate per second.
4. GOP Size
It means "Group of Pictures". The higher the GOP is, the better the quality is.
5. Video Format : MPEG4 or JPEG
6. 3GPP: 3GPP output name

4. Event List

This IP Camera provides multiple event settings.

i. Event Setting

Event Setting				
Motion Detection				
Area Setting	<input type="checkbox"/> Area 1:	<input type="checkbox"/> Area 2:	<input type="checkbox"/> Area 3:	
Sensitivity:	<input type="text" value="5"/>	<input type="text" value="5"/>	<input type="text" value="5"/>	
<input type="checkbox"/> Area 1:	<input type="checkbox"/> E-mail	<input type="checkbox"/> FTP	<input type="checkbox"/> Out1	<input type="checkbox"/> Save to SD card
<input type="checkbox"/> Area 2:	<input type="checkbox"/> E-mail	<input type="checkbox"/> FTP	<input type="checkbox"/> Out1	<input type="checkbox"/> Save to SD card
<input type="checkbox"/> Area 3:	<input type="checkbox"/> E-mail	<input type="checkbox"/> FTP	<input type="checkbox"/> Out1	<input type="checkbox"/> Save to SD card
Subject:	<input type="text" value="IP Camera Warning!"/>			
Interval:	<input type="text" value="10 sec"/> a period of time between every two motions detected.			
Record File				
File Format:	<input type="text" value="AVI File(with Record Time Setting)"/>			
Record Sett:	<input type="text" value="AVI File(with Record Time Setting)"/> <input type="text" value="JPEG Files(with Record Time Setting)*Only with JPEG Compression Format."/> <input type="text" value="JPEG File(Single File with Interval Setting)"/>			
Pre Alarm:	<input type="text"/>			
Network Dis-connected				
Dis-connected:	<input type="checkbox"/> Save to SD card			
Network IP Check				
IP Check:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled			
IP Address:	<input type="text" value="www.google.com"/>			
Interval:	<input type="text" value="30 sec"/>			
IP Check:	<input type="checkbox"/> Save to SD card			
<input type="button" value="Apply"/>				

a. Motion Detection

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

b. Record File Setting: IP CAMERA allows 3 different types of recording file to change its record size.
When motion/alarm is triggered, there are 3 different types of record mode.

1. AVI File (With Record File Setting)
2. Multi-JPEG (With Record File Setting), only with JPEG compression format.
3. Single JPEG (Single File with Interval Setting)

c. Record Time Setting : Pre Alarm and Post Alarm setups for video start and end time when motion detected, I/O, or other devices got triggered.

Note: Pre/Post Alarm record time is base on record time setting and IP Cam built-in Ram memory. Limited by IP Cam built-in Ram Memory, When information is too much or video quality set too high, it will cause recording frame drop or decrease on post alarm recording time.

d. Network Dis-connected

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

This function is only enabled in wire connection.

e. Network IP check

For the use of recording software, IP CAMERA supports the detection of network connection.

Whenever the connection is down, it records the video to SD card. To use this function, key in the IP address of the PC which is installed in the recording software, and enable the function of "Save to SD card", then click "Apply".

The interval of two video files 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 Setting	
Login Method:	Account <input type="button" value="v"/>
Mail Server:	<input type="text"/>
Username:	<input type="text"/>
Password:	<input type="text"/>
Sender's Mail:	<input type="text"/>
Receiver's Mail:	<input type="text"/>
BCC Mail:	<input type="text"/>
Port:	25 (Default 25)
<input type="button" value="Test"/>	

FTP Setting	
FTP Server:	<input type="text"/>
Username:	<input type="text"/>
Password:	<input type="text"/>
Port:	21
Path:	/ <input type="text"/>
<input type="button" value="Test"/>	
<input type="button" value="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 this 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	<input type="checkbox"/>
09:05:22	090522f.avi	Network Dis-connected	<input type="checkbox"/>
09:05:52	090552f.avi	Network Dis-connected	<input type="checkbox"/>
09:06:22	090622f.avi	Network Dis-connected	<input type="checkbox"/>
09:06:52	090652f.avi	Network Dis-connected	<input type="checkbox"/>
09:07:22	090722f.avi	Network Dis-connected	<input type="checkbox"/>
09:07:52	090752f.avi	Network Dis-connected	<input type="checkbox"/>
09:08:22	090822f.avi	Network Dis-connected	<input type="checkbox"/>
09:08:51	090851f.avi	Network Dis-connected	<input type="checkbox"/>
09:09:21	090921f.avi	Network Dis-connected	<input type="checkbox"/>
09:09:51	090951f.avi	Network Dis-connected	<input type="checkbox"/>

1 2 3 4 5

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

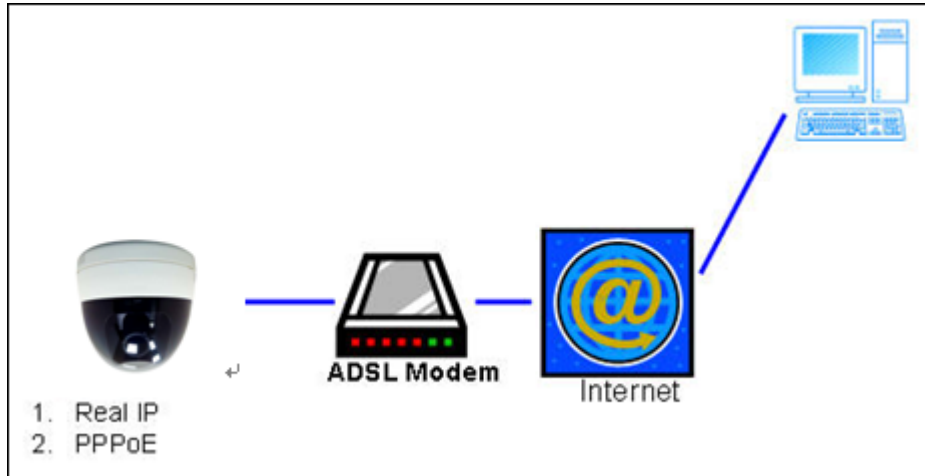
iv. Log List

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.

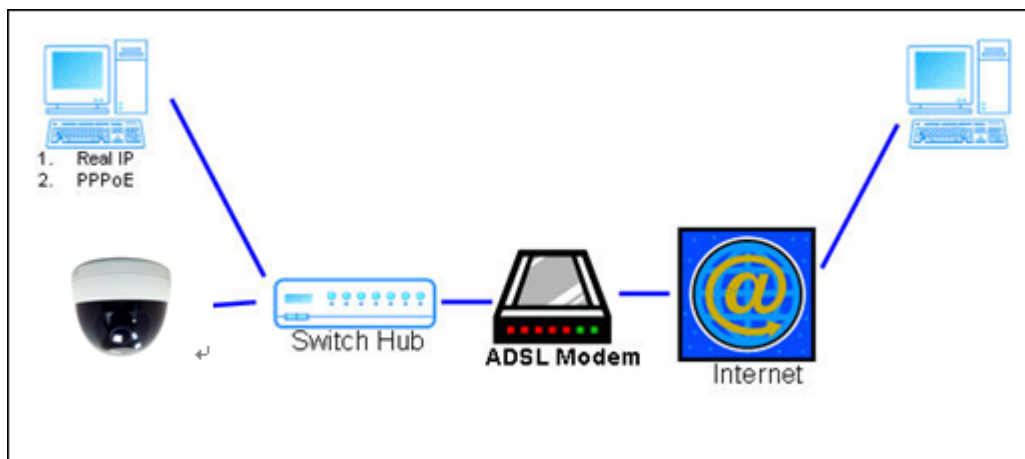
Network Configuration

i. Configuration 1 :



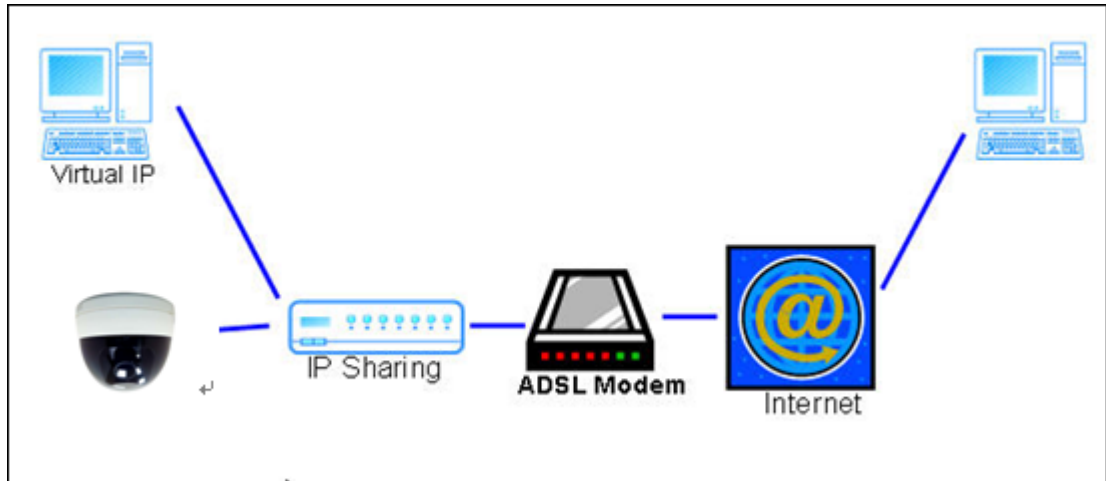
- a. Internet Access : ADSL or Cable Modem
- b. IP address : One real IP or one dynamic IP
- c. Only this IP camera connects to the internet
- d. For fixed real IP, set up the IP into this IP camera. For dynamic IP, start PPPoE.

ii. Configuration 2 :



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

iii. Configuration 3 :

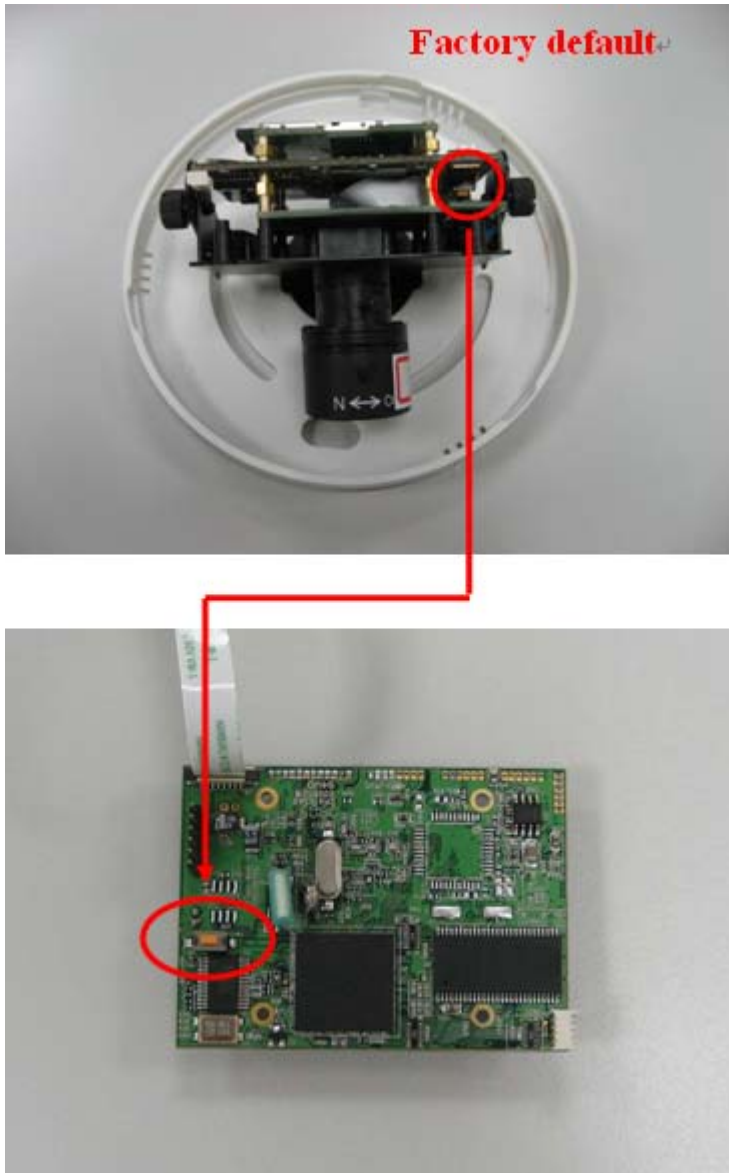


- a. Internet Access : ADSL or Cable Modem
- b. IP address : one real IP or one dynamic IP
- c. This IP Camera and PC connect to the internet
- d. Device needed : IP sharing
- e. Use virtual IP, set up port forwarding in IP sharing.

Chapter 7

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 as circled in the below figure.



- 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 proceed.
- vi. Re-login the camera using the default IP (<http://192.168.1.200>), and user name (admin), password (admin).

Appendix A

List of Compatible SD

SD Card Recommended :

SanDisk 128M

SanDisk 256M

SanDisk 512M

SanDisk 1G

SanDisk 2G

SanDisk 4G

Transcend 128M 80X

Transcend 256M 80X

Transcend 512M 80X

Transcend 1G 80X

Transcend 2G 80X

Transcend 4G 80X