

# WB-H811 1Ch Video Encoder/Server



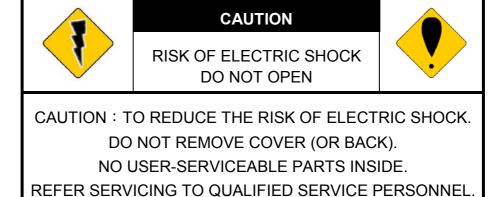


#### **WARINGS**

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

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

#### **CAUTION**



#### **COPYRIGHT**

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



# Content

I.	PREFACE	4
II.	PRODUCT SPECIFICATIONS	4
III.	PRODUCT INSTALLATION	7
A.	MONITOR SETTING	7
B.	. Hardware Installation	8
C.	. IPAssignment	10
D.	). Install ActiveX control:	13
IV.	LIVE VIDEO	15
V.	VIDEO SERVER CONFIGURATION	18
A.	SYSTEM	19
B.	Network	25
C.	A/V SETTING	31
D.	D. EVENT LIST	37
VI.	NETWORK CONFIGURATION	42
VII.	FACTORY DEFAULT	44
VIII.	PACKAGE CONTENTS	44
APP	PENDIX I	44

 $V1.0\_2009/08/31$ 



## I. Preface

Video Server is a 1 channel video server with the web server built in. User views real-time video via IE browser. Video Server supports H.264/ MPEG-4 (3GPP Only)/ 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 video server which can connect any kind of analogue camera to fit the customer's need.

# **II. Product Specifications**

- 1-CH Input
- H.264/ MJPEG/MPEG4 (3GPP only) compression
- SD card backup
- 2-way audio
- Support Cell Phone/PDA/3GPP
- 3 Streaming
- Power Over Ethernet available
- SDK for Software Integration
- Wireless (Optional)
- Free Bundle 36 ch recording software

#### **Specifications**

Hardware			
CPU	ARM 9 ,32 bit RISC		
DDR2	128MB		
Flash	8MB		
Video in	1 in BNC connector		
Video Looping Input	1		
Audio in/ out	1 in/ 1 out		
I/O	2 in/ 2 Relay out (COM. & N.O. & N.C.)		
	Relay Out: DC 24V@1A AC 110V@0.5A		
RS-485	1, for PTZ control		
RS-232	YES		



Power Over Ethernet	YES (optional)		
Power Consumption	DC 12V, 350mA, 4W		
Dimensions	, ,		
Network	134mm (W) x 42mm (L) x 107mm (D)		
Ethernet	10/ 100 Base-T		
Network Protocol	HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP,		
Network Protocor	DDNS, NTP, UPnP, 3GPP		
Wireless (Optional)	DDN3, NTF, OFTIF, 3GFF		
Wireless	802.11b/g		
Security	WEP,WPA-PSK,WPA2-PSK		
System	WEI,WIA-I OK,WIAZ-I OK		
Oystem	NTSC - 720x480, 704x480,352x240, 176x120		
Video Resolution	PAL – 720x576, 704x576, 352x288, 176x144		
	17.2 120,010, 104,010, 002,200, 110,144		
Image Frame rate	30/25 fps (NTSC/PAL)		
Video adjust	Brightness, Contrast, Saturation, Hue,		
T: 1 01 :	Sharpness		
Triple Streaming	Yes		
Image snapshot	Yes		
Full screen monitoring	Yes		
Privacy Mask	Yes, 3 different areas		
Compression format	H.264/ JPEG/ MPEG4 (3GPP only)		
Video bitrates adjust	CBR, VBR		
Motion Detection	Yes, 3 different areas		
Triggered action	Mail, FTP, Save to SD card, Relay		
Pre/ Post alarm	Yes, configurable		
Security	Password protection		
Firmware upgrade	HTTP mode, can be upgraded remotely		
Simultaneous	Up to 10		
connection			
Audio	Yes, 2-way		
SD card management			
Recording trigger	Motion Detection, IP check, Network break down		
	(wire only),schedule, Alarm		
Video format	AVI, JPEG		
Video playback	Yes		



Delete files	3	Yes	
Web browsing requirement			
OS		Windows 2000, XP, 2003, Microsoft IE 6.0 or	
		above	
Hardware	Suggested	Intel Dual Core 1.66G,RAM: 1024MB, Graphic	
		card: 128MB	
	Minimum	Intel-C 2.8G, RAM: 512MB, Graphic card: 64MB	



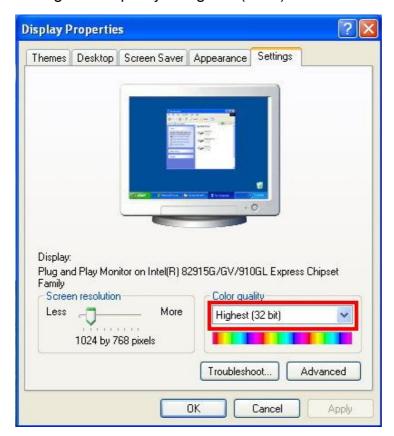
## III. Product Installation

# A. Monitor Setting

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



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





## B. Hardware Installation

#### **B-1: Hardware Connection**

i. Connect power adaptor



ii. Connect Video Server to PC or network with Ethernet cable



iii. Set up the network configurations according to the network environment. For further explanation, please refer to chapter VI, "Network Configuration for Video Server".

#### B-2: I/O Control Instruction

I/O terminal connector – used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to:

Digital Input (GND+Alarm) – An alarm input for connecting devices that can toggle between an open and closed circuit, for example: PIRs, door/window contacts, glass break detectors, etc. When a signal is received the state changes and the input becomes active.

Relay output (COM +N.O.) – An output to Relay switch, for example: LEDs, Sirens, etc



## Digital Input

#### Alarm Input

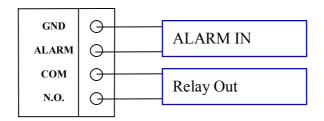
1. GND (Ground): Initial state is LOW

2. Alarm: Max. 50mA, 12VDC

## Relay Output

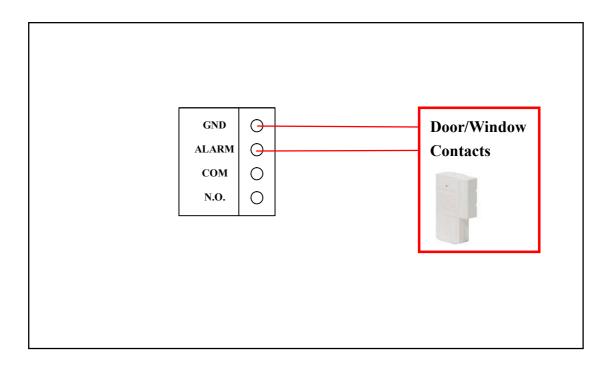
1. COM: (Common)

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



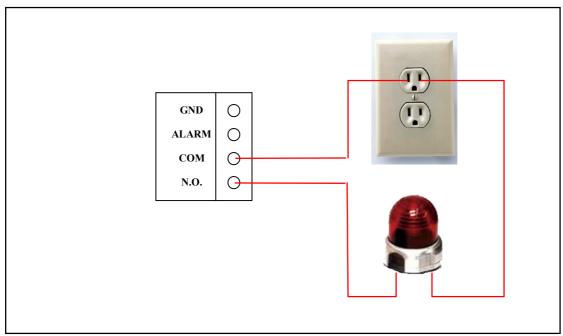
## B-2 Relay Connection:

Digital Input connection





#### Relay Output Connection



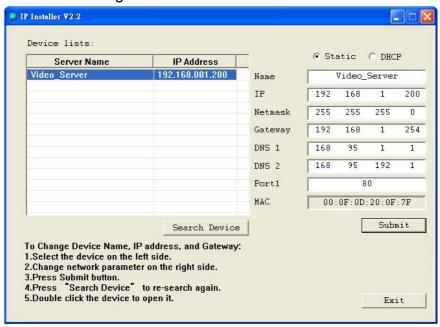
# C. IP Assignment

- i. Use the software, "IP Installer" to assign the IP address of Video Server. The software is in the attached software CD.
- ii. There are two languages for the IP installer
  - 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, it may popup the following message box. Please click "Unblock".





vi. IP Installer configuration:



- vii. IP Installer will search all IP Devices connected on Lan. The user can click "Search Device" to search again.
- viii. Click the Video Server listed on the left side. The network configuration of this Video Server will show on the right side. You may change the "name" of the Video Server 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 Video Server IP address are the same.

#### The same Subnet:

Video Server IP address: <u>192.168.1</u>.210



PC IP address: <u>192.168.1</u>.110

**Different Subnets:** 

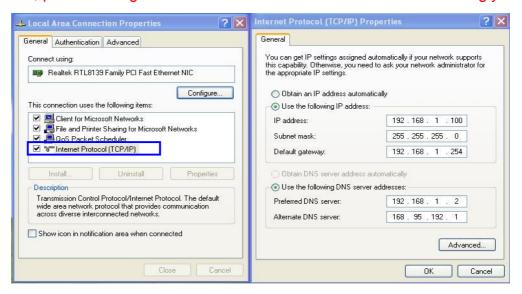
Video Server IP address: <u>192.168.2</u>.210

PC IP address: <u>192.168.1</u>.110

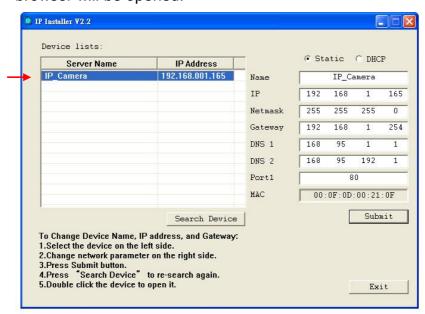
#### To Change PC IP address:

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

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



x. A quick way to access remote monitoring is to left-click the mouse twice on a selected Video Server 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 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





4





5

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





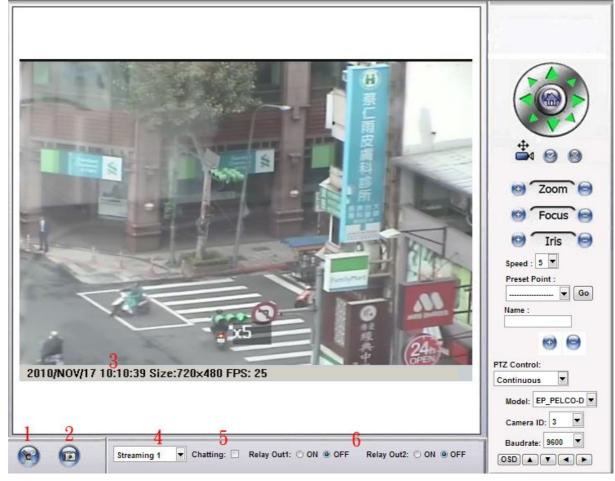
# IV. Live Video

Start a IE browser, type the IP address of the Video Server 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 Video Server • The following program interface shows.







1.

Get into the administration page



: Video Snapshot

- 3. Shows how many people connect to this Video Server
- 4. Show system time, video resolution, and video refreshing rate
- Video Server 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 Video Server side.
- Select PTZ protocol to control the PTZ camera which is connected to this video server. The PTZ function will be slightly different depends on which protocol to use.

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.

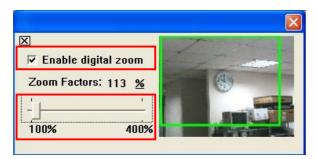
Right-Click the mouse on the video, it will show a pop-up menu.



S<u>n</u>apshot <u>R</u>ecord Start <u>M</u>ute <u>F</u>ull Screen

 $\underline{Z}oom$ 

- 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.
- Full Screen : Full-screen mode.
- Zoom: Enable zoom-in and zoom-out functions. Select "Enable digital zoom" option first within the pop-up dialogue box and then drag and drop the bar to adjust the zoom factors.





# V. Video Server Configuration

Click to get into the administration page. Click video page.



to back to the live

System Information Server Information MAC Address: 00:0F:0D:00:23:6B User Management Status Bar Server Name: System **◎** ON ○ OFF LED Indicator: ○ 繁體中文 ○ 简体中文 English O Polski O France OSD Setting PPPoE O Enabled O Disabled Time Stamp: O Enabled O Disabled Text: Test Text Edit Network Time Setting 2009/10/6 17:18:43 Time Zone: GMT+08:00 Image Setting Date Format: Time Zone: Video Setting O NTP: NTP Server: 198.123.30.132 A/V Setting Time Shift: Minutes [-1440..1440] O Synchronize with PC's time Schedule 2009/10/6 Time: 17:20:30 2009/10/6 Time : 17:20:29 Apply



# 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 Video Server name. This name will show on the IP Installer.
    - 2. Select Language: There are English, Traditional Chinese, and Simple Chinese to select. When change, it will show the following dialogue box for the confirmation of changing language.



b. Overlay Setting: select a position where date & time showing on screen.



Moreover, click Text Edit can entry to adjust the OSD contents which is including Size and Alpha of text. Finally, click Upgrade button to reserve the setting.



c. Server time setting: Select options to set up time - "NTP",



"Synchronize with PC's time", "Manual", "The date and time remain the same".

ime Setting	00071414444	04 T: 7 04 T 00 00	
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 N		
NTP:	GMT-09:00 /	S	
5000000000	GMT-08:00		
NTP Server:	GMT-07:00		
_	GMT-06:00		
Synchronize	GMT-05:00		
Date .	GMT-04:00		
Date :	GMT-03:30		
Time :	GMT-03:00		
Tillio.	GMT-02:00		
○ Manual	GMT-01:00		
(C)	GMT-00:00		
Date:	GMT+01:00		
5533	GMT+02:00		
Time :	GMT+03:00		
O The date and		L	
o The date and	GMT+04:00	e same	
	GMT+04:30		Apply
	CMT-05-00		

#### ii Vuser Management

Video Server supports three different users, administrator, general user, and anonymous user.

	User Man	agement	
Anonymous User	Login		
	O YES	<b>● NO</b>	Setting
Add User			
Username:			
Password:			
Confirm:	-		
			Add/Set
User List			
Userame	User Group	Modify	Remove
admin	Administrator	Edit	

a. Anonymous User Login:

Yes: Allow anonymous login

No: Need user name & password to access this Video Server

b. Add user:

Type the user name and password, then click "Add/Set".

**Note:** Allow guest to login as a Guest. Guest is only allowed to browse the page.

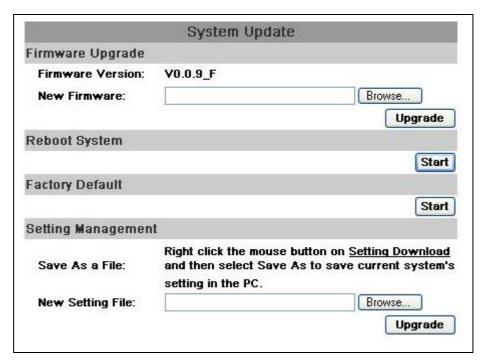


c. Click "edit" or "delete" to modify the user.

		N
	User Setup	
Username:	admin	
Password:		
Confirm:		OK



#### iii · System update:

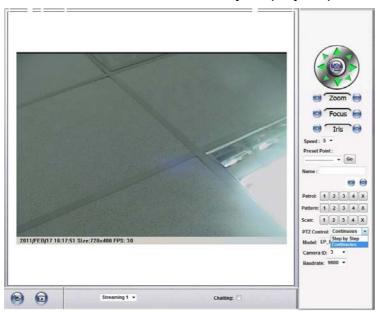


- a. To update the firmware online, click "Browse..." to select the firmware. Then click "Upgrade" to proceed.
- b. Reboot system: re-start the IP camera
- c. Factory default: delete all settings and restore defaults system.
- d. Setting Management: User may download the current setting to PC, or upgrade from previous saved setting.
  - 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
  - Upgrade from previous setting
     Browse → search previous setting → open → upgrade →
     Setting update confirm → click <u>index.html</u>. to return to main page



## iv . PTZ Setting:

a. PTZ control mode: Select by Step by step or Continuous



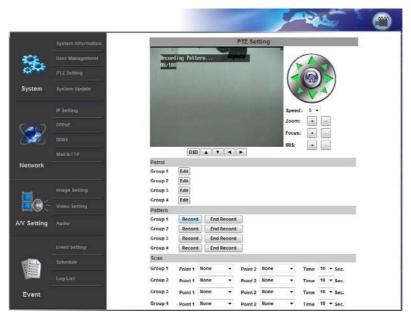
b. Set Patrol



- 1. Add preset point
- 2. Edit Patrol group by 24 preset point, then save
- 3. call Patrol 1 ~ 4 on web page

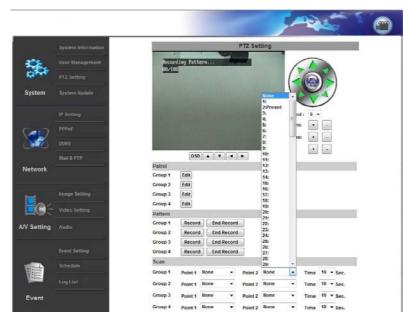


#### c. Set Pattern



- Press record button to start record, then press End record to stop record.
- 2. call Pattern 1 ~ 4 on web page





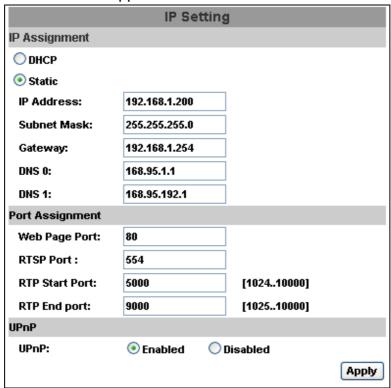
- 1. Set left / right position by preset point, then set stay time
- 2. call Scan 1 ~ 4 on web page



## **B.Network**

i . IP Setting

Video Server supports DHCP and static IP.



- a. DHCP: Using DHCP, IP Vandal Dome 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)
  - 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
- 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		
© Enabled Username: Password:	Disabled	
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:

Video Server supports DDNS (Dynamic DNS) service.

a. DynDNS:

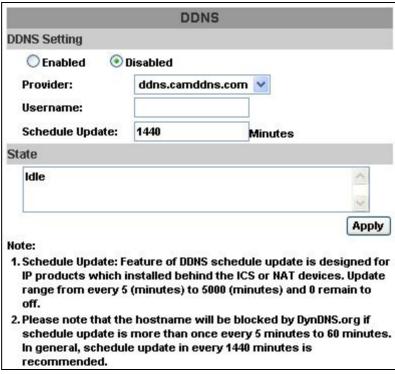
	DDNS	
DDNS Setting		
O Enabled	Disabled	
Provider: Hostname:	dyndns.org	<u> </u>
Username:		
Password: Schedule Update:	1440	Minutes
State	- Landard	
Idle		Apply
IP products which i range from every 5 off. 2. Please note that the	installed behind i (minutes) to 500 e hostname will i more than once	chedule update is designed f the ICS or NAT devices. Updat 10 (minutes) and 0 remain to be blocked by DynDNS.org if every 5 minutes to 60 minute y 1440 minutes is

- 1. Enable this service
- 2. Key-in the DynDNS server name, user name, and password.



- 3. Set up the IP 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 :



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

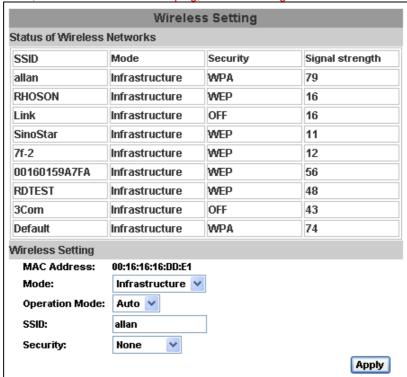
#### c. DDNS Status

- 1. Updating: Information update
- 2. Idle: Stop service
- 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.
- 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.



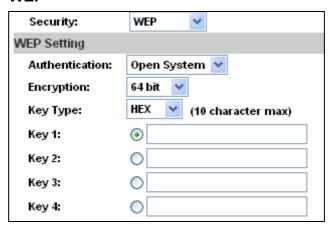
- Status of Wireless Networks :
   scan all wireless services.
- b. Wireless Setting :
  - Mode: There are Infrastructure and Ad-hoc. Infrastructure is for connecting with the router. Ad-hoc is for connecting with PC. There is "Channel" to select only when user uses Ad-hoc mode.
    - e.g. If one PC's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



- 2. **SSID**: Based on AP setting.
- 3. **Channel**: This is only be used 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**:



- 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

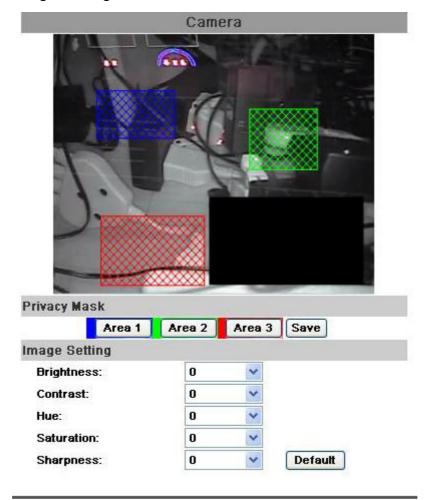


- Encryption: There are TKIP and AES.
- Pre-Shared Key: Allow any characters. (Case sensitive)



# **C.A/V Setting**

#### i . Image Setting



For the security purpose, there are three areas can be setup for privacy mask. Click Area button first and pull a area on the above image. Finally, click Save button to reserve the setting.

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

### ii Video Setting

User may select 3 streaming output simultaneously: Streaming 1 Setting: Basic mode and Advanced mode Streaming 2 Setting: Basic mode, Advanced mode 3GPP Streaming Setting

#### a. Streaming 1 Basic Mode:



Streaming 1 Setting			
⊕ Basic Mode	dvanced Mode		
Resolution:	D1 - 720x480	*	
Quality:	Standard 🔽		
Video Frame Rate:	30 FPS 💌		
Video Format:	H.264 💙		
RTSP Path:		ex:rtsp://<>/	Audio:G.711

#### 1. Resolution:

There are 4 resolutions to choose.

		NTSC	/	PAL
D1	-	720×480	/	720×576
4CIF	_	704×480	/	704×576
CIF	_	352×240	/	352×288
QCIF	_	176×120	/	176×144

#### 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.
- 4. Video Format: H.264 or MJPEG.
- 5. RTSP Path: RTSP output name

#### b. Streaming 1 Advanced Mode:

Streaming 1 Setting	
O Basic Mode 💿 A	dvanced Mode
Resolution:	D1 - 720x480 💌
Bitrate Control Mode:	○ CBR • VBR
Video Quantitative:	7
Video Bitrate:	1Mbps v
Video Frame Rate:	30 FPS 🔻
GOP Size:	1 X FPS GOP = 30
Video Format:	H.264 🕶
RTSP Path:	ex:rtsp://<>/ Audio:G.711

#### 1. Resolution:

There are 4 resolutions to choose.

NTSC / PAL



D1 - 720×480 / 720×576 4CIF - 704×480 / 704×576 CIF - 352×240 / 352×288 QCIF - 176×120 / 176×144

#### 2. Bitrate Control Mode

There are CBR (Constant Bit Rate) and VBR (Variable Bit Rate) to use.

CBR: 32Kbps~4Mbps – Increase CBR to increase the picture qulity; vise versa

VBR: 1(Low)~10(High) – Compression rate, the higher the compression rate, the lower the picture quality is; vise versa. The balance between VBR and network bandwidth will affect picture quality. Please carefully select the VBR rate to avoid picture breaking up or lagging.

3. Video Frame Rate

Picture display frame per second

NTSC: Max 30 frames/second PAL: Max 25 frames/second

4. GOP Size

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

Video Format :

There are 2 Video Format to choose H.264 or MJPEG.

6. RTSP Path: RTSP output connecting route

#### c. Streaming 2 Basic Mode:

Streaming 2 Setting	
Basic Mode     Ad	lvanced Mode
Resolution:	CIF - 352x240 🔻
Quality:	Standard 🕶
Video Frame Rate:	30 FPS 💌
Video Format:	H.264 🕶
RTSP Path:	v2 ex:rtsp://<>/v2 Audio:G.711

#### 1. Resolution:

D1

There are 4 resolutions to choose.

NTSC / PAL - 720×480 / 720×576



4CIF - 704×480 / 704×576 CIF - 352×240 / 352×288 QCIF - 176×120 / 176×144

2. Quality:

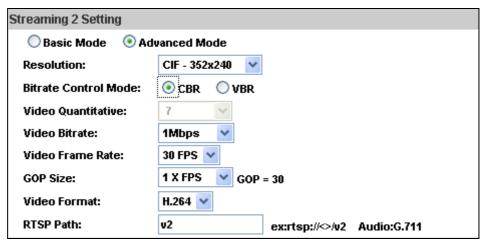
There are 5 levels to adjust:

Best/ High/ Standard/ Medium/ Low

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

- 3. Video Format: H.264 or JPEG
- 4. RTSP Path: RTSP output connecting route

#### d. Streaming 2 Advanced Mode:



#### 1. Resolution:

There are 4 resolutions to choose.

**NTSC** / PAL D1 - 720×480 / 720×576 4CIF - 704×480 / 704×576 CIF 352×240 352×288 / QCIF - 176×120 / 176×144

2. Bitrate Control Mode

There are CBR  $\{$  Constant Bit Rate  $\}$   $\,$  and VBR  $\{$  Variable Bit

Rate 1 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 : H.264 or JPEG6. RTSP Path: RTSP output name

e. 3GPP Streaming Setting mode:

3GPP Streaming	g Setting			
<ul><li>Enabled</li></ul>	O Disabled (Resolution=176	бх144, FPS=5, Forr	nat=MPEG4)	
3GPP Path:	3g	ex:rtsp://<>/3g	Audio:AMR	
		ex:rtsp://<>/3gx	No Audio	
				Apply

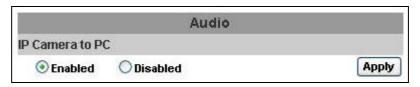
3GPP default value is Resolution=176x144, 5FPS, Format=MPEG4

- 1. Enable or Disable 3GPP Streaming
- 2. 3GPP: 3GPP output name

#### iii 、 Audio:

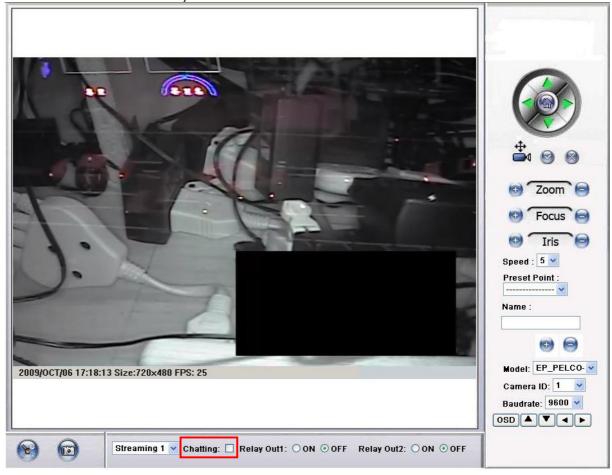
Video Server supports 2-way audio.

 a. From video server to local PC, select "Enable" to start this function (When enabled, you can send audio via external mic in the IP Camera)





b. From local PC to Video Server, check "chatting" in the browsing page (You will need a mic to send audio from local PC to IP Camera)



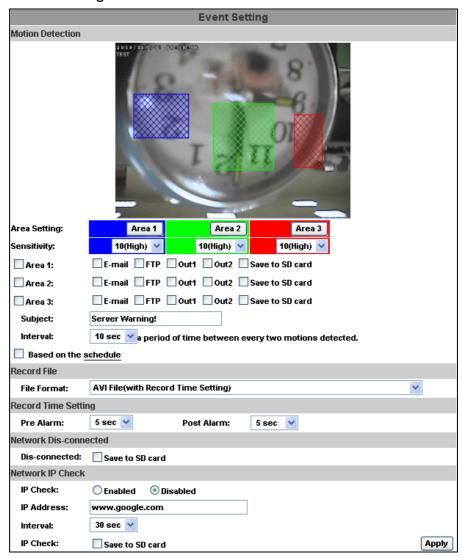
The Audio will not be smooth when enable SD card recording function simultaneously.



## **D.Event List**

Video Server provides multiple event settings.

i . Event Setting



a. Motion Detection:

Video Server allows 3 areas motion detection. When motion is triggered, it can send the video to some specific mail addresses, transmit the 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 draw the area. The same operation for area 2 and 3.

 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)
- 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

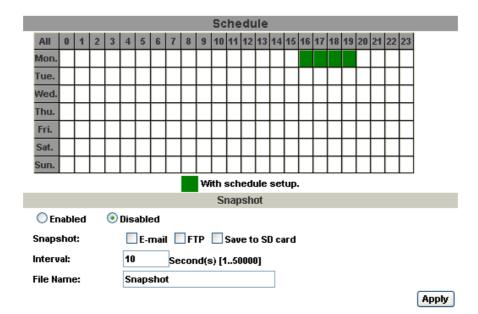
When the connection is down, it records the video to SD card. Make sure the video recording is continuous. To use this function, key in the IP address of the PC which has recording software installed. Enable the function of "Save to SD card", then click "Apply".

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

#### ii . Schedule

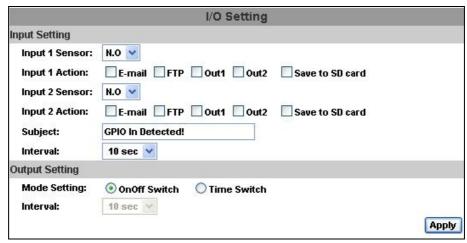
- a. Schedule: After complete the schedule setup, the camera data will be recorded according to the schedule setup.
- b. Snapshot: After enable the snapshot function, user can select the storage position of snapshot file, the interval time of snapshot and the reserved file name of snapshot.





#### iii . I/O Setting

Video Server supports 2 input/ 2 Relay output. When input is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server, trigger the relay, and save video to local SD card.



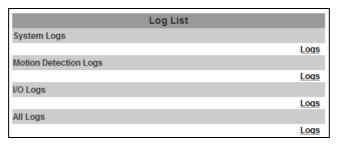
#### iv . Mail & FTP

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



	Mail 8	FTP	
Mail Setting			
Mail Server: Username: Password: Sender's Mail: Receiver's Mail: Bcc Mail:			
TP Setting			
FTP Server: Username: Password:			
Port:	21		
Path:	1		Apply

v . Log List



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 · 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 Video Server slightly, such as affecting the frame rate of the



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.



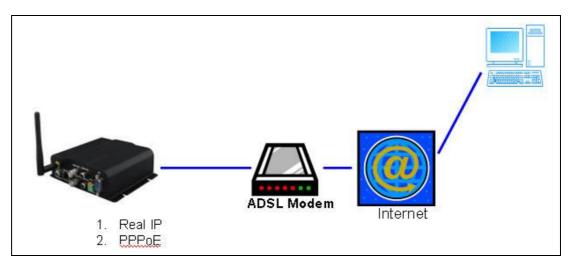
2006/04/17		
Video	Event Type	
090522f.avi	Network Dis-connected	
090552f.avi	Network Dis-connected	
090622f.avi	Network Dis-connected	
090652f.avi	Network Dis-connected	
090722f.avi	Network Dis-connected	
090752f.avi	Network Dis-connected	
090822f.avi	Network Dis-connected	
090851f.avi	Network Dis-connected	
090921f.avi	Network Dis-connected	
090951f.avi	Network Dis-connected	
	Video 090522f.avi 090552f.avi 090622f.avi 090652f.avi 090722f.avi 090752f.avi 090822f.avi	Video Event Type  090522f.avi Network Dis-connected 090552f.avi Network Dis-connected 090622f.avi Network Dis-connected 090652f.avi Network Dis-connected 090722f.avi Network Dis-connected 090752f.avi Network Dis-connected 090822f.avi Network Dis-connected 090821f.avi Network Dis-connected 090921f.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 it, then click Del. When the SD card is full, it will remove the oldest video automatically.



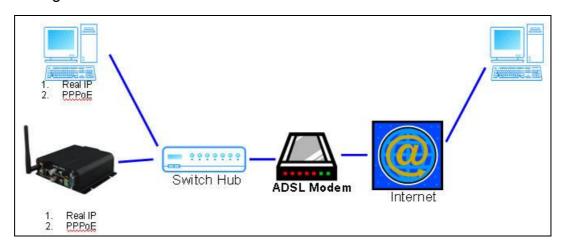
# VI. Network Configuration

### i . Configuration 1:



- A. Internet Access: ADSL or Cable Modem
- B. IP address: One real IP or one dynamic IP
- C. Only Video Server connects to the internet
- D. For fixed real IP, set up the IP into Video Server. For dynamic IP, start PPPoE.

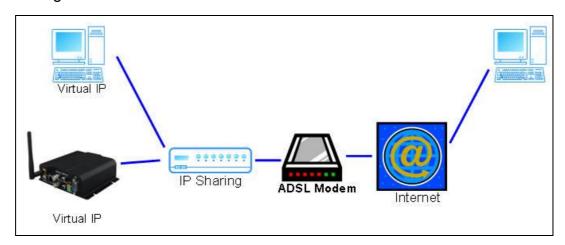
#### ii . Configuration 2:



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



- iii Power on the Video Server. Don't release the button during the system booting.
- iv . It will take around 30 seconds to boot the Video Server.
- v Release the button when Video Server finishes proceed.
- vi Re-login the Video Server using the default IP (http://192.168.1.210), and user name (admin), password (admin).

# VIII. Package contents

- i Video Server
- 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