

Video Web Server



———— **MPEG-4 VIDEO WEB SERVER** ————

User's Manual

Thank-You Note Before You Get Start

First of all, we would like to express our gratitude to you for purchasing this product. This product is designed to meet your personal needs with our great industry-designing ability and our everlasting perseverance to the quality of all our products.

This manual will introduce to you how to install this apparatus. Please keep it well for your future reference.

Now, we would like to invite you to personally experience all of the powerful functions this product offers.

Firmware:

BootLoader: 0.1.0.0



Kernel: 0.1.2.0

HtmlFile: 0.1.1.6

Mpeg4: 0.1.0.4

Application: 0.1.2.0

IMPORTANT SAFEGUARD

	CAUTION RISK OF ELECTRIC SHOCK DO NO OPEN	
<p>CAUTION: To reduce the risk of electric shock, do not expose this apparatus to rain or moisture.</p> <p>Only operate this apparatus from the type of power source indicated on the label. Failure to do so may cause injury or death by electric shock and invalidates the warranty.</p>		

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



CE Mark

This apparatus is manufactured to comply with the radio interference requirements of EN55022, CISPR 22, and AS/NZS CISPR 22.



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PARTS AND FEATURES

1.1 FEATURES

- 1) Support MPEG4 compression format for real-time video stream
- 2) Compression format (MPEG4 / JPEG) is selectable for different network bandwidth and applications
- 3) Support video / audio recording
- 4) Support alarm / motion trigger recording
- 5) Adjustable motion detect sensitivity
- 6) Whenever alarm system triggered, video streaming or pictures will be uploaded over FTP, email as an instant notification.
- 7) Support 3G & GPRS system for remote surveillance with mobile phone
- 8) Support TCP/IP, PPPoE, DDNS and DHCP for network connection
- 9) Support DDNS and function as a router
- 10) Support NTSC system / PAL system / AUTO detect video input signals
- 11) Support video access by APs (software) or HTML pages (IE explorer)
- 12) Full event record list for easy search and quick playback
- 13) Support schedule recording
- 14) Support multiple user access levels with security protection
- 15) Support multiple on-line users (up to 10 users)
- 16) Support watermark function
- 17) Support de-blocking and de-interlace function
- 18) Support watch dog function for automatic network reconnection.
- 19) ANR will reactivate recording function automatically when network is reconnected
- 20) Easy to upgrade firmware

1.2 PACKAGE CONTENTS



NOTE :

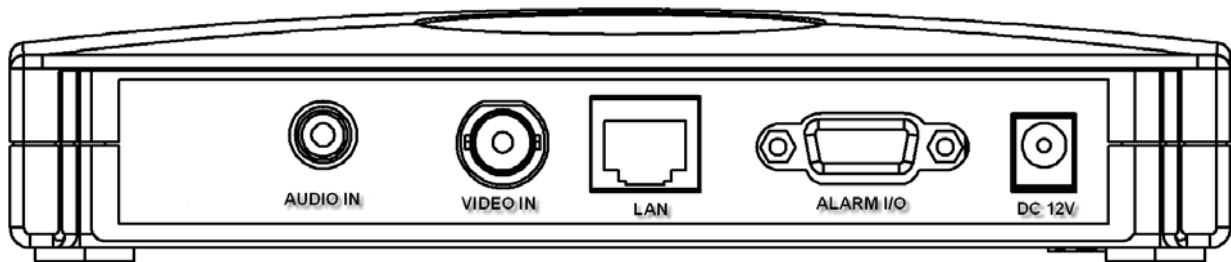
Please check the package contents to make sure that all accessories are included.

1.3 SPECIFICATION

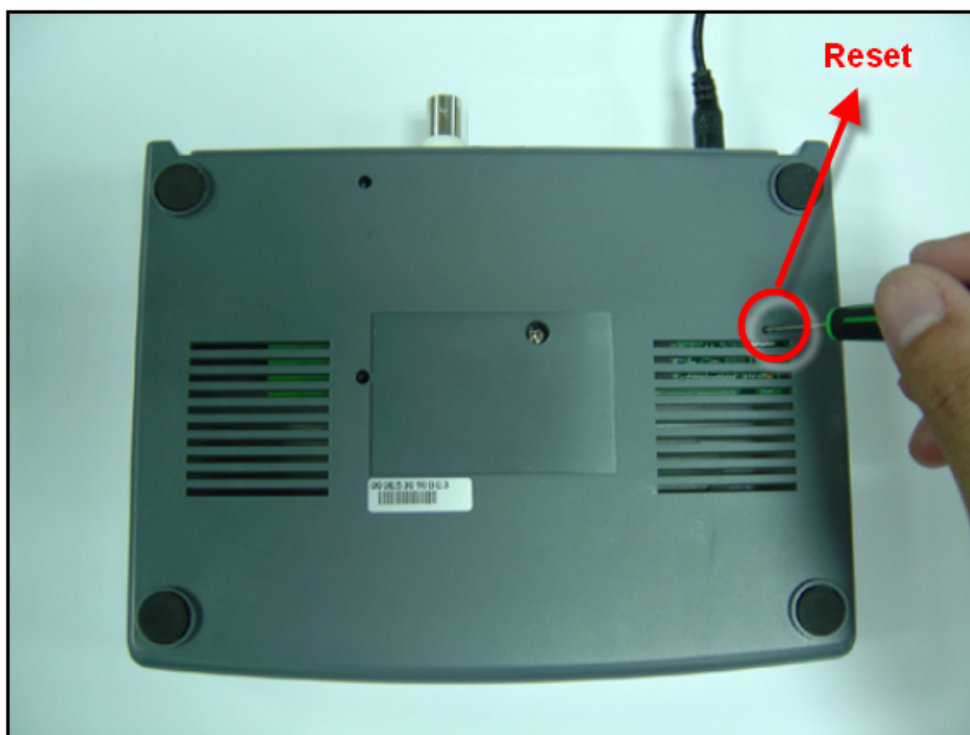
SPECIFICATION	733
Video Input	1 channel for analog & digital products, 1.0 Vp-p 75 composite, BNC
Audio Input	1 channel audio input
Alarm Input	2 inputs / 1 output
Watch dog	Yes
RS-485 Port	Yes
Network Interface	Ethernet (10/100 Base-T)
Image Compression	MPEG4 / JPEG
Video Adjustment	Brightness, Contrast, Saturation and Hue
Network Connection	Support TCP/IP, PPPoE, DDNS and DHCP for network connection
Protocols	TCP/IP, ICMP, SMTP, FTP, HTTP, DHCP, DDNS, PPPoE, SNTP
Resolution	704x480, 352x240 (NTSC) / 704x576, 352x288 (PAL)
Performance	Video through put : Up to 30 (NTSC), 25 (PAL) frames/ second
Motion Trigger Recording	Yes
Motion Detection	3 adjustable factors
Trigger & Action	Triggered by GPIO Input, Action: E-mail video/images or video/images upload to FTP site's specific accounts
Watermark	Yes
De-blocking	Yes
De-interlace	Yes
Security	Password protection
Power Source	DC 12V
Current consumption	500 mA

Design and specification are subject to change without notice.

1.4 PANEL



- 1) LAN:
Connect Video Web Server to the Internet or LAN with cable or connect directly to PC with standard pass through cable.
- 2) VIDEO INPUT (1 channel):
Connect to video source, such as camera or DVR video output.
- 3) AUDIO INPUT (1 channel):
Connect to audio source, such as camera audio output.
- 4) ALARM I/O (optional for advanced applications):
Connect control devices, such as PTZ, DVR and external alarm signal input.
- 5) POWER:
Plug in the supplied power adaptor (12V / 500mA).
- 6) RESET (at the bottom of Video Web Server):
Press this button to default setting.

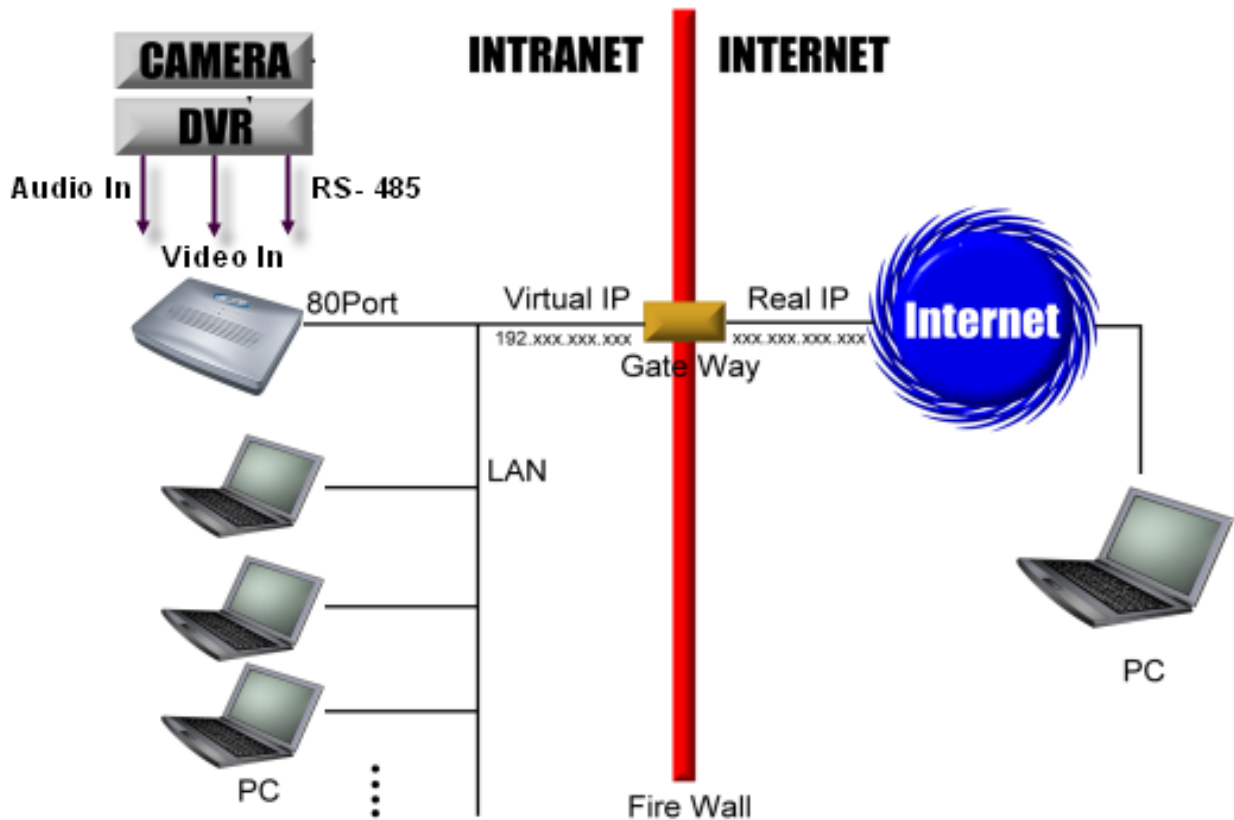


INSTALLATION AND CONNECTION

2.1 PHYSICAL CONNECTION

□ Connection Structure:

- 1) Connect video and audio outputs of camera or DVR with the video and audio inputs of Video Web Server.
- 2) Connect PC with Video Web Server for IP setting.
- 3) Connect Video Web Server with ADSL or CABLE MODEM.
- 4) Connect PC with Internet and remote control Video Web Server.



❑ Connection Application:

▼ **Directly Connect with PC.**




▼ **Remote Control Via Internet**




▼ **Apply DVR / Multiplexer / Quad with Video Server in IP Surveillance**



2.2 SOFTWARE INSTALLATION

- 1) Put the attached CD into a CD-ROM and it will start to install application program into PC.
- 2) Click “” twice.
- 3) Click “Finish” button to complete the setup.

And users will see the icon “” on the desktop.

Note:

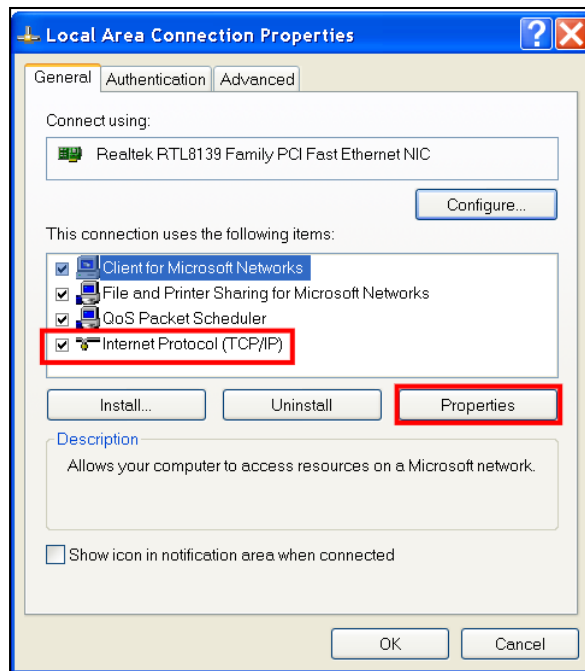
After physical connection, please go to the next two sections for IP address settings.

3.1 PC IP SETTING

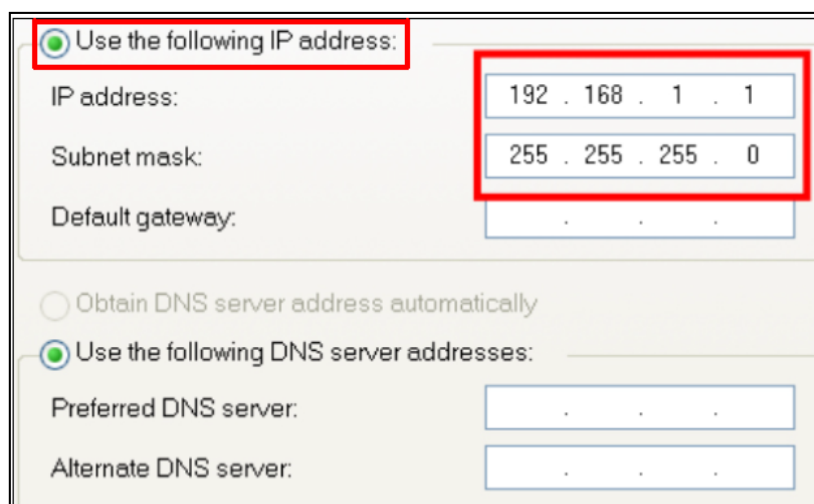
Network setting for PC. (This following instruction is based on Win XP O/S. If the O/S is Win 2000, the setup procedure is similar to that on Win XP O/S.)

Steps:

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



- ❑ Before changing this properties setting, please write down the original network setting in order to recover the original setting after “Section 3.2 VIDEO WEB SERVER SETTING”.
- ❑ Click on “Use the following IP address”, set IP address and subnet mask. The IP address should be like 192.168.1.XXX. The setting of “XXX” could be set from 1 to 254 except 10 (Because 192.168.1.10 is the video web server default IP); the subnet mask is always 255.255.255.0.

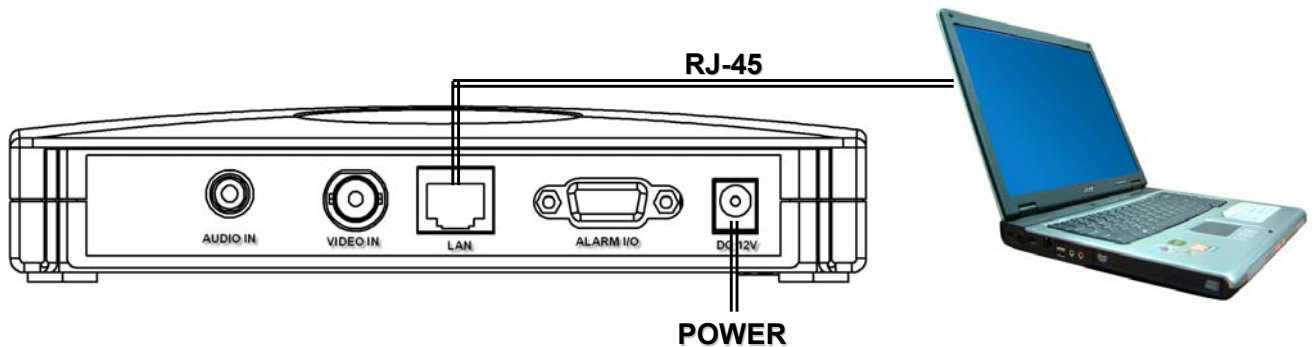


3.2 VIDEO WEB SERVER SETTING

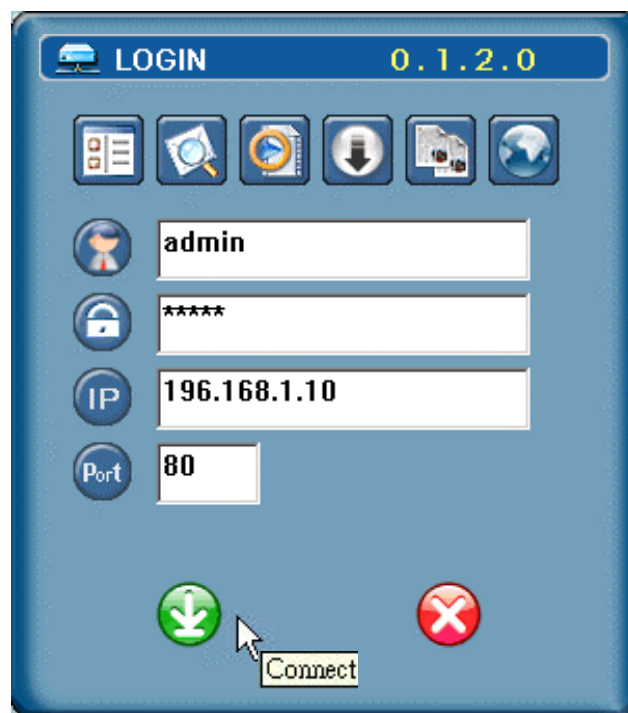
- 1) After PC IP SETTING, connect PC or Notebook with Video Web Server by crossover LAN cable.

Note:

In some operation environments, users might need the standard CAT5 cable.



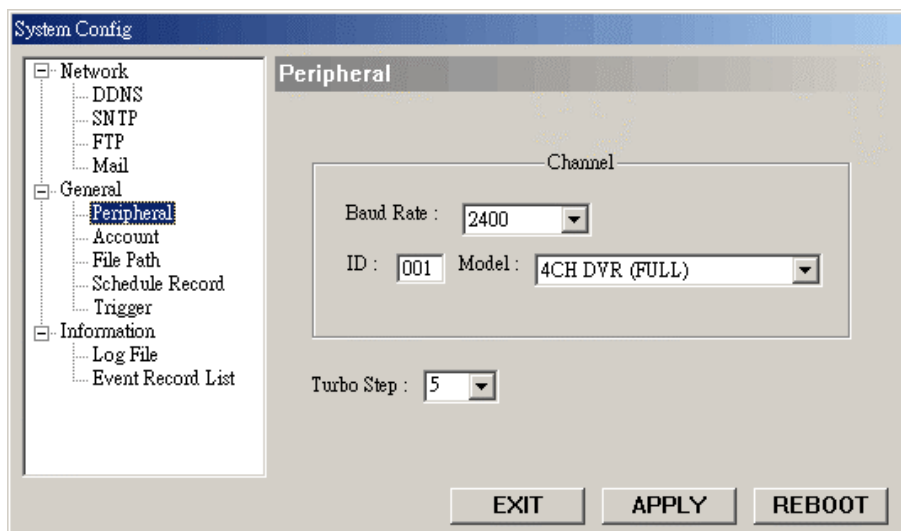
- 2) To configure the Server IP, please click  twice to enter the setup.
- 3) Key in User Name, Password, and Server IP (The default setting of User Name and Password are admin; Server IP 192.168.1.10, Port : 80). Then click the green button to connect.



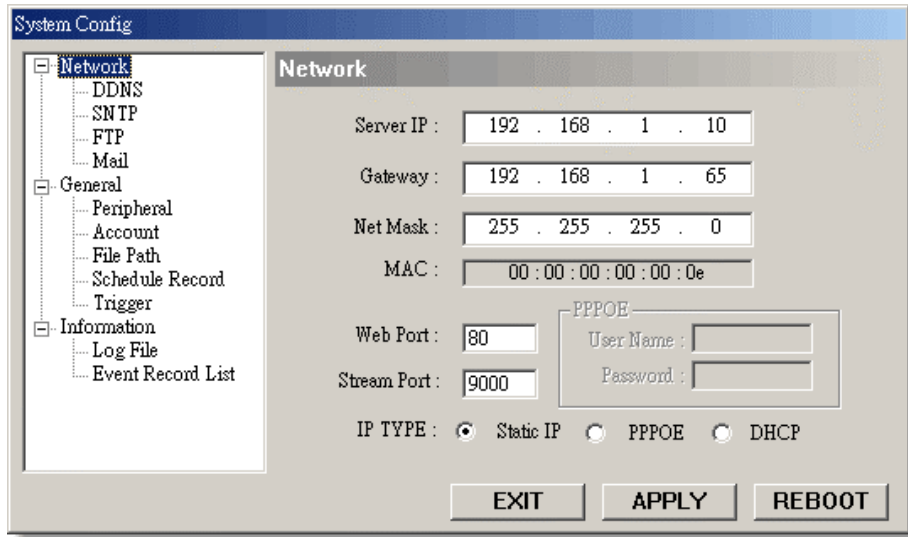
- 4) When users see the following screen, means successfully logged in the program of the Video Web Server. Click “System Config” to set up.



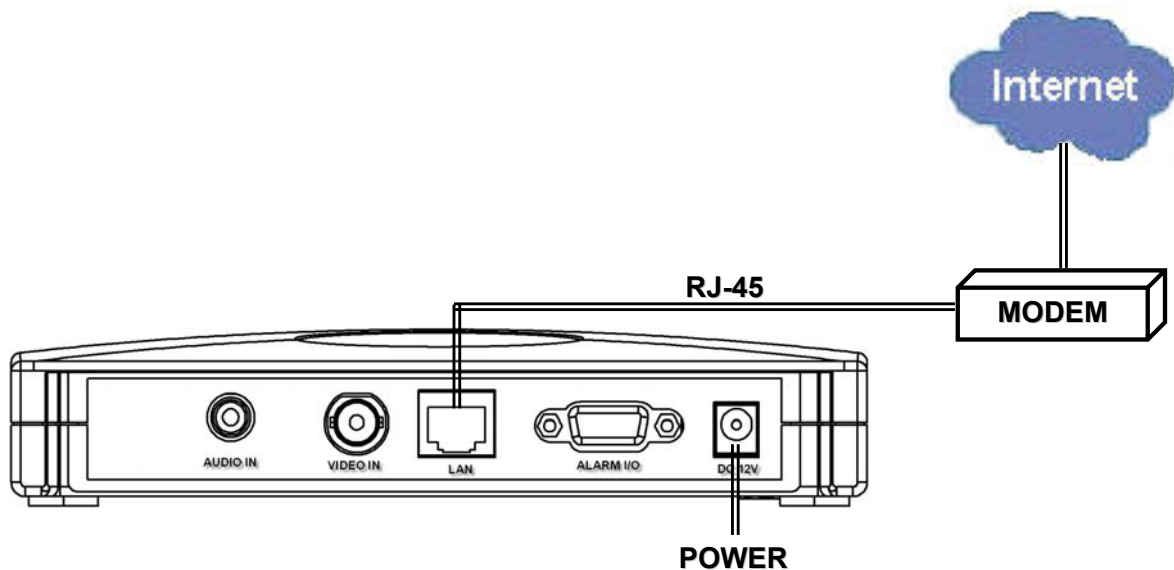
- 5) In the Peripheral setting, set baud rate, ID and model which users want to remote control later.
Press “APPLY” to enable the change after the setting.
- ❑ The setting of “Baud rate” , “ID” should be the same as the setting of the external device users want to remote control.



- 6) Click on the Network setting, set server IP, gateway, and net mask which are provided from local ISP (internet service provider). Press “APPLY” to enable the change after the setting



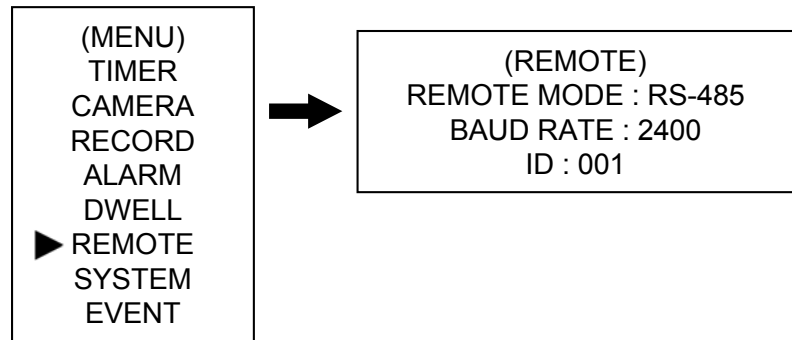
- 7) Disconnect PC and Video Web Server, and then connect Video Web Server to the Internet with RJ-45.



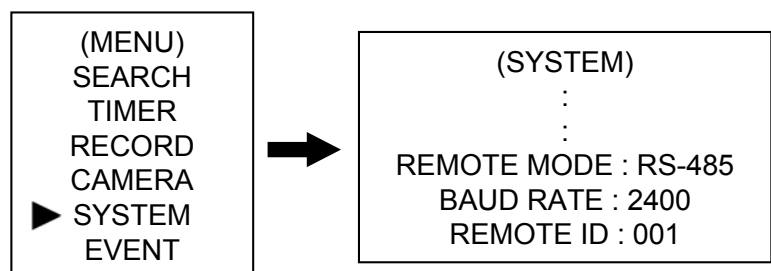
3.3 DVR REMOTE SETTING

- ❑ Connect the DVR and monitor.
- ❑ In the “Remote” setting, set the baud rate and ID that are the same as “Peripheral” setting in the Video Web Server. And set remote mode to RS-485 (see example below).

1 / 4 CH DVR



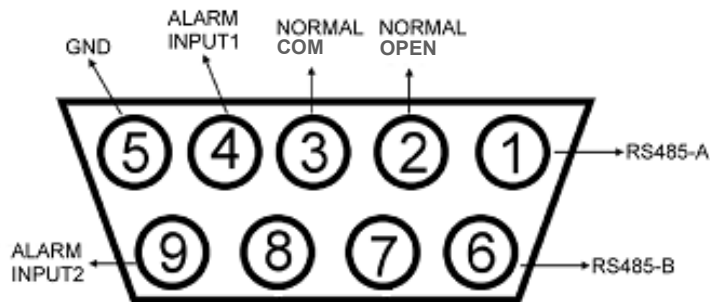
4 / 9 / 16 CH DMR



3.4 CONNECT DVR TO VIDEO WEB SERVER

- 1) After the DVR remote setting, users have to connect video web server and DVR with the pins. The communication between web server and DVR is by RS-485

Video Web Server



- 2) **PIN 1, 6:** RS485-A, RS485-B
Use RS485-A & RS485-B serial communication signals to control digital units just like that to control DVR.

PIN 4, 9: ALARM INPUT

Use PIN 4,,9 to receive the alarm input and then trigger Video Server to send mail to users for auto e-mail warning system.

PIN 5: GND

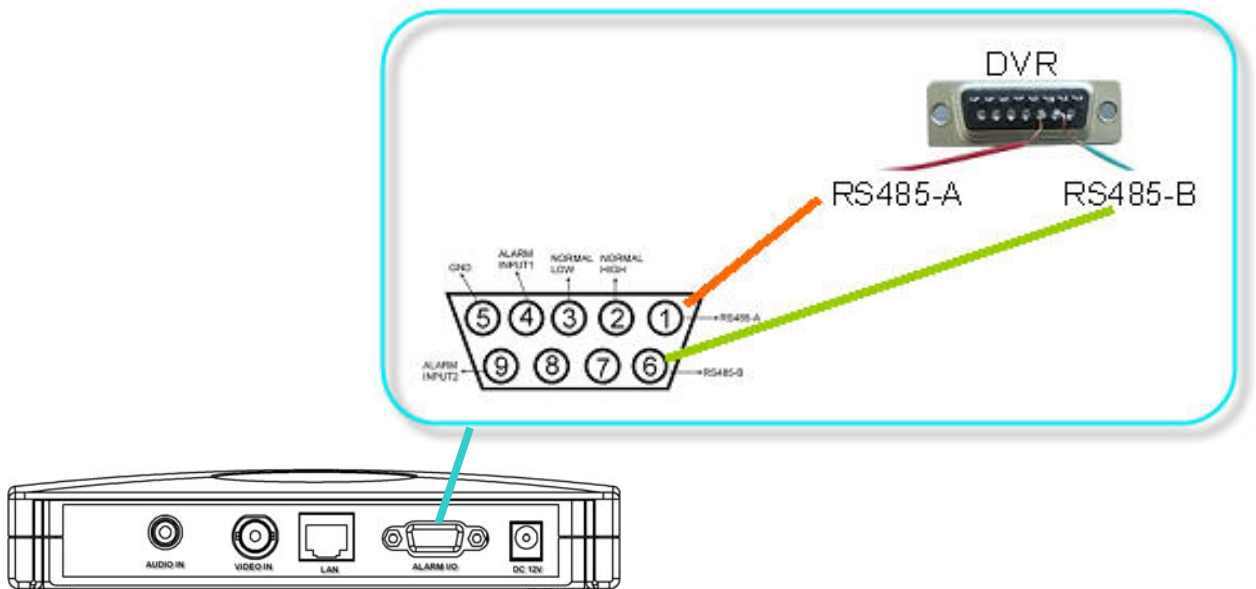
Ground

PIN 2, 3: NORMAL OPEN, NORMAL COM

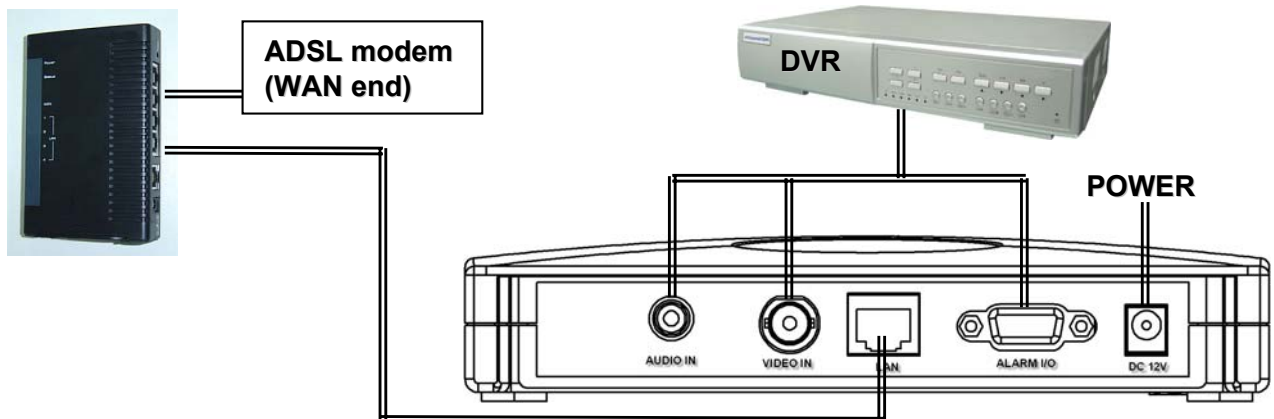
Use PIN 2 or 3 to trigger external device to act.

Please see the example picture below for 1CH/4CH DVR.


It's recommended to solder these joints



3.5 CONNECT ALL DEVICE



3.6 CONNECT TO PC VIA INTERNET

- 1) Change PC network setting to the original setting and link PC to the internet. (Since in "Section 3.1 PC IP SETTING", the PC IP setting has been changed, now it must recover to the original setting for connecting to internet).
- 2) Click  twice and enter "User Name", "Password", "Static IP", and "Port" which users set in "Section 3.2 VIDEO WEB SERVER SETTING". Then click the green button to connect.
(Note : The default username and password are both "admin")

The screenshot shows the LOGIN interface of the MPEG4 Video Web Server. The interface is blue and features a title bar with 'LOGIN' and '0.1.2.0'. Below the title bar are several icons representing different functions. The main area contains four input fields: 'User Name' (containing 'admin'), 'Password' (containing '*****'), 'IP' (containing '61.66.138.53'), and 'Port' (containing '80'). At the bottom, there are two buttons: a green button with a download icon and a red button with a close icon. Arrows point from the 'User Name' and 'Password' fields to a label 'USER NAME AND PASSWORD OF VIDEO WEB SERVER', and from the 'IP' field to a label 'Static IP address'.

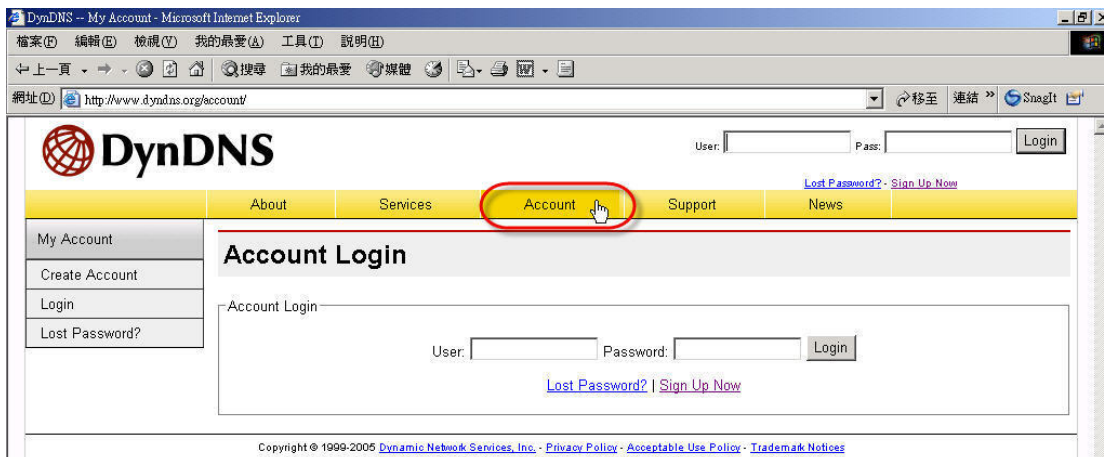
❑ Please refer to "OPERATION GUIDE" for remote operation guide.

4.1 DDNS APPLY

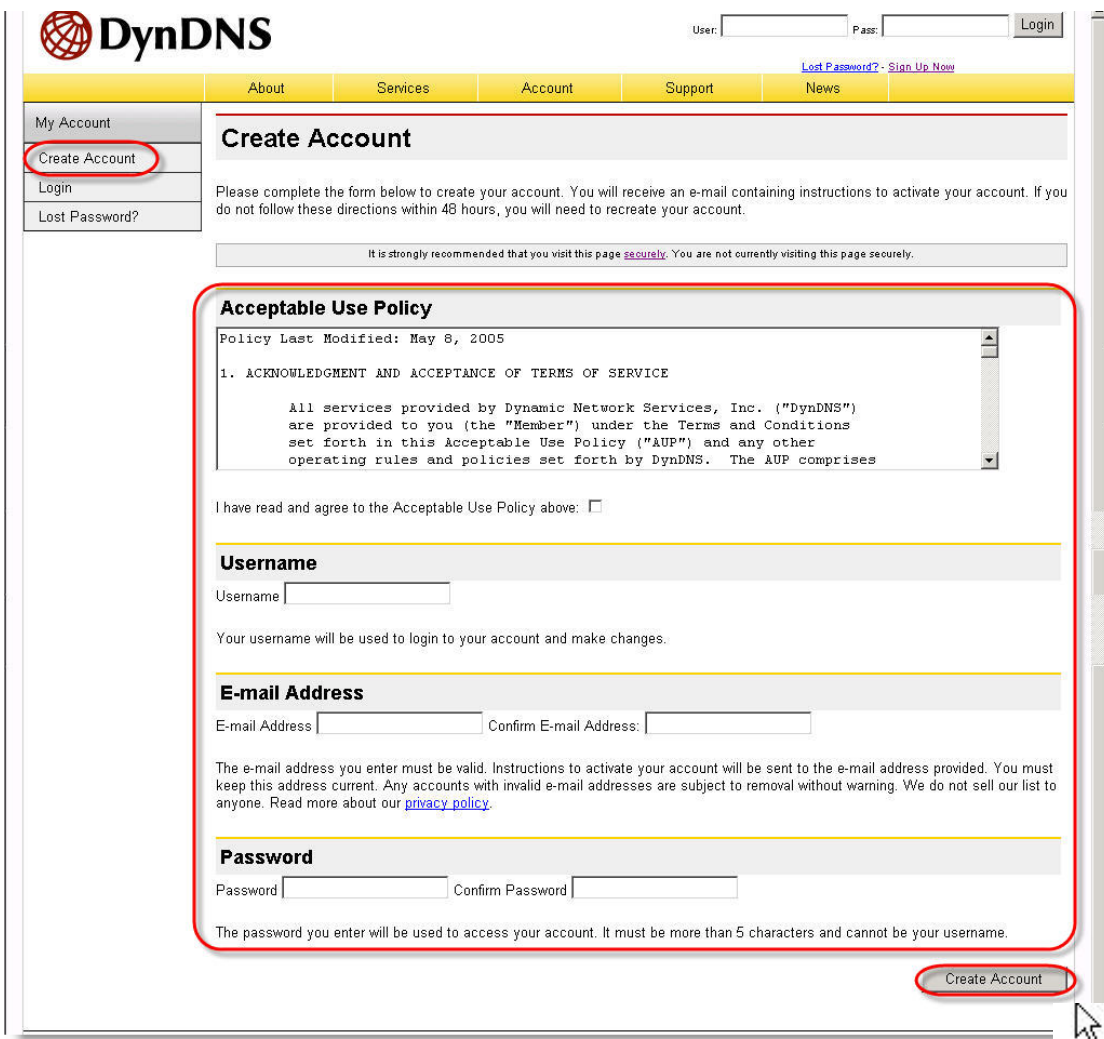
Go to a website which provide free DDNS services.

For example, “<http://www.dyndns.org>”. Create an account in DynDNS.

- 1) Click on “Account”, then users could see the following page.

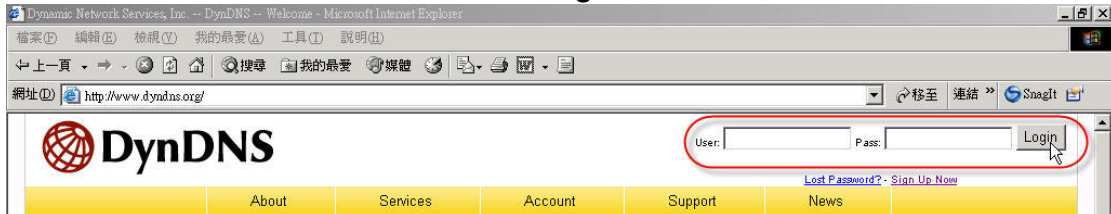


- 2) Click on “Create Account”, then users could see the following page. Register the information and then click on “Create Account”.



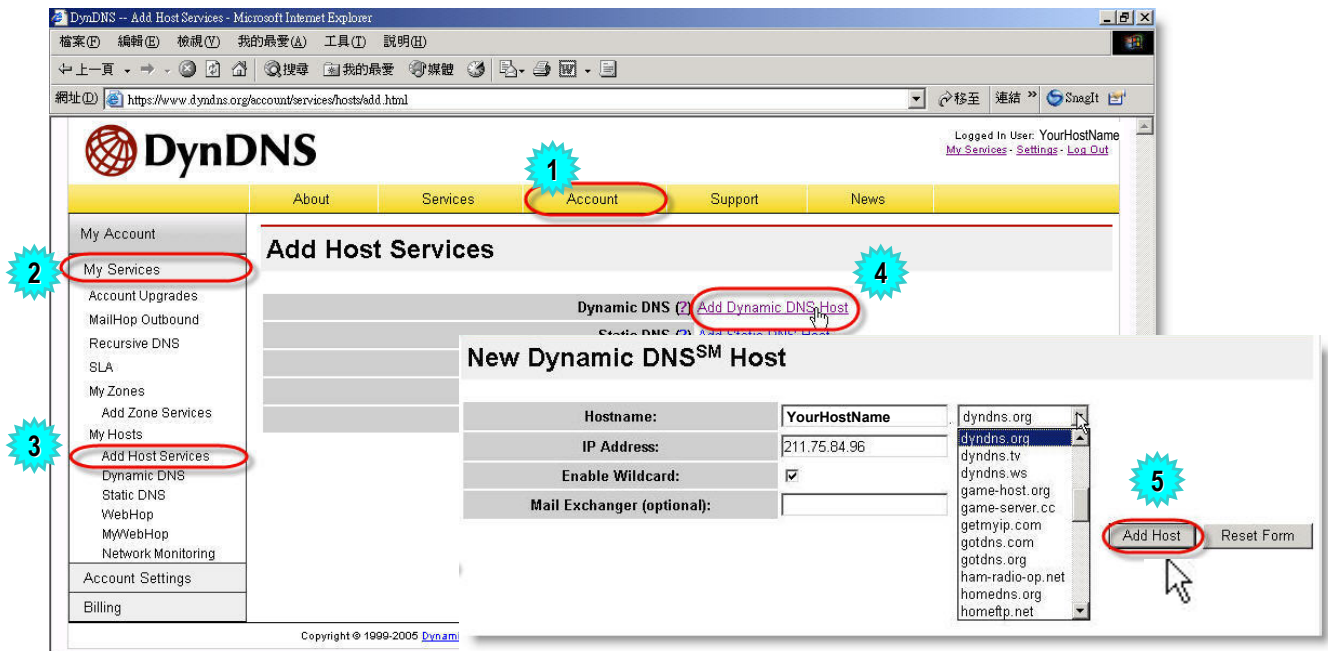
3) After created account, users will receive an confirmation e-mail within a few minutes. To complete registration, please follow the directions that users will receive. Users must complete these steps within 48 hours to complete the registration. If users do not the confirmation e-mail within an hour or so, request a “password reset” (<http://www.dyndns.org/account/resetpass/>)

4) Enter Username and Password to login.

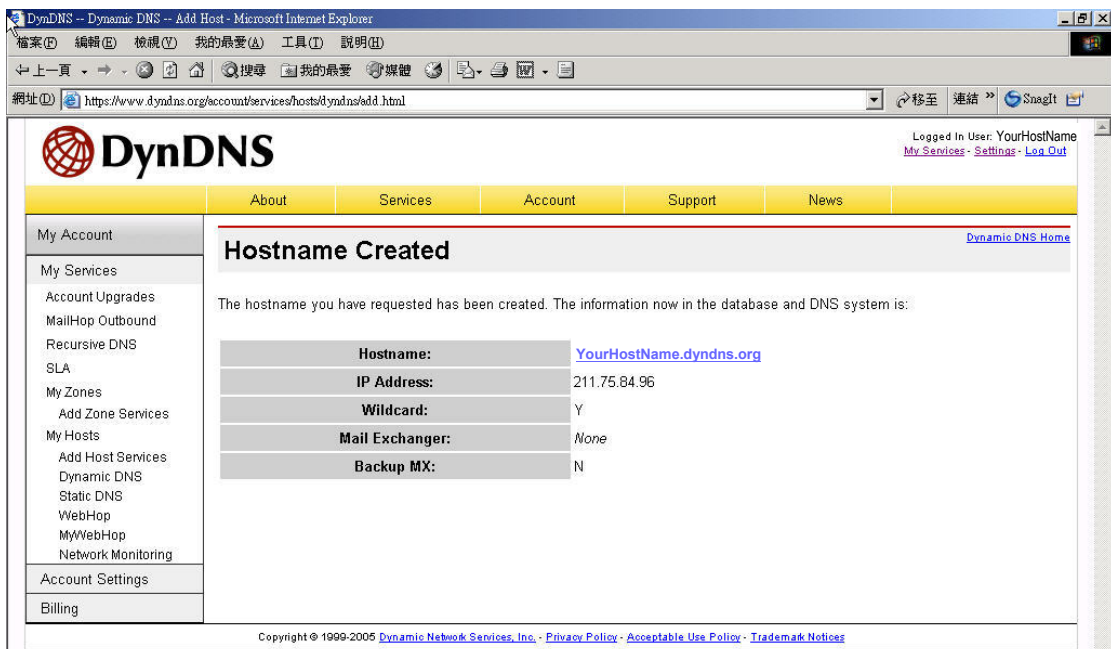


5) Create Host Name.

Login → “Account” → “My Service” → “Add Host Services” → “Add Dynamic DNS Host” → Enter and choose the hostname → Click on “Add Host”.



6) DDNS Host Name Created.

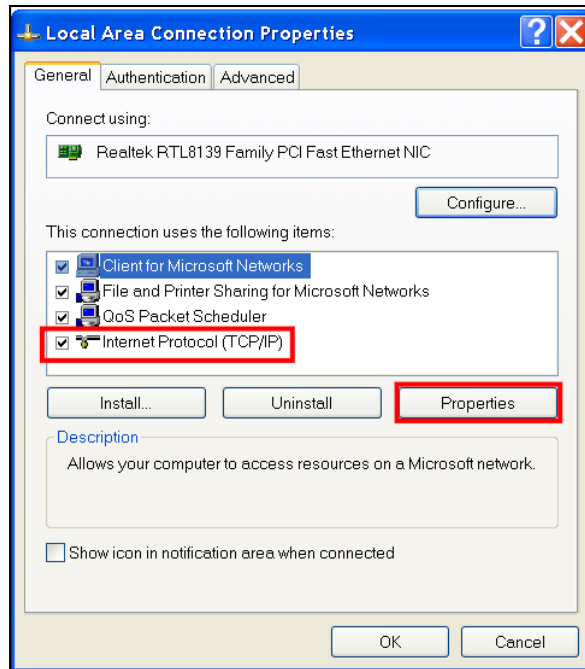


4.2 PC IP SETTING

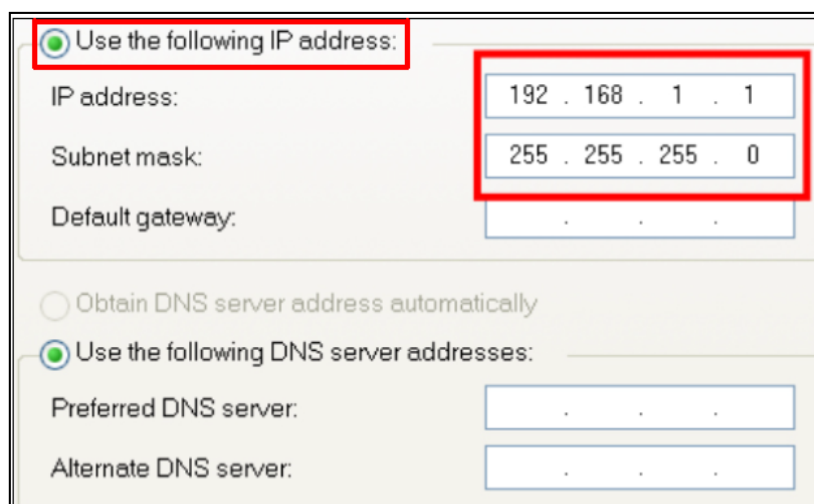
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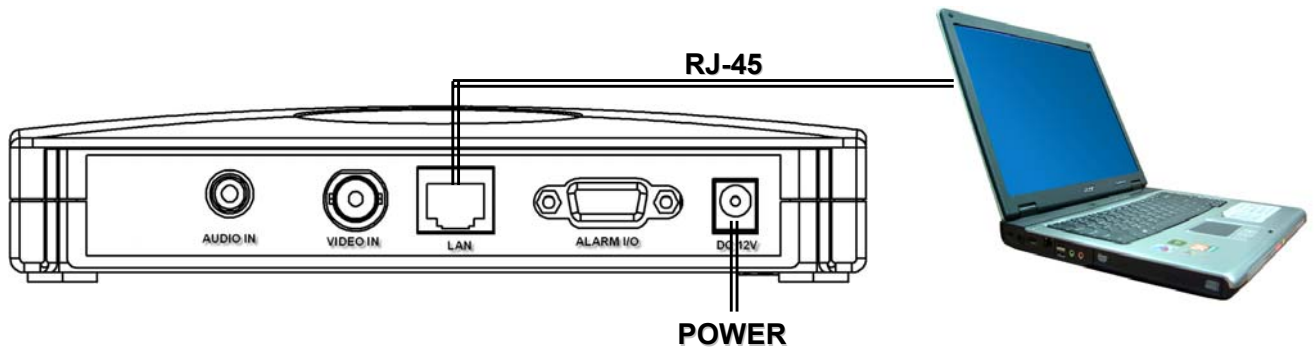


4.3 VIDEO WEB SERVER SETTING

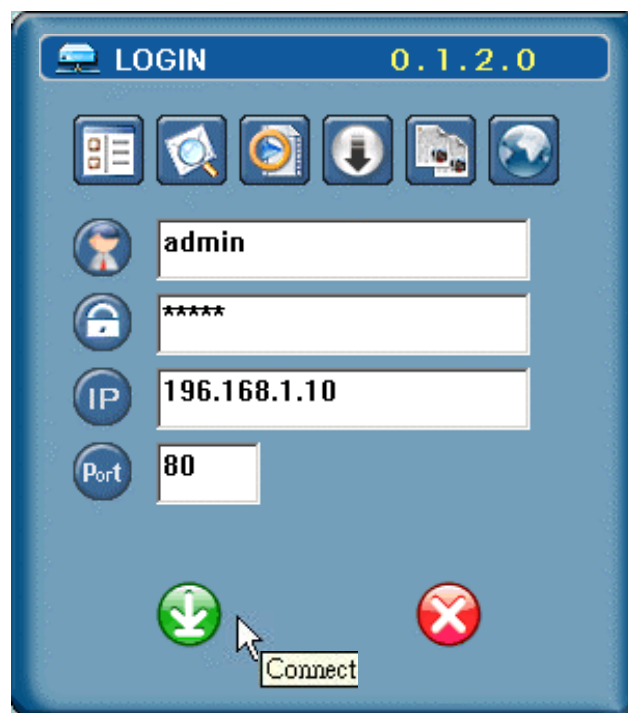
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Note:

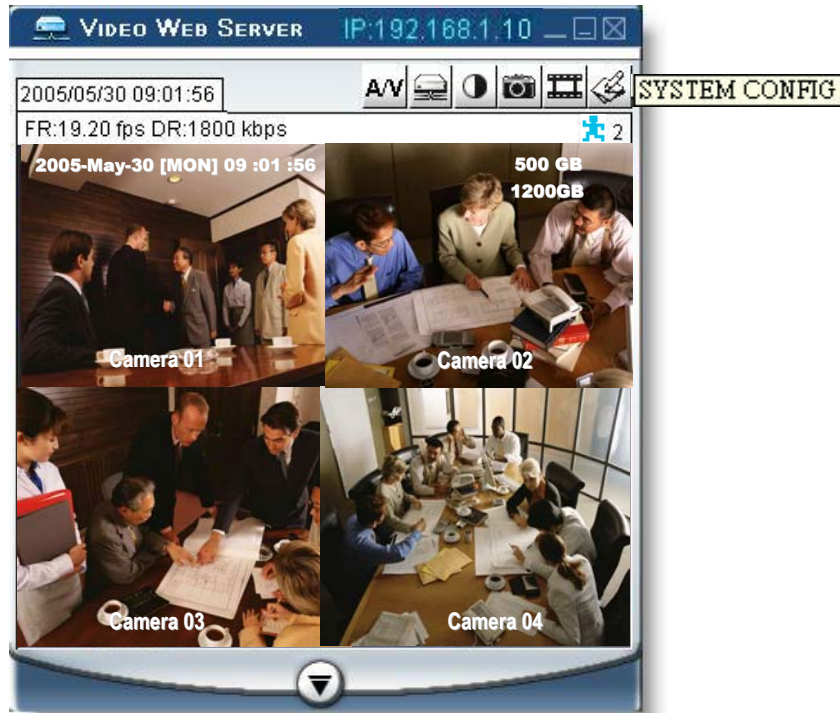
In some operation environments, users might need the standard CAT5 cable.



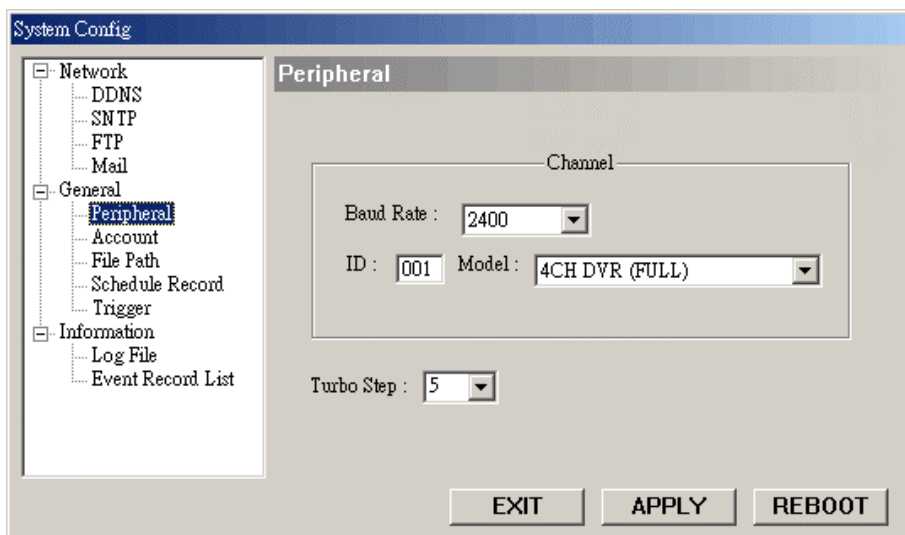
- 2) To configure the Server IP, please click  twice to enter the setup.
- 3) Key in User Name, Password, and Server IP (The default setting of User Name and Password are admin; Server IP 192.168.1.10, Port : 80). Then click the green button to connect.



- 4) When users see the following screen, means successfully logged in the program of the Video Web Server. Click “System Config” to set up.

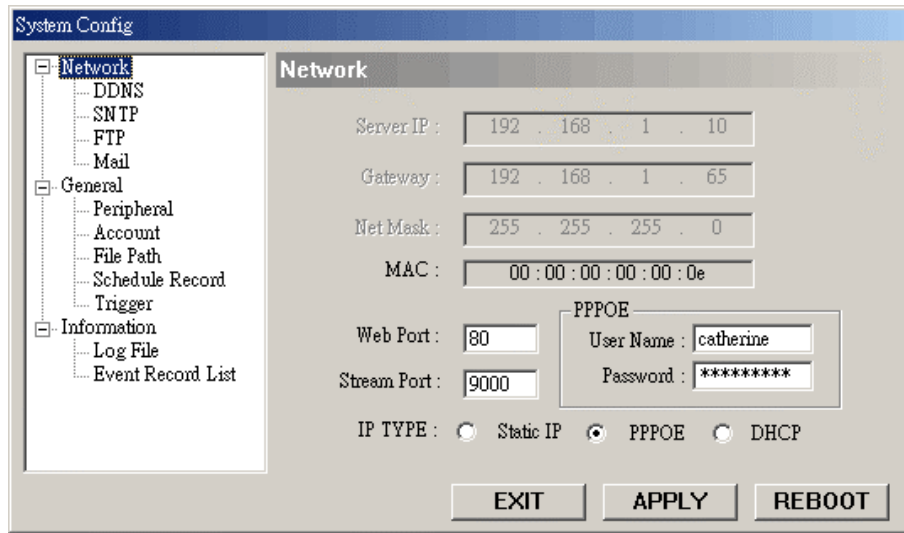


- 5) In the Peripheral setting, set baud rate, ID and model which users want to remote control later.
Press “APPLY” to enable the change after the setting.
- The setting of “Baud rate” , “ID” should be the same as the setting of the external device users want to remote control.



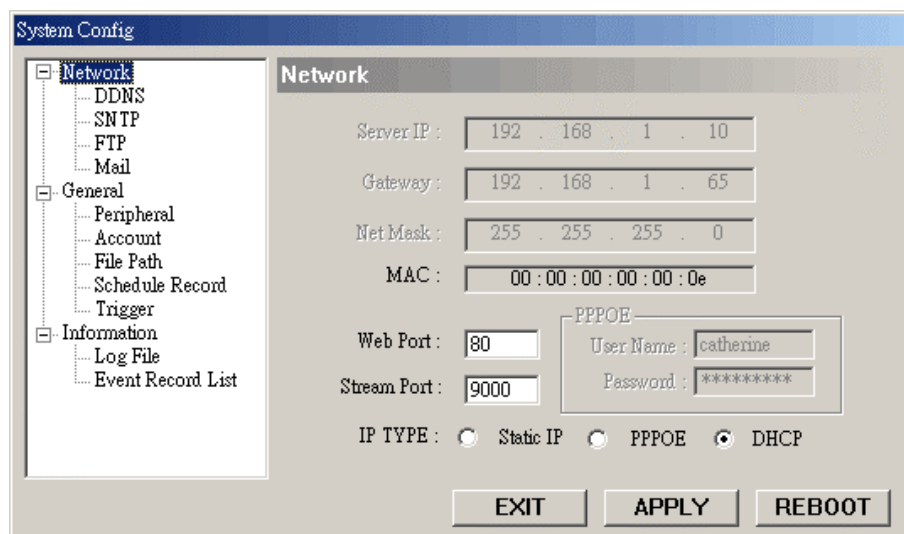
6) **PPPoE:**

Click on Network setting, choose “PPPoE” and key in Username/Password of PPPoE for connecting to internet. Press “APPLY” to enable the change after the setting.



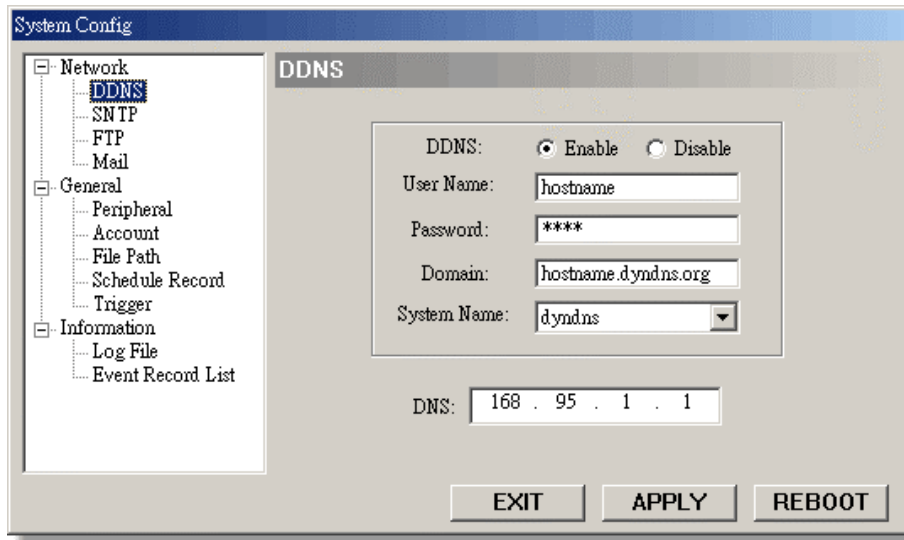
DHCP:

Click on Network setting, choose “DHCP”. Press “APPLY” to enable the change after the setting.

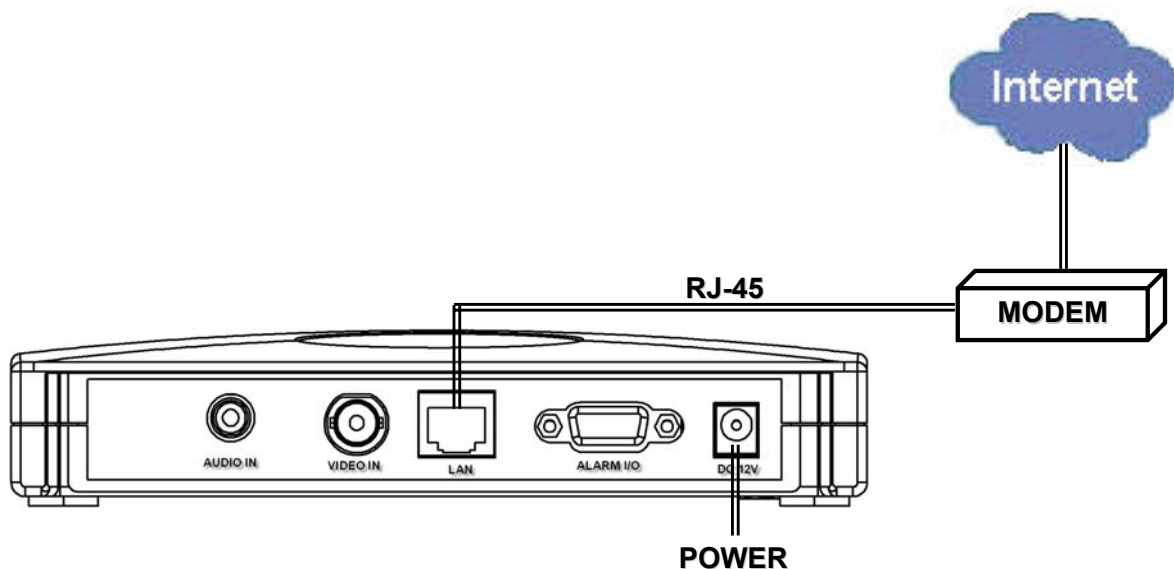


- 7) Click DDNS, and enable DDNS and key in information below (Type “DDNS User Name” and “DDNS Password”. And type the “DDNS Hostname” into “Domain”), then Press “APPLY” to confirm.

Note: Please refer to “DDNS APPLY”.



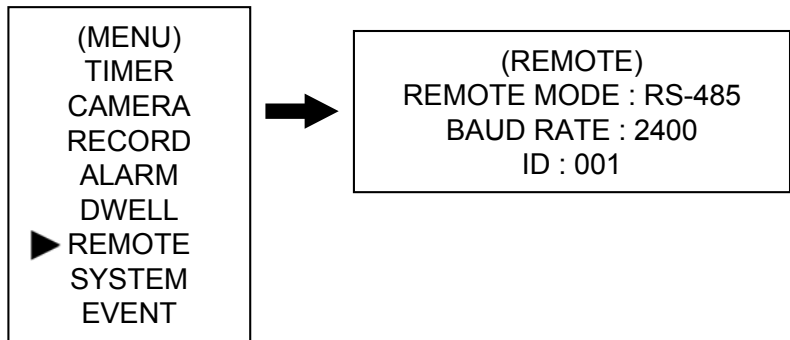
- 8) Disconnect PC and Video Web Server, and then connect Video Web Server to the Internet with RJ-45.



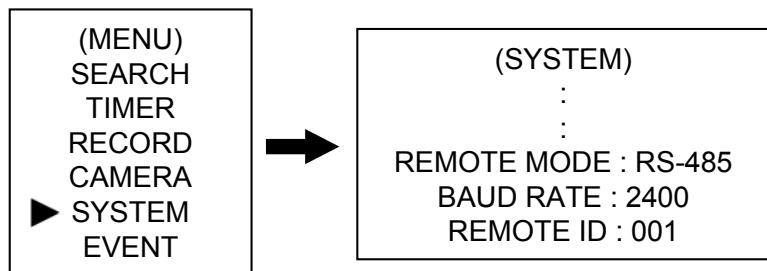
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1 / 4 CH DVR



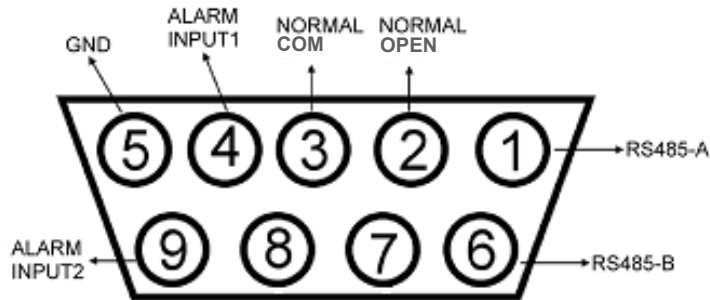
4 / 9 / 16 CH DMR



4.5 CONNECT DVR TO VIDEO WEB SERVER

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Video Web Server



- 2) **PIN 1, 6:** RS485-A, RS485-B
Use RS485-A & RS485-B serial communication signals to control digital units just like that to control DVR.

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Use PIN 4,,9 to receive the alarm input and then trigger Video Server to send mail to users for auto e-mail warning system.

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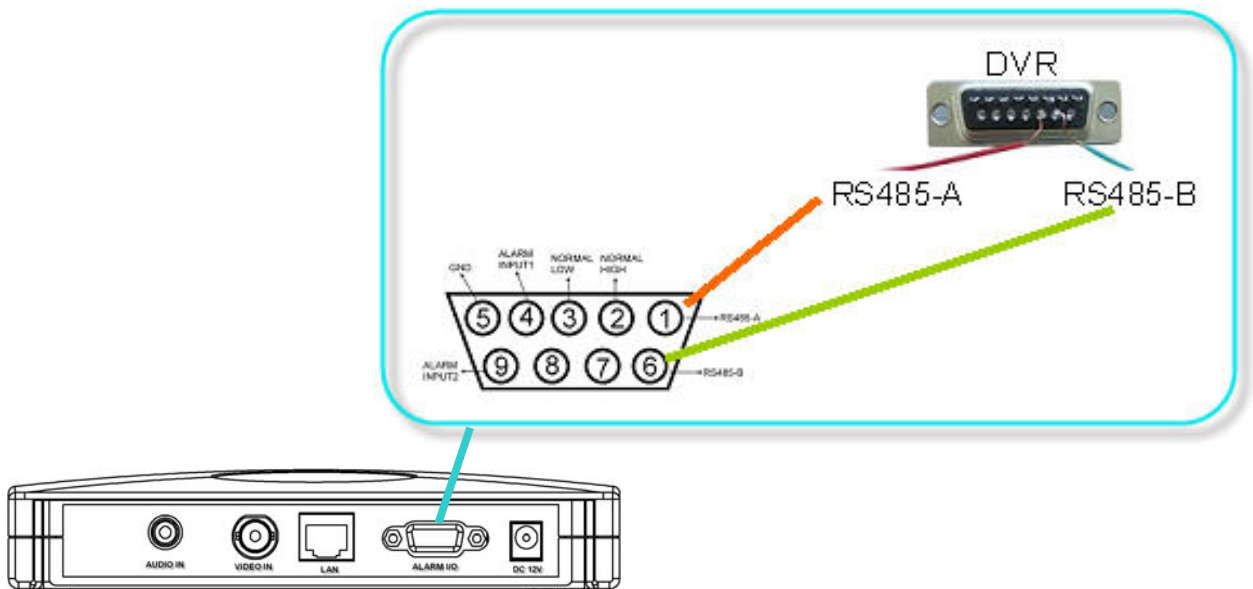
Ground

PIN 2, 3: NORMAL HIGH, NORMAL LOW

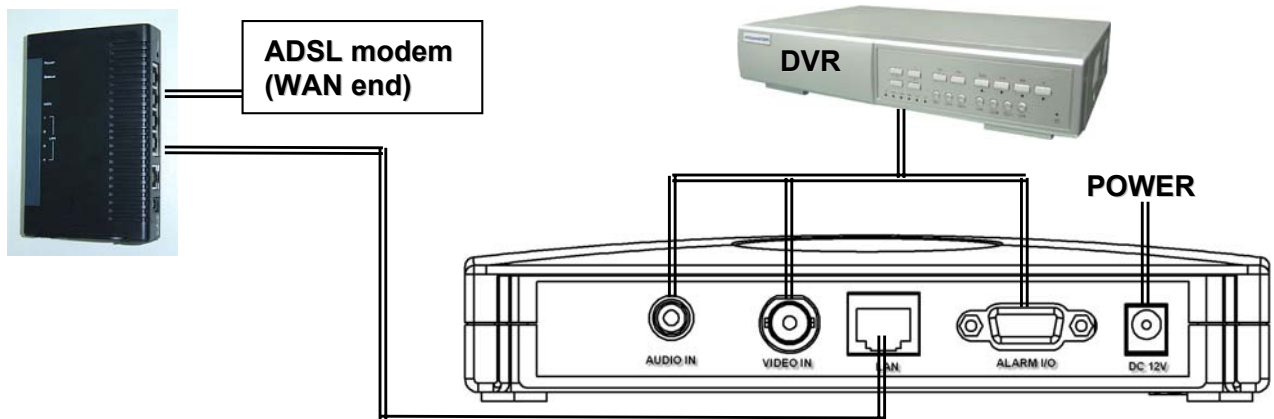
Use PIN 2 or 3 to trigger external device to act.

Please see the example picture below for 1CH/4CH DVR.


It's recommended to solder these joints

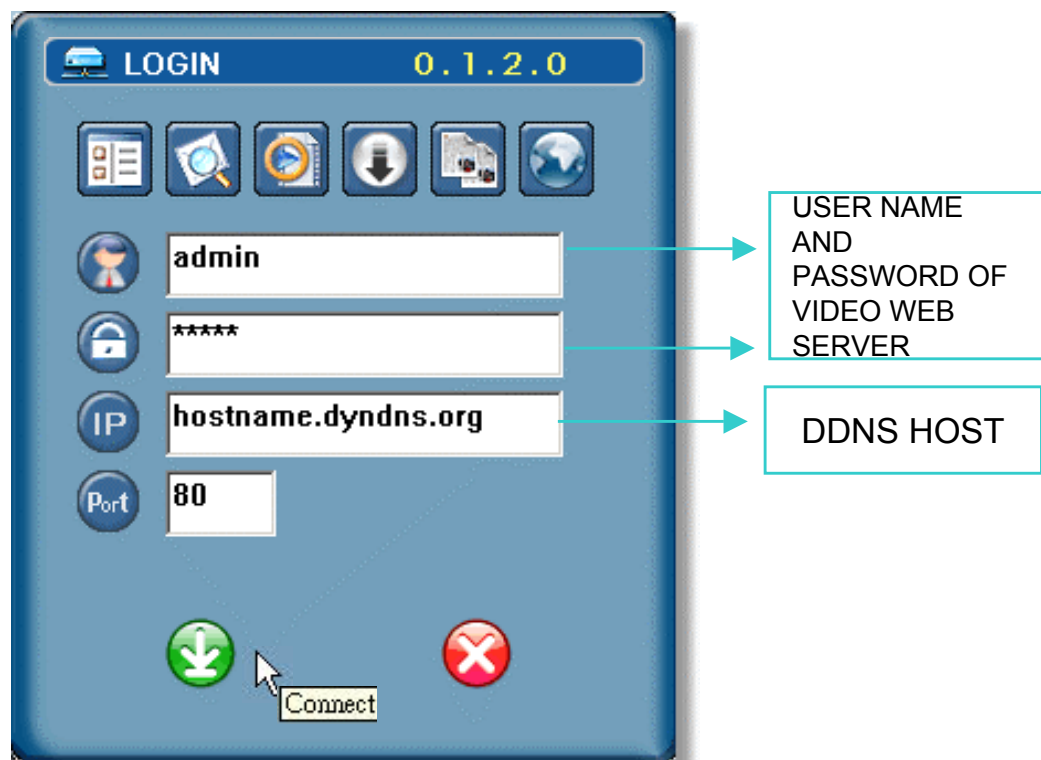


4.6 CONNECT ALL DEVICES



4.7 CONNECT PC VIA INTERNET


- 1) Change PC network setting to the original setting and link PC to the internet. (Since in "Section 4.2 PC IP SETTING", the PC IP setting has been changed, now it must recover to the original setting for internet connection).
- 2) Click  twice and enter "Username", "Password" and "Port" which users set in "Section 4.3 VIDEO WEB SERVER SETTING", and enter "DDNS Host Name" which users have applied in "Section 4.1 DDNS APPLY" in the IP Address. Then click the green button to connect.
(Note : The default username and password are both "admin").



❑ Please refer to "OPERATION GUIDE" for remote operation guide.

5.1 SOFTWARE OPERATION

After physical connection and network setting of the video web server. Please following the illustrations in this section for software operation.

- 1) Click  twice to enter Login page.
- 2) Key in "User Name", " Password", and "Server IP" (Static IP) or "Host name"(Dynamic IP). Click the green button to connect.



NOTE:

TCP: Suitable for stable network with higher bandwidth.

UDP: Suitable for unstable network with lower bandwidth.

- 3) LOGIN AP Icon Explanation:



Address Book: Users could press this button to add frequently-used IP address or choose any preset IP address to access the Video Server.



Upgrade Firmware: Users could press this button to get the provided firmware and then press the "Upgrade" button.



Search: Search available IP address of the external device in local area. And modify the network settings of the external device.



Copy: Users could press this button to copy all the software installation files, so users could keep all the settings of video web server for next software installation on other PC.



Player: Users could press this button to access and play the recorded files saved in the PC.

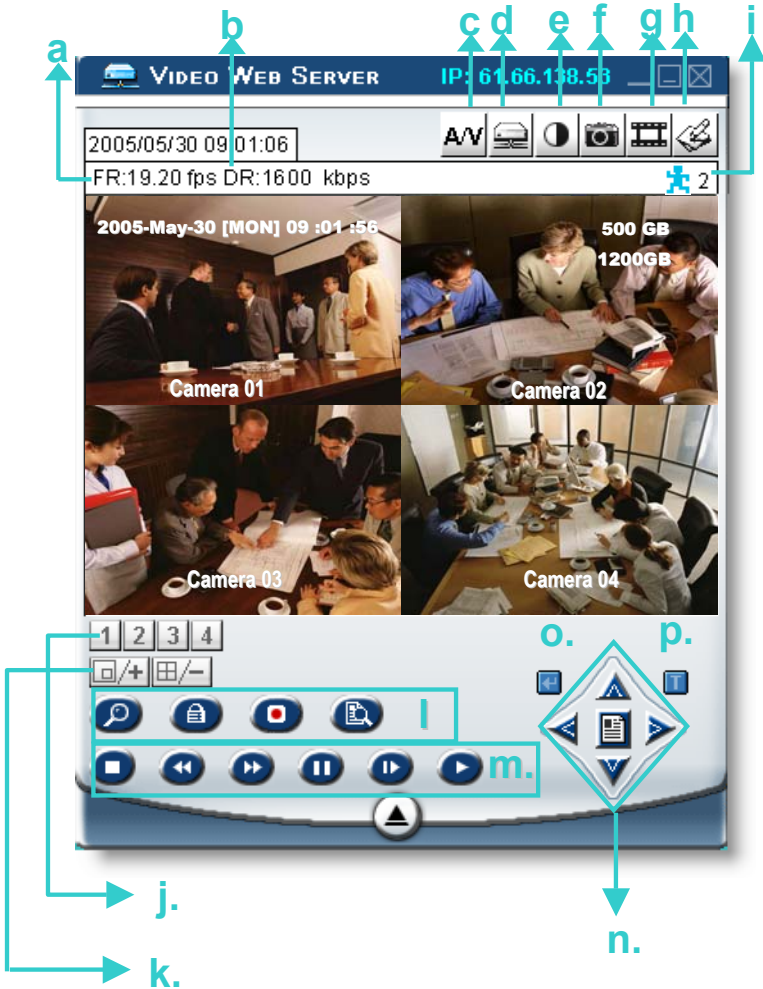


Login Setting: Users could press this button to set the transmission type (UDP or TCP) and decode type (MPEG4 or JPEG).

4) Introduction of Basic Operation:

Video Web Server Control Panel

- a. Image transfer rate per second
- b. Data transfer rate
- c. Video only / Audio only / Both Video and Audio
- d. Connect / Disconnect
- e. Image adjusting : Brightness / Contrast / Saturation / Hue
- f. Snapshot : press this button to have a snapshot of the image which will be saved in the designated destination.
- g. Record : press this button, the video web server will start to record, and recording files will be saved to PC. Each recording file can up to 18,000 frames, when the recording file capacity is full, the new recorded file will be saved to the second file. Besides, if the HDD space is less than 200MB, the program will stop recording.
- h. System config: press this button to enter the setting page of the video web server.
- i. Number of online users



Digital Device Control Panel ~ DVR

(For example, 4 channel DVR)

- j. CH1-4
- k. PIP/+, QUAD/-
- l. Zoom, Lock, Record (in DVR HD), Search
- m. Stop, Rewind, Fast Forward , Pause, Slow, Play
- n. Menu / up / down / left / right
- o. Enter
- p. TURBO:
To speed up menu selecting or the control of the PTZ camera under video web server, users could activate "Turbo" function by clicking this button. Users are allowed to change the turbo steps from 1 to 10.
Ex. If users activate the TURBO function, and set "3" for turbo step, then when users press one of the button up/down/left/right, one mouse click will as if click 3 times.

Digital Device Control Panel ~ PTZ

(For example, PTZ)

j. Preset 1 ~ 16

k. AUTO

l.  Zoom Tele

m.  Zoom Wide

n.  Focus Near

o.  Focus Far

p.  Max Zoom In

q.  Max Zoom Out

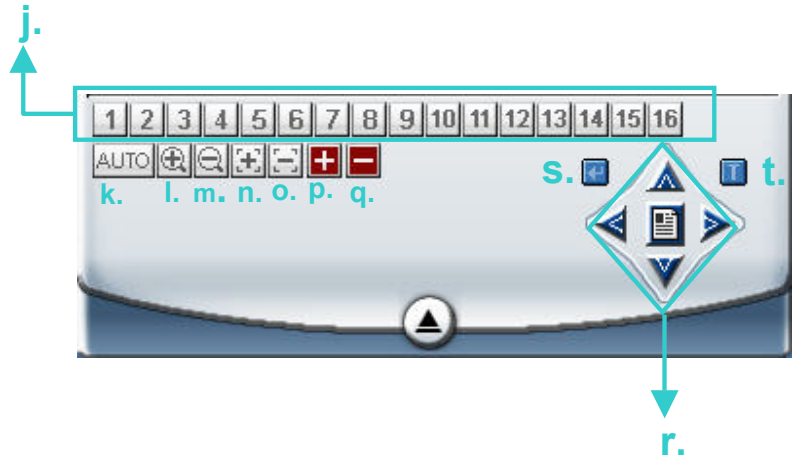
r. Menu / up / down / left / right

s. Enter

t. TURBO:

To speed up menu selecting or the control of the PTZ camera under video web server, users could activate "Turbo" function by clicking this button. Users are allowed to change the turbo steps from 1 to 10. .

Ex. If users activate the TURBO function, then when users press one of the button up/down/left/right, one mouse click will function as if click 3 times.



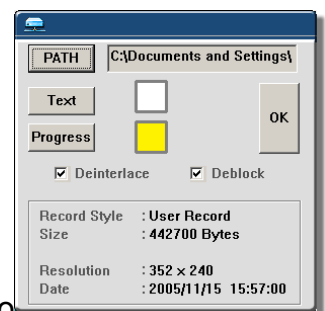
- ❑ **Hot Point** : Users could control our own brand PTZ camera screen to a specific point by using cursor.

5.2 PLAYBACK OPERATION

Please find a recording file in the PC and double click on it to playback.



- a. Snapshot
- b. Stop
- c. Pause
- d. Fast Rewind (1X, 2X, 4X, 8X, 16X)
- e. Slow Rewind (1X, 1/2X, 1/4X, 1/8X, 1/16X)
- f. PLAY (1X)
- g. Slow Playback (1X, 1/2X, 1/4X, 1/8X, 1/16X)
- h. Fast Forward (1X, 2X, 4X, 8X, 16X)
- i. OSD (show / hide)
- j. Config. Setting (File path for snapshot, text color, progress color, interlace, De-block, Record Style, Size, Resolution, Date)
- k. Open Previous File
- l. Open Next File
- m. Watermark:




Press " **W** " button to proof the authenticity of the backup video. If the recorded video had been altered, the video image will turn to **light red** and the playback will be paused.

Note:

When users pause the playback picture, users could press "d" button to go to the previous image, or press "h" button to go to the next image.

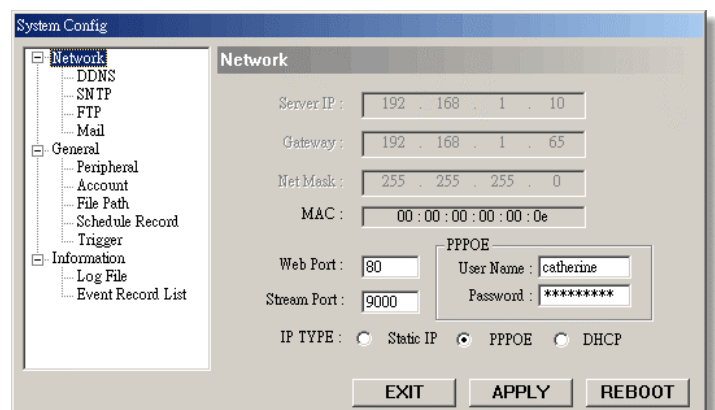
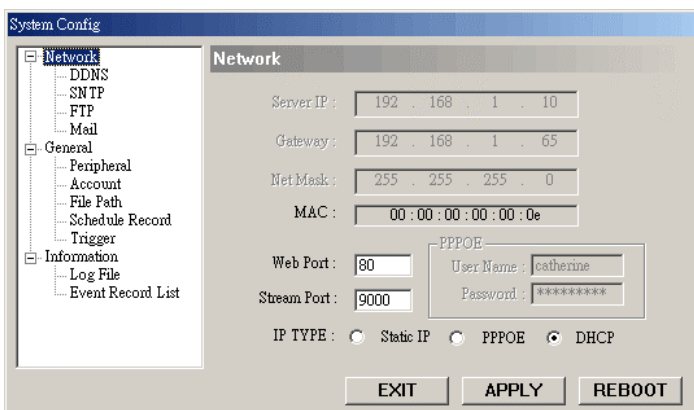
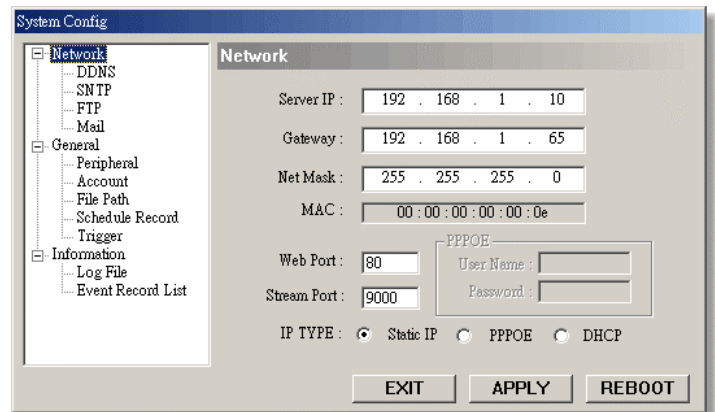
5.3 ADVANCED SETTING



- 1) Press "System Config"  button to enter the "System Config" page.
- 2) In this "System Config" page, users could select the different functions to set up.
- 3) After setting, please press "APPLY" button to save the settings.
- 4) System setting includes:
Network, DDNS, SNTP, FTP, Mail, General, Peripheral, Account, File Path, Schedule Record, Trigger, Information, Log File, Event Record List.

Network

- 1) Click on "Network", and choose the IP TYPE (Static IP, PPPoE, DHCP).
- 2) Static IP: Please refer to "Section 3.2 VIDEO WEB SERVER SETTING".
- 3) PPPoE and DHCP: Please refer to "Section 4.3 VIDEO WEB SERVER SETTING".

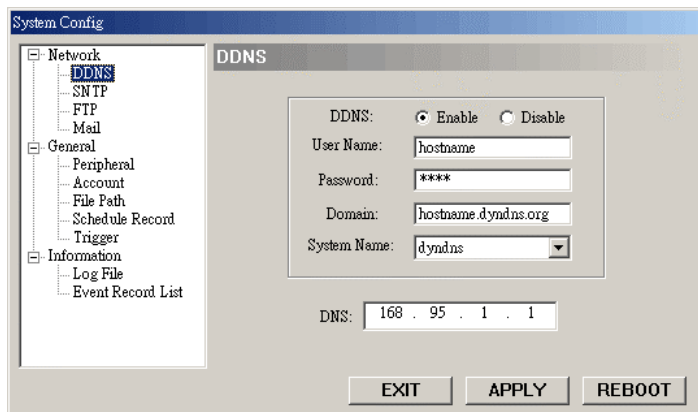


* **Web Port:** DVR port.

* **Stream Port:** Transmitting video and audio.

DDNS

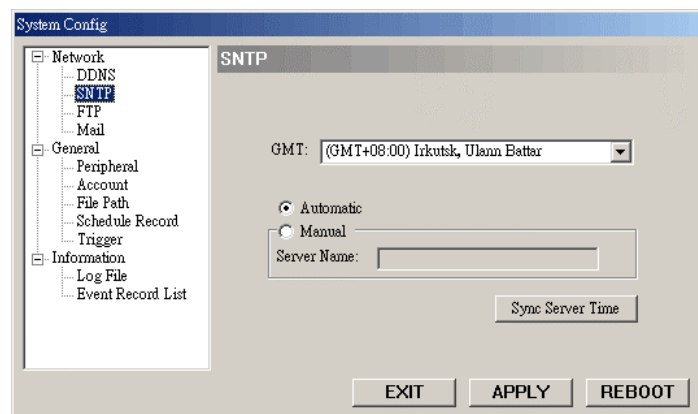
- 1) DDNS is a service for transforming dynamic IP to corresponding to a specific "Hostname".
- 2) Enable the DDNS function.
Key in the "DDNS username" into "User Name".
Key in the "DDNS password" into "Password".
Key in the "Hostname" into "Domain".
Choose the "DDNS System Name".



Note: DHCP and PPPoE network types need to apply DDNS service to get "Hostname" to correspond to dynamic IP address. For detailed DDNS setting, please refer to "Section 4.1 DDNS APPLY".

SNTP

- 1) SNTP (Simple Network Time Protocol) is for time setting. So it also concerns to "Schedule Record".
- 2) GMT (Greenwich Mean Time):
Once users choose the time zone, the video web server will adjust the local area time of system automatically.
Server Name:
Users could simply use the automatically SNTP server, or could set up another SNTP server.
- 3) Sync Server Time:
The video web server will synchronize the time in the video web server and the network time.

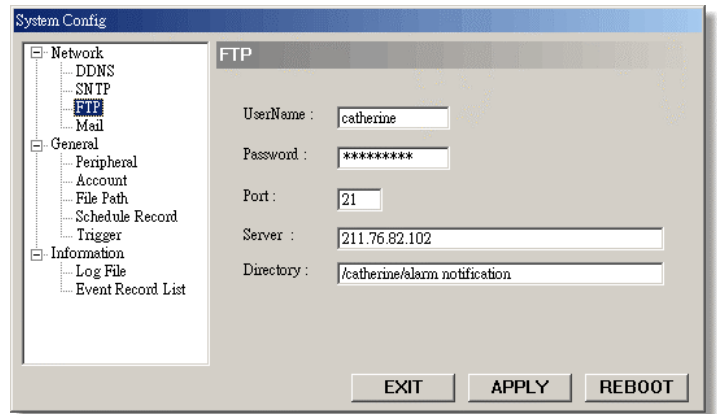


Note: This product does not have RTC, it need to get time on the Internet and use software to calculate time.

FTP

- 1) When alarm is triggered, the video server will capture the instant picture and upload the captured image to the assigned FTP site.

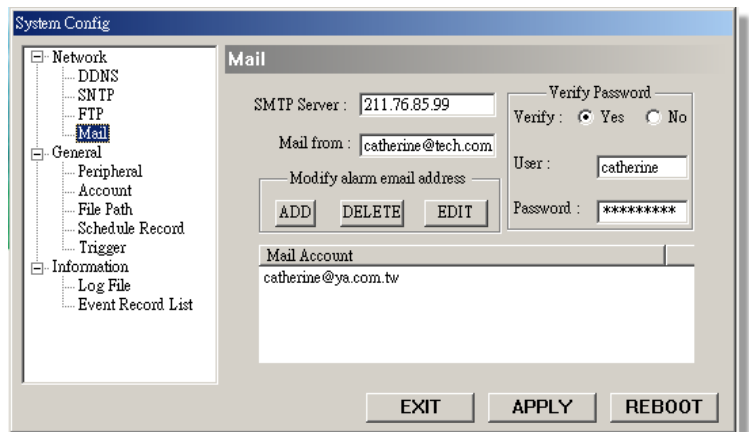
Note: To get alarm notification at FTP site when there is a alarm trigger, users must enable the function of FTP notification in the “Trigger” setting.



Mail

- 1) When alarm is triggered, the Video Web Server will capture the instant picture (10 JPEG pictures max) or MPEG-4 film (3 sec max), and e-mail it to the assigned recipients.

Note: To get alarm mail when there is a motion trigger, users must enable the function of e-mail notification in the “Trigger” setting.



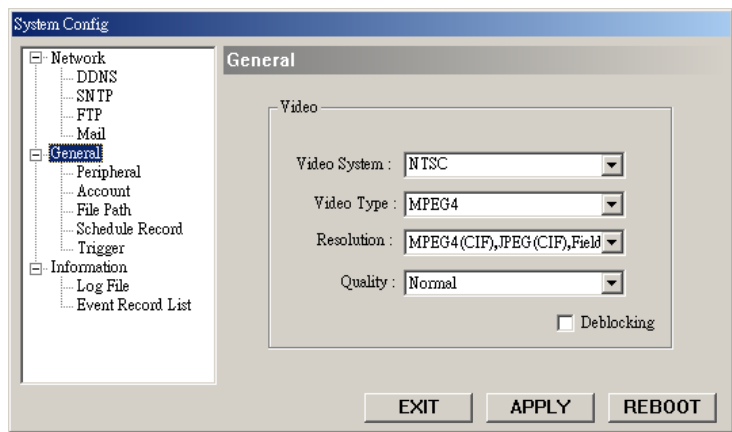
- 2) Users could get information (SMTP server) from their own e-mail system supplier.
- 3) Users could add the email addresses in “Modify alarm email address” .
- 4) If the mail server require verify password, please key in user name and password.

Note: Please key in the entire mail address in the “Mail from” box to ensure mails will not block by some SMTP server.

General

- 1) Users could set “Video System”, “Video Type”, “Resolution” and “Quality”.
- 2) Video System:
 - * NTSC
 - * PAL
 - * AUTO
- 3) Video Type:
 - * JPEG
 - * MPEG4
- 4) Resolution:
 - * MPEG 4 (D1), JPEG (D1), Frame
 - * MPEG4 (D1), JPEG (CIF), Frame
 - * MPEG 4 (CIF), JPEG (CIF), Frame
 - * MPEG 4 (CIF), JPEG (CIF), Field
- 5) Quality:
 - * Basic
 - * Normal
 - * High
 - * Best
- 6) De-blocking:

When users choose to activate the de-blocking function, the appearance of the images will be better, but it will spend more CPU resource.

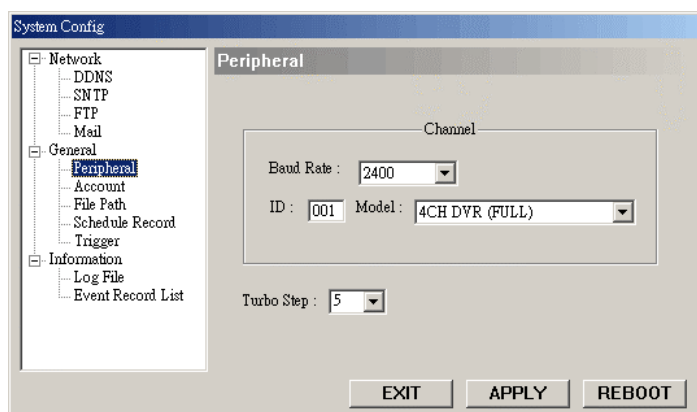


Note1 : D1 represents 704 x 480 (NTSC)
CIF represents 352 x 240 (NTSC)

Note2 : D1 represents 704 x 576 (PAL)
CIF represents 352 x 288 (PAL)

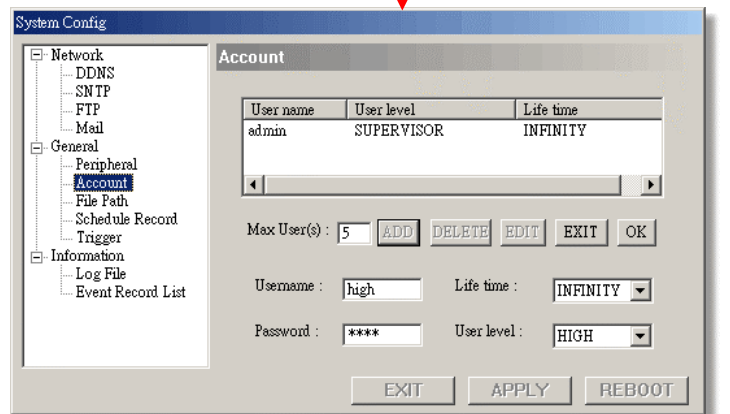
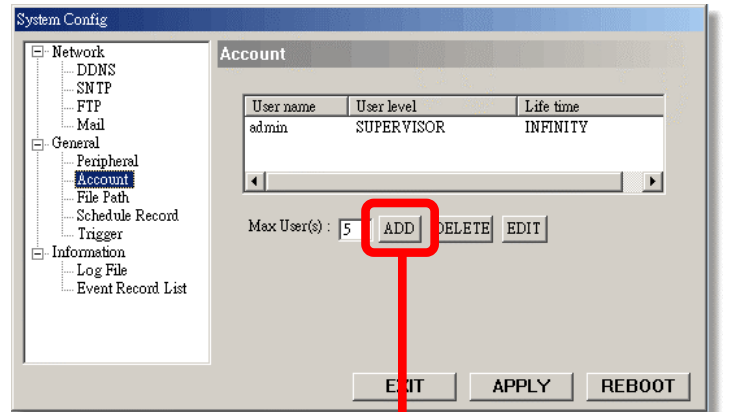
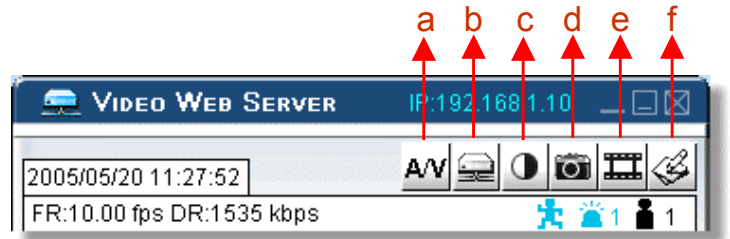
Peripheral

- 1) Users could set up all the peripheral setting in this Windows. (Refer to “APPENDIX#1 & 2” for more detailed instructions).
- 2) Set up video input device. Users could select the devices then set up “Baud Rate” and “ID No.” to control the equipments via video web server.
- 3) This video web server supports different AP panel to control the following peripherals: Camera, 1CH DVR, 4CH DVR (Full), 4CH DVR (Basic), 4CH DMR, 9 CH DMR, 16 CH DMR, 4 CH DQR, PTZ, 4 CH MPEG 2 DVR.



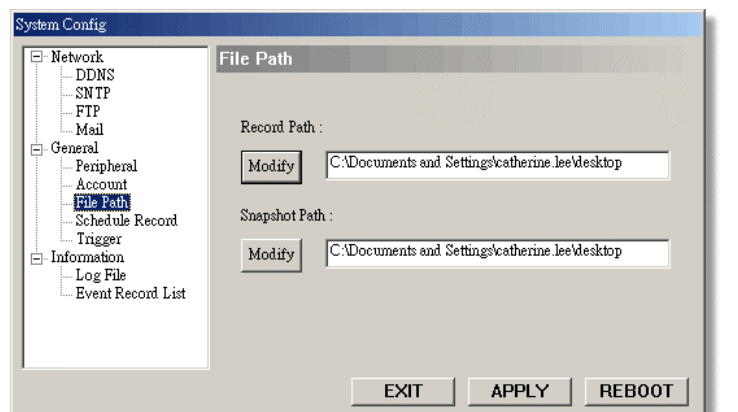
Account

- 1) Set up the user's account (Max 10 accounts) , password, life time, and authority level (Max 10 accounts on line at the same time).
- 2) User's level:
SUPERVISOR —
 Control all the functions ("a", "b", "c", "d", "e" and "f").
HIGH —
 Control only "a", "b", "c", "d" and "e" functions, but cannot control "f" function.
NORMAL —
 Control only "a", "d", and "e" functions, but cannot control "b", "c" and "f" functions.
GUEST —
 Watch the image only. Can only use the "a" function.
- 3) Life time :
 According to different authority level, different accounts can stay online for different time period (1min, 5min, 10min, 1hour, 1day, infinity).



File Path

- 1) Record Path:
 Assign the route for recording file.
- 2) Snapshot Path:
 Assign the route for snapshot image.

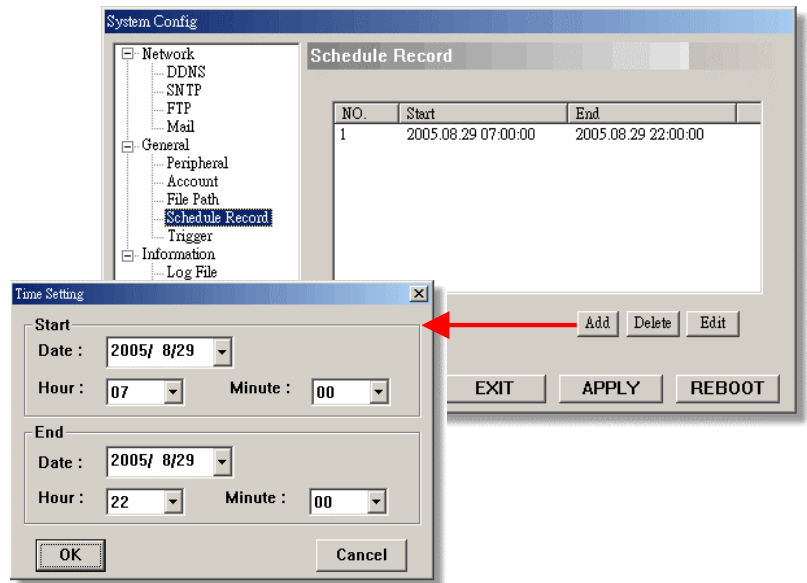


Schedule Record

- 1) Users could preset timer schedule for recording.
- 2) Click on “Add” button, and add time setting preference.

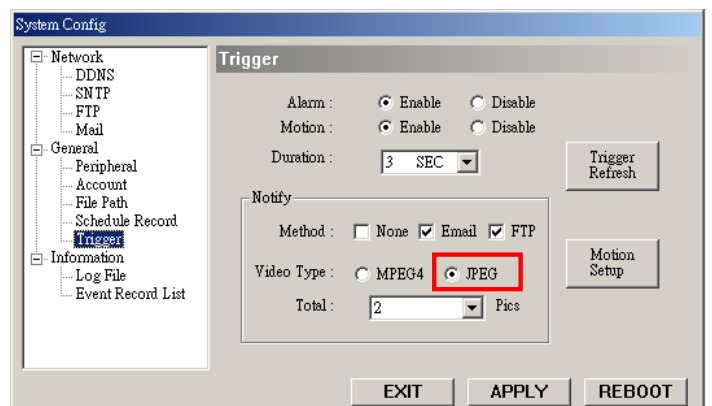
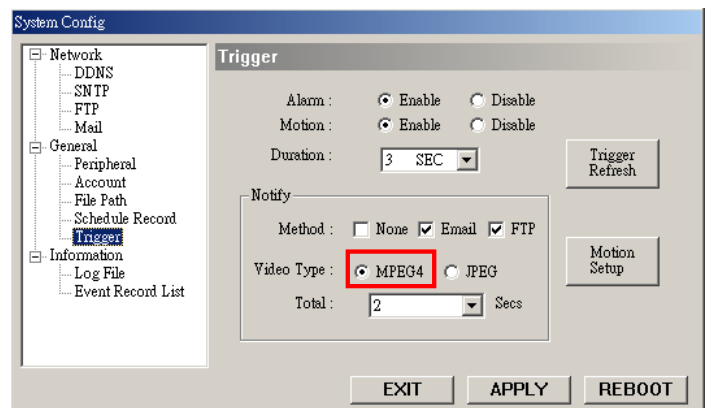
Note:

The time of schedule record is depend on the time in the PC, not the time in the video web server.



Trigger

- 1) Alarm : Enable or disable Email and FTP notification function.
- 2) Motion : Enable or disable Email and FTP notification function.
- 3) Duration : Users could set the alarm or motion duration time for 3 sec., 15 sec., 30 sec., 1 min., or 30 min..
- 4) Notify Methods : Email or FTP or None.
- 5) Video Type : Users could select which type of notification file is prefer to receive (MPEG4 or JPEG).

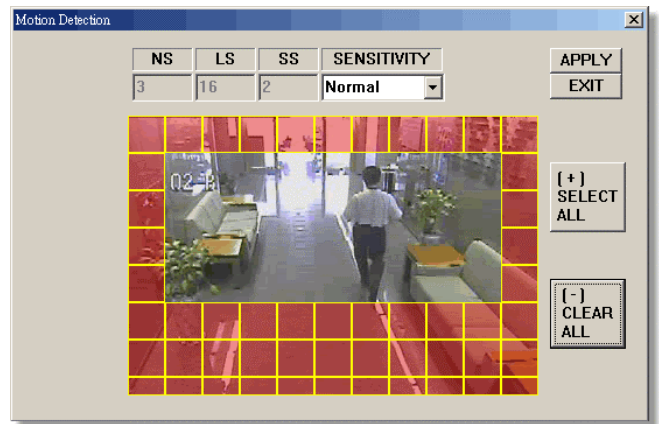


- 6) Total:
 When video type is MPEG4 ~
 Users could select the notification file
 to be 1-3 seconds.

When video type is JPEG ~
 Users could select the notification file
 to be 1-10 pictures.

7) Motion Setup:

- ❖ **Motion Area:**
 Users could set motion detection areas here. Pink area means the area which is not under detecting.
- ❖ **Motion Sensitivity:**
 Users could set detection sensitivity factors here (Manual) or by choosing different level (Lower, Low, Normal, High, Higher).



- **NS:**
 Motion detection sensitivity (using motion estimation algorithm).
 The smaller the value is, the more sensitive the detection will become.
- **LS:**
 It checks the pixel difference of frame to frame within one macro block.
 If the number of pixel, exceeding "PT", is bigger than "DT", the macro block is regarded as motion block.
 The smaller the value is, the more sensitive the detection will become.
- **SS:**
 If the number of motion macro block is bigger than "SS", the macro block is regarded as motion block.
 The smaller the value is, the more sensitive the detection will become.
- **SENSITIVITY:**
 Users could choose different sensitivity levels of motion detection, or choose manual to set the value of sensitivity factors.

- 8) Trigger Refresh :
 Clean the alarm message "🔔" which is shown on the screen.

🔴 (Red)
 Means alarm is happening.

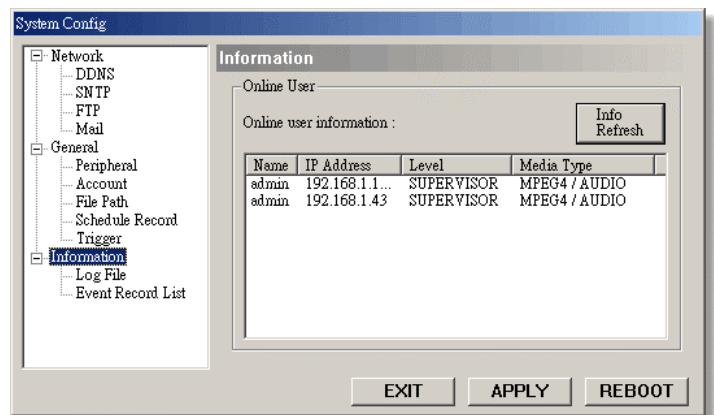
🔵 (Blue)
 After alarm duration, the red alarm message will turn to blue.

🔴 (Red)
 Means motion is happening.

🔵 (Blue)
 After motion duration, the red motion message will turn to blue.

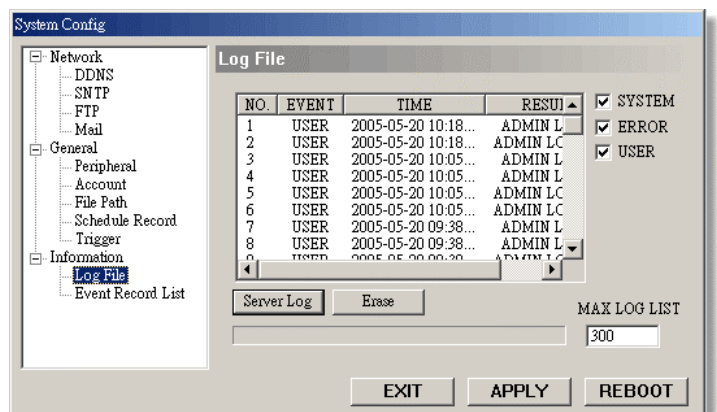
Information

- 1) Users could get all the online users' information here (Name, IP Address, Authority Level, Media Type).
- 2) Media Type: show the information including video type (JPEG / MPEG4) and medium type (Audio / Video / Audio and Video)



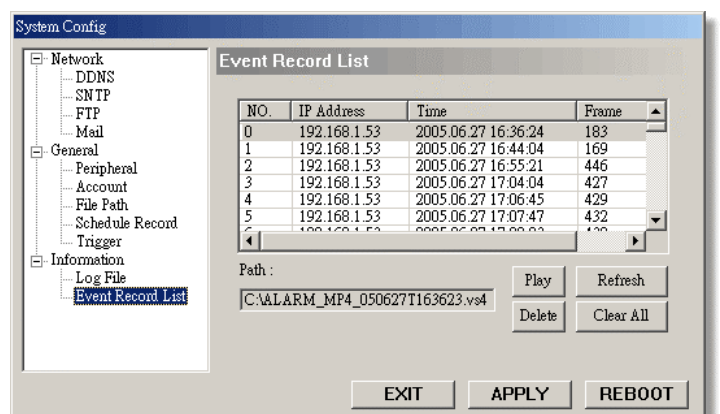
Log File

- 1) Users could get all the information of log file.



Event Record List

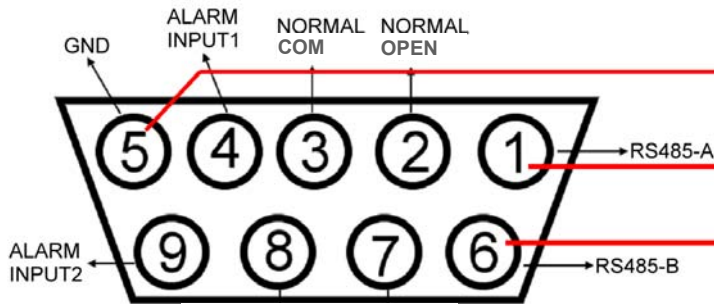
- 1) It's a database, which precisely lists all alarm triggered events, with IP address of Video Web Server, alarm triggered time, and number of frames.
- 2) Users could directly play, delete, or clear all alarm recording events with ease.
- 3) Click on the "Refresh" button to update the record list.
- 4) All the alarm triggered files will be listed systematically for easily search.



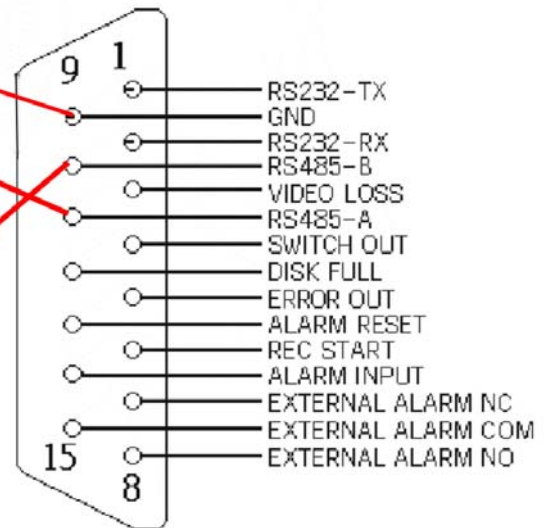
APPENDIX #1 – DVR CONTROL

- 1) Connect the Sub-D plug of Video Web Server with DVR products.

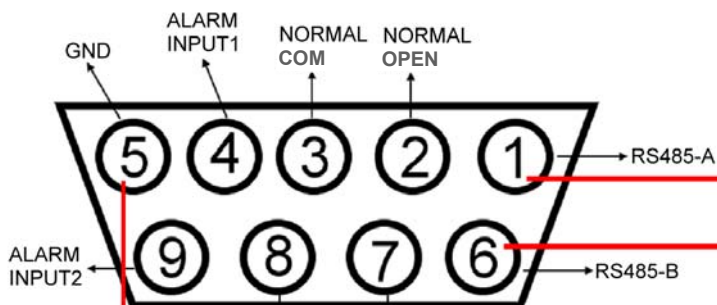
Video Web Server



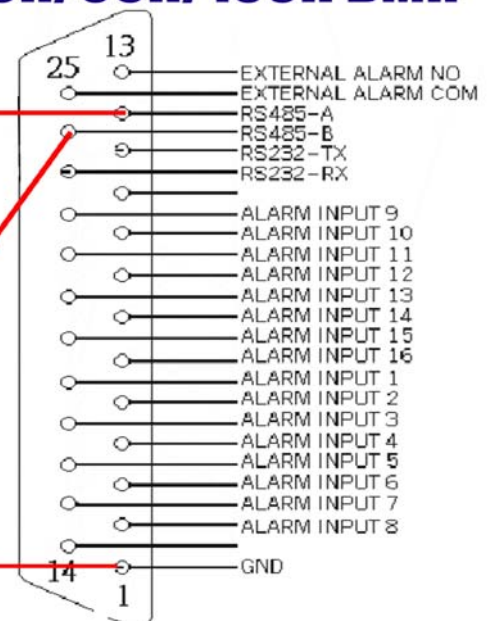
1CH/4CH DVR



Video Web Server



4CH/9CH/16CH DVR

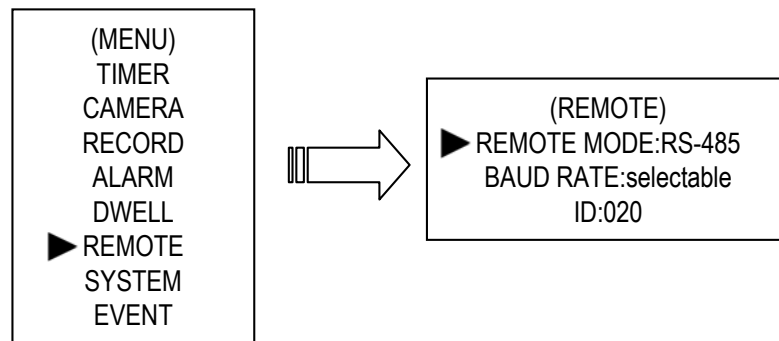


2) Set the "Remote" function in the DVR products.

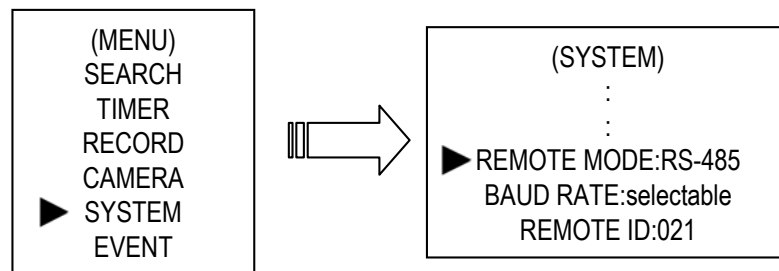
NOTE :

Remote mode : RS-485, Baud rate : selectable, ID : same as "Peripheral Control" in the Video Web Server.

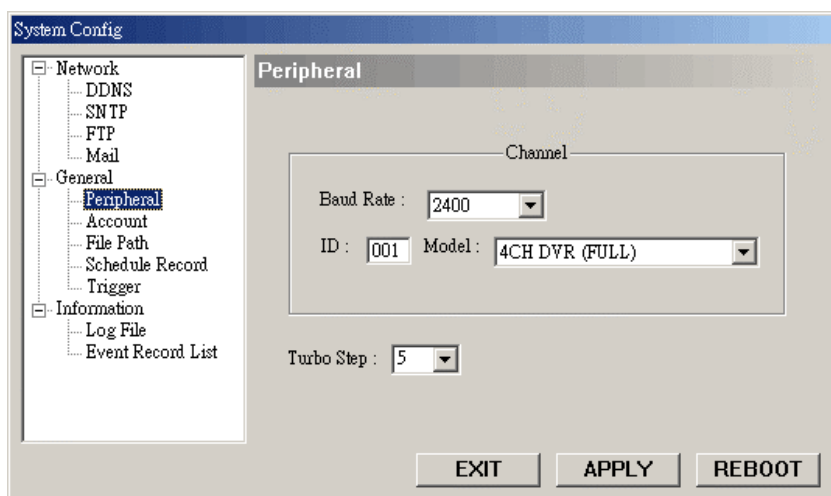
A. 1 / 4 CH DVR



B. 4 / 9 / 16 CH DMR

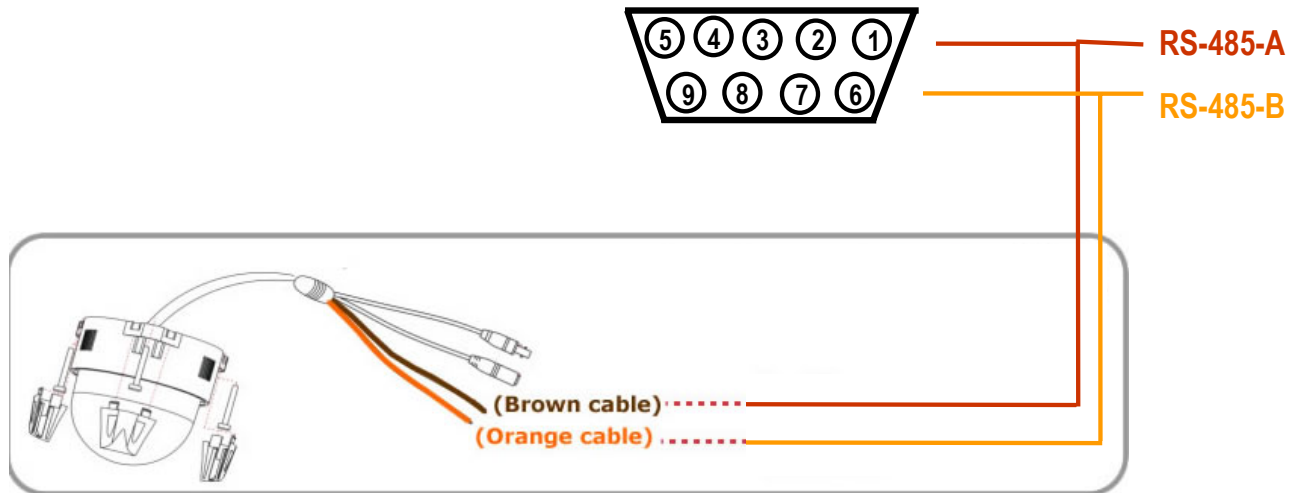


3) Set the "Peripheral Control" in the system config of Video Web Server.

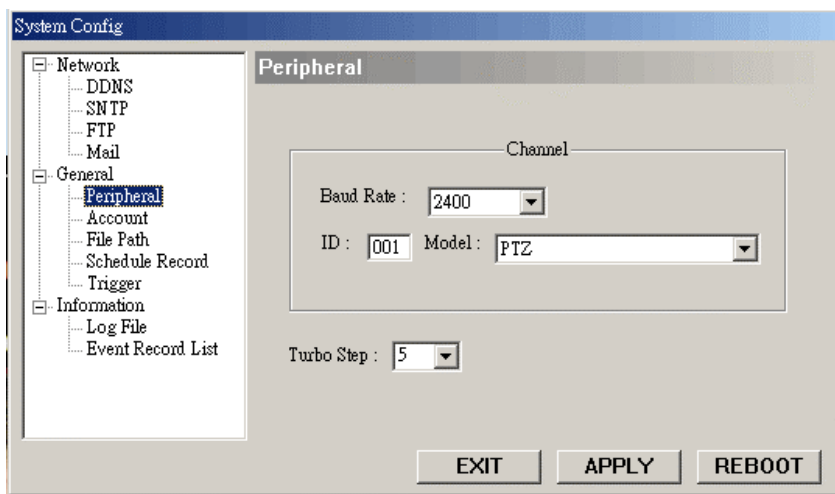


APPENDIX #2 – PTZ CONTROL

- 1) Connect the Sub-D plug of Video Web Server with our own brand PTZ products.



- 2) Set the “Peripheral Control” in the system config of Video Web Server.



NOTE:

Set the ID as the PTZ ID value. The default value is “0”.

APPENDIX #3 – IE BROWSER

- ❑ Users could go access Video Web Server through the web page. Just type the IP address of video web server into the URL address box and press Enter. Then users will see the following pages. Key in user name and password, and then press “Submit” button to log in.

