

GRAND IP VIDEO SERVER 4 PORT

(Remote View / Control / Recording / Snapshot through IE)

User's Manual



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Federal Communications Radio Frequency Interference Statement.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, Pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio of television reception, which can be determined by turning the equipment off or on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Notice :

- (1) The changes or modifications not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.
- (2) Shielded interface cables and AC power adapter, if any must be used in order to comply with the emission limits.

CE DECLARATION

This device complies with CE class B.

*EN55024		EN61000-4-5
EN55022	EN61000-4-2	EN61000-4-6
EN61000-3-2	EN61000-4-3	EN61000-4-8
EN61000-3-3	EN61000-4-4	EN61000-4-11

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1. Introduction



1.1 Introduction

Grand IP Video Server 4 Port is a Digital Network broadcaster allows you to transmit audio, video as a streaming over the Internet. You can share your DVD program or TV Program in your Internet web site or connect to a Video Camera to watch your home or baby room on internet from anywhere in the world, and you also can email the image to your friends or families. Grand IP Video Server 4 Port supports motion detection function, and also supports the image quality, image size and image parameters adjustments functions.

1.2 Package Content

This package contains the following items :

- Grand IP Video Server 4 Port
- Power adapter DC 5V/2A(-) ← (● → (+)
- RJ-45 Cable (cross over wire)
- CDR (Manual + IPedit Software)
- Quick Start Manual



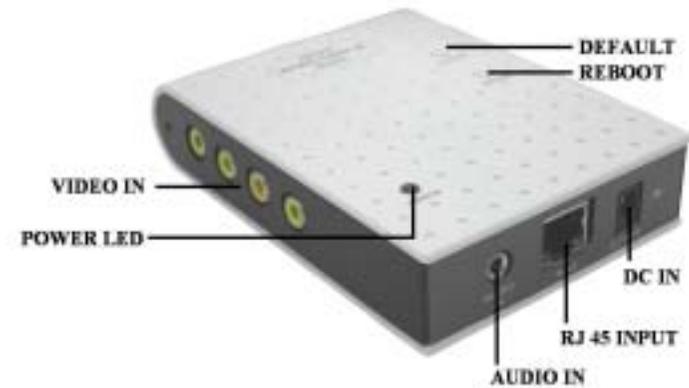
1.3 System Requirement

- Router(with DDNS or PPPoE function) is required
- 10Base-T Ethernet or 100Base TX Fast Ethernet
- Intel Pentium3 800 MHz, AMD 800 MHz or Faster
- 64M RAM or above
- VGA card with 8MB memory or above
- Microsoft DirectX 9
- Internet Explorer 5.0 or above

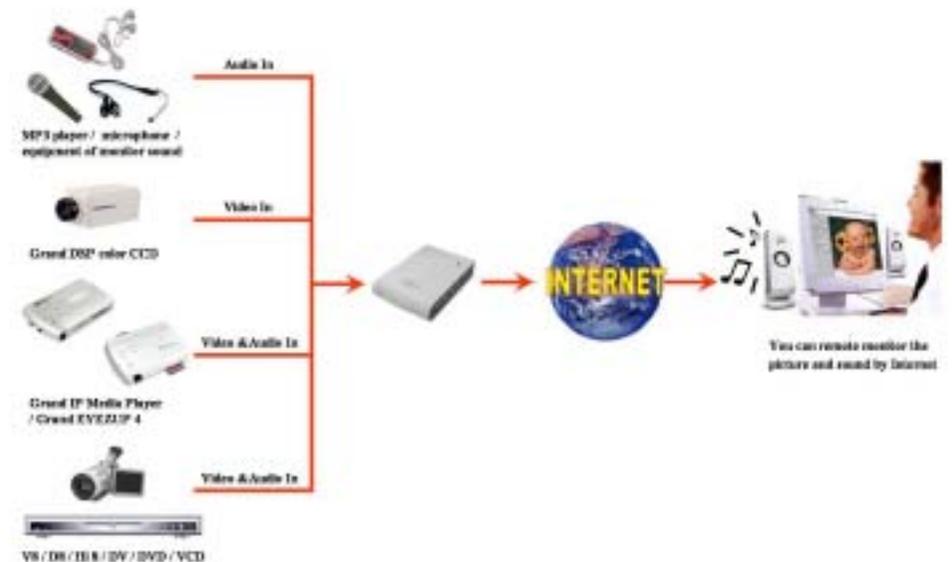
2. Product Features

- Pure hardware design, just Plug & Display.
- High performance and fully configurable MJPEG compression engine.
- Remote view and record through the IE Browser.
- Supports Input : 4 Video Input and 1 Audio Input.
- Supports 4 video channels display
- ActiveX control supports digital signature.
- Supports image recording function (MJPEG format) and save current picture function (JPEG format).
- Supports motion detection function and send E-mail when something moving.
- Adjustable image quality Lowest / Low / Medium / High / Highest.
- Adjustable resolution 160X120 / 176X144 / 320X240 / 352X288 / 640X480 / 704X576.
- Adjustable image frequency Indoor 50 / Indoor 60 / outdoor.
- Adjustable image parameters Brightness / Contrast / Saturation / Hue / Sharpness.
- Support many Network services: HTTP (User Interface), FTP (FTP Client), PPPoE (Fixed IP Address is recommended), Dynamic DNS, and firewall port forwarding (used in virtual IP address).

3. Hardware Connection and Application



- **Default** : Press this button to .restore the original default parameters.
- **Reboot (reset)** : Press this button to restart the Grand IP Video Server.
- **Video IN** : Connects to video out of video source. (camera, DVD player)
- **Audio IN** : Connects to sound output. (microphone, DVD player)
- **RJ 45 Input** : Connects to router or PC by RJ-45 Cable.
- **DC IN** : Connects to power adapter (-) ← (●→ (+), DC 5V/2A
- **Power LED** : Power LED indicator.



4. Software Installation and Operation Guide

4.1 First time to login Grand IP Video Server 4 Port

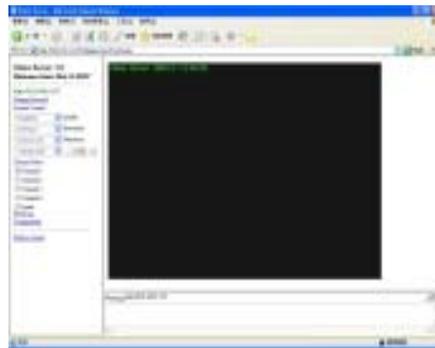
Step 1 : Please execute the “ipEdit.exe” in the CD, and select the “Unblock”
(windows XP SP2 only)



Step 2 : “Video Server.....192.168.1.127” has been listed in the left side, and double click
”192.168.1.127” to login the Grand IP Video Server 4 Port.



ipEdit Tool

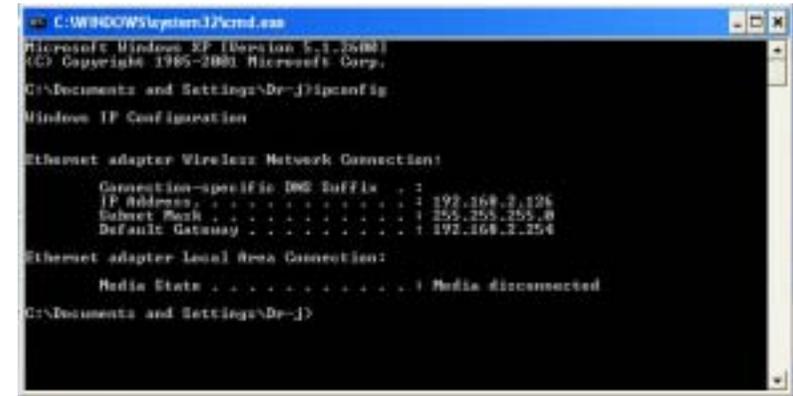


Window of Video Server 4 Port

If you can not connect to the Address: 192.168.1.127, please according the following steps to get
Network information

Step 3 : Click on “Start” “Run“ and key in ”command“, then press “ENTER”.

The MS-DOS window will appear, please key in ” ipconfig “ and then press “ ENTER “
to get the network information.

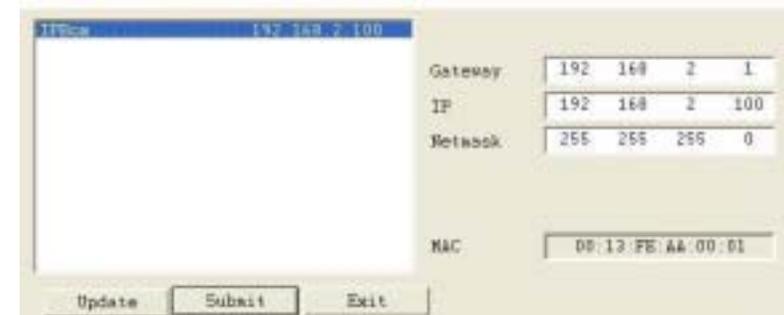


Step 4 : Then you can assign IP Address, Netmask (Subnet Mask) and Gateway (Default Gateway)
for the IP Controller.

NOTE : .You must use the same Subnet Mask” 255.255.255.0 “and Gateway ”192.168.2.254”.

You can use any IP Address between 192.168.2.1-254, but please make sure that the
IP Address has never been used or is used by any other IP addressable device.

Step 5 : For example, key in the following parameters and click “Submit”.

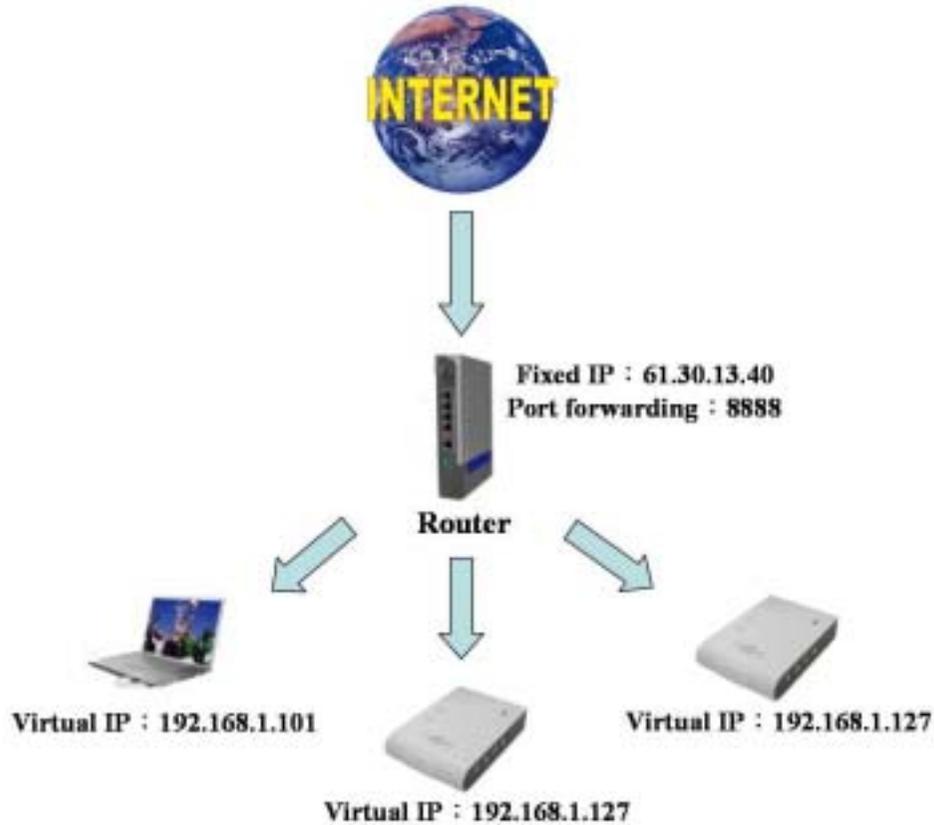


Login to the IP Video Server 4 Port

Default IP Address : http://192.168.1.127/

4.2 How To Use The Virtual IP Address

If your network Architecture supports the following figure, you will need to do port and local virtual IP forwarding in the firewall or gateway setup.



Step 1 : In this Page <http://192.168.1.127/Ctl/index.htm?Cus?Audio/>, please select “**Configuration**” and “**System**” assign two different port numbers for the Http Protocols (for example HTTP : 8889, HTTP : 8888)

Http port 1:	8889
Http port 2:	8888

(Please remember reboot the system)

Step 2 : Setup your firewall or gateway, and assign a Local Virtual IP: 192.168.1.127 and open a port 8888 and 8889 for the IP Video Server 4 Port, the following figure is just a example, you need to ask your Internet Service Provider.



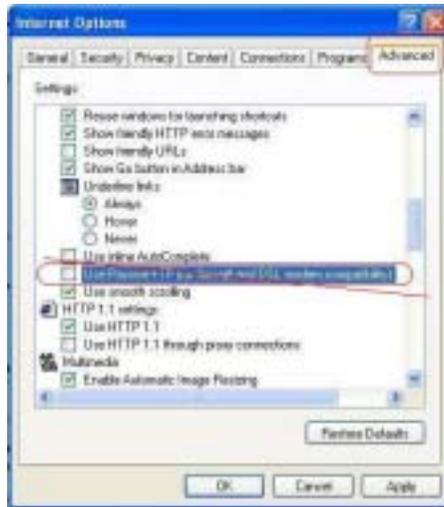
Step 3 : In the Local PC, please open the Internet Explorer then key in the IP address : <http://192.168.1.127>

Step 4 : In the Remote PC, please open the Internet Explorer, then key in the IP address : <http://61.30.13.40:8888>



Step 5 : Setup the Internet Explorer about FTP Client

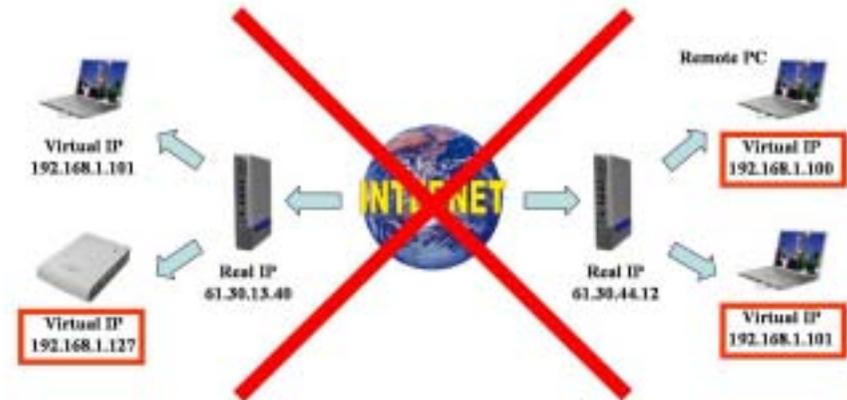
Click “Tools” “Internet” “Options” “Advanced”, and then the “Internet Options“ window will appear, please remove the Item ”Use Passive FTP(for firewall and DSL modem compatibility)”



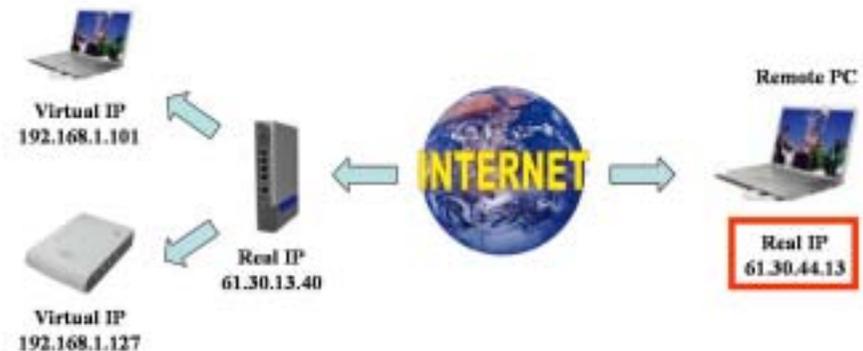
Internet Options

4.3 Limitation Of FTP Protocol

If your network Architecture is the same as the figure, you can not transfer Files with FTP, because FTP server (IP Video Server) and FTP client (Remote PC) both are virtual IP addresses.



- You need to change the Remote PC to be a real IP address, also can change the IP Video Server to be a real IP Address



Change the Remote PC to be a Real IP address



Change the IP Video Server 4 Port to be a Real IP address

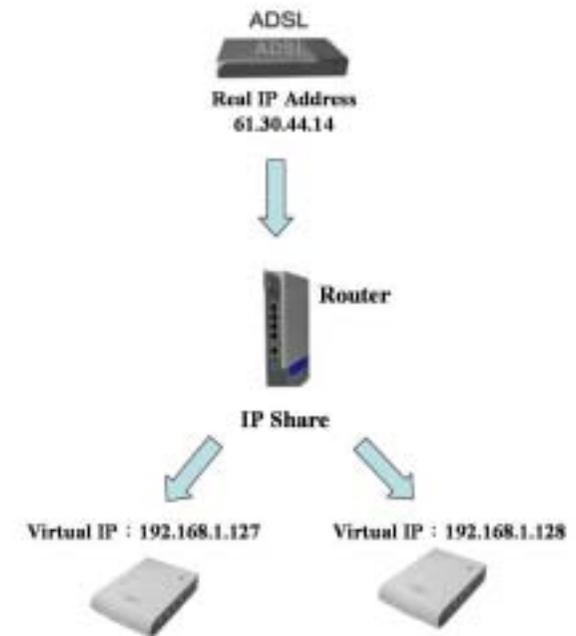
- Please Setup the Internet Explorer about FTP Client Select the item “Use Passive FTP(for firewall and DSL modem compatibility)”



Internet Option

4.4 Connect To ADSL

- We suggest that you can use the router to dial up the ADSL, more information please refer to the router Help

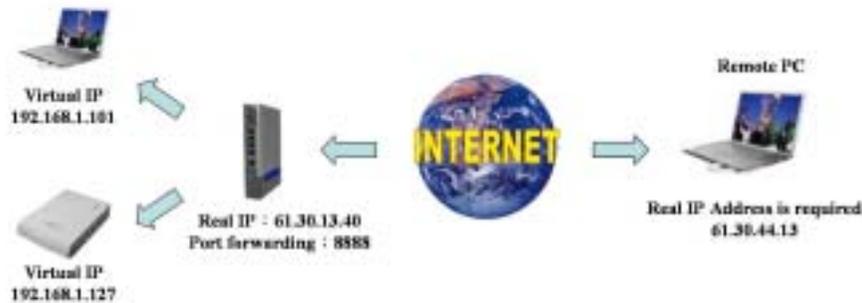


- If you want to connect IP Video Server 4 Port with ADSL directly, please use the following steps to dial up PPPoE, but if the IP Address is dynamic, you need to setup DDNS function.

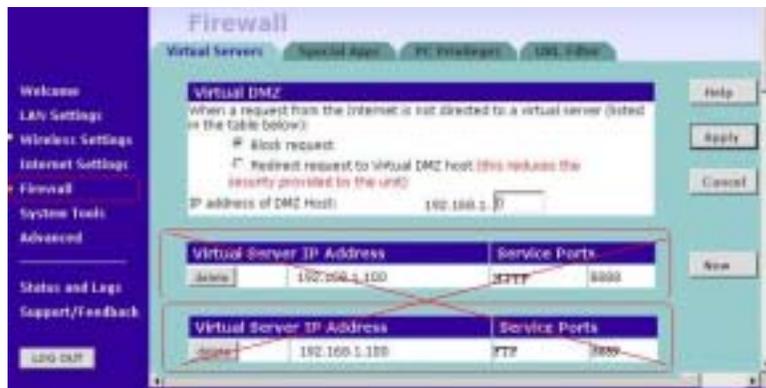


4.5 About Internet Security

- Please often change the User ID and Password.
- For high Internet Security, we suggest you use the router with the firewall function.

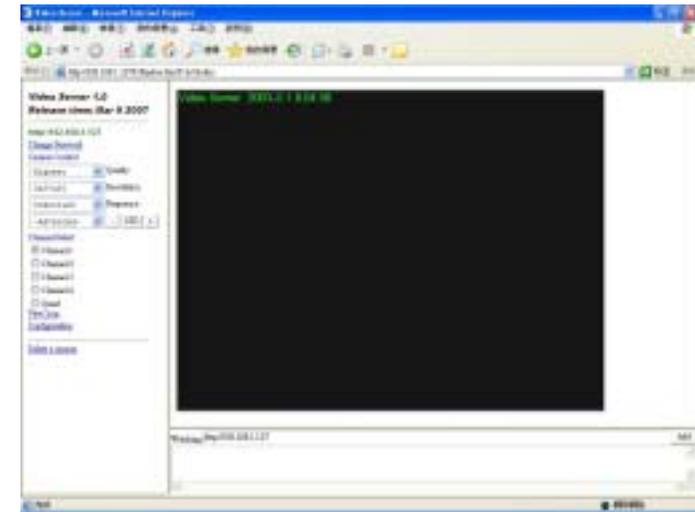


- After you update those files to the Player, please remember to delete the Port forwarding



- In the next time, you want to update media files, you can connect to the router (for example: key in the IP address <http://61.30.13.40>) and reopen the FTP port 8889 and Http port 8888 once more.
- Although this way is inconvenient, but that can get highest Internet Security. After about 10 seconds, the ftp server <ftp://192.168.1.127/> has been enabled,

5. Configuration Of Grand IP Video Server 4 Port



- After connected to the IP Video Server 4 Port, and the Video Server window will appear.
- There are “Change Password”, “Camera Control”, ”Channel Select”, “View Log”, “Configuration” and “Delete a camera” setup selections at the left side of the Video Server window.

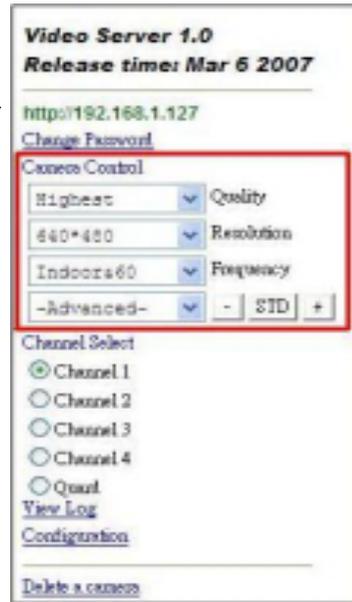
5.1 Change Password

- Before you select “Change Password”, please make sure “User authorization required” enable the user check function. (click “Configuration” “User ” “User authorization required”)
- Click the “Change Password”, then set a new password to replace the old password.



5.2 Camera Control

- **Quality** : To select the image quality and recording mode.
 - **Image Quality** : Lowest, Low, Medium, High, Highest.
 - **Recording Mode** : motion (motion detect function)
- **Resolution** : To select the image resolution. (160x120, 176x144, 352x288, 320x240, 640x480, 704x576)
- **Frequency** : Adjust the light frequency to suit your country. (Outdoor / Indoor 50 / Indoor 60)
- **Adjust the image performance** :
Click “+” or “-” to adjust the values, and click “STD” to reset all values to the original settings.



5.3 Channel Select

Channel 1: Display channel 1 at frame.

Channel 2: Display channel 2 at frame.

Channel 3: Display channel 3 at frame.

Channel 4: Display channel 4 at frame.

Quard: Display 4 channels at frame.

5.4 View Log

Click “View Log” to check the system and client log information of IP Video Server, including the “Main Info”, “Appended Info”, “Operator IP”, “Operator MAC” and “Time”.

Main Info	Appended Info	Operator IP	Operator MAC	Time
System Boot				809006 11:30
New client		127.0.0.1		809006 11:42
Get Server IP success		127.0.0.1		809006 11:43
Get Server IP		127.0.0.1		809006 11:43
New client		192.168.1.105	000C7B E1 391A	809006 11:43

View Log

5.5 Configuration

- **System**
 - **Camera name** : Key in the new name of camera, and select “Change” to submit it.
 - **Camera’s time** : You can chose “NTP” or “Input new time” to set up the time.
 - **NTP** : Key in the Server IP address, and IP Video Server will get the time from NTP server.
 - **Input new time** : Disable the “Synchronize with PC’s time”, you can set up the time by yourself. (please click “Adjust” to adjust the setting after set up)
 - **Http port** : Supports 2 Http port setting.



System Setting

- **User**
 - **User authorization required** : Checking the Enable use check function will enable the user check when the users want to Access the Grand IP Video Server. The Login window will prompt for the User name and Password. If the check box is not checked, then the user check will nor be enabled.
 - **Add a user or change password** : To create a new user account, or change current user’s password.
 - **Delete user** : You can delete the current users. Select the user account from the “Username” list box, and click “Delete” to delete it.

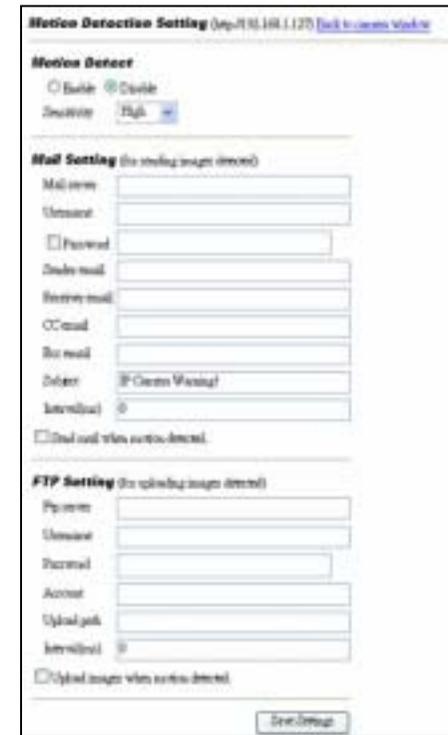
- **Current user list** : It lists all current users.



User Management

■ Motion Detect

- **Motion Detect** : Select “Enable” to activate the motion detection. And chose the sensitivity of motion detect (High / Middle / Low).
- **Mail Setting**
 - Setup the “SMTP Mail Server” and E-mail address. (Password use or not)
 - Key in the sender’s email address and the recipient’s email address.
 - The content of “Subject” can be modified.
- **FTP Setting** : The motion detected images can also be uploaded to FTP server.
 - Key in the IP address or domain name of the FTP Server.
 - Key in “Username” and “Password” of the FTP Server.
 - Certain FTP servers need an “Account” field. Leave it blank if it is not needed.
 - Key in the remote folder upload path information for saving the setting.



Motion Detection Setting

■ Network

- **IP Assgnment**
 - **Manually** : Setting IP address / Subnet mask / Default gateway
 - **Automatically by DHCP** : When IP Video Server is joined into the LAN, it will issue the DHCP packets to request an IP address that is dynamically assigned by the DHCP server.
 - Select “Reboot immediately” to take effect about these setting.
- **PPPoE**
 - **Save & Dial Now** : Press the button to connect to the ADSL line by PPPoE immediately.
 - **Dial On Power Up** : When you select this function, Grand IP Video Server will dial up PPPoE connection automatically after each power up. If you prefer to use PPPoE connection, this function is recommended.
 - Key in “Username” and “Password” of the PPPoE.
 - Send mail after dialed : Mail sent out after dialing is completed.

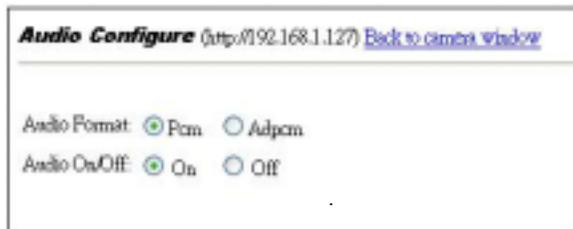
- If the mail server needs authentication, the “Password” need to be selected.
- Key in the sender’s email address and the recipient’s email address.
- The content of “Subject” can be modified.
- Click the “Save” to save the setting.



Network Setting

■ Audio

- Select “Pcm” or “Adpcm” to activate the Audio format.
- Select “On” or “Off” to activate the Audio output



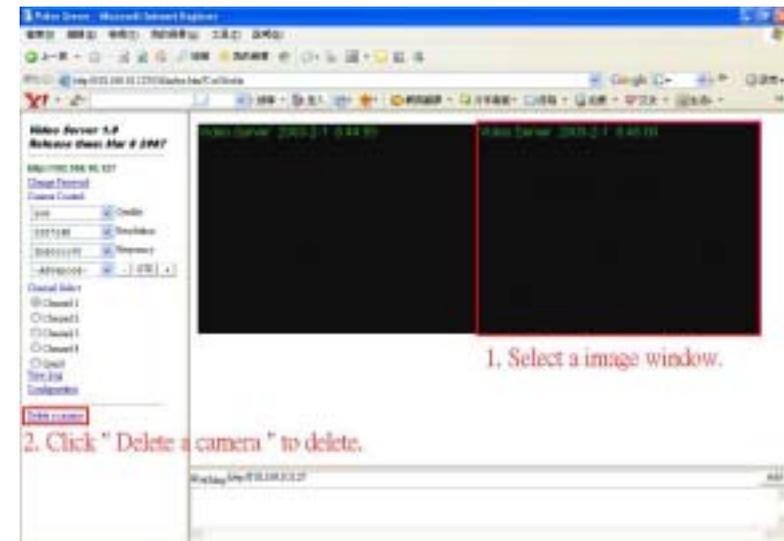
■ DDNS

- Select “Enable” or “Disable” to activate the DDNS function or not.
- Key in “Username” and “Password” of the DDNS Server.
- Key in “Domain Name”, “HTTP Proxy”, “Proxy Username” and “Proxy Password”, then click “Submit” to save.



Dynamic DNS

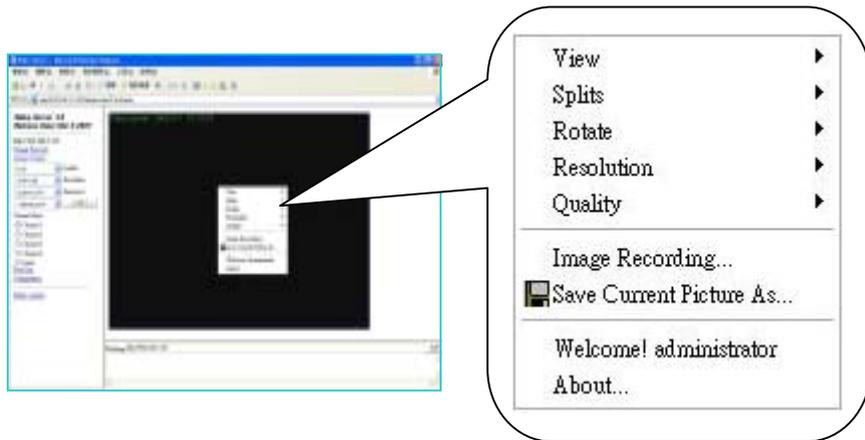
5.6 Delete the Camera



Select one of the image window that you want delete at the right side, then click “Delete a camera” to delete.

5.7 Other Functions

On the IE Browser, right mouse click on the video to active a pop-up menu. The menu includes “View”, “Splits”, “Rotate”, “Resolution” functions of the video, and includes “Image Recording” and “Save Current Picture As” functions.



5.7.1 Image Recording

■ Save as JPEG

Step 1 : Select “Image Recording(F11)...”, and the “Image Recording” window will appear, then select the “Save as JPEG” option.

Step 2 : Key in the download “Number” to save the desired number of image, or select “No Limit” to save the images continuously, until the “Stop Image Recording” is selected.

Step 3 : Click the “Save As”, and a pop-up window displays to select the save path and file name.

Step 4 : Click “Start” to perform the image download and save the JPEG files.

■ Save as AVI

Step 1 : Select “Image Recording(F11)...”, and the “Image Recording” window will appear, then select the “Save as JPEG” option.

Step 2 : Key in the “Number”, “Size” or “Time” on each AVI file.

Step 3 : Select “No Limit” option will save the video file until the “Stop Image Recording” is selected.

Step 4 : Click the “Save As”, and a pop-up window displays to select the save path and file name.

Step 5 : Click “Start” to perform the video save.



Image Recording

5.7.2 Save Current Picture As

Step 1 : Click “Save Current Picture As...” option to save the current image display to the local PC.

Step 2 : Select the save path and key in the name of the picture, and click “Save”.

6. Trouble Shooting

Situation	Check Point
Forget IP address and password	<ol style="list-style-type: none"> 1. Press “Default” button on the Grand IP Video Server 4 port about 10 seconds. 2. The default IP address : 192.168.1.127.

When you need RMA or advanced technical service, please fill in this form as detailed as possible and FAX or Email it to your dealer or service representative.

Product S/N:			
Name:			
TEL No.:		FAX No.:	
E-mail address:			
Full Address:			
Other add-on cards:			
Monitor:	Horizontal Freq.:	Hz to	KHz
	Vertical Freq.:	Hz to	Hz
Problem description:			