



**4-CH Quad Video Server
Firmware
A4Q-220-V3.04.08-AC**



www.acti.com

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1 **INSTALLATION**

1.1 Intro and Minimum System Requirements

The IP device provides access through an embedded web server. To access the device, your PC needs to meet minimum requirements to perform satisfactorily.

CPU	Pentium 4 2.4GHz and above
Memory	256 MB or above
Operating System	Windows XP with SP2 or above. Windows Vista / Windows 2003 / Windows 7
	Internet Explorer 6.0 SP2 and above.
Video Resolution	SVGA or XGA with 1024x768 resolution

1.2 Preparation before setup

Our IP device provides access through Internet Explorer. You need to set up the network settings and the IP address for the IP device. Please make sure all connections are properly connected, then follow the procedures below.

1. Setup your PC network

The IP address for your PC must be within the same subnet as the IP device. You need to match the TCP/IP settings between PC and IP device before you can access it via IE.

2. Setup IP device's IP address

This IP device's IP address can be assigned manually or acquired automatically by network service (DHCP). If it acquires the IP address by using the DHCP service, please use the IP utility software bundled in the product CD to find the IP address for all IP devices.

1.2.1 Setup your PC network

To set up the network of IP device via a PC, you have to change the TCP/IP settings of the PC.

The following are the default network settings of IP device.

IP Address: 192.168.0.100

Subnet Mask: 255.255.255.0

To access the IP device, the IP address of the PC should match the address below.

IP Address: 192.168.0.xxx

Subnet Mask: 255.255.255.0



NOTE: xxx should be a number from 1 to 254 except 100, which is used by the IP device. Please also make sure that no two equipments use the same IP address in the same network.

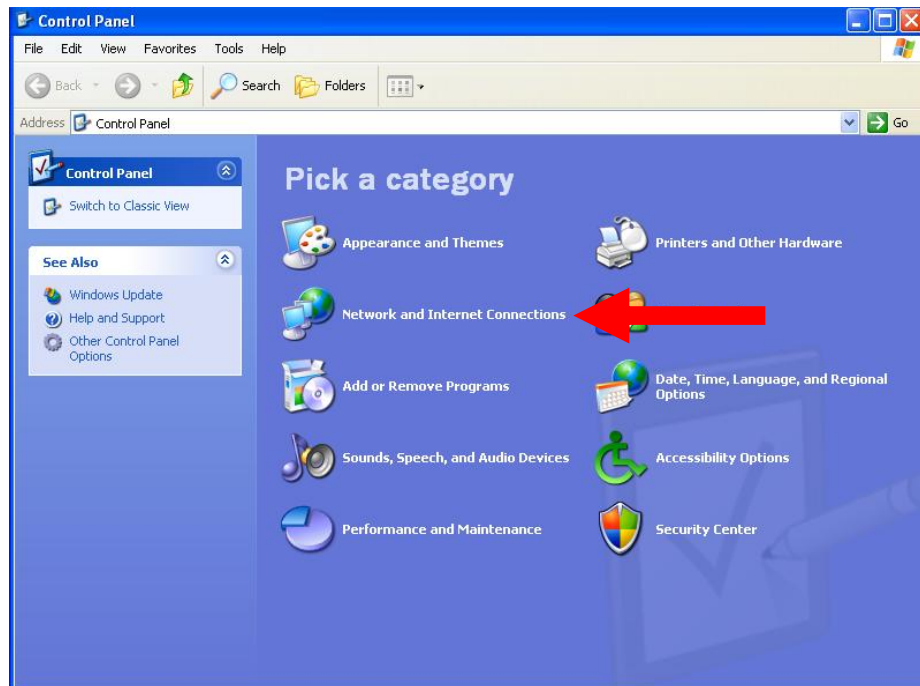
The procedures below is the setup procedure on Windows XP. If you use operating system other than Windows XP, please refer to OS manuals for proper setup procedures.

- **STEP1**
Start up your PC.
- **STEP2**
Click the [Start] and select the "Control Panel"



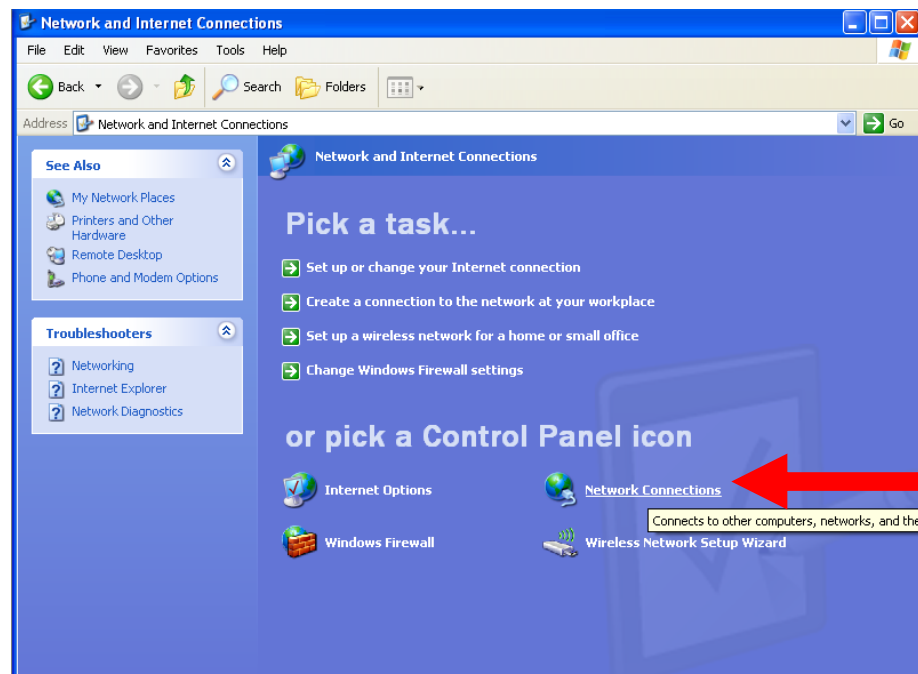
- **STEP3**

Double-click the "Network and Internet connections" icon.



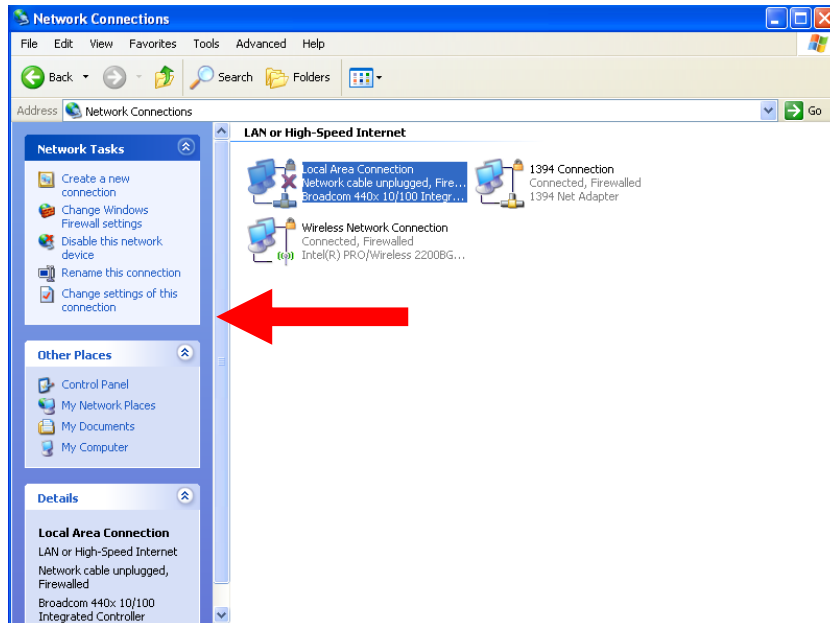
- **STEP4**

Double-click the "Network connections" icon



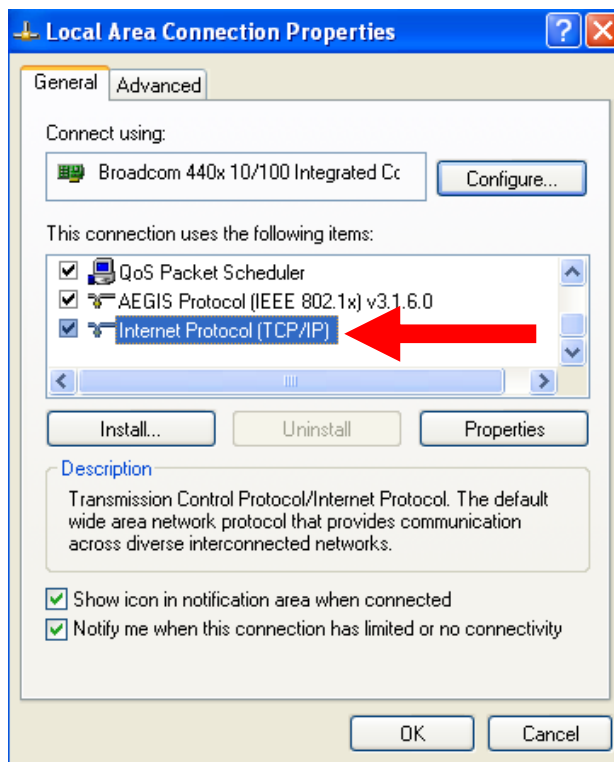
- **STEP5**

Click “Local Area Connections”, and then click “Change settings of this connection” in the network Task menu.



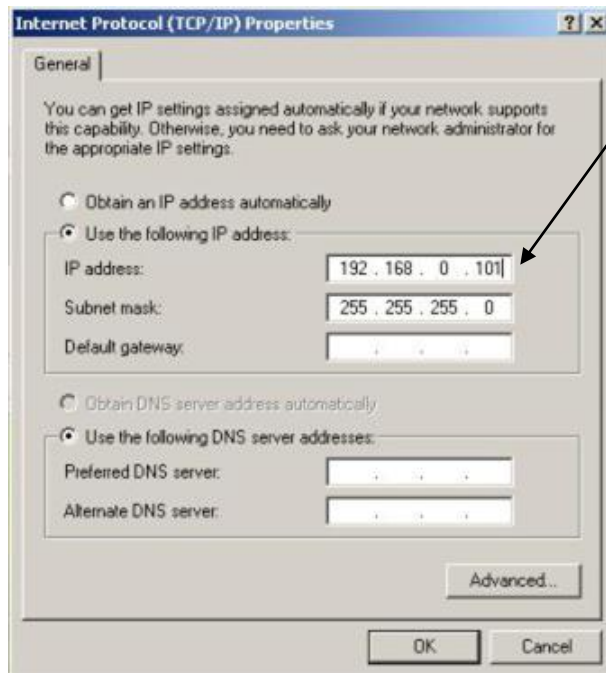
- **STEP6**

Click “Internet Protocol (TCP/IP)”, and then click the [Properties] button. If you have both IPv4 and IPv6, choose IPv4.



- **STEP7**

Click the “Use the following IP address” radio button and enter the IP address and the subnet mask.



Please set the settings as below.

IP address: 192.168. 0.xxx
Subnet mask: 255.255.255. 0

(NOTE: xxx should be a number from 1 to 254 except 100, which is used by the IP device. Please also make sure that no two equipments use the same IP address in the same network..)

- **STEP8**

Click the [OK] button and the window dialog box closes.

1.3 Configuring the 4-CH Video Server

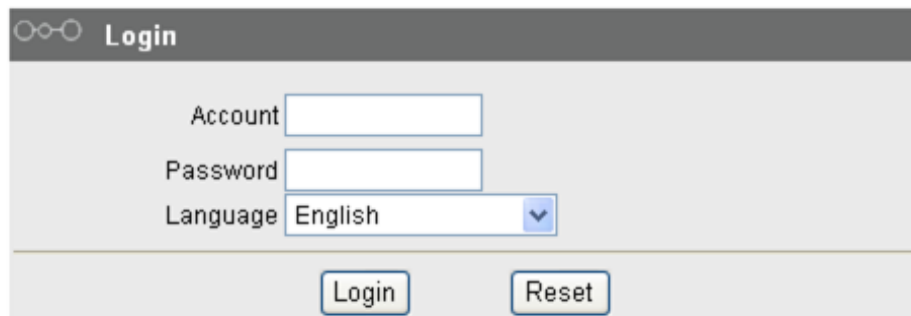
This section describes how to configure the IP device. The product administrator has unlimited access to all setup windows and normal users can only watch the live image. The IP device is configured under a standard browser (Microsoft Internet Explorer 6.0 or above).

Follow the procedures below to configure the IP device.

- **STEP1:** Open a browser
- **STEP2:** Enter the IP address of the IP device.

The default IP address is “192.168.0.100”

The “Login Page” is now displayed as below.





- **STEP3:** Enter the Account name (factory default: Admin) and the Password (factory default: 123456).



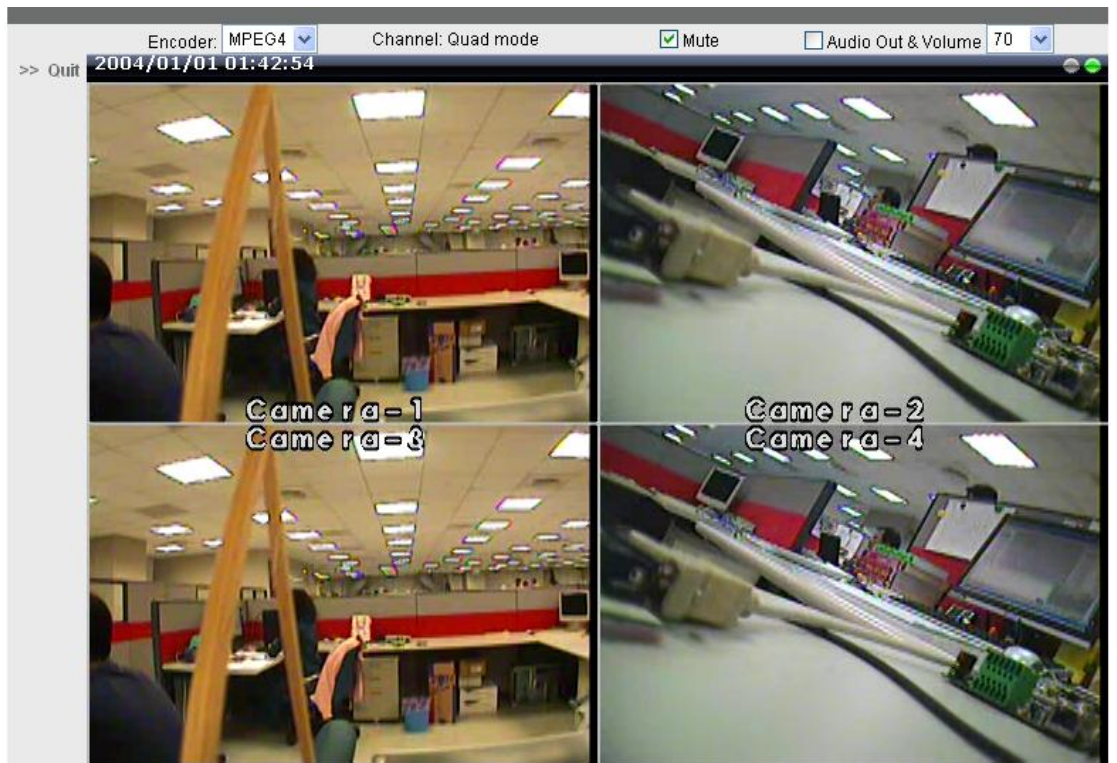
NOTE: Internet Explorer 6.0 or above is highly recommended. You may download it from

<http://www.microsoft.com/windows/ie/downloads/default.msp>

- **STEP4:** Select the language of the IP device user interface. You can select from English, Traditional Chinese, Simplified Chinese, Japanese, Spanish, Italian, German, Portuguese, Czech, French, Finnish, Hungarian and Danish. This user interface setting will disappear once you log out, if you want to change the default user interface language, please change the setting of [Host setting] after login succeeded.

- **STEP5:** Click the  button to login or click the  button to re-enter again.

Once successfully login, the “Video Display page” will be displayed as below.

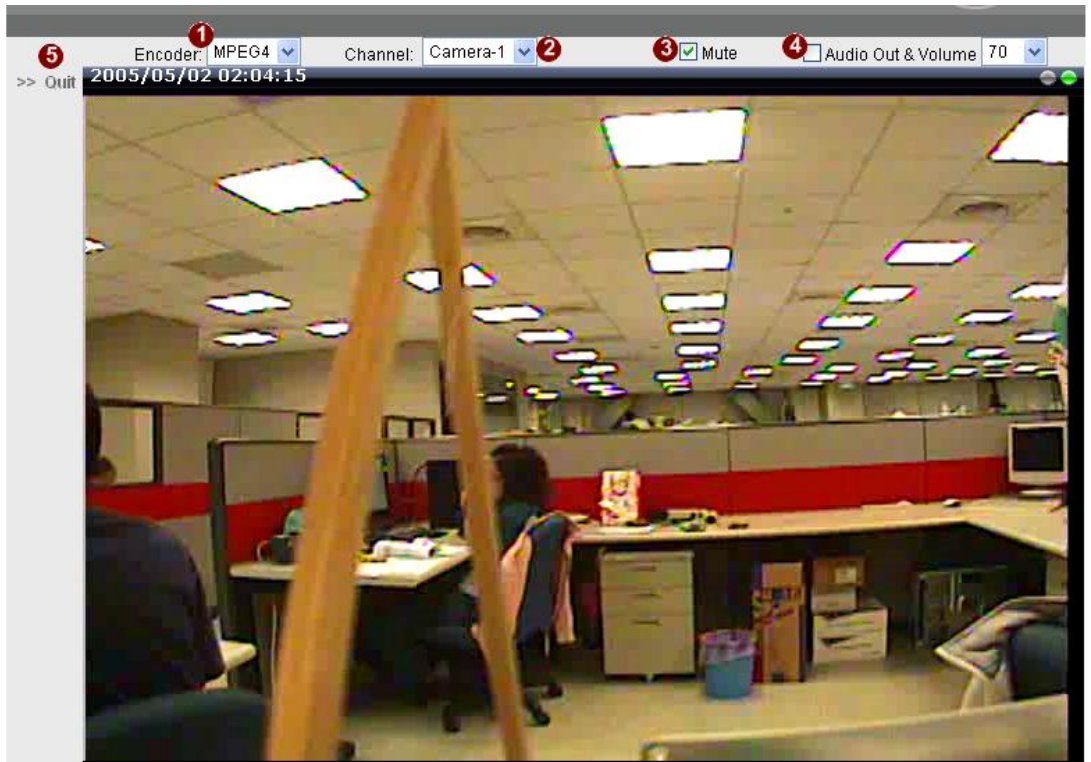


1.3.1 Video Display

This section tells you how to view live images via Internet Explorer.

- **STEP1:** Click the [Video Display] on the “Main Setup page”.

The “Video Display page” is displayed as below.



- **STEP2:** Click the **1** [MPEG4/MJPEG] to select the Compression type. Once selected, the video server/IP camera will start to stream with new compression type.
- **STEP3:** **2** Will display different texts in different modes.
Quad Mode:
Channel: Quad Mode (unselectable).
Single Mode:
Channel: 1~4 (selectable). Click to select the which channel you want to see via web-configurator.
Sequence mode:
Channel: Sequence mode (unselectable). For details for sequence mode, please refer to video setting in later chapter.

- **STEP4:** Check the **3** [Mute] checkbox to mute or un-mute audio from the video server/IP camera.
- **STEP5:** Click the **4** [Audio Out] checkbox to enable/disable audio transmission from this PC to IP device's audio output, and to change the audio out volume. With this function enabled, you can talk to the people at the IP device site.
- **STEP6:** Click the **5**[Quit] to exit the live view and go to “Main Setup page”.



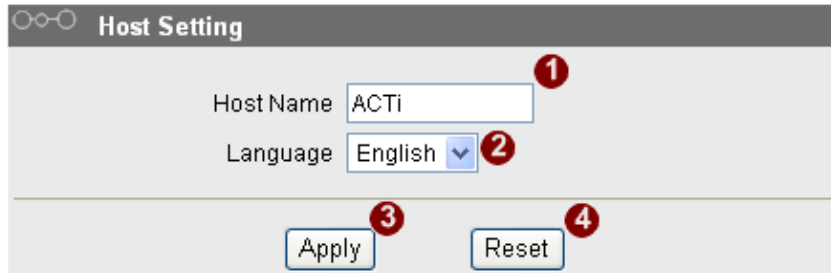
NOTE: For all network router/switches connected to this Camera/Video Server, be sure to use Auto Negotiation as the Network Connections Type. This will enable the whole network to always run at the highest possible speed.

1.3.2 Host Setting

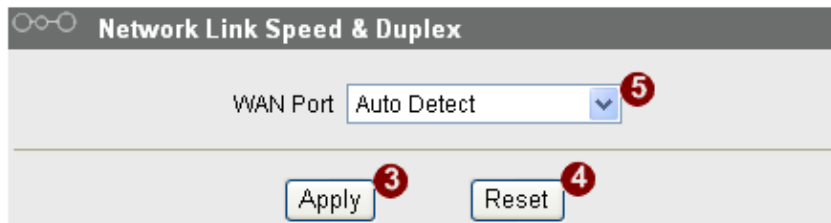
This section tells you how to setup IP device's host settings and LAN settings.

- **STEP1:** Click the [Host Setting] on the “Main Setup page”.

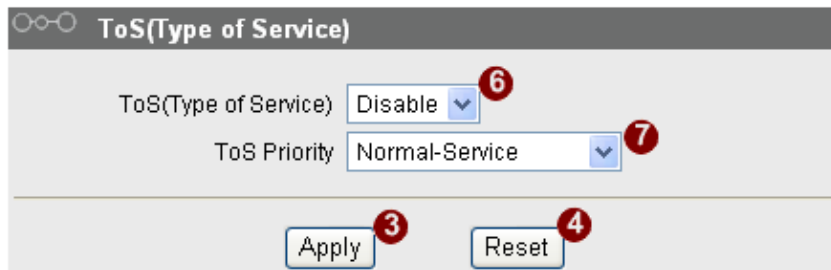
The “Host setting page” is displayed as below.



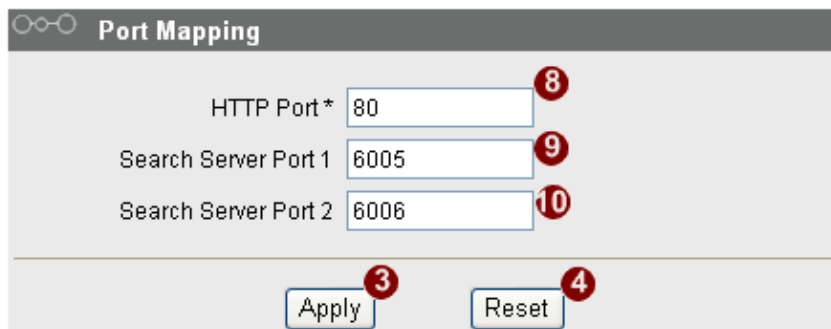
The Host Setting page features a header with three circles and the title "Host Setting". It contains two input fields: "Host Name" with the value "ACTi" and "Language" with a dropdown menu set to "English". Below these fields are two buttons: "Apply" and "Reset". Red circles with numbers 1, 2, 3, and 4 are placed over the Host Name field, Language dropdown, Apply button, and Reset button, respectively.



The Network Link Speed & Duplex page features a header with three circles and the title "Network Link Speed & Duplex". It contains one dropdown menu labeled "WAN Port" with the value "Auto Detect". Below this field are two buttons: "Apply" and "Reset". Red circles with numbers 3, 4, and 5 are placed over the Apply button, Reset button, and WAN Port dropdown, respectively.



The ToS (Type of Service) page features a header with three circles and the title "ToS(Type of Service)". It contains two dropdown menus: "ToS(Type of Service)" with the value "Disable" and "ToS Priority" with the value "Normal-Service". Below these fields are two buttons: "Apply" and "Reset". Red circles with numbers 3, 4, 6, and 7 are placed over the Apply button, Reset button, ToS(Type of Service) dropdown, and ToS Priority dropdown, respectively.



The Port Mapping page features a header with three circles and the title "Port Mapping". It contains three input fields: "HTTP Port *" with the value "80", "Search Server Port 1" with the value "6005", and "Search Server Port 2" with the value "6006". Below these fields are two buttons: "Apply" and "Reset". Red circles with numbers 3, 4, 8, 9, and 10 are placed over the Apply button, Reset button, HTTP Port field, Search Server Port 1 field, and Search Server Port 2 field, respectively.

Setting marked with "*" require user to [Save Reboot] this IP device to save the settings to system. Otherwise, these settings will be lost if the device reboots (might be power lost or others).

- **STEP2:** Configure these settings with reference to the table below. If you are still unsure what to set, contact your system administrator.

■ Host Setting

Parameters	Description
① Host name	Enter a host name, and this host name will be shown when you use the IP utility or the SDK to search for the IP device.
② Language	Select the language of default user-interface. Each user login will see the default user-interface first.

■ Network link speed & duplex

Parameters	Description
⑤ WAN port	This item lets you select the network transmission speed of WAN port. You can select from <ol style="list-style-type: none"> 1. Auto detect (default setting) 2. 100Mbps / Full duplex 3. 100Mbps / Half duplex 4. 10Mbps / Full duplex 5. 10Mbps / Half duplex

■ ToS (Type of Service)

Parameters	Description
⑥ TOS (type of service)	Select whether to add the TOS tag onto the streaming data. Streaming data with a higher priority TOS tag will be transmitted first while compared with other data to be transmitted.
⑦ TOS priority	Select the TOS tag's priority to be added onto the streaming. You can select between <ol style="list-style-type: none"> 1. Normal-Service 2. Minimize-Cost 3. Maximize-Reliability 4. Maximize-throughout 5. Minimize-Delay

■ Port Mapping

Parameters	Description
⑧ HTTP port	Select the port for this IP device to use HTTP protocol.
⑨ Search server port1	Select the port1 for this IP device to support search function of the application program (e.g. IP utility).
⑩ Search server port2	Select the port2 for this IP device to support search function of the application program (e.g. IP utility).

- **STEP3:** Click the ③ [Apply] button of each setting to confirm the settings or click the ④ [Reset] button to re-enter the parameter.



NOTE: For all network router/switches connected to this Camera/Video Server, be sure to use Auto Negotiation as the Network Connections Type. This will enable the whole network to always run at the highest possible speed

1.3.3 WAN Setting

This section tells you how to setup IP device's WAN, DNS server and DDNS server settings.

- **STEP1:**Click the [WAN Setting]. The “WAN setting page” is displayed as below

WAN Setting*

Dynamic IP Address

Use Host Name

Static IP Address

IP Address: 192 . 168 . 0 . 100

Subnet Mask: 255 . 255 . 255 . 0

ISP Gateway: 192 . 168 . 0 . 254

PPPoE

User Name

Password

Apply Reset

DNS Server Setting

Primary DNS Server: 0 . 0 . 0 . 0

Secondary DNS Server: 0 . 0 . 0 . 0

Apply Reset

DDNS Server Setting

DDNS Type: Enable

Service ISP: members.dyndns.org

Host Name

User Name

Password

Apply Reset

- **STEP2:** Configure these settings with reference to the table below. If you are still unsure what to set, contact your system administrator.

■ WAN Setting



Parameters	Description
1 Dynamic IP address	Click this to enable IP device's DHCP function. It will acquire its WAN port IP address from a DHCP server within the same network. (You must have a DHCP server in order to enable this function.)
2 Use Host Name	
3 Static IP address	Click this to manually enter the IP device WAN port IP address. 4 IP address: Enter the WAN port IP address. 5 Subnet mask: Enter the subnet mask of WAN port. If IP address is changed, adjust the subnet mask accordingly. 6 ISP gateway: Enter the IP address of the gateway (the router).
7 PPPoE	Click this when you connect IP device directly to the xDSL modem. 8 User name: Enter the user name of your xDSL account. 9 Password: Enter the password of your xDSL account. Note: You have to click the [Save Reboot] after you click the [Apply button] to let this IP device start xDSL connections.



■ DNS server Setting

Parameters	Description
12 Primary DNS server	Defines the IP address of the primary DNS server. This is used for identifying this computer by name instead of IP address.
13 Secondary DNS server	The IP address of the secondary DNS server. It will be used once the primary DNS server fails.

■ DDNS server Setting

Parameters	Description
14 DDNS type	Click this to enable IP device's DDNS function. DDNS function enables user to connect to this IP device by domain name even if its IP address is not static.
15 Service ISP	Click one of the DDNS service providers. You can visit their website to get a DDNS service account for this IP device.
16 Host name	Enter the host name of your DDNS service account. (ex:

	xxxx.dyndns.org)
 17 User name	Enter the login user name for your DDNS service account.
 18 Password	Enter the login password for your DDNS service account.

- **STEP3:** Click the  [Apply] button for each section to confirm the settings or click the  [Reset] button to re-enter the parameters.



NOTE: Once you finish all settings, be sure to click the [Save Reboot] button. Otherwise, some settings may not take effect.



NOTE: For all network router/switches connected to this Camera/Video Server, be sure to use Auto Negotiation as the Network Connections Type. This will enable the whole network to always run at the highest possible speed.

1.3.4 Date Setting

This section tells you how to setup IP device's date and time settings.

- **STEP1:** Click the [Date Setting] on the “Main Setup page”.

The “Date setting page” is displayed as below

The screenshot shows the 'Date Setting' page with the following elements and callouts:

- 1:** Radio button for 'SNTP/NTP Server' (selected).
- 2:** IP Address input field containing '192.168.0.2'.
- 3:** Sync Time dropdown menu set to '1 Day'.
- 4:** Radio button for 'Set Manually'.
- 5:** Date dropdowns set to '2005 / 1 / 1'.
- 6:** Time dropdowns set to '0 / 0 / 0'.
- 7:** Time Zone dropdown menu set to '(GMT)+00:00(Dublin, Lisbon, London, Reykjavik)'.
- 8:** Check box for 'Day Light Saving' (unchecked).
- 9:** Start Time dropdown menu set to 'Type 1'.
- 10:** Start Time details: 'Mar / Second / Sun / 02:00'.
- 9:** End Time dropdown menu set to 'Type 1'.
- 11:** End Time details: 'Oct / First / Sun / 03:00'.
- 12:** 'Apply' button.
- 13:** 'Reset' button.

- **STEP2:** Configure these settings with reference to the table below. If you are still unsure what to set, contact your system administrator.

■ Date Setting

Parameters	Description
1 SNTP/NTP server	<p>Click this to enable IP device's SNTP/NTP function. SNTP/NTP function enables this video to synchronize its time settings with a SNTP/NTP server. You can use this function to make sure all your IP devices' time is the same. Additionally, with our embedded digital-time-code in the streaming, you can tell the event sequence accurately.</p> <p>2 IP address: Enter the IP address of the SNTP/NTP server.</p>

	3 Sync time: Select the time interval for this IP device to synchronize its time.
4 Set manually	Click this to manually setup the date & time. 5 Date : Select the date 6 Time: Select the time
7 Time zone	Select the time zone offset for local settings
8 Day Light Saving	9 Select Type 1 to specify daylight saving time by week number in a month; select Type 2 to specify daylight saving time by date. 10 Start Time : Select the daylight savings start time. 11 End Time : Select the daylight savings end time.

- **STEP3:** Click the **12** [Apply] button of each setting to confirm the settings or click the **13** [Reset] button to re-enter the parameters.



NOTE: Once you finish all settings, be sure to click the [Save Reboot] button. Otherwise, some settings may not take effect.

Manually set date and time will NOT be kept if device loses power.

1.3.5 Video Setting

This section tells you how to setup IP device's video and streaming settings.

- **STEP1:** Click the [Video Setting] on the “Main Setup page”.

The “Video setting page” is displayed as below

Video Setting

1 Streaming Method RTP Over UDP and Multicast

2 RTSP Port 7070

3 RTSP Authen Enable

4 RTP B2 Frame Enable

Multicast IP (224.3.1.0 ~ 239.255.255.255)

5 Channel 1 228.5.6.1

6 Multicast TTL 16

7 IGMP Disable

8 Video RTP Over Multicast 5000

9 Audio RTP Over Multicast 5002

10 Video Control Port 6001

11 Mode QUAD Mode

12 Audio In Enable

13 Input Sensitivity HIGH

14 Volume 70

15 Resolution 720x480

16 Frame Rate Mode Constant FPS Mode

17 Frame Rate 30

18 Encoder Type MPEG4

19 Video Bitrate Mode Constant Bit Rate

20 Video Maximum Bitrate UNLIMITED

21 Bitrate 3M

22 Serial Port Control 8,None,1



23 Serial Port Baud Rate 9600

Apply 24 Reset 25

■ Video setting

Parameters	Description
① Streaming Method	Select the streaming method 1. TCP only 2. Multicast only 3. RTP Over UDP 4. RTP Over Multicast 5. RTP Over UDP & Multicast
② RTSP Port	Select the port for this IP device to support RTSP
③ RTSP Authen Enable	Checkbox to enable RTP streaming's Account/Password authentication.
④ RTP B2 Frame Enable	Checkbox to enable the B2 frame in RTP streaming
⑤ Multicast IP	Select the multicast IP. Default settings is 228.5.6.1. If mode is select in single mode , please setup multicast IP for each channel.
⑥ Multicast TTL	Select the multicast TTL. Default setting is 255.
⑦ IGMP	Select video type connected to the video-in of this IP device. If you use an incorrect video type, some images might be lost.
⑧ Video RTP Over Multicast	Enable/disable the multicast video streaming via RTP protocol
⑨ Audio RTP Over Multicast	Enable/disable the multicast audio streaming via RTP protocol
⑩ Video Control Port	Select the port for this IP device to support video control function of the application program.
⑪ Mode	Select the operation mode 1. Quad mode: Split screen quad channel 2. Single mode: choose between 4 single channels 3. Sequential mode: CH1->CH2->CH3->CH4->Quad Please refer to below notes for details for each mode.
⑫ Audio	Select enable or disable the audio function.
⑬ Input Sensitivity	Select HIGH or LOW of the audio input sensitivity
⑭ Volume	Select the volume for audio from this PC to IP device.
⑮ Resolution	Select the video resolution of the IP device.
⑯ Frame Rate Mode	Select the video bitrate mode. Constant Bit Rate: The streaming's bitrate remains constant at all conditions. The quality will vary slightly according to amount of motion in scene. Variable Bit Rate:: The streaming bit rate will vary according to the amount of motion and change in the scene to maintain image quality. Video Quality: Select video quality between High, Middle and Low. GoP Length: Number of frames between I Frames.
⑰ Frame Rate	Select the frame rate of the video streaming.
⑱ Encoder Type	Select the encoder's compression type. 1. MPEG4 2. MJPEG

<p>19 Video Bitrates Mode</p>	<p>Select the video bitrate mode. Constant Bit Rate: The streaming's bitrate remains constant at all conditions. Variable Bit Rate: The streaming bit rate will vary according to the amount of motion and change in the scene to maintain image quality.</p>
<p>20 Video Maximum Bitrate</p>	<p>Select the Maximum bitrate of the video streaming. If the bitrate limit is too low, actual frame rate may also be limited. Doing so will also disable Bit Rate setting below.</p>
<p>21 Bitrate</p>	<p>Select the bit rate of the video streaming. You can select from 28Kbps to 6Mbps. Note: Lower bit rate consumes less bandwidth but delivers lower quality images. High bit rate consumes more bandwidth but delivers higher quality images.</p>
<p>22 Serial Port Control</p>	<p>Select the Control setting of serial port.</p>
<p>23 Serial Port Baud Rate</p>	<p>Select the Baud Rate setting of serial port.</p>
<p>Video Streaming Port (TCP Only)</p>	<p>Select the port through which software applications may establish video streaming with this IP device.</p>
<p>Video Multicast Port (Multicast Only)</p>	<p>Select the port for this IP device to support video multicast function of the application program.</p>
<p>Channel Preview Time (Sequence mode only)</p>	<p>Select the display time for each channel preview (in seconds) second. There are five channels to set</p> <ol style="list-style-type: none"> 1. Quad channel 2. Channel 1 3. Channel 2 4. Channel 3 5. Channel 4 <p>Note: When any channel is set to 0, the sequence display on that channel is disabled.</p>

STEP3: Click the  [Apply] button of each setting to confirm the settings or click the  [Reset] button to re-enter the parameters.

Quad Mode:

In Quad view mode, this video server send 1 video stream with Quad display. Camera name and video loss will display with OSD in this mode. Quad mode has 30(NTSC)/25(PAL) fps in all resolution.

Single Mode:

In Single mode, this video server can send independent video stream for each channel (total 4 different streams). No OSD information is available in this mode. The resolution/bitrate/frame rate setting for each channel is the same. Each channel has 7(NTSC)/7(PAL) fps in D1 resolution, and 15(NTSC)/12(PAL) fps in CIF resolution



Sequence Mode:

In Sequence mode, this video server can send 1 video stream contains the sequence display of channels of Quad->CH1->CH2->CH3->CH4. Duration for each channel is deteremined by camera preview time in video setting page.. The preview time can be set from 5~65535. No OSD information is available in this mode.

Motion detection is disabled in sequential mode. The motion detection setup in video adjustment page is disabled in this mode. The total frame rate is 30(NTSC)/25(PAL) fps divided by channels in this sequence.

GOP Length

GOP means the video frames between one completely encoded I frame and other compressed P frames. Normally the GOP length is equal to number of frames in one second. Using longer GOP length may save you bandwidth and storage, at a slight risk of losing the later part of one GOP if the network dropped one frame before video refreshes. Long GOP is available only in Constant FPS mode and variable Bit rate under MPEG4.

Frame Rate Mode

 Frame Rate

 Encoder Type

 Video Bitrate Mode

 Video Quality

 GOP Length [0~60, 0: one I frame in a second]

1.3.6 Video Adjustment

This section tells you how to adjust the streaming video.

- **STEP1:** Click the [Video Adjust] on the “Main Setup page”.

The “Video adjust page” is displayed as below

The screenshot displays the 'Video Adjustment' interface. At the top, it shows the ACTi logo and 'Web Configurator'. The main area is divided into a video feed and a control panel. The video feed shows four camera channels (Camera-1 to Camera-4) with red bounding boxes indicating motion detection. The control panel includes a 'Channel' dropdown set to 'Quad mode', a 'Motion Enable' checkbox which is checked, and a table for adjusting camera settings. The table has columns for Channel, Camera Name, Brightness, Saturation, Contrast, Motion Enable, Sensitivity, and Trigger Interval. Below the table, there are checkboxes for 'OSD Enable' with sub-options for 'Camera Name' and 'Video Lost'.

Channel	Camera Name	Brightness	Saturation	Contrast	Motion Enable	Sensitivity	Trigger Interval
1	Camera-1	61	85	50	<input type="checkbox"/>	70	1
2	Camera-2	61	85	50	<input checked="" type="checkbox"/>	70	1
3	Camera-3	61	85	50	<input checked="" type="checkbox"/>	70	1
4	Camera-4	61	85	50	<input type="checkbox"/>	70	1

- **STEP2:** Set the **3** checkbox to enable motion detection function, then motion detection will enter the setup mode. If motion detection is already enabled, please click **4** button to enter setup mode.
- **STEP3:** Click **2** to change Channel number when operating in **single mde (mode is set in “Video setting” page)**. It is not changeable in Quad mode.
- **STEP4** Click the **11** checkbox to enable motion detection for each

channel.

- **STEP5** Adjust the video display by changing the value of **8** “Brightness”, **9** “Saturation” and **10** “Contrast”. Refer to live image to select the best setting.
- **STEP6** Set the **12** sensitivity of motion detection channel.
- **STEP7** Set the **13** interval time of motion detection. . Within the interval time after the motion event is triggered, no further motion event will be triggered.
- **STEP8:**Click **5** button to use the new setting. The MD region will be highlighted in bold red frame if motion detection is triggered.
- **STEP9** Click **14** to enable OSD camera name. Only Quad mode is able to show camera name with OSD. Click **15** to enable OSD video loss message.



NOTE: Once you finish all settings, be sure to click the [Save Reboot] button. Otherwise, some settings may not take effect.



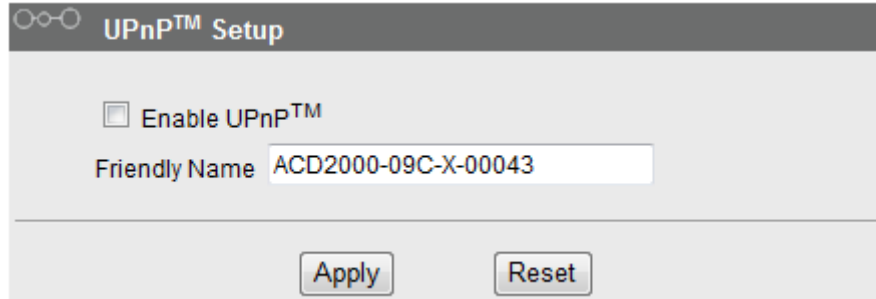
Single mode:

Each channel has only one motion detection region. Please enable the respective motion detection region after selecting the channel number.

1.3.7 Security Setting

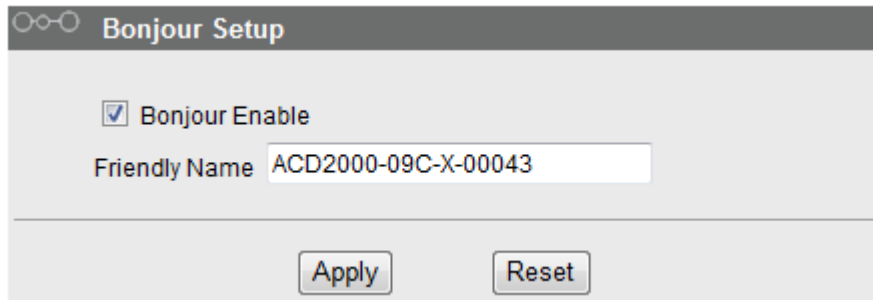
This section tells you how to setup the security page.

- Click the [Security] on the “Main Setup page”. There are three sections in Security page: UPnP, Bonjour and IP Filter.



The screenshot shows a window titled "UPnP™ Setup". It contains a checkbox labeled "Enable UPnP™" which is currently unchecked. Below the checkbox is a text field labeled "Friendly Name" containing the value "ACD2000-09C-X-00043". At the bottom of the window are two buttons: "Apply" and "Reset".

- For UPnP, check the Enable UPnP checkbox to enable UPnP. This will allow your quad server to be found on the local network in Windows Explorer -> network section. You may also identify this device by changing the friendly name.



The screenshot shows a window titled "Bonjour Setup". It contains a checkbox labeled "Bonjour Enable" which is currently checked. Below the checkbox is a text field labeled "Friendly Name" containing the value "ACD2000-09C-X-00043". At the bottom of the window are two buttons: "Apply" and "Reset".

- Enable Bonjour by checking the checkbox. You may also enter the Friendly name in the text field. Click Apply to confirm or Reset to re-enter settings.

IP Filter

Enable IP address filtering.

DROP the following IP addresses.

Filtered IP Addresses

ID	IP	Netmask	Enable
1	0.0.0.0	0.0.0.0	<input type="checkbox"/>
2	0.0.0.0	0.0.0.0	<input type="checkbox"/>
3	0.0.0.0	0.0.0.0	<input type="checkbox"/>
4	0.0.0.0	0.0.0.0	<input type="checkbox"/>
5	0.0.0.0	0.0.0.0	<input type="checkbox"/>
6	0.0.0.0	0.0.0.0	<input type="checkbox"/>
7	0.0.0.0	0.0.0.0	<input type="checkbox"/>
8	0.0.0.0	0.0.0.0	<input type="checkbox"/>
9	0.0.0.0	0.0.0.0	<input type="checkbox"/>
10	0.0.0.0	0.0.0.0	<input type="checkbox"/>
11	0.0.0.0	0.0.0.0	<input type="checkbox"/>
12	0.0.0.0	0.0.0.0	<input type="checkbox"/>
13	0.0.0.0	0.0.0.0	<input type="checkbox"/>
14	0.0.0.0	0.0.0.0	<input type="checkbox"/>
15	0.0.0.0	0.0.0.0	<input type="checkbox"/>
16	0.0.0.0	0.0.0.0	<input type="checkbox"/>

- Check the Enable IP Address Filtering checkbox to enable / disable IP Filtering.
- Select from the dropdownlist to set filter in either “Allow” mode or “Drop” mode.
 - “Allow” mode will refuse access to all IP addresses except the ones listed below.
 - “Drop” mode will accept all incoming access except the IP addresses listed below.

Make sure you include the Netmask in your consideration.

- **Enable:** For each entry, you must check this box for it to be effective. For an entry that you no longer need but does not wish to delete, you can uncheck it, and the system will remember it for future use. If a new entry that has never been used before does not have Enable checked, then it will not be stored in memory.
- Click the [Apply] button of each setting to confirm the settings or click the [Reset] button to re-enter the parameters.

WARNING: Please be very careful when using this function, as you may lose access to your camera if you make mistakes in setup. You may either accidentally deny yourself access, or forgot to include your own IP address in the allowed address list. You will need to perform hard reset to be able to access the device again.



NOTE: Once you finish all settings, be sure to click the [Save Reboot] button. Otherwise, some settings may not take effect.

1.3.8 User Account Management

This section tells you how to setup the accounts.

- **STEP1:** Click the [User account] on the “Main Setup page”.

The “Account management page” is displayed as below

	Account	Password
1	Root	Admin 123456
2	User 1	
	User 2	
	User 3	
	User 4	
	User 5	
	User 6	
	User 7	
	User 8	
	User 9	
	User 10	

Apply 3 Reset 4

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- **STEP2:** Setup the account names and their respective passwords.
There are 1 root (administrator) account and 10 common user accounts. Administrator account allows the user to watch the live view and setup everything; but common user account allows user only to watch the live image.
- **STEP3:** Click the 3 [Apply] button of each setting to confirm the settings or click the 4 [Reset] button to re-enter the parameters.



NOTE: Once you finish all settings, be sure to click the [Save Reboot] button. Otherwise, some settings may not take effect.

1.3.9 System Info

This section tells you how to see the system information of this IP device, including firmware version, MAC address, Product ID, WAN status and system log.

- **STEP1:** Click the [System info] on the “Main Setup page”.

The “System information page” is displayed as below

The screenshot shows the ACTi Web Configurator interface. The header is red with the ACTi logo and 'Web Configurator' text. A left sidebar contains navigation options: >> Video Display, >> Host Setting, >> WAN Setting, >> Date Setting, >> Video Setting, >> Video Adjust, >> User Account, >> Security, >> System Info, >> Firmware, >> Factory Default, >> Save Reboot, >> Logout. The main content area is titled 'System Information' and contains four sections: 1. System Information: Firmware Version = A4Q-220-V3.00.0F-AC, MAC Address = 00:0F:7C:A9:73:DF, Production ID = ACD2000-09K-X-00018, Factory Default Type = Two Ways Audio (0x71), Company Name = ACTi Corporation, WEB Site = www.acti.com. 2. WAN Status: IP Address : 172.16.3.15, Netmask : 255.255.255.0, Gateway : 172.16.3.253, DNS Server : 172.16.5.19 172.16.22.19 168.95.1.1, DDNS Host : WAN Connect Status : Connect, DNS Connect Status : Connect, DDNS Connect Status : Disconnect. 3. System Log: Start loading OEM Config File ..., Read OEM Config File, Load OEM Config File Done!, Start loading SYS File ..., Not found SYS Config File, load default SYS Config!!, Load SYS File Done!, WAN speed = 0, Starting Modules Manager, HOSTNAME=ACTI, Starting DNS Manager. 4. Config File: Get device parameters and current settings. Parameter List button, Always attach the server report when contacting your support channel. Server Report button. A red footer contains the copyright notice: Copyright@2003-2008 ACTI Corporation All Right Reserved.

- **STEP2:** View the information at the three columns. This information is very useful to understand the IP device status and to resolve any problem that might occur.

■ System info

Column	Description
1 System info	It shows the firmware version, MAC address, production ID, and factory default type of IP device.
2 WAN status	It shows the WAN port's IP address, netmask, gateway, DNS server, and DDNS host and connection status.
3 System log	It shows the system event. This column is very useful to as a diagnostic tool.

- **STEP3:** Click 4 [Parameter List] where you may see all configurations of the IP device.
- **STEP4:** Click 5 [Server Report] to export related information of the IP device while reporting a support to your support channel.

1.3.10 Firmware Upgrade

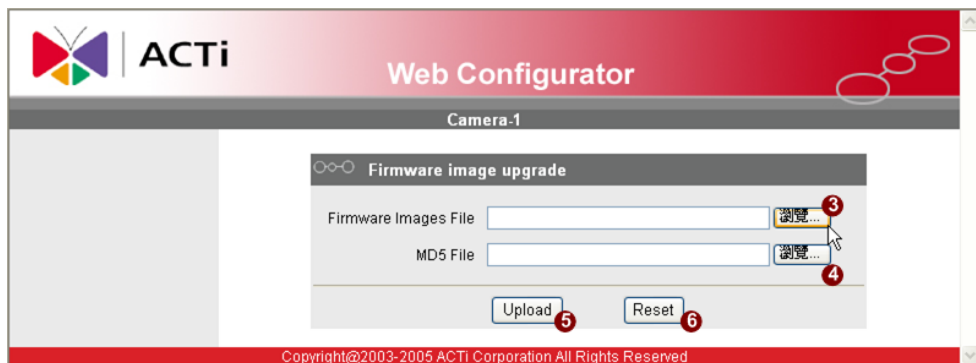
This section tells you how to update IP device’s firmware. You can always visit our web site for the latest firmware.

- **STEP1:** Click the [Firmware] on the “Main Setup page”.

The “Firmware upgrade page-1” is displayed as below




- **STEP2:** Click **1** [Apply] button. The “firmware upgrade page-2” will be displayed as below.



■ Date Setting

Parameters	Description
3 Firmware images file	You can upload the firmware images here. Click the [browse] to select the an image file and click the

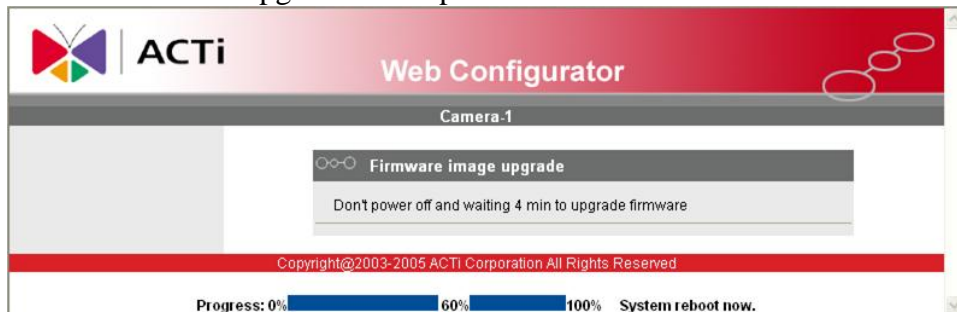
	[enter]. You can always get the latest version at our website.
4 MD5 file	You can upload the MD5 file here. Click the [browse] to select an MD5 file and click the [enter]. You can always get the latest version at our website.

 **NOTE:** The version of the firmware image and the MD5 file to be uploaded must be the same, otherwise, the firmware upgrading will fail and the IP device will continue using previous firmware version.

- **STEP3:** Click the **5** [Upload] button to start upgrading or click the [Reset] to re-select the files.
- **STEP4:** The upgrade process window shows a progress bar indicating upgrade status.



- **STEP5:** The upgrade is completed and the device will reboot now.

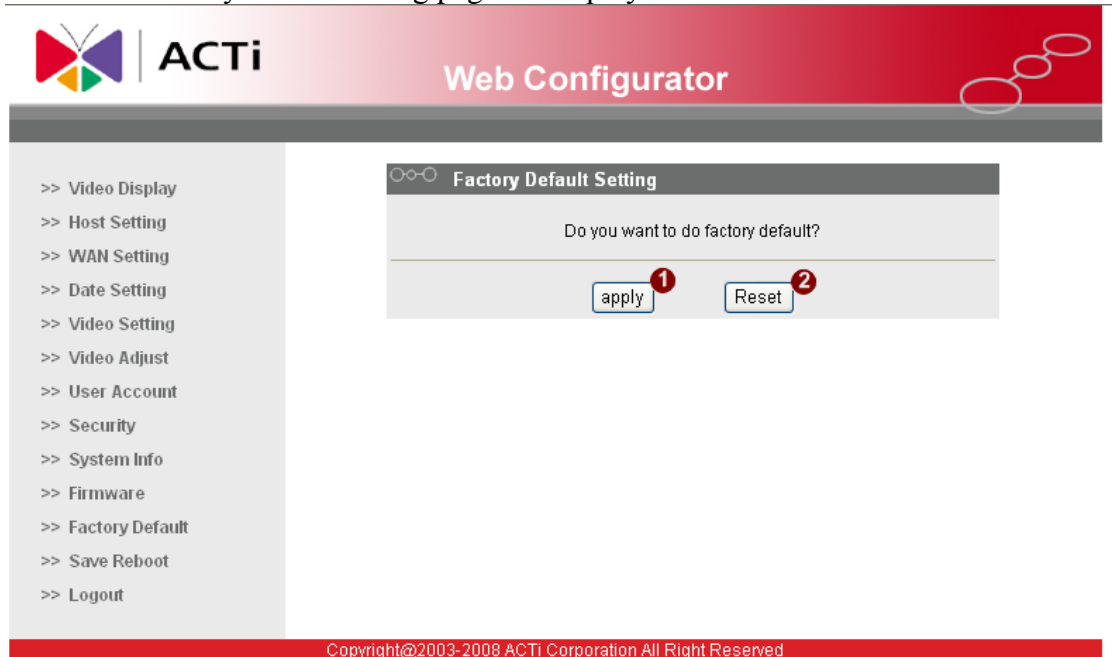


1.3.11 Factory Default

This section tells you how to load IP device's factory default setting.

- **STEP1:** Click the [Factory Default] on the “Main Setup page”.

The “Factory default setting page” is displayed as below



- **STEP2:** Click the [Apply] button to load default or click the [Reset] button to exit to previous page.
- **STEP3:** A confirmation page will be displayed. Click the [Save Reboot] button to start loading factory default settings.

1.3.12 Save Reboot

This section tells you how to save all the settings and reboot this IP device. This is critical because some settings might not take effect before save and reboot.

- **STEP1:** Click the [Save and reboot] on the “Main Setup page”.

The “Save and reboot page” is displayed as below.



- **STEP2:** The Action LED indicator will light down to indicate that the IP device is rebooting. After around 30 seconds, the Action LED will light up again to indicate that the reboot is completed.

1.3.13 Logout

This section tells you how to logout the IP device. Be sure to logout this IP device once your setting is completed.

- **STEP1:** Click the [Logout] on the “Main Setup page”.

You will logout and return to the “Login Page” displayed as below.

