

IP-004S

MISUMI Video Server Products Series

User Manual & Installation Guide

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1. Product Overview

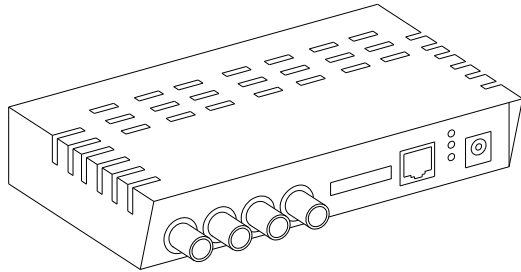
What is MISUMI Video Server?

MISUMI Video Server is designed for intranet & internet use. Users can view image or change configurations via built-in web server. The two-layer user-validation prevents any illegal user to monitor or change configuration once user validation is enabled

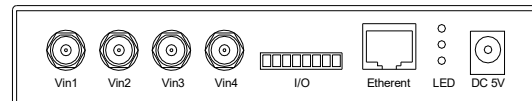
Product Features

MISUMI Video Server	CPU: 32 Bits RISC Processor. 16Mb Flash, 64Mb SDRAM Linux OS TCP/IP network remote Video transmission system High performance JPEG/MJPEG compression Built-in Web sever Built-in DHCP Built-in Motion Detection 1~4 external composite video input Frame Rate Control Adjustable transmission bandwidth Administrator / User level password protection Real-time event notifications On-line firmware upgrade Frame Rate: 1 channel input : 30 frame/sec 4 channel input : 22 frame/sec
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2. Physical Connections



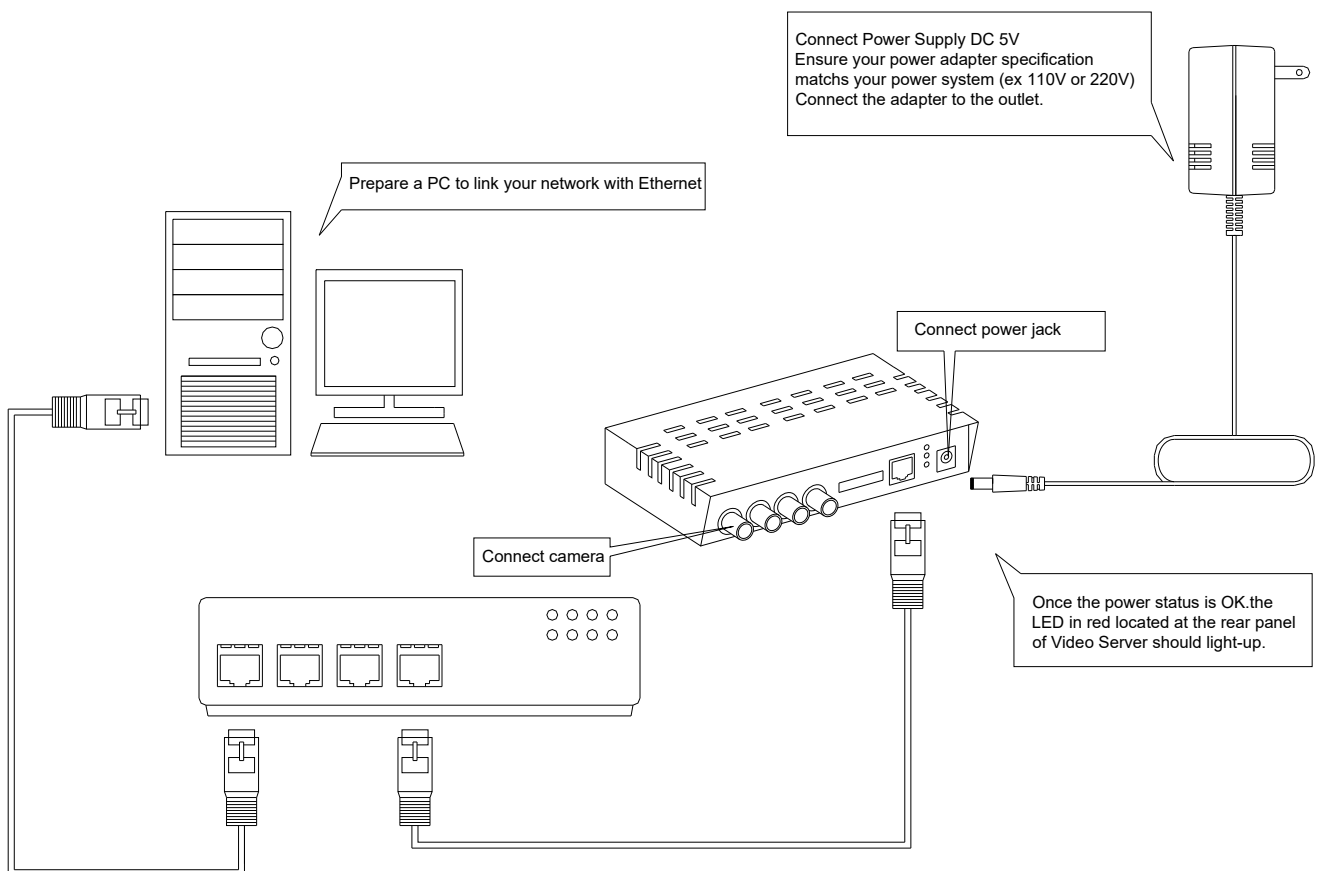
Side Panel Connections



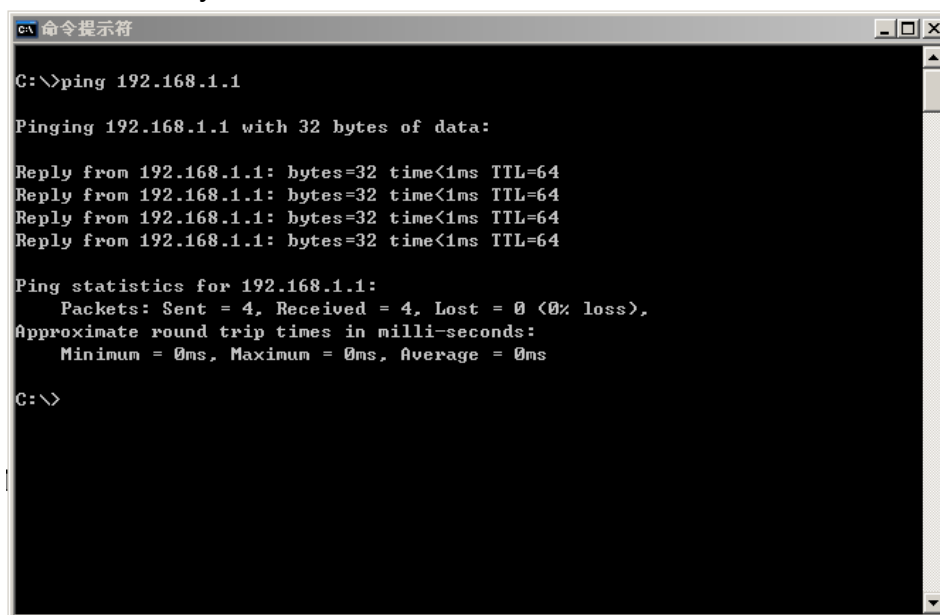
Front Panel Connections

IP-004S

3. Installation



Network connectivity check



```
命令提示符
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Please check your network connectivity before you start install the product. Confirm the link status of your LAN is OK. You may try use the following way to check the network.

Assuming you are under Microsoft Windows 2000 desktop, Click on Start button, Programs, Accessories, Command Prompt . Then there will be a blank window appear to wait command input. Please key in the following command to test the network status.

C:\>ping 192.168.1.1 [Enter]

***Note:** the target IP address given above may be correct in common scenarios, if your network is not configured by IP segment 192.168.1.x, please change the IP Address to a valid address in your local network. Any difficulties please contact your network administrator for assistance.

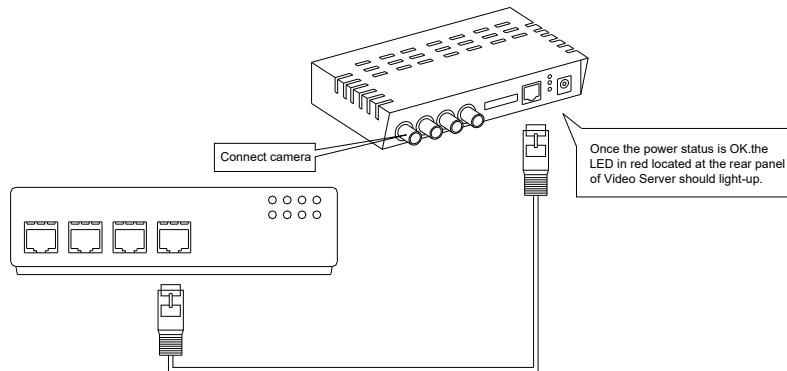
If your network status is OK, the result of above command should like following

Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1 bytes=32 time=10ms TTL=64

...

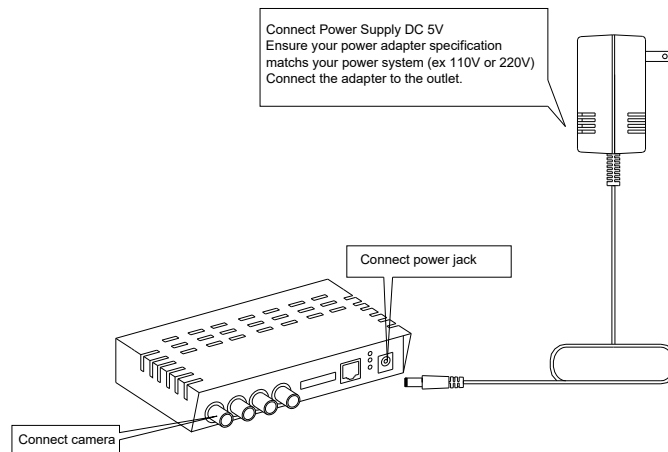
If you have confirmed your network connectivity is OK, Please proceed to next part of installation guide, otherwise, contact your network administrator to recover the problem.

Connect Video Server to network



Connect Video Server to your hub/switch by using a normal RJ45 cable, plug the RJ45 cable into the Ethernet connector located at the rear panel of the Video Server, another side connect to your hub/switch.

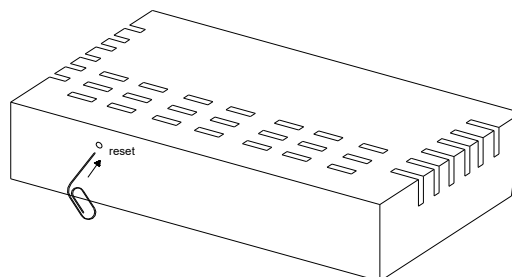
Connect Power Supply



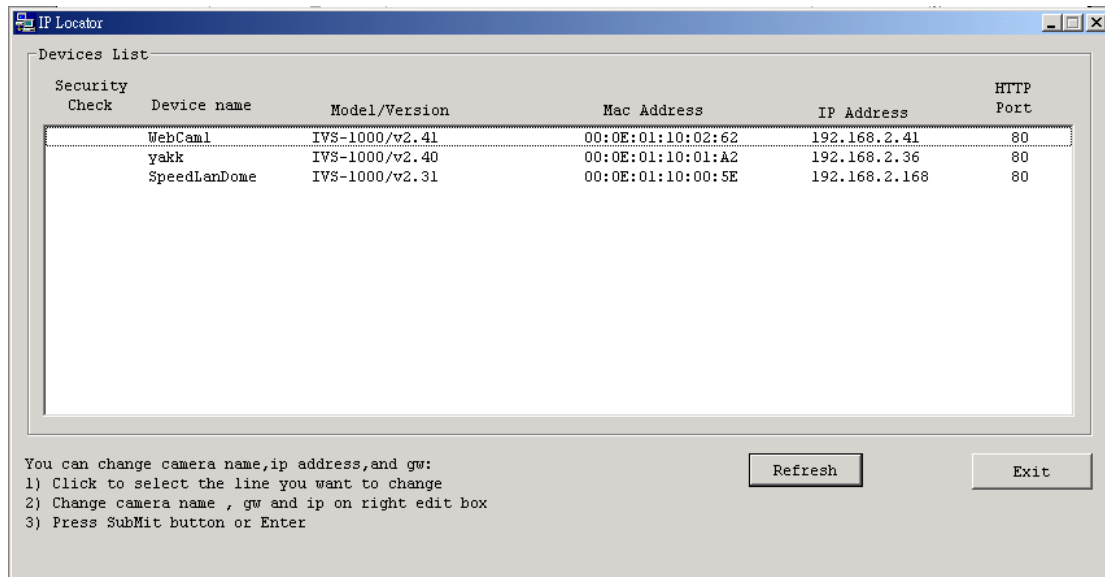
Connect the Video Server and power source with the adapter provided, plug the power adapter into the DC 5V Connector. Once the power status is OK, the LED in red located at the rear panel of Video Server should light-up.

How to reset

Load Video Server Default Settings



Start your first time network monitoring



Run the “IPLocator” utility, the newly connected Video Server will be listed in the application window. Please remember its’ IP address.

Open an Internet Explorer Window input the following address into the address textbox:

[http://\[Video Server IP Address provided by IPLocator\]](http://[Video Server IP Address provided by IPLocator])

After you press on the enter key, the main working interface and video picked by the camera should appear after a short period. The installation steps are completed. You may now start your first network monitoring experience.

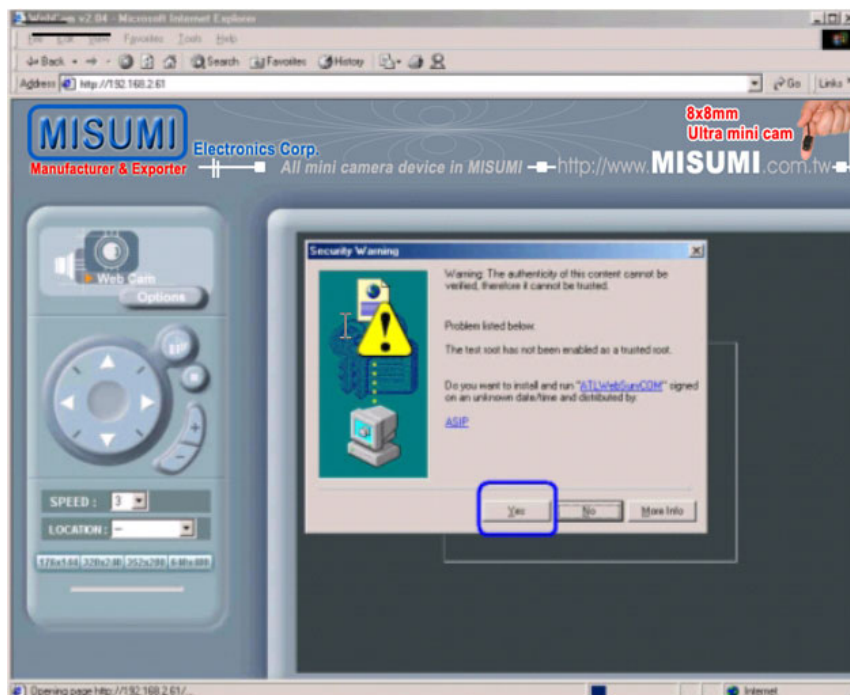
Note: when you first time enter the working interface, the browser may ask whether to install a COMWebSurv component, which is used to communicate with our Video Server product, PLEASE CHOOSE YES to install, otherwise the monitoring function may not work.

How to visit the built-in web

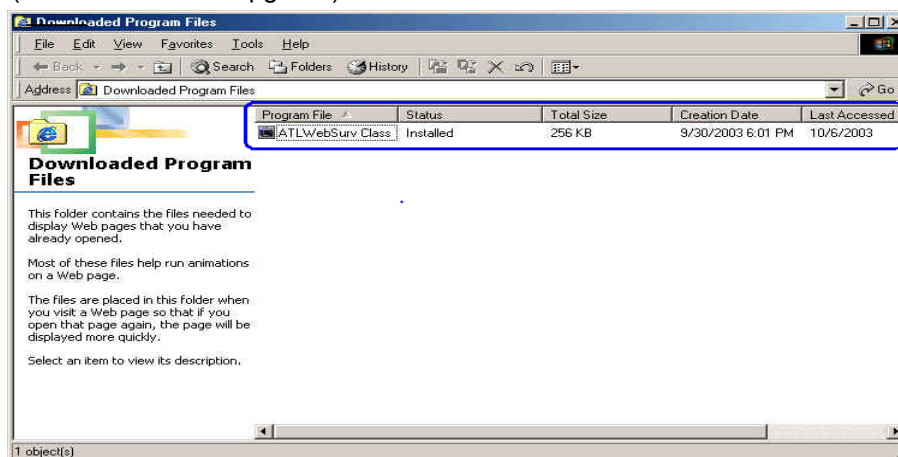
Launch your Internet Explorer (I.E. 6.0 or above) first, then type the Video Server's url. (i.e. <http://192.168.1.100>). The user validation is disabled as default, no login is necessary. The user is same as the system administrator(Default : root/pass).

For the first time user visits the Video Server, the ActiveX(ATLWebSurvCOM) will be downloaded to the **[Downloaded Program File]**. Be sure to click the button **[Yes]** as below.

Notes: Call your system administrator if you have not enough privilege to download the ActiveX. (i.e. Users should be the administrator to download the ActiveX for Windows 2000/XP operation system)

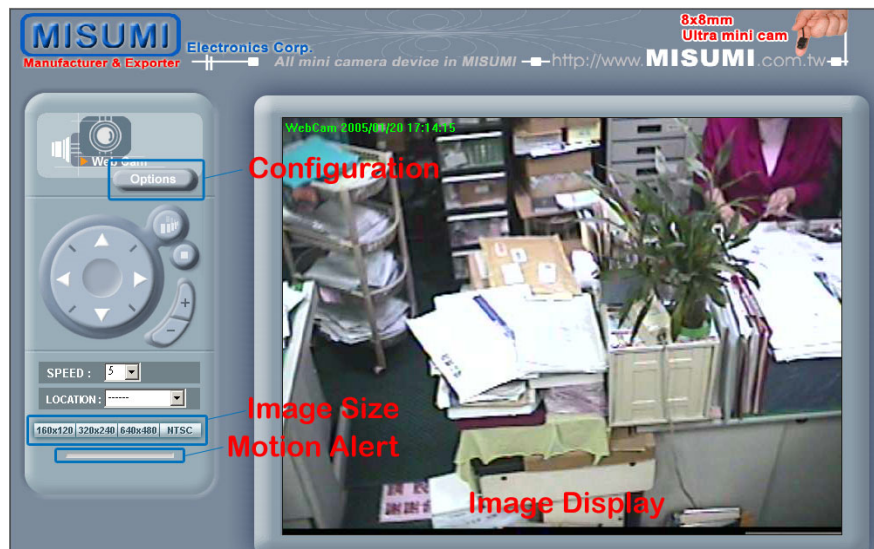


You can find the ActiveX ATLWebSurvCOM will be downloaded to the **[Downloaded Program File]** folder. The above dialog will pop automatically once new ActiveX is available(i.e. after firmware upgrade)



About the User Interface of Video Server

The upper window is for company logo display (i.e. This is a generic version. The company logo leaves blank). The left side of the window is the control panel. The right window is for image display. (Please switch to full screen mode when the resolution is set to VGA mode)



How to check the firmware version

Click the WebCam icon and you will read the firmware version



How to change the configurations

The system administrator: root is the one who has the privilege to change system configuration if user validation is enabled. The following window will appear when you click [Options] icon in the control panel (left side of the window). The follow is the description & field definition.

[System]:

Server Info: Server Model and Firmware Version

Device Name: the name of hardware device.

Video Mode: Video Mode (NTSC or PAL)

Time Zone: Time Zone Setting

Display Option

Show Camera Name: Show Camera Name on Display

Show Date Time: Show Date Time on display

Traffic Control: Bandwidth Setting

Others

Load default configuration: Load the factory default.

Reboot: Reboot the hardware remotely.

Firmware Upgrade : Upload & upgrade the Video Server firmware.

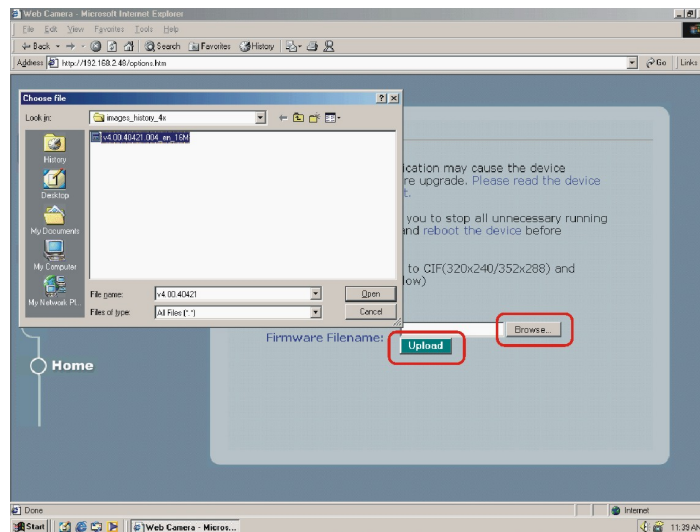
The screenshot displays the 'Options' menu of the MISUMI Video Server. The 'System' option is selected and highlighted with a red box. The main content area shows the 'System Setting' configuration page. It includes fields for 'Device Name' (set to 'WebCam'), 'Video Mode' (set to 'NTSC'), and 'Time Zone' (set to '[GMT+08:00] Taipei'). There are 'Submit' buttons for each of these fields. Below these are sections for 'Display Option' (with checkboxes for 'Show Camera Name' and 'Show Date Time'), 'Traffic Control' (with radio buttons for 'Unlimited' and 'Bandwidth', and a text input for 'Image delay' set to '0 msec'), and 'Others' (with links for 'Load default configuration', 'Reboot', and 'Firmware Upgrade'). The 'Firmware Upgrade' link is highlighted with a red box.

[Firmware Upgrade]: Please follow the standard procedure to upgrade firmware.

Step 0: Stop all unnecessary running application in your PC.

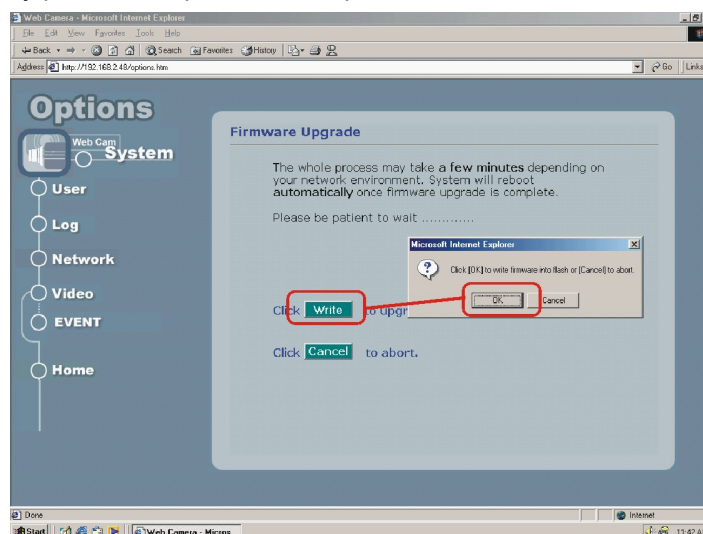
Step 1: Uncheck the **[Browse..]** and **[Upload]** motion images in the Motion Detection Setting and reboot the hardware. **Note: You have to make all event setting to be disable, before you do this step.**

Step 2: Upload the firmware: Be sure to upload the correct firmware. Wrong firmware may cause your Video Server malfunction. It's possible to take a few minutes to upload the firmware into memory depending on the network environment. Since too many unknown situation may occur in the Internet, we strongly recommend you to upgrade firmware in the Intranet.



Step 3: Write firmware to your Video Server. It will take a few minutes to write firmware into flash. The Video Server will reboot automatically when writing firmware is complete. Please DO NOT reboot the device manually.

Note: Any interrupt during writing will cause the Video Server malfunction. The UPS may prevent the power failure problem.



How to change User Logo

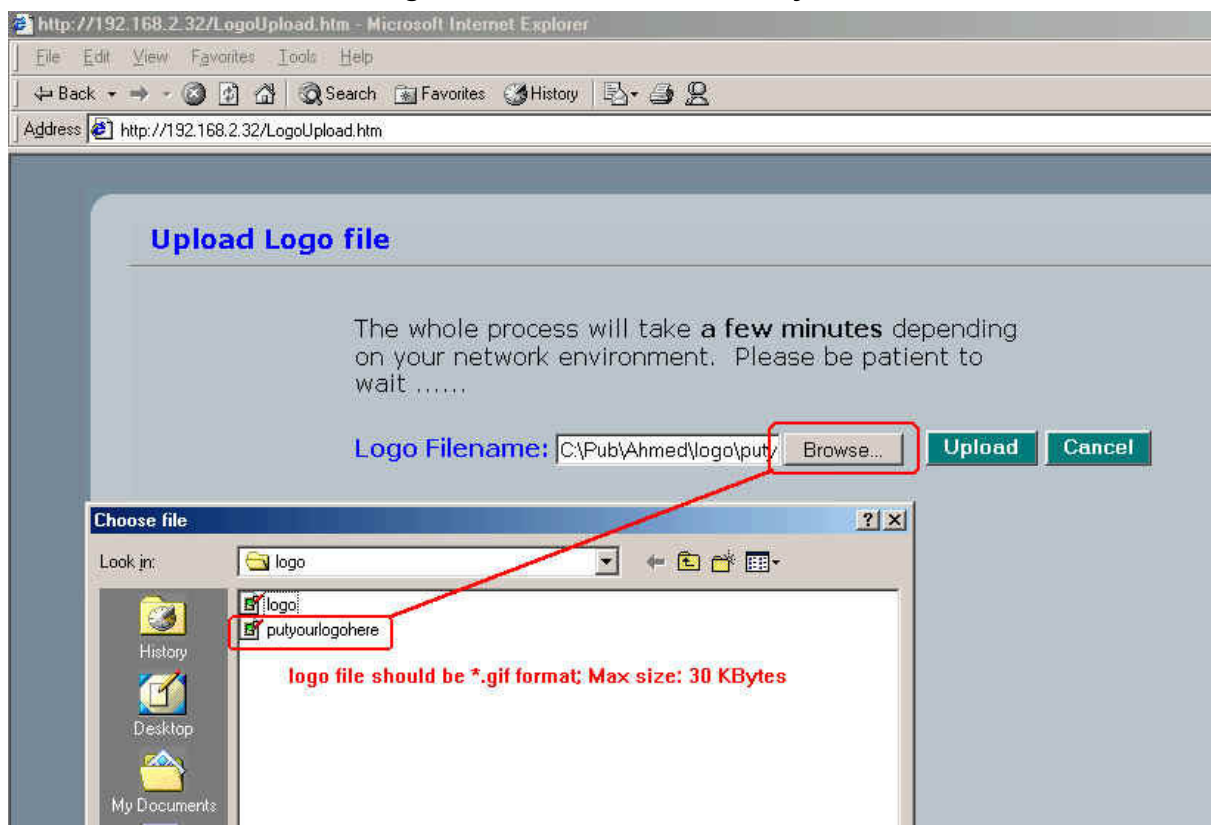
We allow you to use your own logo from version v3.0. User logo will not be erased when you upgrade firmware in the future. The detailed procedures are as follows:

Step1: Type <http://Video ServerIP/LogoUpload.htm>

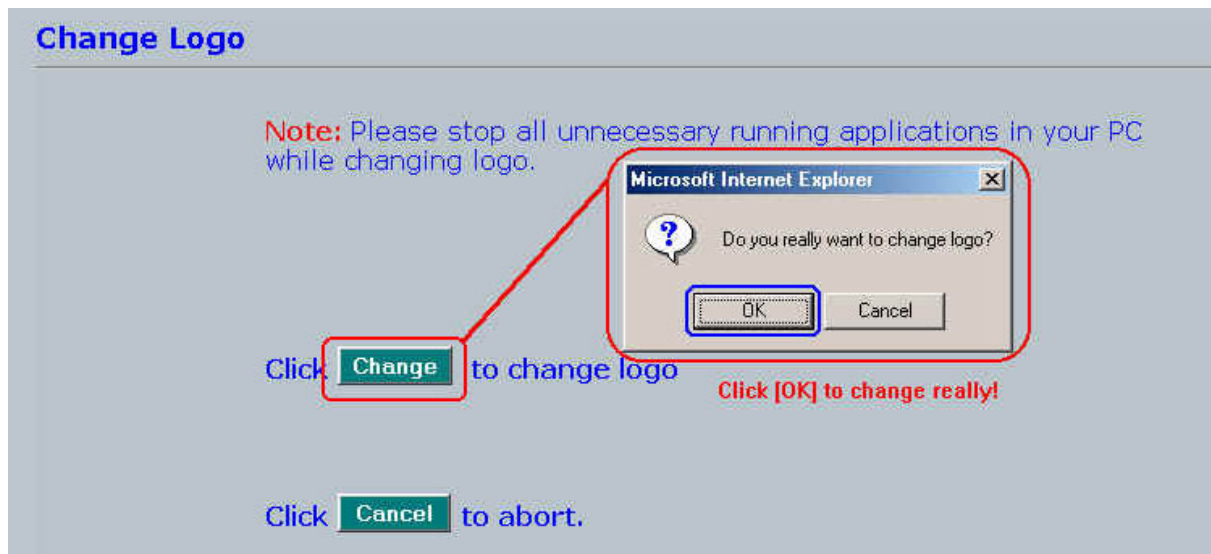


Step 2: Browser the logo file to use and upload to upload it.

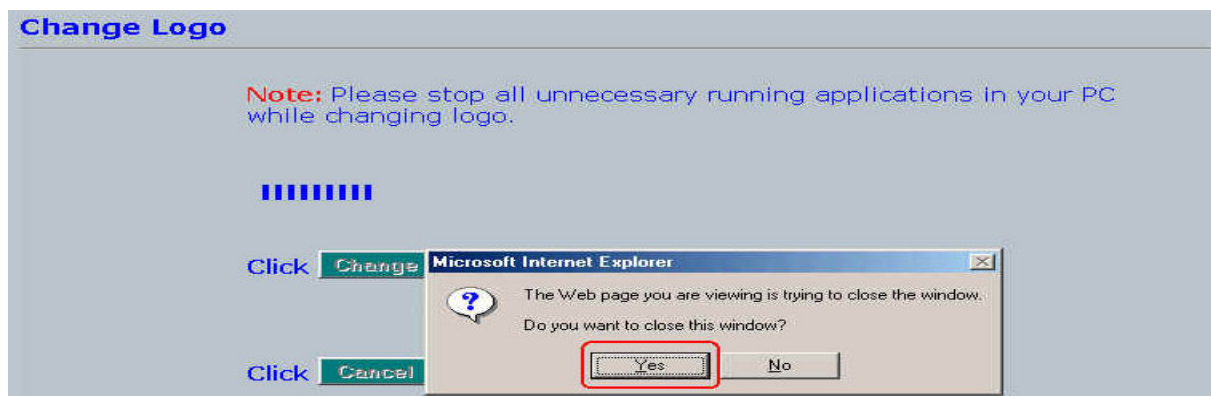
Note: The file format must be gif and the max size is 30 K bytes.



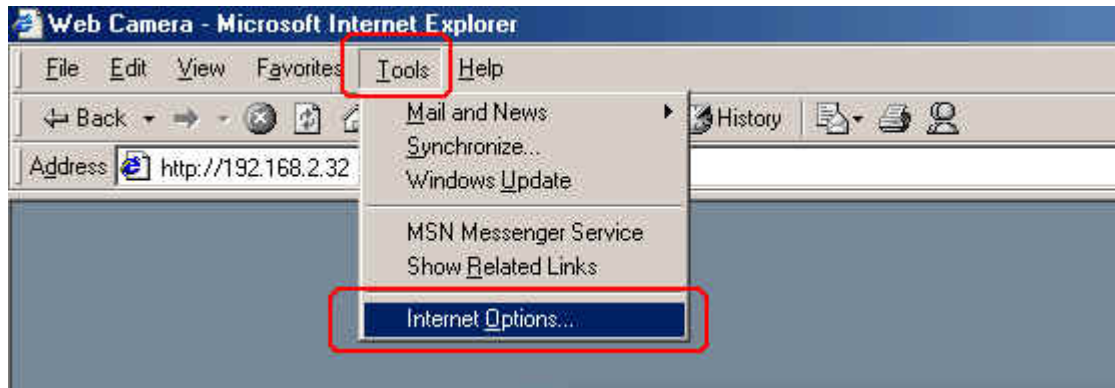
Step 3: Click [Change] button to write logo file into flash memory.



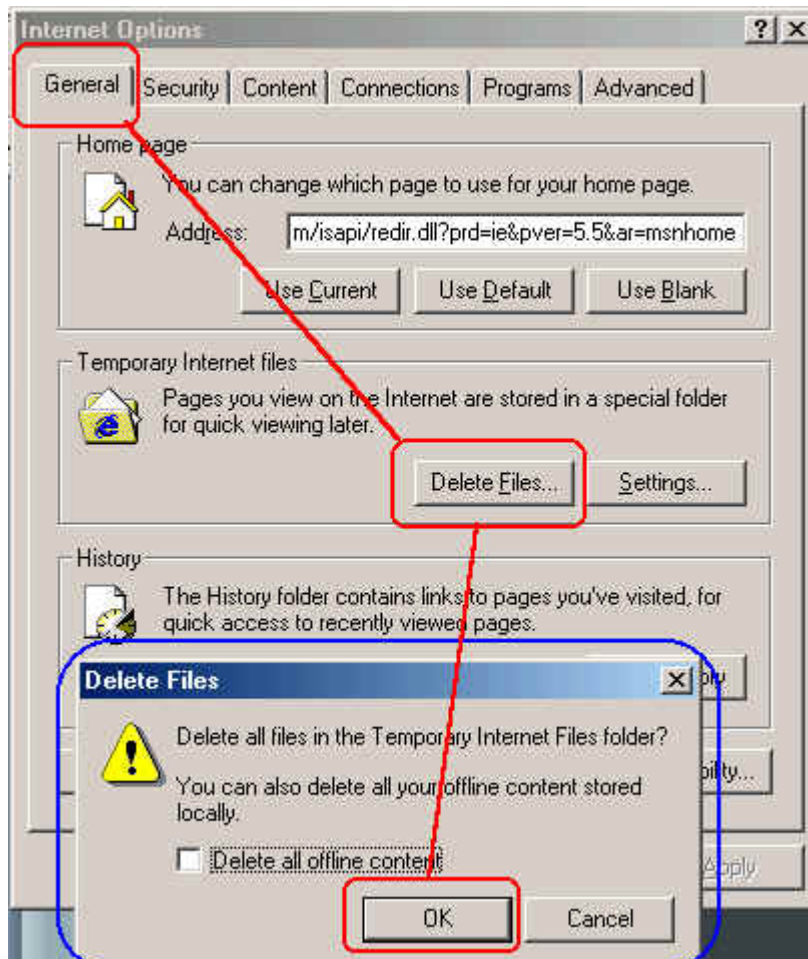
Step 4: Reboot Video Server once ChangeLogo is complete.



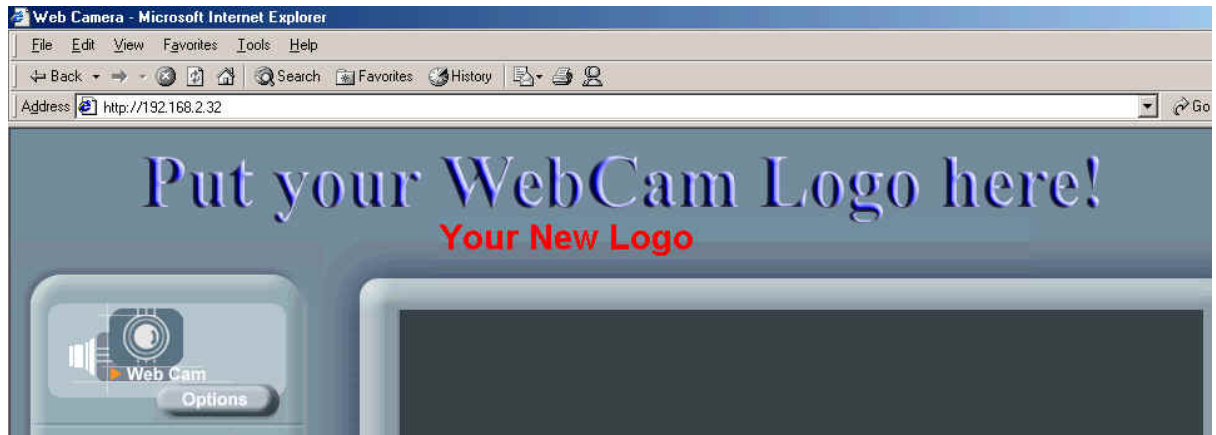
Step 5: You have to clear the [Temporary Internet files] to take changes effect since there is always some catch in the I.E. Please click [Tools] [Internet Options..] on the top bar.



Step 6: Clear [Temporary Internet files] as follows.

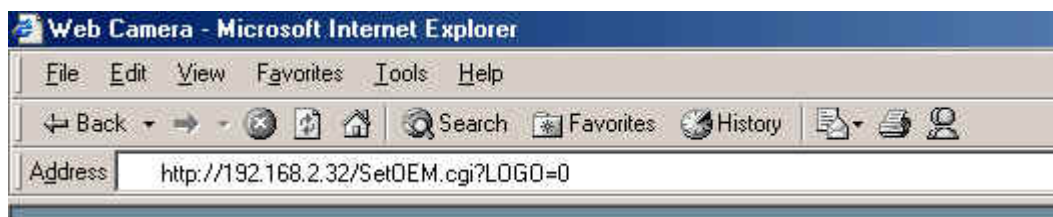


Step 7: Refresh I.E. (Click F5) to take changes effect. You will see you new logo below.



How to disable and enable user logo

Type: <http://Video ServerIP/SetOEM.cgi?LOGO=0> to turn off the user logo



or <http://Video ServerIP/SetOEM.cgi?LOGO=1> to turn on the user logo

User Management

The administrator(root) has the privilege to manage users if User Validation is enabled. Here are the configurations available & field definition.

[User]:

User validation

Yes : Enable user check

No : Disable user check

Add/Modify User: To create new user or modify existing user password

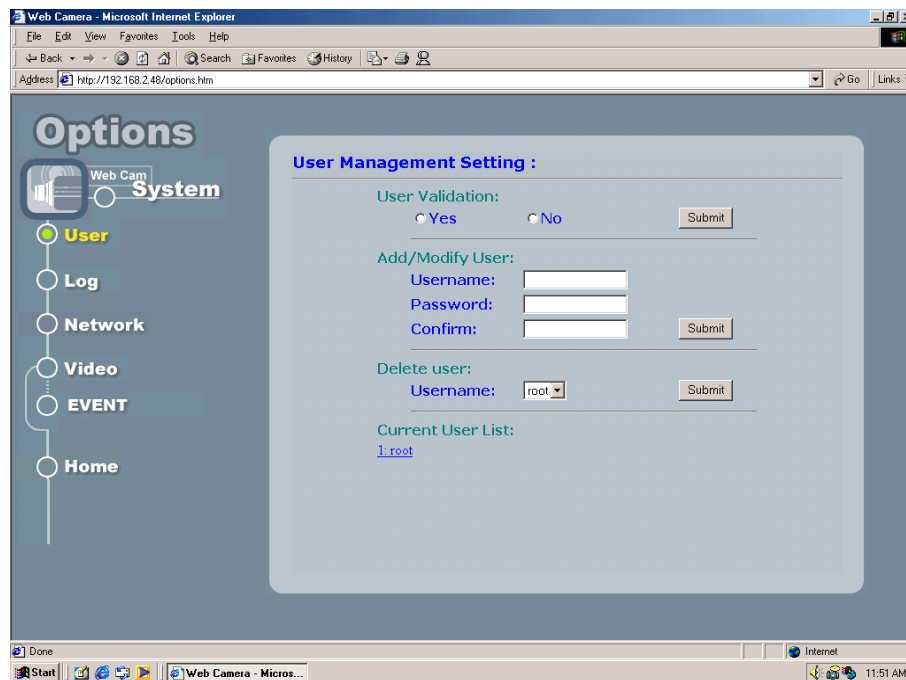
Username : user name

Password: user password

Confirm : user password confirmation

Delete user: To delete existing user

Current User List: The users in the Video Server



Log

The system log will be listed in the window when you click **[Log]** icon.

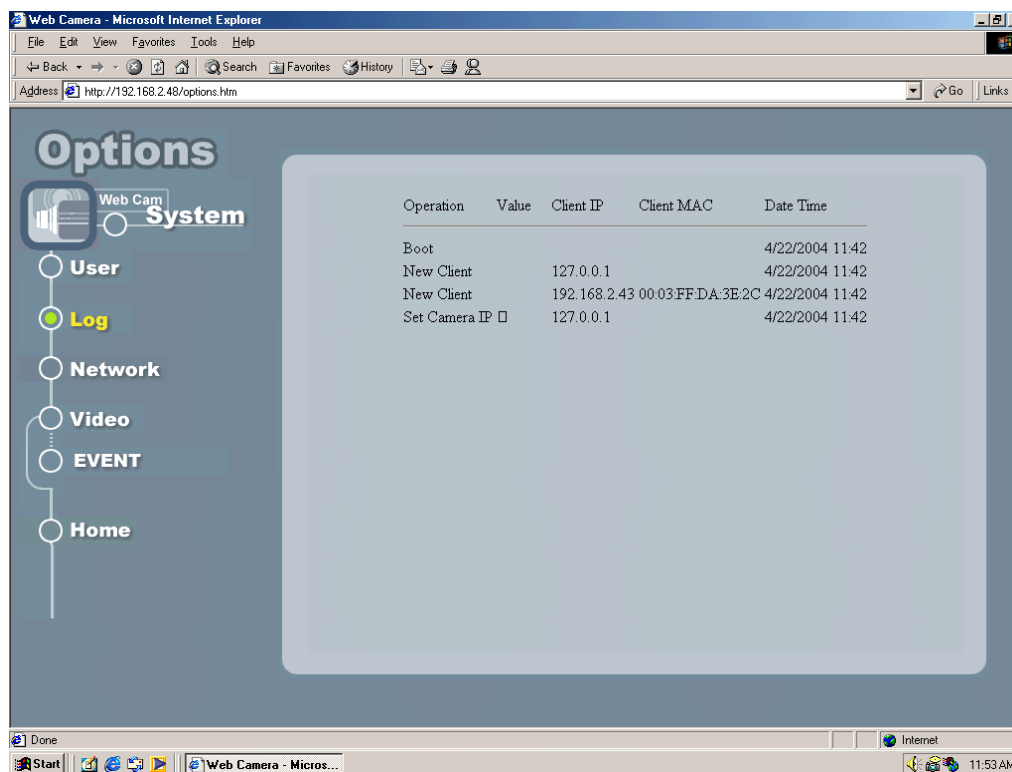
Operation: The operation which user operates

Value: The value to change

Client IP: The IP address of client PC

Client MAC: The mac address of client PC

Datetime: date-time which operation occurs



Operation	Value	Client IP	Client MAC	Date Time
Boot				4/22/2004 11:42
New Client		127.0.0.1		4/22/2004 11:42
New Client		192.168.2.43	00:03:FF:DA:3E:2C	4/22/2004 11:42
Set Camera IP		127.0.0.1		4/22/2004 11:42

Network

Allows administrator(root) to change network setting when you click **[Network]** icon.

IP Setting: Please consult you networking manager for the following values

Manual: To set network setting manually.

DHCP: To let Video Server get network setting from DHCP server automatically.

IP Address: IP address of Video Server

Subnet mask: Subnet mask of Video Server

Default Gateway: Default gateway of Video Server

DNS 1/2/3: DNS Server IP if necessary

Http Port: Change the http port of built-in web server (default 80).

(i.e. range 80, 1025 ~ 65535)

The screenshot displays the MISUMI Video Server web interface. On the left, a vertical menu under the heading 'Options' includes links for 'Web Cam', 'System', 'User', 'Log', 'Network' (highlighted with a red circle), 'Video', 'EVENT', and 'Home'. The main content area is titled 'Network Setting' and contains the following fields:

- IP Setting :** A section header with two radio buttons: 'Manual' (selected) and 'DHCP'.
- IP Address :** Text input field containing '192.168.2.43'.
- Subnet Mask :** Text input field containing '255.255.255.0'.
- Default Gateway :** Text input field containing '192.168.2.21'.
- DNS 1 :** Text input field containing '0.0.0.0'.
- DNS 2 :** Text input field containing '0.0.0.0'.
- DNS 3 :** Text input field containing '0.0.0.0'.
- Http Port :** Text input field containing '80'.

A 'Submit' button is located at the top right of the form. Below the form, there is a 'COM Port Setting' button.