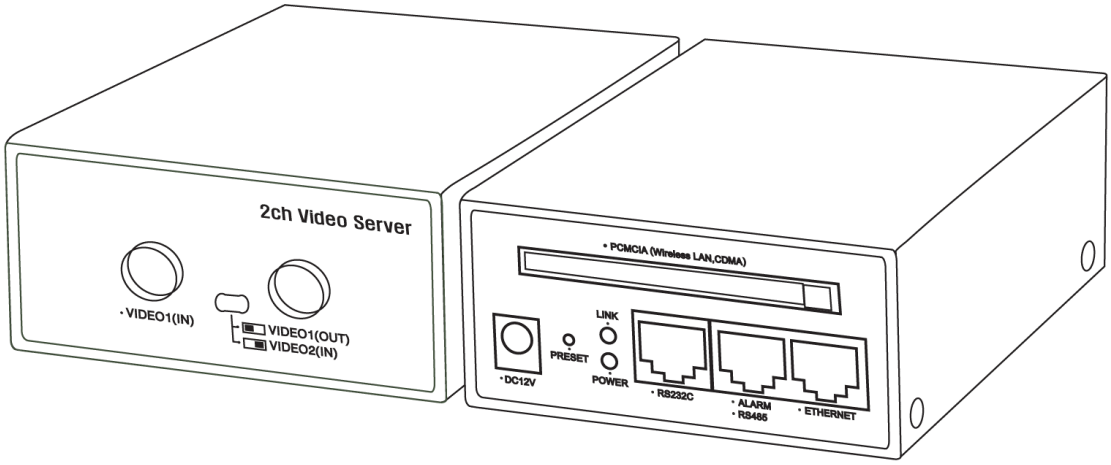
VIDEO SERVER (2 CHANNEL)



Full Manual (English)

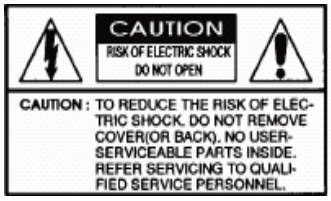
Version 1.0

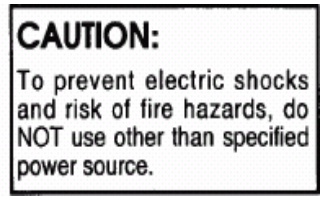
Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture. Located in cover, reverse side of cover of first page of installation/operation manual.

The symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The symbol 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.





Warning - - 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 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, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment dose cause harmful interference to radio or television reception. Which can be determined by turning the equipment off and 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 oulet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution - - Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Precautions

These pages list important information that will help to assure proper use of your primary and accessory equipment. Please read it carefully before operating your equipment and keep it in a handy place for future reference.

1. **HEED WARNINGS** – Adhere to all warnings on the appliance and in the operating instructions.

2. **POWER SOURCES** – Operate this equipment only from the type of power source indicated on the label. If you are not sure of the type of power being used, consult your dealer or local power company.

3. **OVERLOADING -** Do not overload wall units and extension cords, as this can result in a risk of fire or electric shock, Frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. Periodically examine the cord and replace it if appearance indicates damage or deteriorated insulation.

4. **POWER PLUG PROTECTION** – Route the power supply cords so they cannot be walked on or pinched by items placed upon or against them.

5. **VENTILATION** –Do not block the slots and openings in the cabinet, or place the equipment on a bed, soft rug, or other similar surface.

6. **ATTACHMENTS** – Do not use attachments other than those specifically recommended by the equipment manufacturer as they may cause hazards.

7. **TO PREVENT SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE** – If you spill liquid on the unit, consult authorized service personnel. Moisture can damage internal parts. Do not use this equipment near sources of water.

8. **ACCESSORIES** – Use only with a manufacturer recommended card, stand, tripod, bracket, or table. The equipment may fall, causing serious injury to a child or adult, and serious damage to the appliance.

9. **CLEANING THE OUTSIDE SURFACES** – Unplug this equipment from the wall outlet before cleaners. Use a damp cloth for cleaning.

10. **REQUIRING SERVICE** – Unplug the equipment from the wall outlet and refer servicing to qualified service personnel.

11. **SAFETY CHECK** – Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in safe operating condition.

12. **IMPORTANT NOTE TO THE INSTALLER** – This installation should be made by a qualified service person and should conform to all local codes. In order to provide this product with protection against risk of unintentional operation by employees, customers, janitors and cleaners working on the premises, and from falling objects, building vibrations and similar causes, it is recommended this product be enclosed in an tamper-resistant lock box. Make sure that the lock box is well ventilated or maintained with an air cooling system.

Caution：

To prevent fire or shock hazard, UL listed wire VW-1, style 1007, should be used for the cable.

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1. An Introduction to the VIDEO SERVER (2 CHANNEL)

1-1 Product Overview

• About the Video Server

VIDEO SERVER (2 CHANNEL) offers cost-efficient, easy to install and future-proof solutions for security, industrial and remote monitoring applications.

Basically VIDEO SERVER (2 CHANNEL) has 2 analog camera inputs. (By controlling Dip switch, You can choose 2 video inputs or 1 input & 1 output) So, VIDEO SERVER (2 CHANNEL) can be easily integrated into your current CCTV system without changing or removing any existing camera, resulting in substantial cost-savings.

VIDEO SERVER (2 CHANNEL) has PCMCIA slot for wireless communication. You can use 802.11b Wireless LAN card or CDMA card for your preferred mobile communication environment (*Option)

VIDEO SERVER (2 CHANNEL) offers great flexibility since it supports various types of networks such as Ethernet, xDSL, cable modem and PSTN.
VIDEO SERVER (2 CHANNEL) features motion detection and alarm function. Images can be remotely saved and then retrieved as needed.

When you combine the VIDEO SERVER (2 CHANNEL) with your internet network, you will have the perfect solution for an wide range of web attraction, web promotion, remote surveillance and security applications

1-2 Basic Function

• ALL-IN-ONE Style of Web server and Screen System

VIDEO SERVER (2 CHANNEL) is the All-In-One style, which has a 206MHz-speed RISC CPU and the Image Screening Tool, is configured and managed from Embedded Linux OS.
You can use various Network protocols in more stable system and see the Images on the web server anytime using this VIDEO SERVER (2 CHANNEL) which is a small and speedy network monitoring device.

• Easy of Connecting

You can connect from outside through Network with Web Server without any specific applied program, you can use MS Explorer, Netscape and more on web browser.

• Various Network Connecting Support

Using Embedded Linux, It supports various Network protocols such as 10/100 BASE-T

Ethernet, Local LAN, xDSL, Cable Modem, ISDN, PPP and other various circumstances.

• An external alarm input and output connection function

To control or input a signal of external alarm appliances, the VIDEO SERVER (2 CHANNEL) has 2 channel alarm input ports and 1 channel alarm output port.

• Motion Detection

It is used when detecting a movement with video image of camera itself. you can set of a section in 25 divided image as you want and practice the movement detection in a selected section.

• Pre and Post alarm image capturing and transmitting

When the alarm occurs, as catching a stop image, you can see the pre and post situation of alarm occurrence in detail, by transmitting to registered e-mail and FTP server.

• Transmitting to FTP server and saving

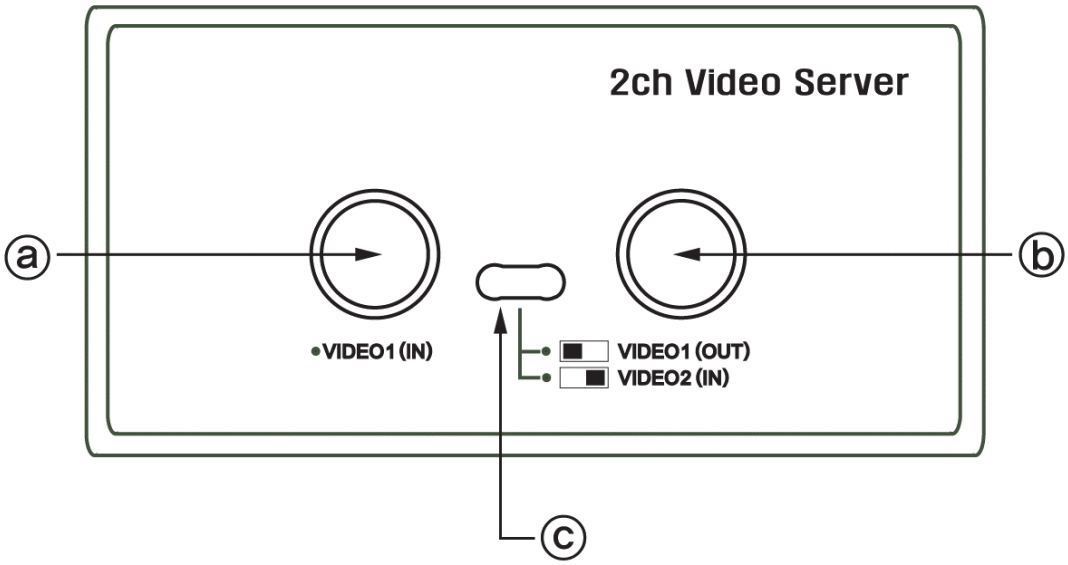
During the period that you want, you can transmit the images to FTP server and save.

• Firmware upgrade through internet

When you upgrade a program with the latest version, without separate application program help, a remote upgrade is possible through Internet Web Browser.

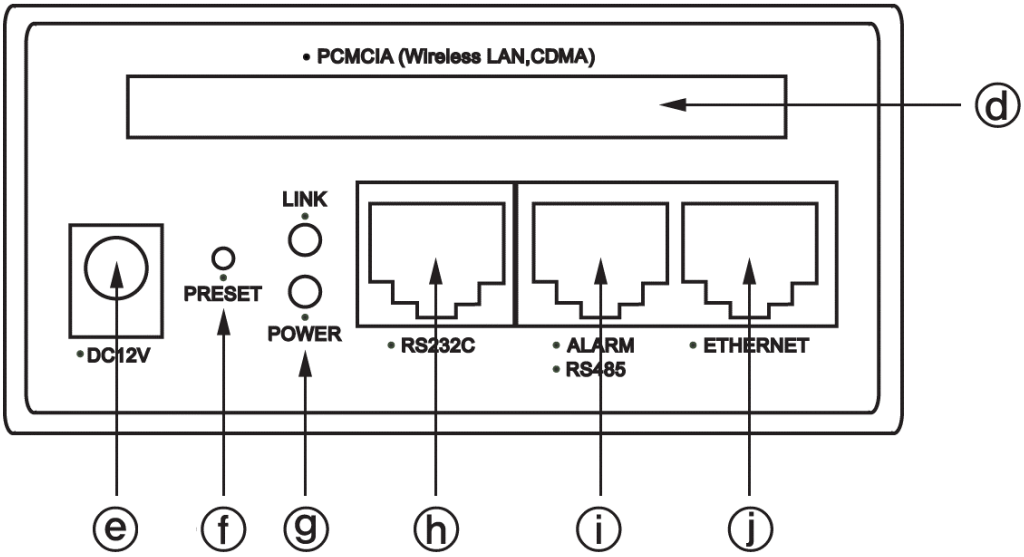
1-3 Physical Description

1-3-1 Front View



An Indication Name	Function
ⓐ **Video 1(IN)**	Video 1 Input plug.
ⓑ **Video 1(OUT) or Video 2(IN)**	This can be used the output of video1 or input of video 2. It depends on switch ©.
ⓒ **Switch**	User can use the 2ch or 1ch server by switching the direction.

1-3-2 Rear View



An Indication Name	Function
ⓓ **PCMCIA Card Slot (Option)**	The slot which can insert wireless LAN card or CDMA card with PCMCIA type.
ⓔ **DC 12V**	The power input port which is recommended to use more than 1.5A in 12V
ⓕ **PRESET**	After having pressed 'PRESET' more than three seconds If reboots a system, it will reset to the initial state which is factory default
ⓖ **POWER/LINK**	If the power is turned on, this POWER LED is lighted and LINK LED is for network.
ⓗ **RS232C**	It is the serial port for an external modem.
ⓘ **ALARM/RS485**	It is the port for alarm input, output and P/T/Z control.
ⓙ **ETHERNET**	It is the network connecting port for the Ethernet (10Base-T/100Base-T).

2. Beginning of the VIDEO SERVER (2 CHANNEL)

2-1 Read this first

• Caution

To connect the VIDEO SERVER (2 CHANNEL), First of all, you need to assign the IP address.
Please be careful in order not to use an IP address which have been set up as basis.
(Because the all same IP address is allotted when delivering a product from a warehouse.)

• A connection method selection of VIDEO SERVER (2 CHANNEL) and PC

To connect the VIDEO SERVER (2 CHANNEL), you need to connect to PC and select on how to access first, according to Network configuration of PC

If you use Network Adapter LAN Card in PC, Use a direct way to connect as provided Cross LAN Cable.
If you are not, selects a way to connect through a serial communication port of PC.

2-2 First connecting to VIDEO SERVER (2 CHANNEL)

2-2-1 Connecting through LAN Cable

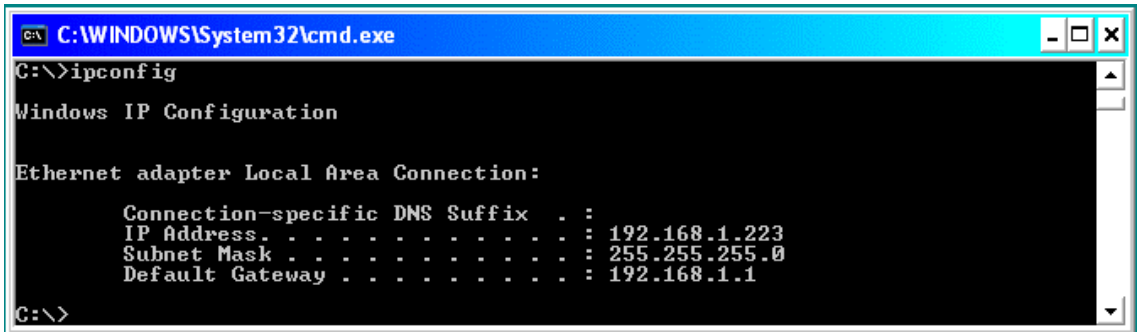
1) Confirming a network setup status of PC

First of all, confirm a network setup status of a user.
If you want to connect Web Browser to VIDEO SERVER (2 CHANNEL) in PC, you can normally access VIDEO SERVER (2 CHANNEL) with setting the same Network Type as PC .
You can ask the relevant network administrator about your current network type or confirm the following matter through simple commands, then take a memo and do reference when you setup VIDEO SERVER (2 CHANNEL)

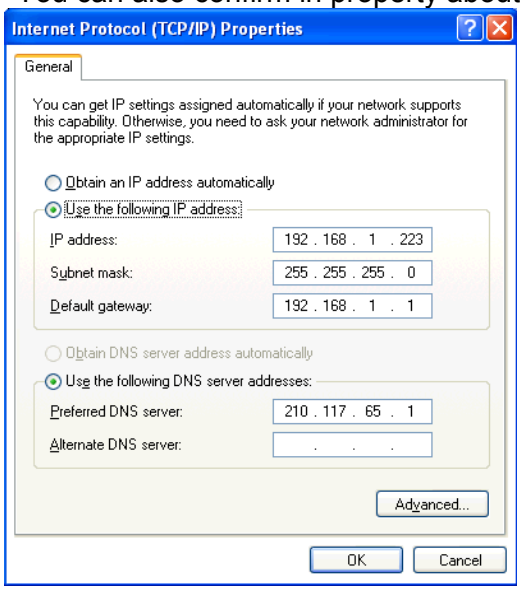
2) If the network type of a user was not set up, set up as follows

Change the network type of PC in TCP/IP registration information.
* IP Address 192.168.1.X [As for the X range, 1-255 is the one]
* Subnet Mask 255.255.255.0
* Default Gateway 192.168.1.1

3) If the Network Status of PC has been set up, you can confirm the network status as the following way.
*After opening the DOS windows, it will appear as follows if you input 'IPCONFIG' command.



*You can also confirm in property about TCP-IP of the Network Type.



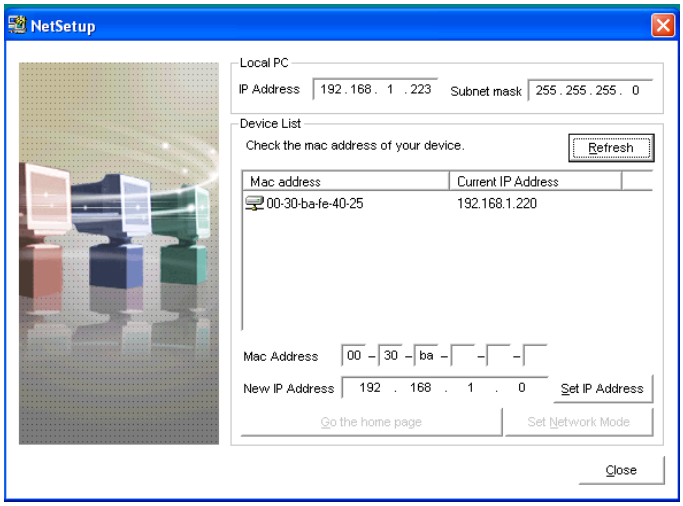
4) Determine the IP address in VIDEO SERVER (2 CHANNEL), according to Network Type of PC. Only the last figures of the IP address in most PC are different, you can determine temporary IP address for the video server. For example, if the IP address of PC is 192.168.1.21, you can select the address of VIDEO SERVER (2 CHANNEL) in 192.168.1.X and select an IP address of PC except a Gateway address within 1-225 range. (e.g->192.168.1.100)

• The Connection of PC and VIDEO SERVER (2 CHANNEL)

To connect VIDEO SERVER (2 CHANNEL) to Cross LAN Cable, connect directly to Cross LAN Cable, then input the DC-12V power. At the time of this, confirm whether 'Power LED' and 'Network LED' are exactly displayed. If LED is ON all, a connection is normal.

• The First Method : Setup the IP address through automatic setup program in the CD-ROM (A windows OS user)

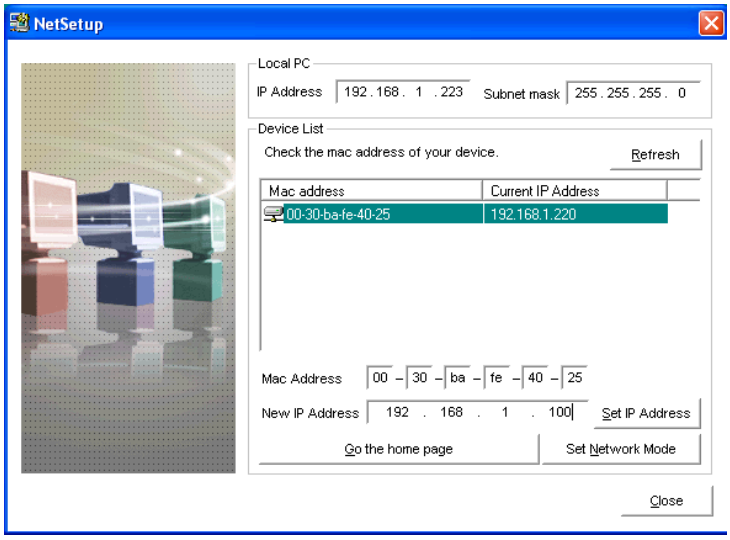
1) Practicing a bundled S/W 'NetSetp.exe' program, you can see the MAC address and IP address of the connected VIDEO SERVER (2 CHANNEL).



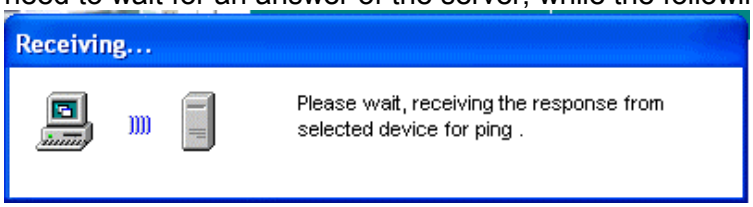
2) A MAC address of a VIDEO SERVER (2 CHANNEL) which selected in a list is put in automatically. Input the IP address that is going to newly set up into a 'New IP Address' directly. If a list does not appear on Computer, Click 'Refresh' and update a list.

Caution!

<u>If a list does not appear, Input 'MAC Address' and 'New IP Address' manually and then Click 'Set IP Address'</u>

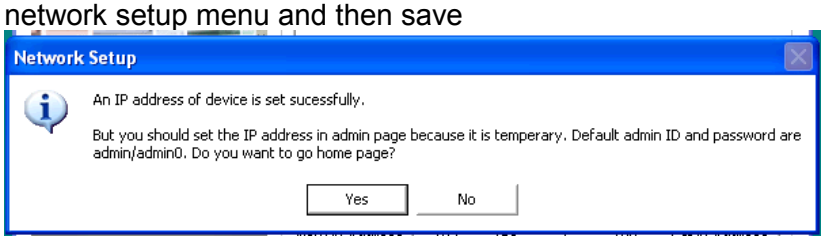


3) After inputting all information to newly set up, Click 'Set IP Address' and then you need to wait for an answer of the server, while the following screen is displayed



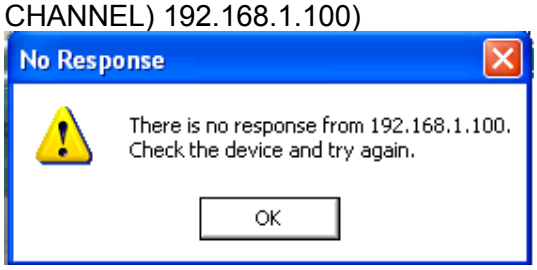
4) If network setup is succeeded, you can see the screen as follow. If you click a 'OK' button, It is accessed automatically with the temporary IP address that assigned

through Web Browser. Because it is a temporary address, you need to change in a network setup menu and then save



5) If network setup fails, You can see the message as follow. Before starting again originally, confirm the following again.

Firstly, Confirm whether the MAC address that set up is same as the MAC address of product.
Secondly, Confirm whether the IP address that assigned sets up as an address to be in a computer and the same network.(e.g->192.168.1.21, VIDEO SERVER (2 CHANNEL) 192.168.1.100)



• The Second Method : A Confirming IP address through 'ARP'

1) First of all, make yourself familiar with 'ARP' and usage of 'PING' commands
Usage of 'arp' and 'ping' in a DOS window is as follows.

C:>arp -s [The IP address that will be given a video server] [Product MAC address]
C:>ping [The IP address that is given a video server]

2) A use order must be done as follows
After turning on the power of the video server, You must do that from 30 seconds to 20 minutes.
If you were not able to do success among this time
Start again, after arranging Off/On the power again
C:> arp -s 192.168.1.100 00-30-ba-ff-ff-01
C:> ping 192.168.1.100

3) If a assignment of temporary IP address succeed, the following screen appears
Reply from 192.168.1.100: bytes=32 time<1ms TTL=225

```
C:\WINDOWS\System32\cmd.exe
C:\>arp -s 192.168.1.100 00-30-ba-fe-40-25

C:\>ping 192.168.1.100

Pinging 192.168.1.100 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.100: bytes=32 time=1ms TTL=255
Reply from 192.168.1.100: bytes=32 time<1ms TTL=255
Reply from 192.168.1.100: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.100:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>_
```

4) You will see as follows if it failed.
Request timed out

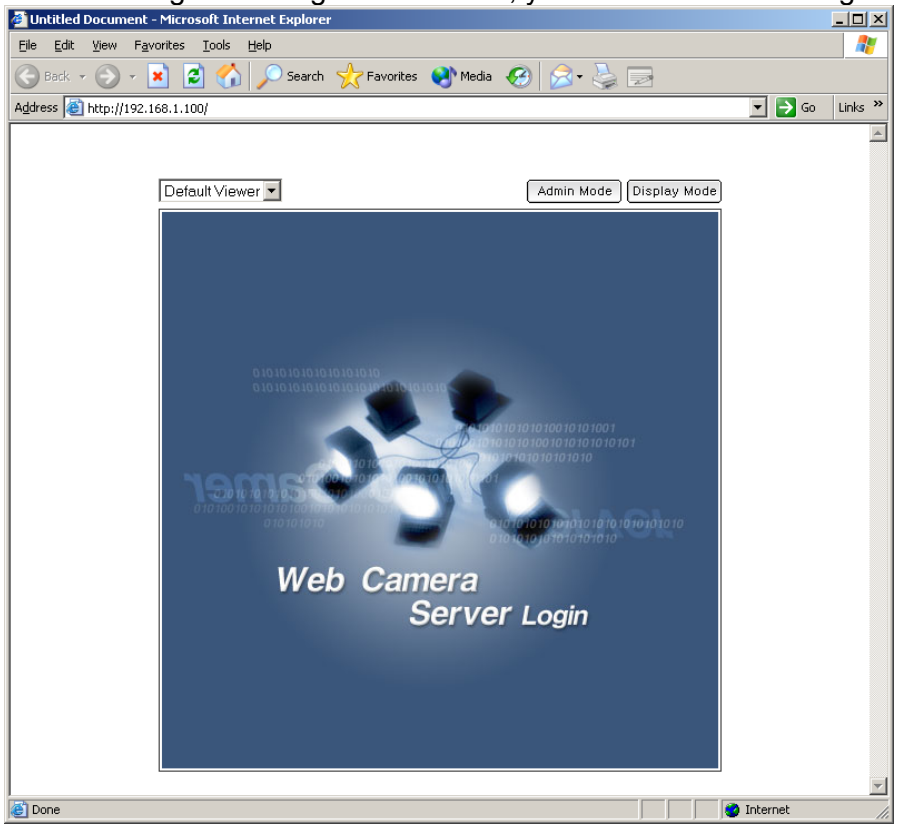
```
C:\WINDOWS\System32\cmd.exe
C:\>arp -s 192.168.1.100 00-30-ba-fe-40-25

C:\>ping 192.168.1.100

Pinging 192.168.1.100 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

5) You need to confirm the following matter if it fails
Firstly, confirm whether the MAC address of a product which is set up, is same as the MAC address of the product.

Secondly, confirm whether the IP address which is assigned was set up as the address which is in the same computer of the network

• Connecting VIDEO SERVER (2 CHANNEL) with a temporary assigned IP address

Through the network automatic setup program or 'arp', if you connect the temporary IP address assigned through the Browser, you can see the following initial screen



• Change setup according to installation environment

If you are going to change and readjust on video setup, system setup, alarm setup, and DVR setup, you can see each setup menu, after selecting 'Setting Mode' after Login with 'Admin'

• Caution!!

Because the 'Network automatic setup program' or an IP address assigned through 'arp' is a temporary address at present,
If you turn off the power and light up again, it does not save with a temporary IP address. Therefore, after changing the number as you want, Make sure of saving through 'SAVE'

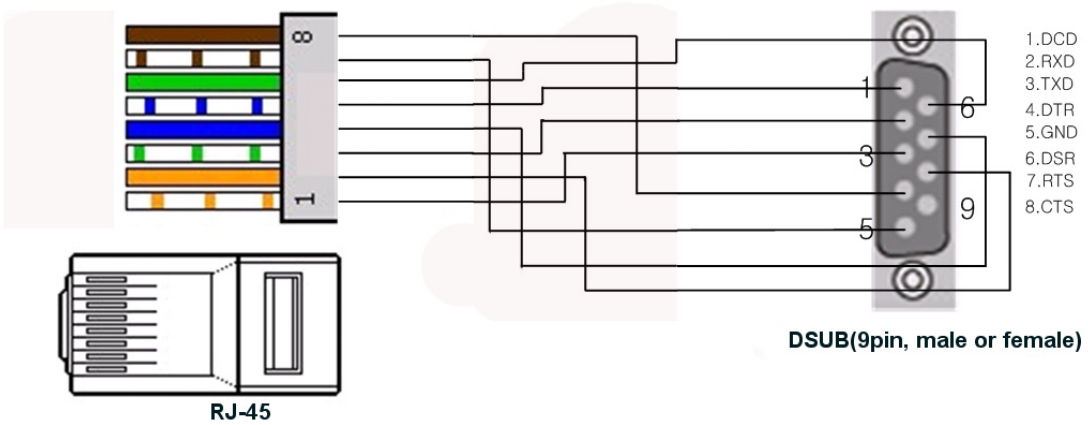
2-2-2 Connecting through Serial Communication Port

• Read this First

It's the way to connect to the serial communication port of PC(COM1,2), the modem port of a VIDEO SERVER (2 CHANNEL) and Cable. It is usable only in PC using the MS Windows-based operating system. You need to confirm whether other devices use this port in registration information of a system

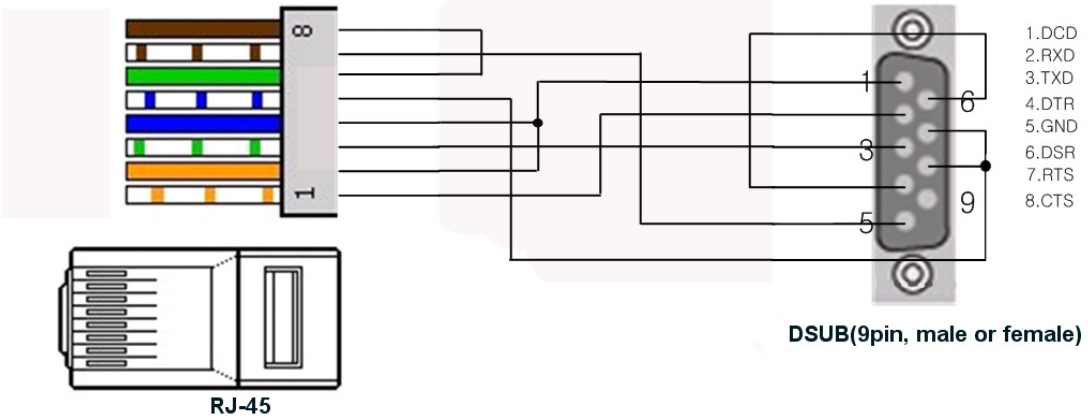
• RJ-45 to DSUB(9Pin,male or female) Cable #1 (Use when connect to Modem)

Because a connection connector part of 'Ethernet / Modem' the is RJ-45 Type, To connect a general external modem, the following cable will be required.



• RJ-45 to DSUB(9Pin, male or female) Cable #2 (Use when connect to Computer)

Because a connection connector part of 'Ethernet / Modem' is the Type, To connect a serial communication port of PC, the following cable will be required.



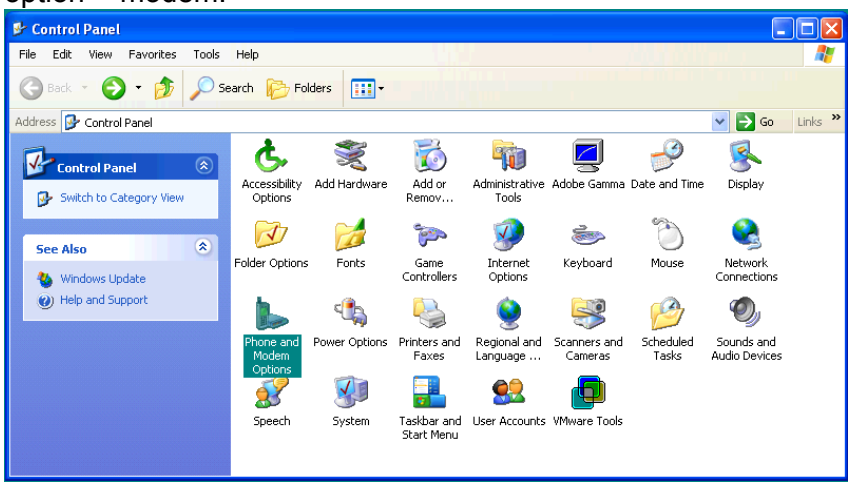
• The Connection of PC and Video Server

1) Connect RJ-45 to DSUB cable to a MODEM port in video server.
2) Connects to Serial Port (COM1,2) of PC on the opposite side of cable
3) Connects other section of Serial Cable to RJ-45 to DSUB cable

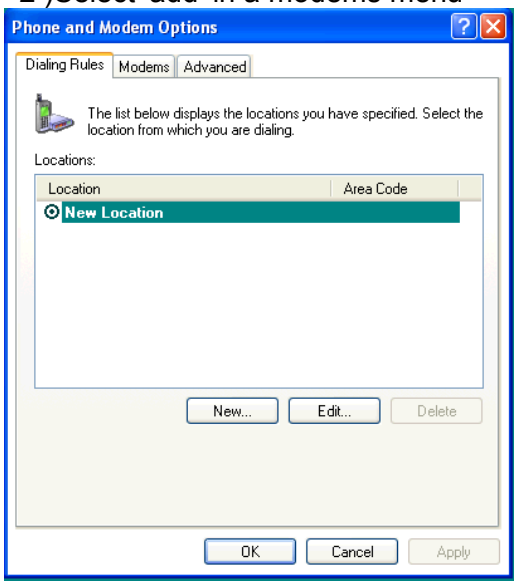
• Adding the connection program to PC in Window OS

1) Adding a modem in a control panel

Select the item at control panel->printer and other hardware -> telephone and modem option-> modem.



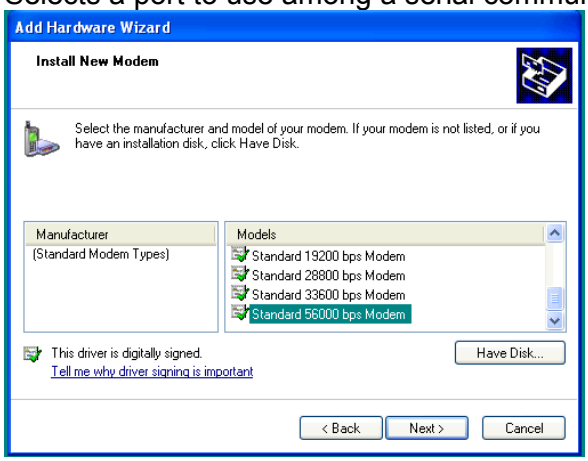
2)Select 'add' in a modems menu



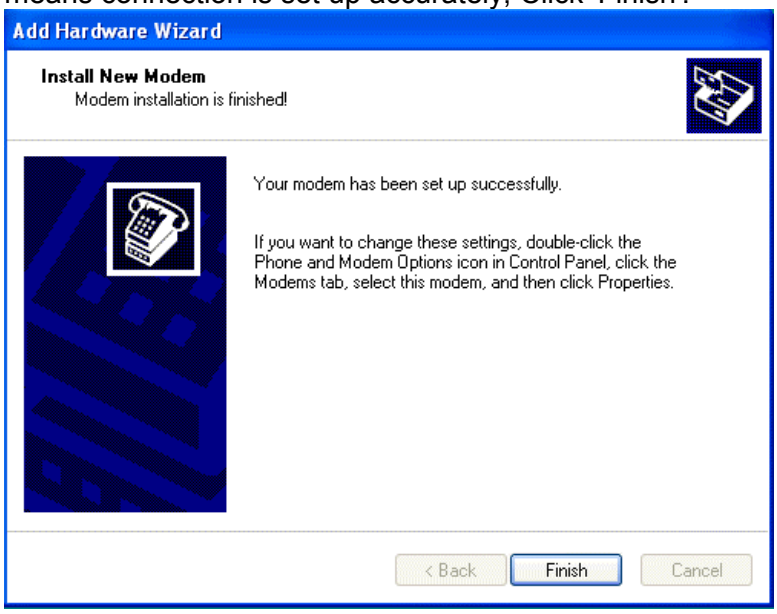
3) Check 'Do not search a modem and select in a list' and click 'Next'

4) Select 'standard 56000bps modem' in a standard modem kinds and click 'Next'

Selects a port to use among a serial communication ports of the PC



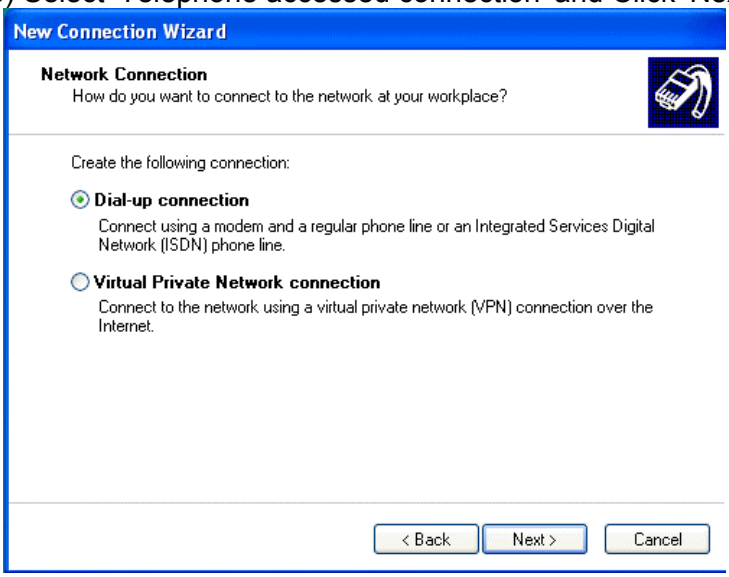
5) After the message of 'Now, we are installing', you can see the message which means connection is set up accurately, Click 'Finish'.



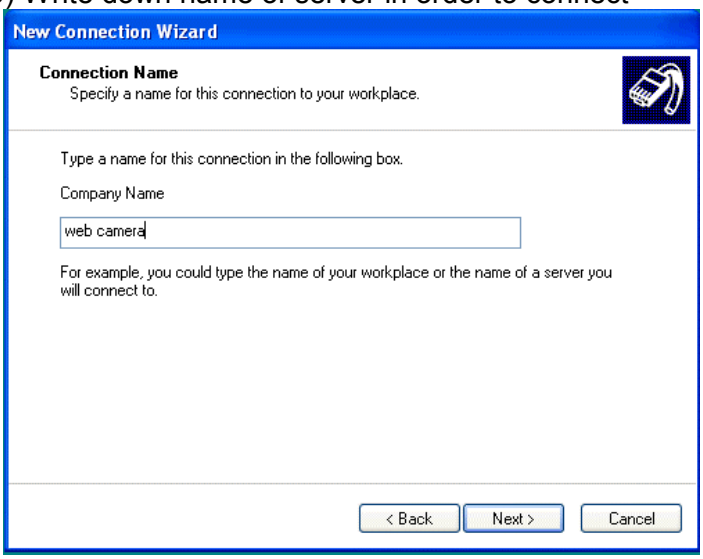
6) It is order to make 'Telephone accessed networking', through a modem to be newly made.
Select 'program', 'communication', 'network connection' or 'telephone accessed networking ' in a 'opening' menu and then Click 'new connection wizard' or 'new connection'.

7) Select 'connection in a company network' for phone number networking and Click 'Next'

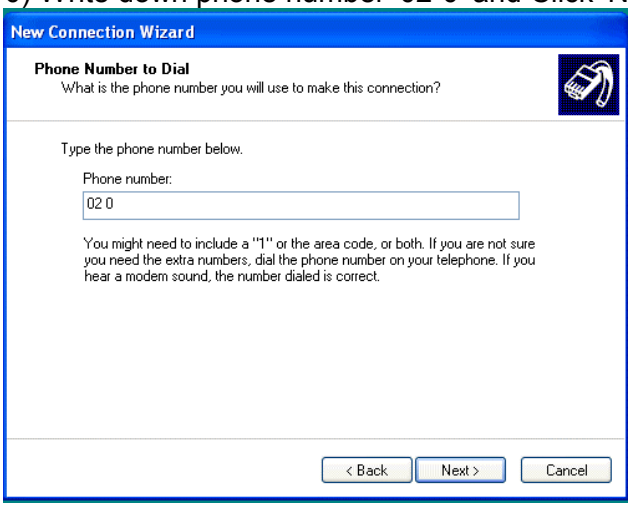
8) Select 'Telephone accessed connection' and Click 'Next'



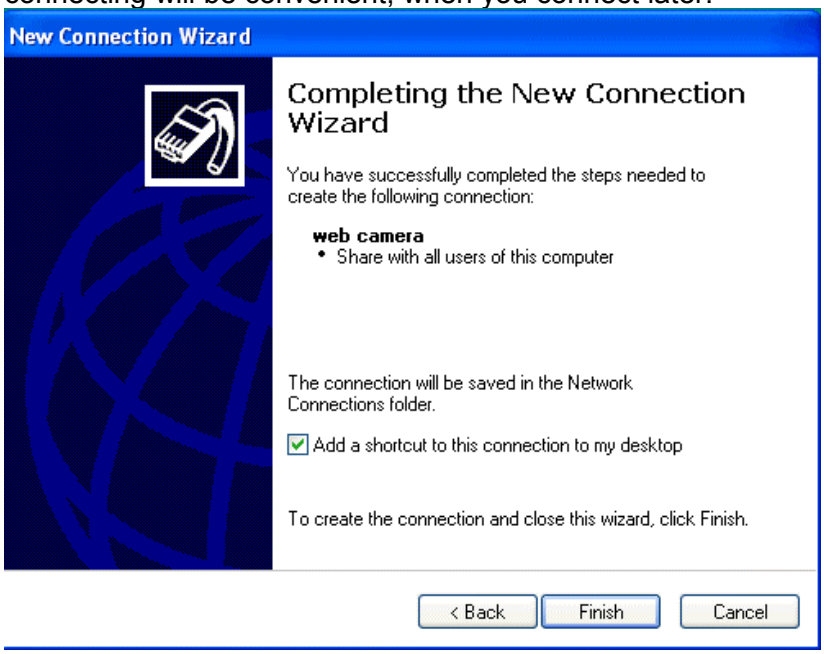
9) Write down name of server in order to connect



10) Write down phone number '02-0' and Click 'Next'



11) If telephone accessed networking is normally finished, Click 'Finish'
One more, if you check the making of 'shortcut to this connection in desktop', connecting will be convenient, when you connect later.

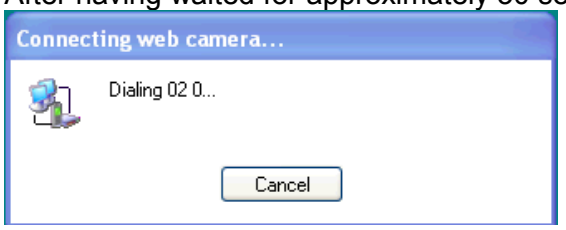


12) Connecting to VIDEO SERVER (2 CHANNEL) through the telephone accessed networking
Click the Shortcut Icon which is named 'video server' and made to connect telephone accessed networking

• The Connection of Video Server

1) User name is 'wcam', password is 'wcam'

2) Before connecting through 'Calling', Input the power of video server.
After having waited for approximately 30 seconds, Click 'Calling'



3) If telephone access normally become completion, Connect VIDEO SERVER (2 CHANNEL) through Web Browser

4) Open web browser and Input '192.168.1.1' in address.

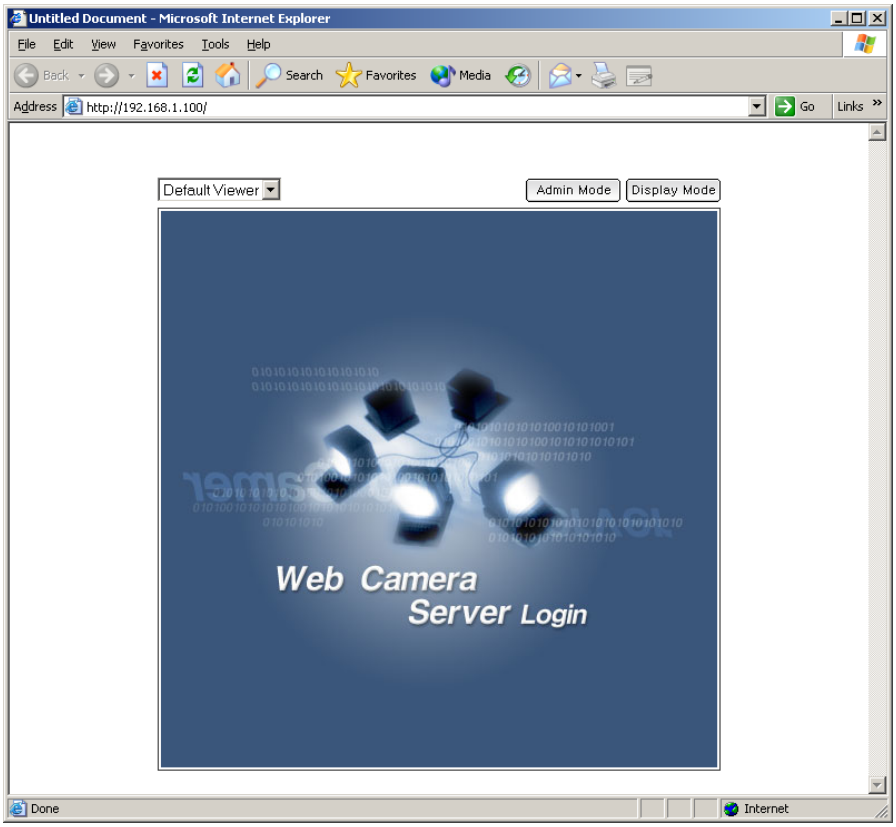
• Change setting according to installation environment

If you are going to change and readjust on video setup, system setup, alarm setup, and DVR setup, you can see each setup menu, after selecting 'Setup Mode' after Login with 'Admin'

3. Display Mode

3-1 Initial Login Screen

• **The first page of a VIDEO SERVER (2 CHANNEL)**

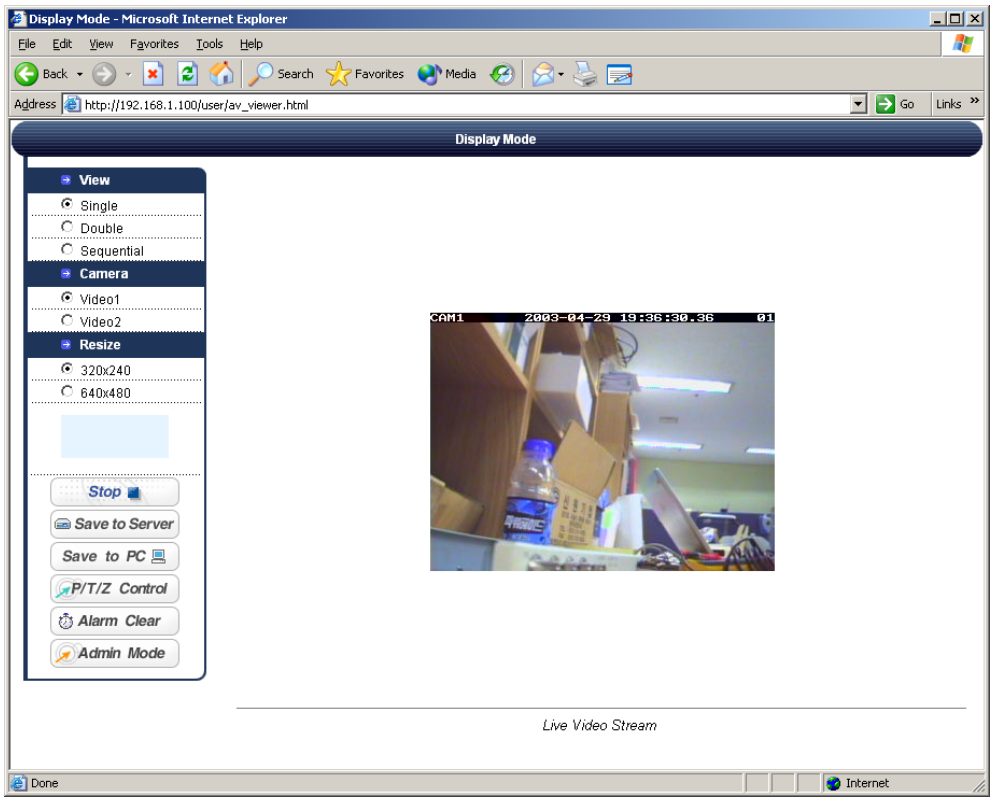


• **Admin/User Login**
There are Admin mode and User display mode
An Administrator has 'Setting Mode' authority as well
Initial password setting is..
-ID/Password of Admin mode is 'admin/admin0'

• **Default Viewer / Java Viewer**
With selecting a video image method displayed in Display Mode
You can try to select 1 between 'Default Viewer' and 'Java Viewer' along Web Browser.

3-2 User Display Mode

• Display Mode which is logged in as a user



• View

Single : Display the image channel 1 or 2.
Double : Display the images of both two channel.
Sequential : Display the image channel 1 and 2 every specified in second time one by turn.

• Camera

Video1 / Video2 : Select channel 1 or 2 in single view.

• Resize

320x240 / 640x480 : Display the image in specified size. It is not the resolution of source image is changed but viewing size.

• Stop/Play

It is the function of operating video images to Stop/Play, valid only in default viewer of MS Explorer.

• Save to Server

With this function to save a current displayed image in internal memory of a video server, performing image file saved remotely or can be deleted

- Load or Reload & Delete

'Load or Reload' is used to see an image list saved in internal memory of video server, you can see the image listed on web browser or download to your PC and save
'Delete' is used to delete the memory saved, after putting in the name of the image, you can delete and secure a storage with a click 'Delete'.

• Save to PC
With this function, you can save the current image to your PC.
Practicable in 'Default Viewer' in MS Explorer only.

• P/T/Z Control
You can control the pan, tilt and zoom function using this window. Eventually, the receive box for P/T/Z is connected into network server.

• Alarm Clear
With this function, you can remove an indication about the alarm situation that occurred recently

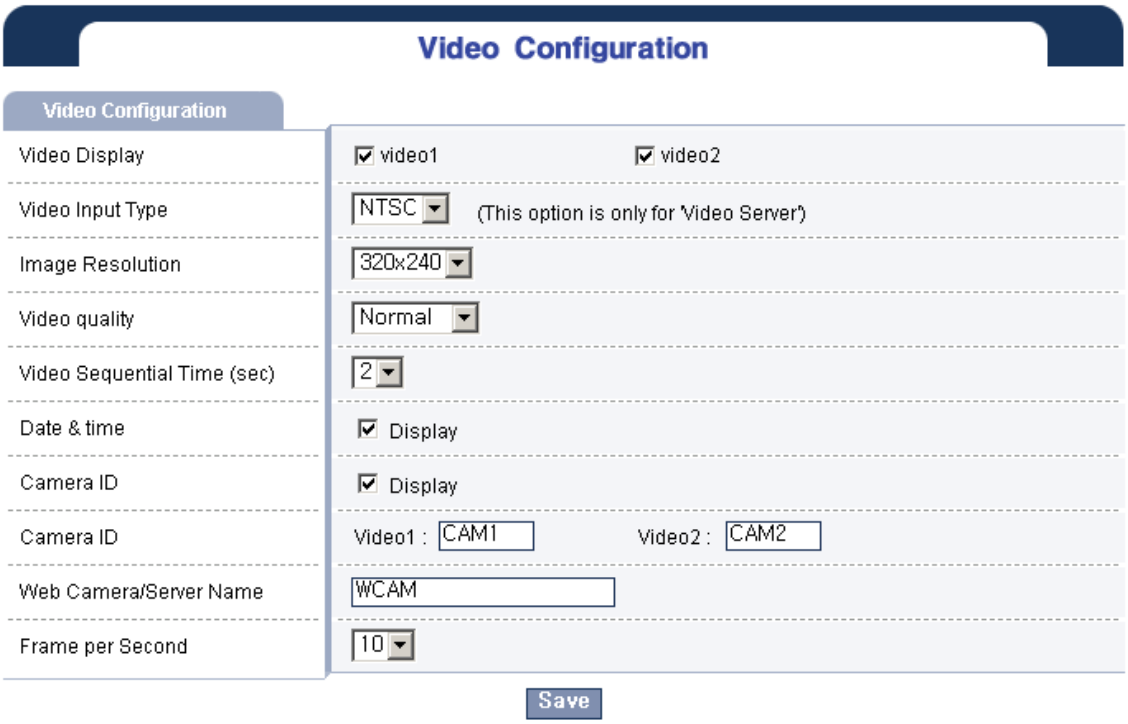
• Admin Mode
Use this button, when you log in as an Administrator.

You can manage such as system state, a network, installation, an alarm situation, DVR setting, Motion detection and changed contents of a home page

4. Admin Setting Mode

4-1 Video Configuration

• **Setup Image Quality, Resolution, ID, Name, Frame and so on**



• **Video Display**
With this function, it can be shown by selecting 'Enable/Disable' to the real time Image screen on Admin/User Display

• **Video Input Type**
With this function, you can select the type of camera connected into VIDEO SERVER (2 CHANNEL) NTSC or PAL.

• **Image Resolution**
With this function, you can choose the size with a width / length of an image

• **Video Quality**
You can select image quality with four degree in an image and adjust an installation environment, selecting the image and the image quality selection that you want to see.

• **Video Sequential Time**
When you select the ‘Sequential’ from view at display mode, it is applied.

• **Data & Time/Display of Camera ID**

Display whether 'Time & Date' and 'Camera ID' on Display Mode, according to select Enable/Disable.

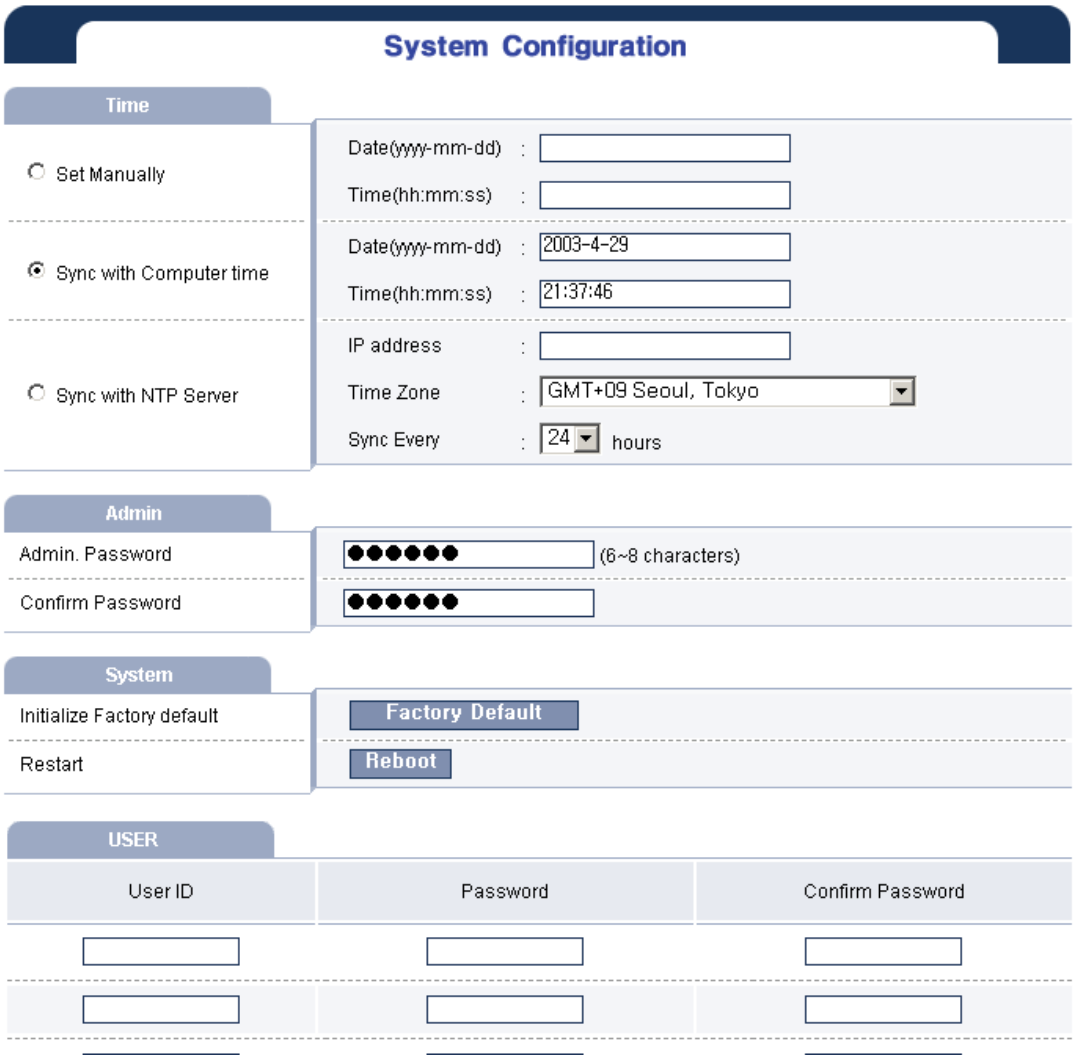
• **Web Camera/Server Name**
To save FTP server or transmit image to e-mail, It needs a distinctive name for each camera

• **Frame per Second**
The function to setup a frame number of VIDEO SERVER (2 CHANNEL)with this function you can adjust the band width

• **Save**
A function to save in server, after a change of contents about each menu.
All contents apply with a safe at the same time. If you can see the message of 'Video Configuration Saved', it means it saved normally.

4-2 System Configuration

• Setup of time, Admin password & ID , User password & ID and System re-boot



• Time

There are 3 ways to set system time in video server.

1) Set up Manually
When 'Save', you need to input the random date and time
e.g.)If it is 13:00 on 1st in November in 2000
'2000-11-01', '13:00:00'
2) Sync With Computer Time
When 'Save', you need to mark the time that is same as PC of a manager and input this time

3) Sync with Server
When 'Save', you need to input GMT provided in time server(NTP Server) set up, and 'Sync Every' is for periodic time to determine when it accesses time server.

Domestic time server is 'gps.bora.net' of Dacom, 'npt.kornet.net' of Kornet and 'time.kriss.re.kr' of the time / frequency a research Institute of a Korean standard science researcher.

• Admin
With setting up a administrator password, It must be figure 6 up to 8 Within the first 6 figures, it must include an Alphabetic Character(a, b, c ... , A, B, C...) of two or above and A number or a special character of one or above.

• System
There are 2 types of system
'Restart' is devoted to applying the status of environment setup of a system and
'Initialize Factory default' is able to make initialization as a fixed value of factory default

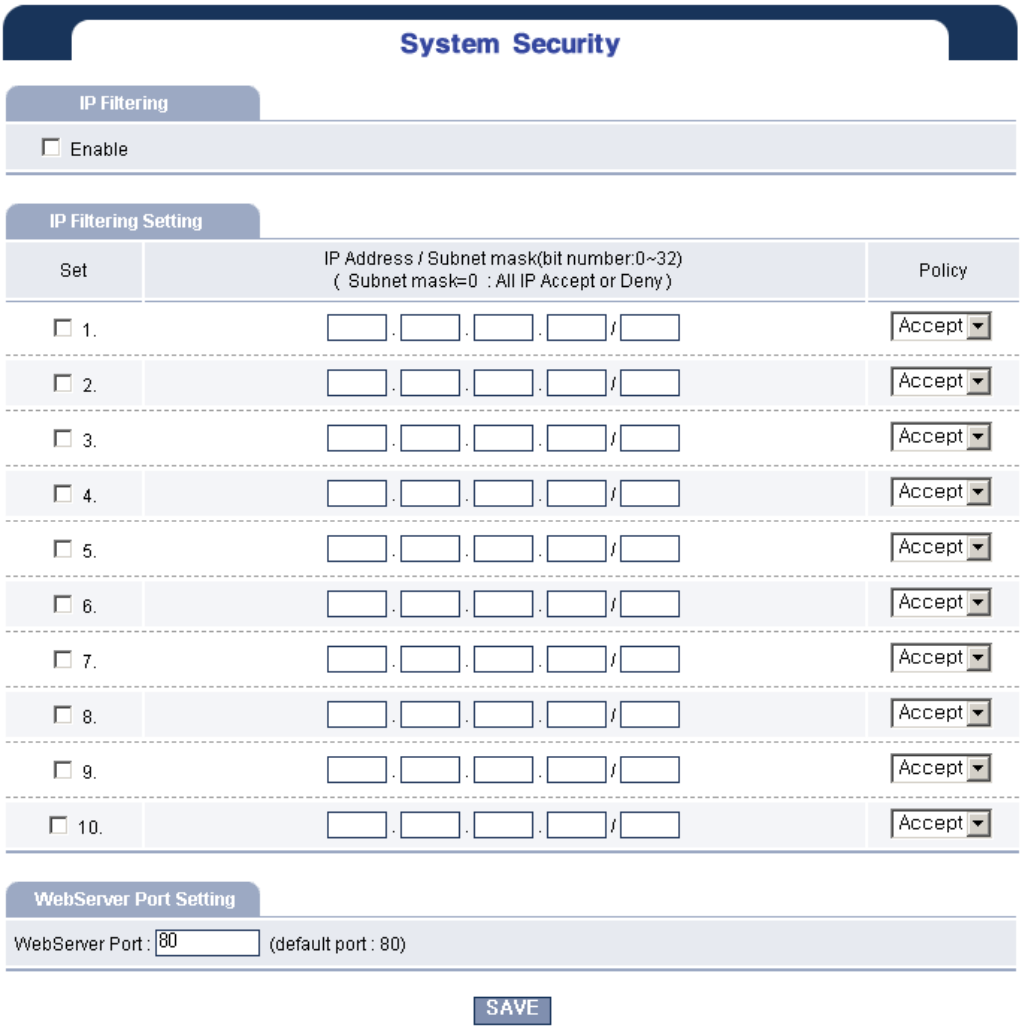
1) Initialize Factory default:
The setting information is set as initial state of a product purchase
After press this button and re-booting
All setting except network setting are applied setting of factory default on a change.

2) Restart:
With restarting a system, when change setting of each menu.
It will be used in order to apply. Network Setup, NTP Server, System Security and so on.

• USER
You can make the maximum eight accounts which can login in the User Display Mode and connect duplication by the same ID on the Web. If do not make an account about a user and save an all empty space, without login process, can connect USER Display Mode directly. There is not a special restriction about a password

4-3 System Security

Security capability about Web setup and Setup of IP Filtering, Web Server Port



• IP filtering

Check whether it is to carry out the function. Set up 'IP Filtering Setting'
If you don't select 'Enable', it will not work.

• IP Filtering Setting

1) Set:
Decides on whether it is to apply a setup number of a current line

2) IP Address/Subnet Mask
Inputs an IP address for Filtering and the number which is expressed with the bit number into a Subnet Mask

3) Policy
Decides on Filtering policy

4) The examples are as follows
* IP Filtering : Enable
* 1-Setting :192.168.1.10/32 :Deny
* 2-Setting :192.168.1.20/32 :Accept
First, that approach refuses specific IP in '1' is practiced. Only specific IP permits approach in '2' and, it refuses outside of that. At last it is applied what it set up in '2'. Remainder IP address except 20 cannot access.

5) A detailed explanation about IP Filtering please refer to a Appendix.

• Web Server Port Setup

1) Basically, it uses a 80 port . If you want to change, it is recommended that you use from 1025 or above that is reservation port or above.

2) When changing a port, you must input a Web server address as follows.
* 80 Port : http://192.168.1.100 or http://192.168.1.100:80
* 8080 port : http://192.168.1.100:8080

4-4 Network Wired

* It's about Network Status setup, DDNS server registration and Setup of an E-mail server input

Network Configuration-RJ45, RS232C

Common Part	
DNS Server 1	. . .
DNS Server 2	. . .
SMTP(email) Server	
Dynamic DNS Server 1	211.116.232.66
Dynamic DNS Server 2	ns.wisecam.co.kr
Dial In	☐ Enable
NetworkType	Static IP

Static IP	
IP Address	192 . 168 . 1 . 200
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1

PPP	
PPP Type	DialOut_Default
Operation Type	always
Phone Number.	
User Name	
User Password	
Confirm Password	
Init Command	

PPPoE	
User Name	
User Password	
Confirm Password	

SAVE

* Common Part
The part which is independent of network type to install and must input in common.

1) DNS Server1/2:

It is a part to input a DNS server IP address
If the only case of input an address of SMTP (E-mail) Server and DDNS Server with Domain Name, mail transmission and an action of a dynamic IP assistance function can certainly do activity.

2) SMTP (E-mail) Server
Inputs an IP address of E-mail server with the Domain Name. If you want to receive an image captured when the alarm occur with an E-mail address of a administrator, among mail servers using, write down 'A mail server address to send'.
If mail server uses specific security firewall , probably you cannot send mail.

3) Dynamic DNS Server 1/2
Input a DDNS server address. If the installed Network Status is dynamic IP,
It is the service that it assigns with a static Domain address. Even if an address of a VIDEO SERVER (2 CHANNEL) changes, access is always possible to through static domain address server.
e.g)Dynamic DNS Server : ns.wisecam.co.kr
Product MAC address : 00-30-ba-ff-18-17
Network Type : the case of DHCP/PPPoE/PPP
Static Domain Address : http://wff1817.wisecam.co.kr

4) Dial in:
This function which is named 'Dial in' makes, whenever a manager wants in the outside, by calling a modem connected to a video server, he is able to see a video image by direct connection.

5) Network Type
Select among 'Static IP/DHCP/PPPoE/PPP' according to installation environment
Refer to the following and apply
-Static IP : Official/Unofficial static IP, ADSL static IP (MyIP)
-DHCP : Private web, if there is the DHCP server. Cable Modem
-PPPoE : ADSL dynamic IP
-PPP : Dial telephone modem, PPP modem for an exclusive use, ISDN equipment

* Static IP
1)IP Address/Subnet Mask /Gateway:
Input the number which is assigned. Please ask a Network Administrator detailed thing.

* PPP
1) PPP Type:
the Choice according to connecting to General Dial Telephone Modem, PPP modem for an exclusive use and ISDN modem for an exclusive use

2) Operation Time
'Always' is the case when continuously make access PPP.
'only alarm' is only the case when an alarm occurs, connecting an alarm situation through FTP or E-mail
Charge saving along connection time is possible

3) Phone Number:
When Internet service enterprise accesses, inputs a phone number to use

4) User Name/User Password/Confirm Password:
Input a password and ID to use when connect service, in 'Confirm Password' input a password once again for confirmation

5) Init Command:
It's the part for an input to be able to hold initial commands additionally of the modem which connected.
Because a ISDN modem is a necessary part when connect, Refer to the manual of an ISDN modem

* PPPoE
1) User Name/User Password/Confirm Password:
Input a password and ID to use when connect service, in 'Confirm Password' inputs a password once again for confirmation

* DHCP
The case of an installation environment is DHCP, Select 'DHCP' in Network Type.
If it is DHCP, you need to connect DHCP Server and receive all of setting matters, therefore you don't need any other particular matters.

* SAVE
Click 'Save', you must re-boot in order to apply Network Setting.

Re-booting must be done as click a 'Reboot' on Restart menu of 'System Configuration'
It is recommend that you don't turn OFF/ON the power forcibly.

* Install of Network connection and a setup way
Refer to the 'Network Installation Manual in the CD' according to a connection along each network type and a setup method

4-5 Network Wireless

Network Configuration-PCMCIA

Common Part

DNS Server 1	. . .
DNS Server 2	. . .
SMTP(email) Server	
Dynamic DNS Server 1	211.116.232.66
Dynamic DNS Server 2	ns.wisecam.co.kr
NetworkType	WirelessLAN

WirelessLAN

IP Address	192 . 168 . 2 . 200
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 2 . 1
Operating mode	Infrastructure
ESSID	wcam
WEP	Disable
	key 1 :
	key 2 :
	key 3 :
	key 4 :
	Default Key : 1

CDMA

CDMA Type	Default
Operation Type	always
Phone Number	
User Name	
User Password	
Confirm Password	
Init Command	

SAVE

* Common Part

The part which is independent of network type to install and must input in common.

1) DNS Server1/2:
It is a part to input a DNS server IP address
If the only case of input an address of SMTP (E-mail) Server and DDNS Server with Domain Name, mail transmission and an action of a dynamic IP assistance function can certainly do activity.

2) SMTP (E-mail) Server
Inputs an IP address of E-mail server with the Domain Name. If you want to receive an image captured when the alarm occur with an E-mail address of a administrator, among mail servers using, write down 'A mail server address to send'.
If mail server uses specific security firewall , probably you cannot send mail.

3) Dynamic DNS Server 1/2
Input a DDNS server address. If the installed Network Status is dynamic IP,
It is the service that it assigns with a static Domain address. Even if an address of a VIDEO SERVER (2 CHANNEL) changes, access is always possible through static domain address server.
e.g)Dynamic DNS Server : ns.wisecam.co.kr
Product MAC address : 00-30-ba-ff-18-17
Network Type : the case of DHCP/PPPoE/PPP
Static Domain Address : http://wff1817.wisecam.co.kr

4) Network Type
Select among 'Disable/CDMA / Wireless LAN' according to installation environment
Refer to the following and apply
-Disable : Don't use the Wireless LAN
-CDMA : Use the CDMA for network.
-Wireless LAN : Use the Wireless LAN for network

*Wiseless LAN
1) IP Address / Subnet mask / Gateway
Enter the value which is assigned. Please ask a network administrator detailed thing.

2) Operating mode
Infrastructure only. This version doesn't support peer to peer mode.

3) ESSID / WEP /Key
If wireless LAN access point uses this items, you should set up the same values with access point. If you want to more detail information of items, refer the access point manual.

*CDMA
1) CDMA Type
Default only

2) Operation Type
If you want that VIDEO SERVER (2 CHANNEL) is always connected to network, select "always". If you want that VIDEO SERVER (2 CHANNEL) is only connected to network to send alarm images, select "only alarm".

3) Phone Number
Enter a telephone number that is used to connect service.
4) User Name / Password
The user name and password used to connect to CDMA service.

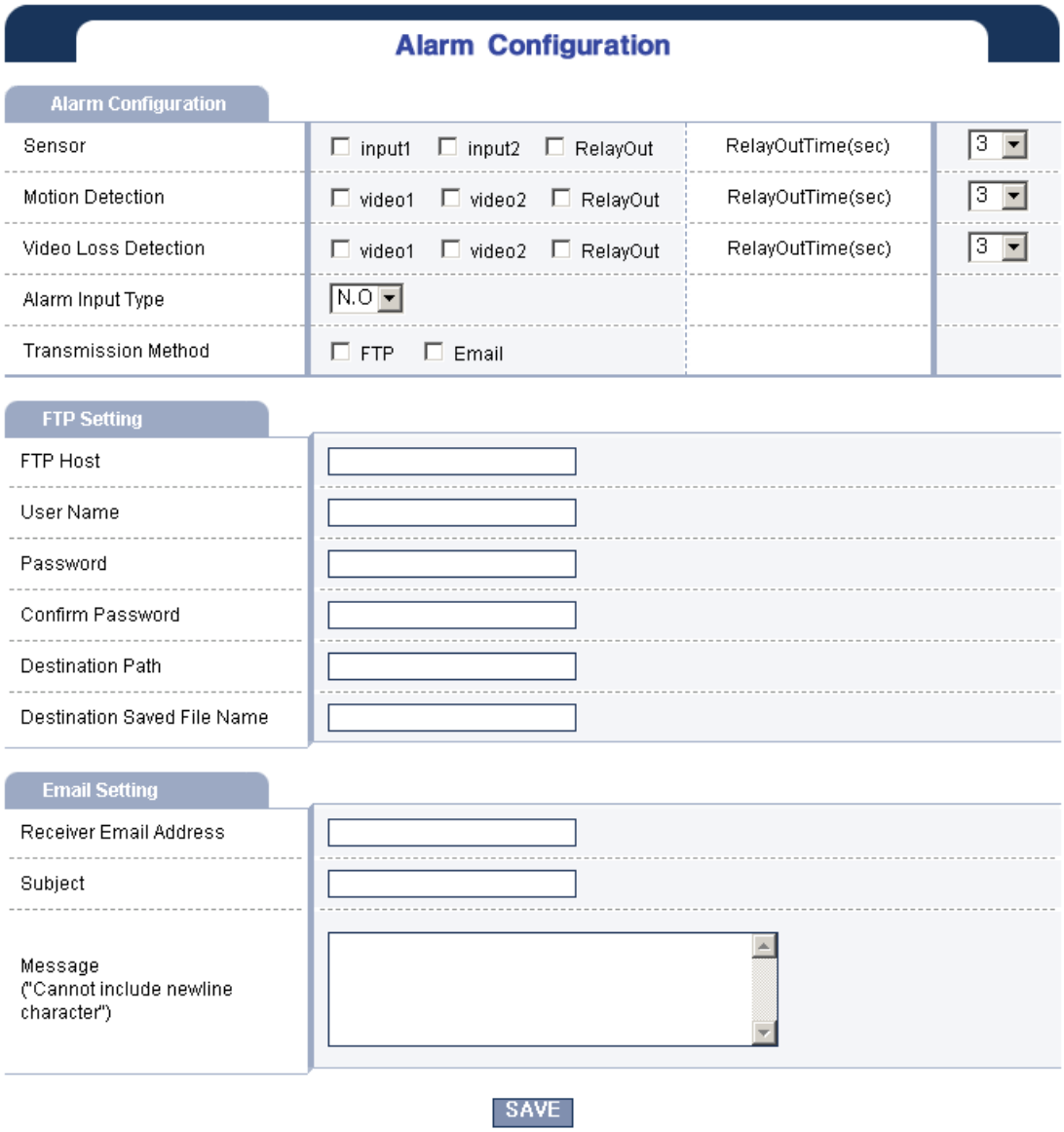
5) Init Command
Enter the initial command of a modem that is connected. Usually it is blank.

*Save
Click 'Save', you must re-boot in order to apply Network Setting.

Re-booting must be done as click a 'Reboot' on Restart menu of 'System Configuration'
It is recommend that you don't turn OFF/ON the power forcibly.

4-6 Alarm Configuration

* Alarm action configuration and setup about an image transmission when an alarm occur



* Alarm Configuration
An alarm input is external 2 channel alarm inputs. An alarm output is an one channel alarm relay output and transmission messages through FTP and E-mail

1) Sensor/ Relay Out
You can set up an external 'Sensor' input as an alarm.
If select 'Relay Out' at the same time, 'Relay' will be operated for the time which is set up. If select 'FTP' or 'E-mail', you can capture the screen during the practicing time of the alarm.

2) Motion Detection/Relay Out

You can set up Motion Detection as an alarm.
If select 'Relay Out' at the same time, 'Relay' will be operated for the time which is set up. If select 'FTP' or 'E-mail', you can capture the screen during the practicing time of the alarm.

3) Video Loss Detection
You can set up video loss detection as an alarm.
If select 'Relay Out' at the same time, 'Relay' will be operated for the time which is set up. If select 'FTP' or 'E-mail', you can capture the screen before time of the alarm.

4) Alarm Input Type(Normal Close : N.C / Normal Open : N.O)
When the alarm occurs, it is the function of selecting a voltage level of a digital input in the outside. For example, when the external sensor is operated, If change to 'N.C' from 'N.O', Select 'N.C' on menu. The voltage, which is possible to input is from min 3.3V~max12V to 5~10mA, adjusts the external alarm sensor.

5) Transmission method:
When the alarm occurs, Please choose whether to send video images through 'FTP' or 'E-mail'

6) Relay Out Time(Sec):
Action time is selectable in the blank of 'Relay Out'

* FTP Setting
When the alarm occurs, it sends images to FTP server

1) FTP host :
Input the FTP address to connect

2) User Name/User Password/Confirm Password:
Input a ID and password for FTP server
input a password once again for confirmation

3) Destination Path:
Input the Directory path to save

4) Destination Saved File Name:
Input the name to save captured image

* E-mail Setting

When the alarm occurs, it sends images to FTP server
You need to input the address of 'SMTP(E-mail)Server' of Network Configuration

1) Receiver E-mail Address:
Input the E-mail address of the administrator to receive as you want to

2) Subject:
Input the 'Title' of the mail to send

3) Message:

Input the 'Contents' of the mail to send

4-7 Alarm Operation

* It's the setup of Alarm action and Alarm control along time.

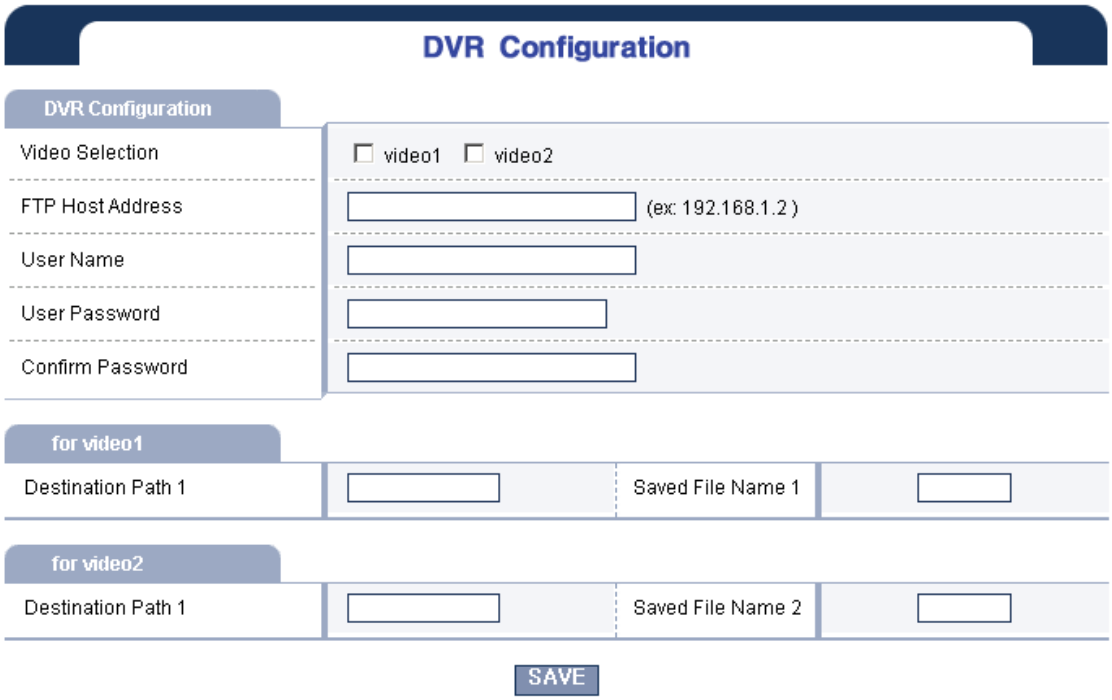
* Alarm Operation
By control about all setting, you must select 'Enable' to make all function of saving operate. Disable make all action stop

* Alarm Time Setting
It's the setting function along a time zone about the alarm. To each day and time, you can set the alarm function 'Enable' or 'Disable'

* Image Capture
You can select each of maximum 10 images for pre alarm and post alarm

4-8 DVR Configuration

The setting in order to transmit video images to FTP Server



* DVR Configuration
The Setting of Selecting video images to FTP server

1) Video1 / Video2:
Select the Video Image to save

2) FTP Host Address:
Input the address of FTP Server

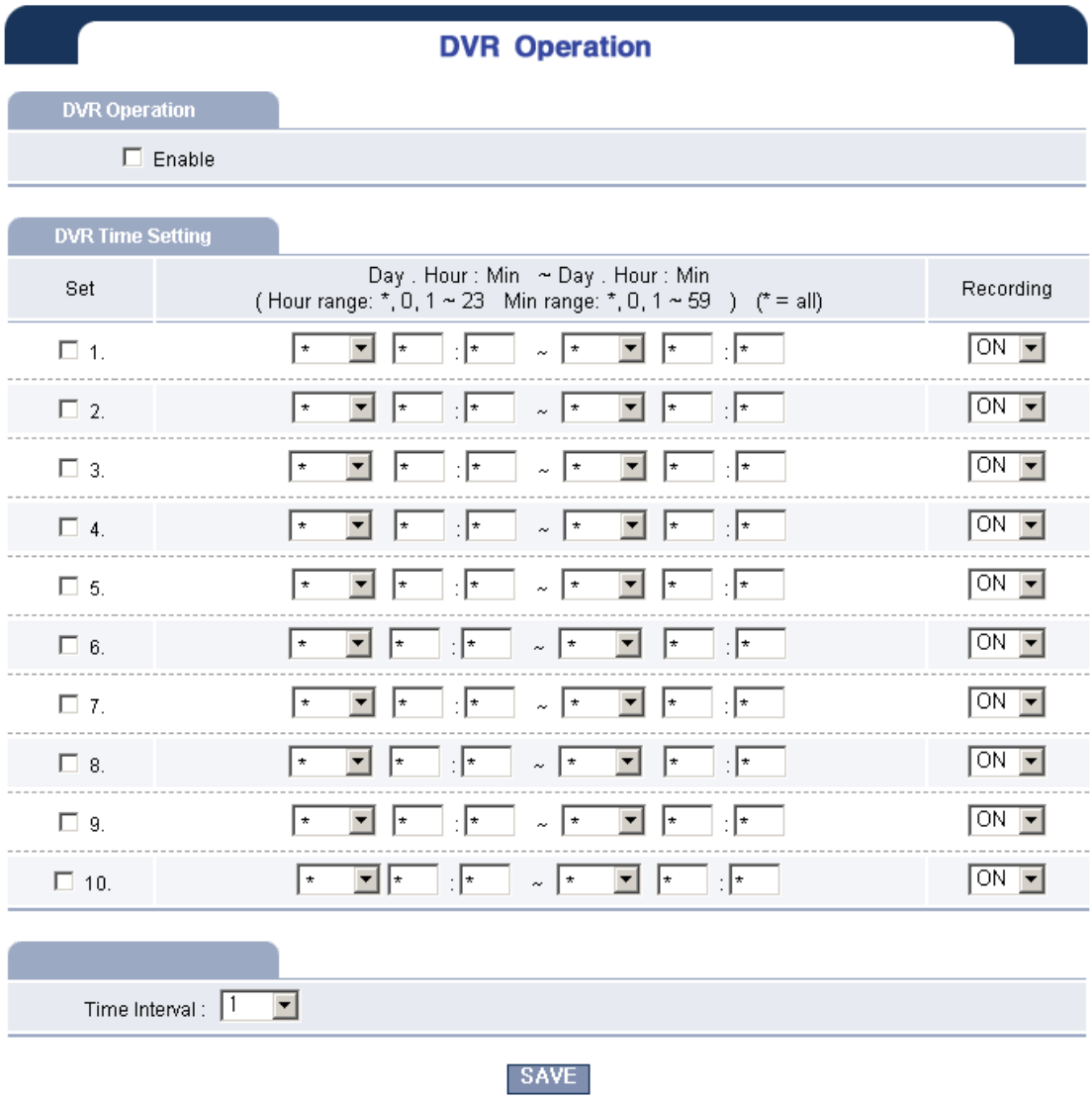
3) User Name/User Password/Confirm Password:
Input a ID and password for FTP server
input a password once again for confirmation

* For Video1 / For Video2
1) Destination Path1:
Input the directory of FTP Server to save

2) Saved File Name1:
When saving the image, it includes the date which is saved a name and time information.

4-9 DVR Operation

* The Setting of transmitting of Video images to FTP Server and Saving along a time schedule



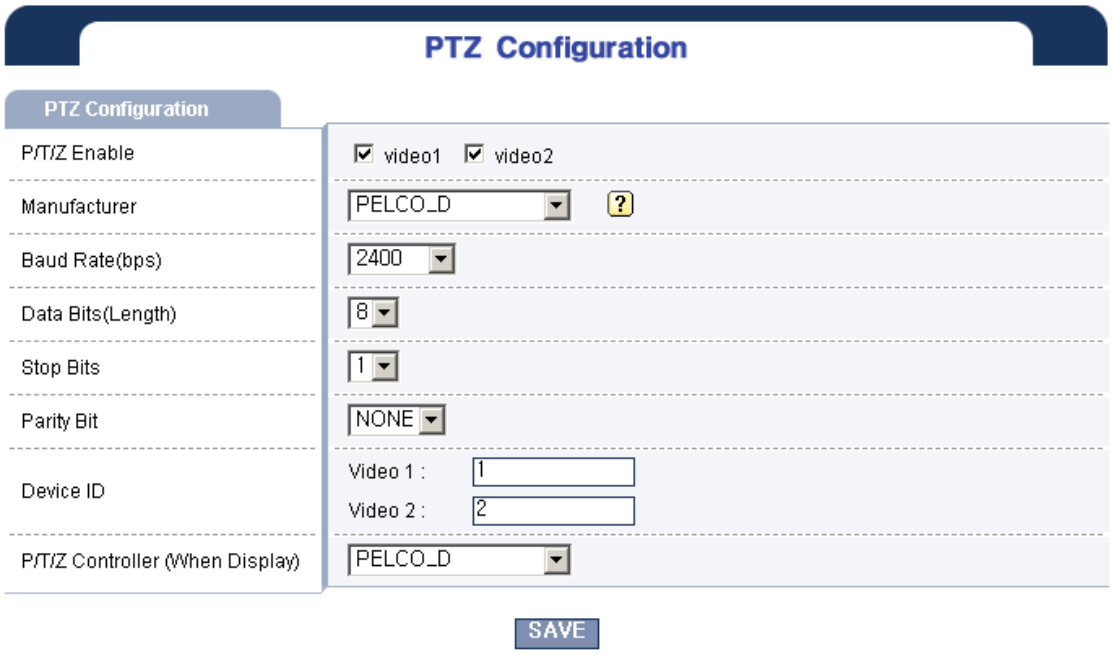
* DVR Operation
By control about all setting, you must select 'Enable' to make all function of saving operate. Disable make all action stop

* DVR Time Setting
It's the setting function regarding time schedule of saving. You can choose along a time schedule and set the adjustment ON/OFF

* Time Interval
You can determine the time gap of each images from 4 sheets in 1 second to 1 sheet in 1 minute.

4-10 PTZ Configuration

* The setup of P/T/Z control.



*PTZ Configuration

1) P/T/Z Enable

Select video channel connected to P/T/Z receiver.

2) Manufacturer

Select P/T/Z receiver manufacturer. Since P/T/Z receiver protocol is different according to manufacturing companies, it must be set up correctly, if not, P/T/Z function does not operate.

Clicking the (?) button shows the default values of following items for each manufacturer.

3) Baud Rate

Set up Baud Rate to make communication with P/T/Z receiver. Please refer to P/T/Z receiver manual to find set up value.

4) Data Bits

Select Data Bits between 7 bits/ 8bits according to P/T/Z receiver. Please refer to P/T/Z receiver manual to find set up values.

5) Stop Bits

Select Stop Bits between 1bit/2bits according to P/T/Z receiver. Please refer to P/T/Z receiver manual to find set up values.

6) Parity Bit

Select a Parity Bits among None/Odd/Even according to P/T/Z receiver. Please refer to P/T/Z receiver manual to find set up values.

7) Device ID

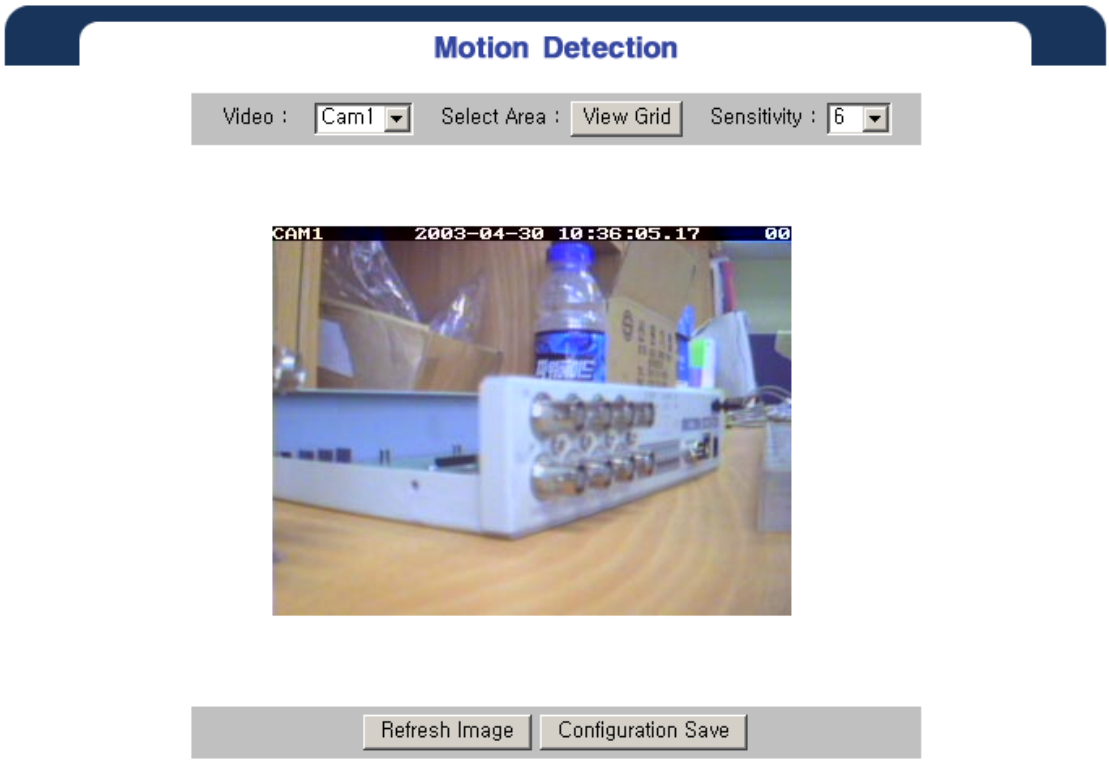
Set up each ID of P/T/Z receiver. ID must be set up as numbers by referring to P/T/Z

receiver manual.

8) P/T/Z Controller
Set up P/T/Z Controller according to user's specification.

4-11 Motion Detection

* The setup of the area and sensitivity of Motion Detection



* The area of the Motion Detection
1) Video:
Choose the Camera to set Motion Detection.

2) Select Area [View Grid]

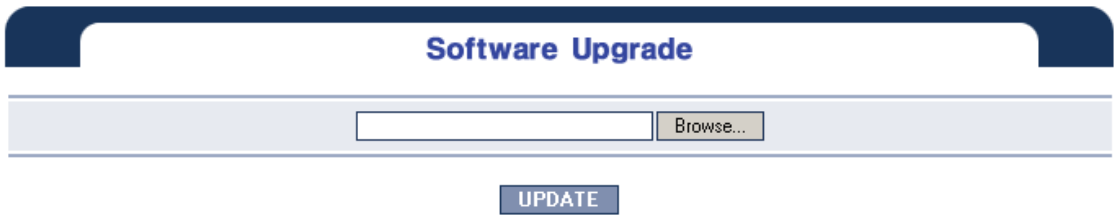
It displays a separated screen by 25 areas
Selected areas will be shown in different display. If click the specific area, which is going to monitor with a mouse.

3) Sensitivity
It displays the number of detection about selection area, and the lower the number is, the higher a detection is. The small movement detection is possible.

4) Refresh Image/Configuration Save:
'Refresh Image' is a function of being shown as a new look with the current displayed image.
'Configuration Save' is the button to save the current setting contents

4-12 Software Upgrade

* The way of Software Upgrade Remotely



* Firmware Upgrade / Update

1) Download the newest Software from the web sites which provide upgrade file and save in PC

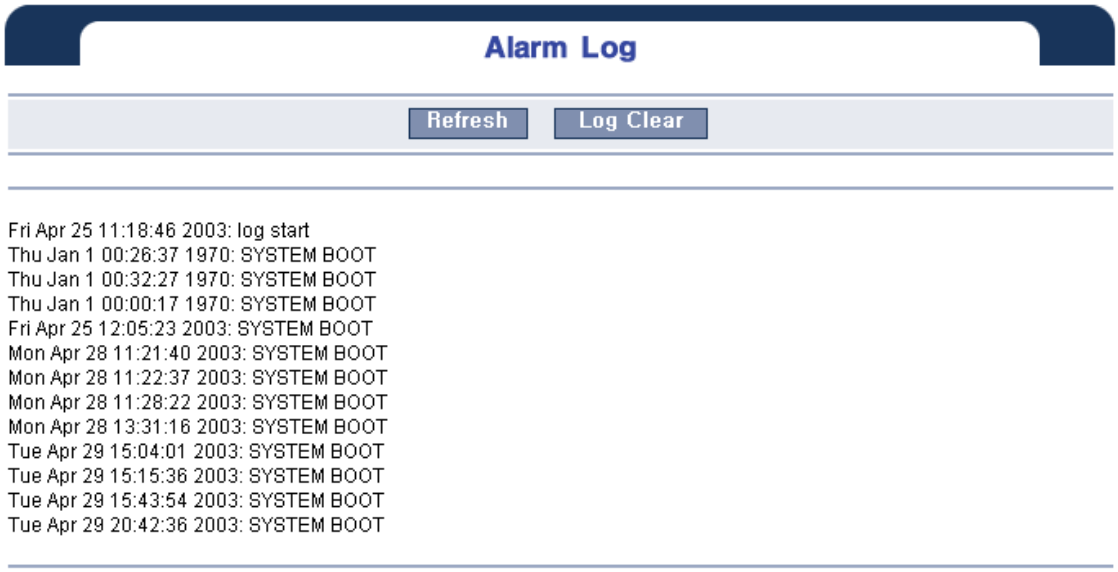
2) Click 'Browse' button and select the files that was saved through the search window.

3) Click update button and wait until the window, which notices completion, will appear, and then re-boot in System Configuration.

4) After starting upgrade, if you close a window on the way or plays a re-opening, fatal damage can be added, you must be careful

4-13 Alarm Log

* It is the function about change situation of a system and a LOG saving about the alarm occurrence



* Refresh

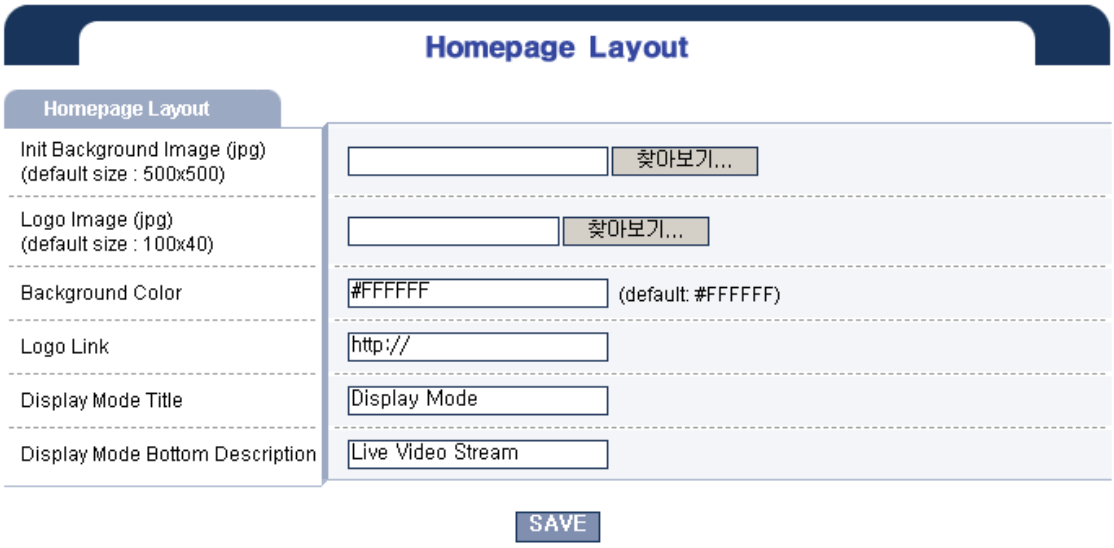
A function to bring a new log about current alarm state

* Log Clear

A function to delete a current saving log

4-14 Homepage Layout

* As the Management on Web Server, it's the function of an initial screen and a logo change



* Homepage Layout

1) Init Background Image (JPG):
The function which can set an image to an initial screen.
Select the 'LOGO image' that is going to change through 'Seeking', The optimum size is 500*500 and the file must be format by JPEG format

2) Logo Image(JPG):
The function that can set a 'LOGO image' of each screen
Select the 'LOGO image' that is going to change through 'Seeking', The optimum size is 100*40 and the file must be format by JPEG

3) Background Color:
The function that can set an overall screen background color
Refer to RGB Code and set up

4) Logo Link:
The function that make a connect to relevant links
Input the address without removing 'http://'
e.g.) http://www.abc.com

5) Display Mode Bottom Description:
The function is that can input characters at the screen bottom
it is shown only in MS Explorer

4-15 Version Information & Others

* The function to display version of a product

Homepage Layout

Version Information

Software	Version
system	17,139,22
application	1,7
homepage&cgi	1,3,9
activex	1,0,2,2
kernel	2,4,5-rmk5-np1
MAC	00:30:ba:ff:24:50

* Version Information

Software Version:

It is the current version of video server.

When you need firmware upgrade, please refer to this software version.

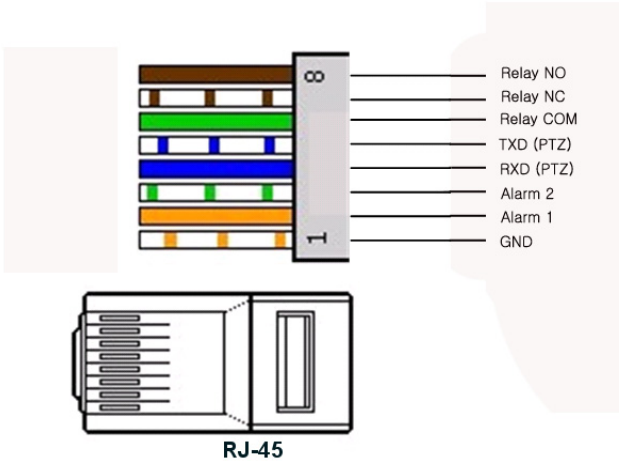
* Default Viewer & Java Viewer

When you need to return to the Display mode, you can select Display mode to look.

Appendix A. Alarm Setting Methods

* An alarm action of video server
A formation table about an alarm action is as follows

* The connection way of external digital alarm input appliances and output appliances
It is the picture about examples which showed an external alarm appliances connection with the RJ-45 connecter which is an alarm port and the name about each pin of the UTP cable which was provided in order to connect.



* Two alarm setting way forms
1) When an alarm generated by an external alarm sensor input,
Transmit external alarm appliances action and the images that are captured to FTP Server or E-mail of the manager

2) When a movement was detected by an image screen,
Transmit external alarm appliances action and the images that are captured to FTP Server or E-mail of the administrator

* The Setting way by an action of an external alarm sensor, when an alarm occurrs
1) An example about a connection is as follows
  * The connection of an external alarm input equipment-'Output of Infrared sensors (when the alarm occurs, +5V 10mA)'
  * The connection of an external alarm output equipment-'ON for 5 seconds, when the alarm siren occurs'
  * When the alarm occurs, 'transmit image captured to FTP Server and E-mail'

2) Select the Channel of Alarm input in Alarm Configuration and determine the type of voltage. When infrared sensors do an action, Display as +5 Voltage and Select 'N.C' in Alarm Input Type

Alarm Configuration

Alarm Configuration			
Sensor	☑ input1 ☐ input2 ☑ RelayOut	RelayOutTime(sec)	5
Motion Detection	☐ video1 ☐ video2 ☐ RelayOut	RelayOutTime(sec)	3
Video Loss Detection	☐ video1 ☐ video2 ☐ RelayOut	RelayOutTime(sec)	3
Alarm Input Type	N.O		
Transmission Method	☑ FTP ☑ Email		

3) When the alarm of Infrared sensors occur, in order to let alarm siren ring for five seconds, select 'Relay Out' in the same part and 5 second time limit to make action. And to transmit the images which were taken in that time, Select 'FTP' and 'E-mail' in the part of 'Transmission Method'

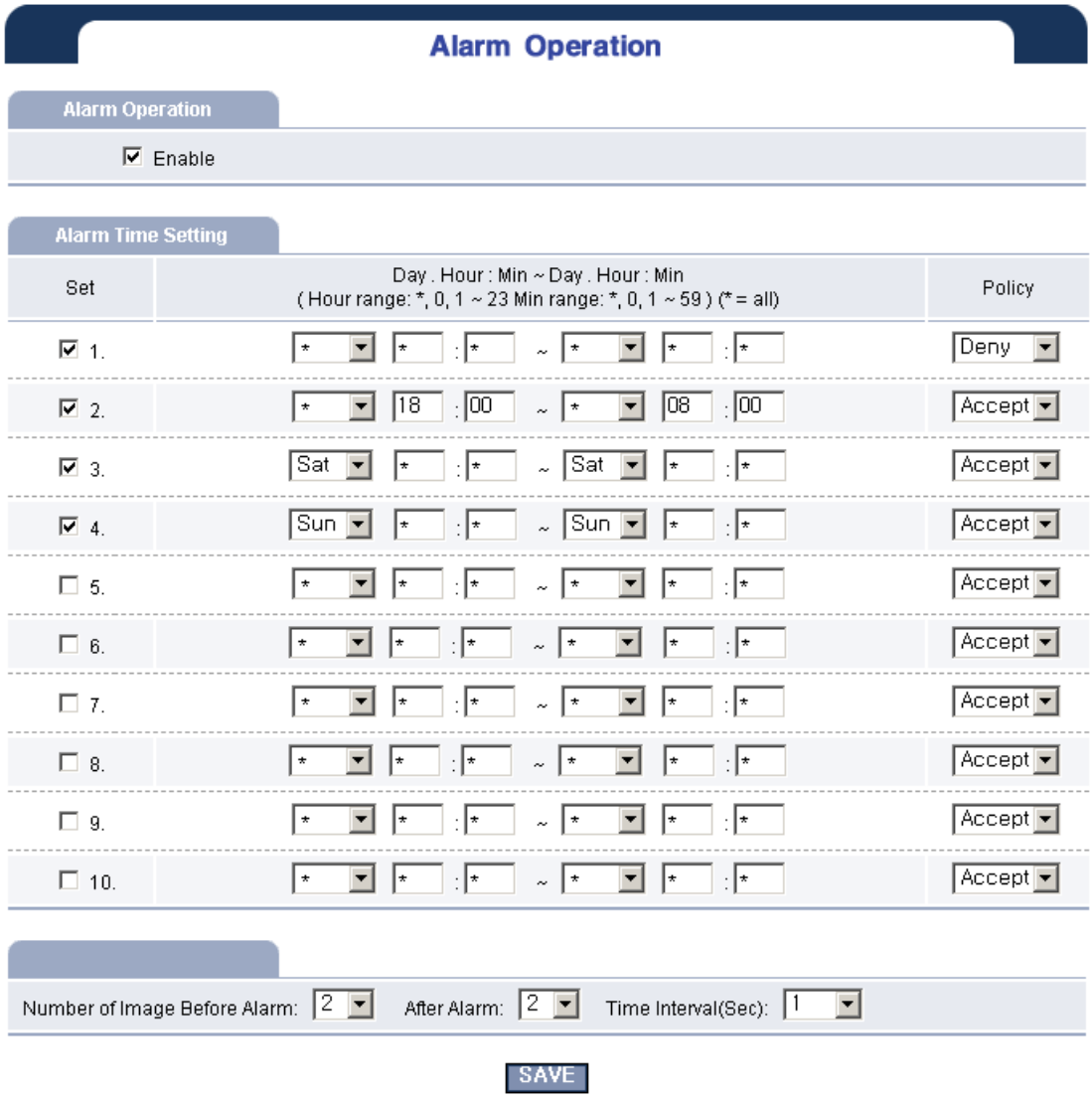
4) Click 'SAVE' to save the current setting contents, after input of the FTP Server address which will be sent and E-mail setting.

FTP Setting	
FTP Host	192.168.1.21
User Name	wcam
Password	●●●●
Confirm Password	●●●●
Destination Path	/sensor_1
Destination Saved File Name	sensor_1

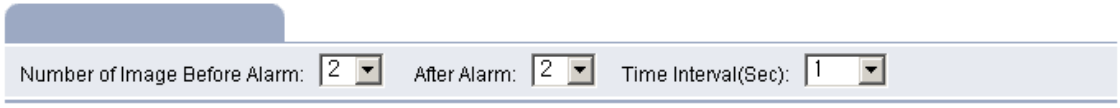
Email Setting	
Receiver Email Address	admin@webcam.com
Subject	alarm
Message ("Cannot include newline character")	sensor chnnel 1

SAVE

5) All alarm action will begin by selecting 'Enable' in 'Alarm Operation'. Possible to set along a time schedule. The following example is set up in order to operate every day in the time from 18:00 to 08:00 and all time on Saturday and Sunday.



6) The Setting about an image to capture is, after deciding on how many images to capture, setting up time for every each image to capture.
The following example captures 2 images after the occurrence and 2 images before the occurrence



It will send 5 images (2 pre. 2 post, 1 triggered), Time interval is 1 second

At the same time as clicking 'SAVE', all alarm setting will start.

* Setting Alarm, when a movement was detected in the image screen
1) An example of contents about a connection is as follows
* The Setting of 'Motion Detection' image detection area
* The connection of an external alarm output equipment 'ON for 5 seconds, when the alarm occurs'
* When the alarm occurs, 'transmit image captured to FTP Server and E-mail'

2) Select Motion Detection in video channel to set in Alarm Configuration

Alarm Configuration

Alarm Configuration			
Sensor	☐ input1 ☐ input2 ☐ RelayOut	RelayOutTime(sec)	3
Motion Detection	☑ video1 ☐ video2 ☑ RelayOut	RelayOutTime(sec)	5
Video Loss Detection	☐ video1 ☐ video2 ☐ RelayOut	RelayOutTime(sec)	3
Alarm Input Type	N.O		
Transmission Method	☑ FTP ☑ Email		

3) When a movement was detected in a video image, in order to let alarm siren ring for five seconds, select 'Relay Out' and choose 5 in RelayOutTime (sec) section.
And to transmit the images which were taken in that time, Select 'FTP' and 'E-mail' in the part of 'Transmission Method'

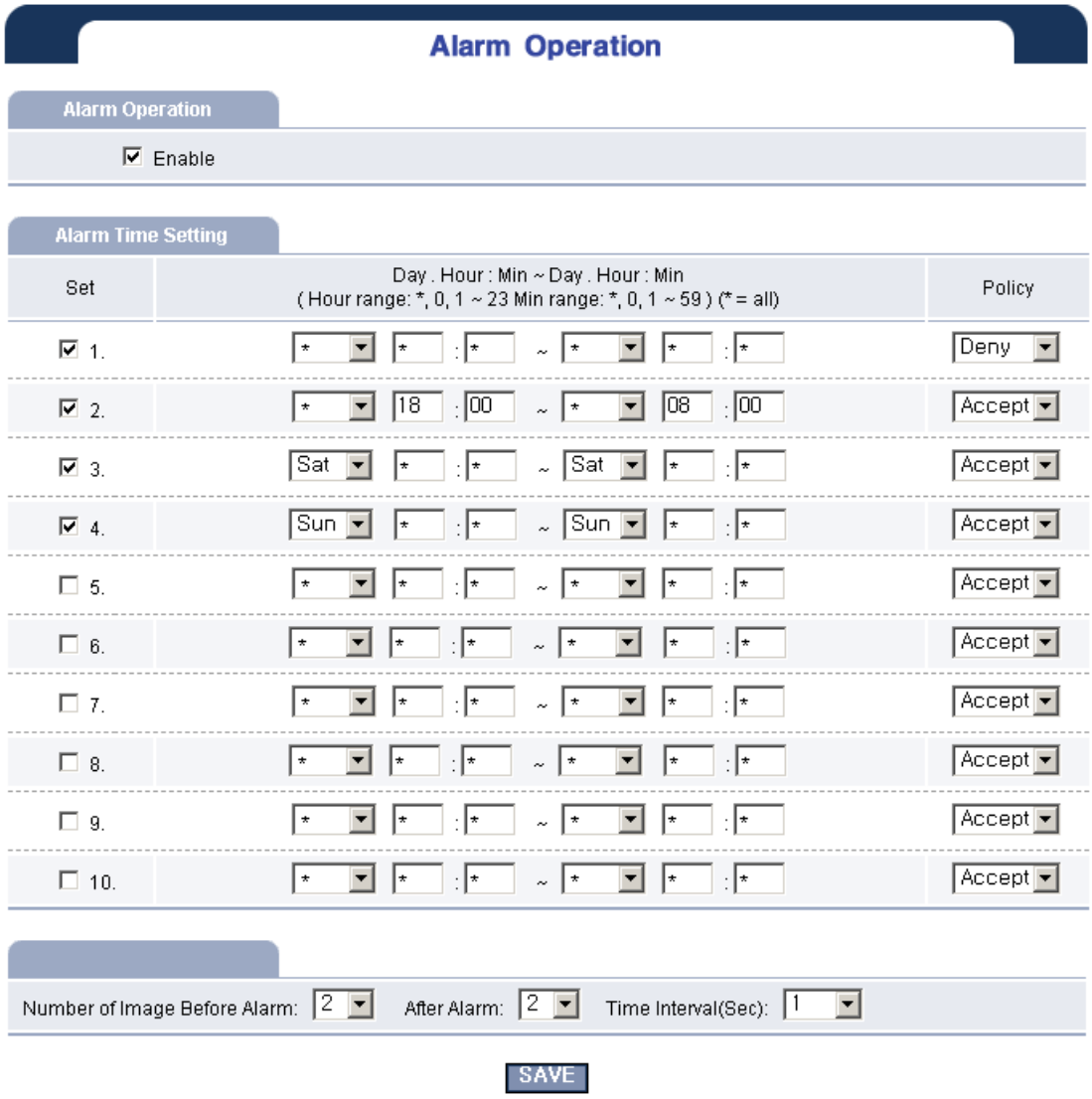
4) Click 'SAVE' to save the current setting contents, after input of the FTP Server address or email address which you want to receive alarm triggered images.

FTP Setting	
FTP Host	192.168.1.21
User Name	wcam
Password	●●●●
Confirm Password	●●●●
Destination Path	/motion
Destination Saved File Name	motion

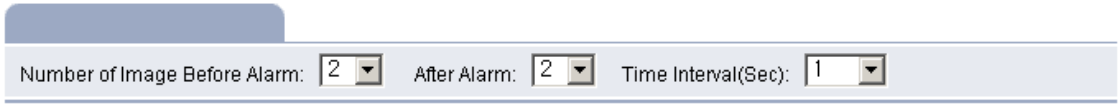
Email Setting	
Receiver Email Address	admin@wcam.com
Subject	motion
Message ("Cannot include newline character")	motion detection

SAVE

5) All alarm action will begin by selecting 'Enable' in 'Alarm Operation'. Possible to set along a time schedule. The following example is setup in order to operate every day in the time from 18:00 to 08:00 and all time on Saturday and Sunday.



6) The Setting about an image to capture is, after deciding on how many images to capture, setting up time for every each image to capture.
The following example captures 2 images after the occurrence and 2 images before the occurrence



It will send 5 images (2 pre. 2 post, 1 triggered), Time interval is 1 second

At the same time as clicking 'SAVE', all alarm setting will start.

Appendix B. IP Filtering Methods

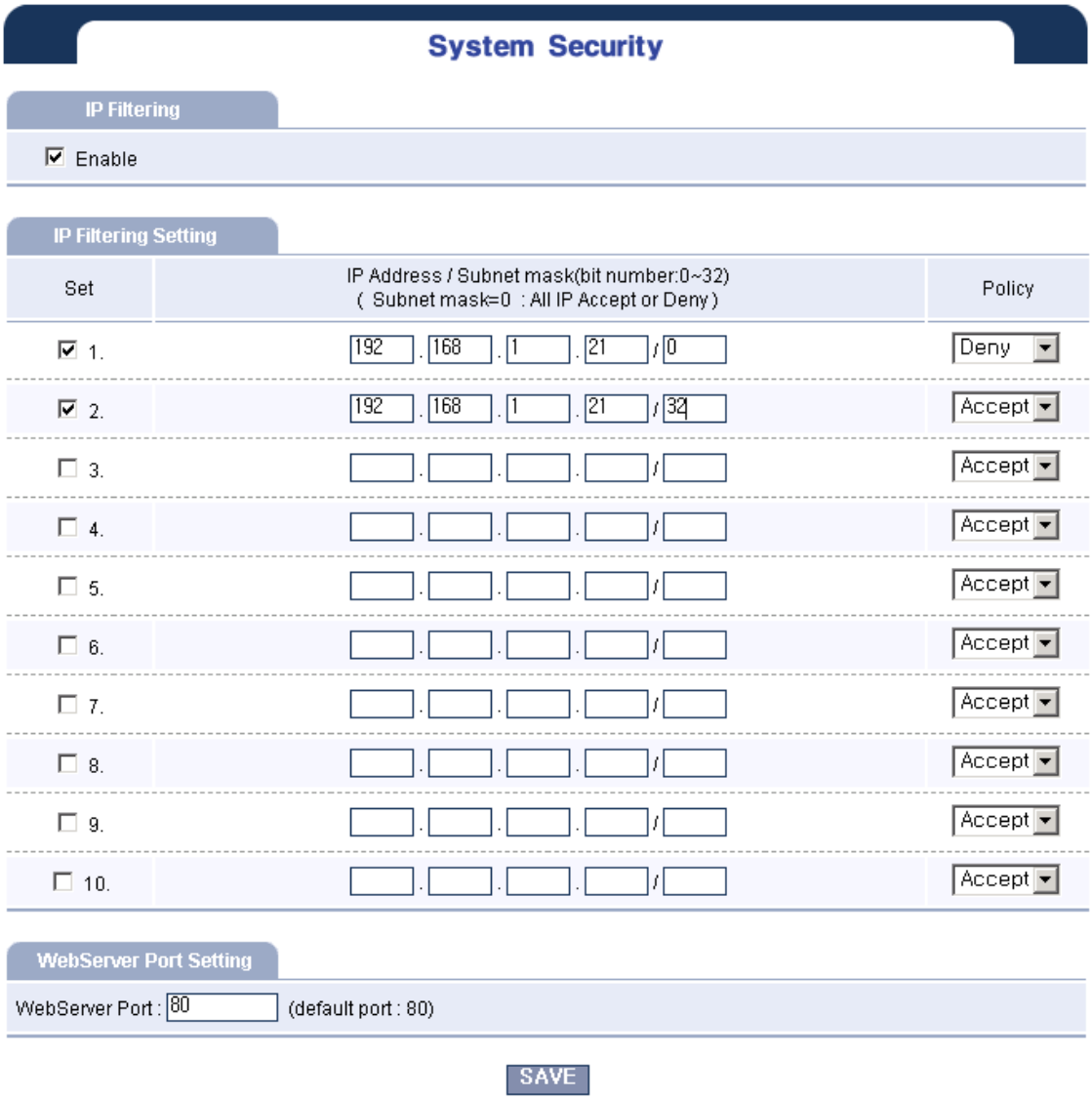
* The rule of IP Filtering
the security capability that onlly a specific IP address or network group can approach or restrict, a formation table is as follows

* The Setting Number of IP Address and Subnet Mask
1) The IP Address means the specific address which is needed to set
2) After changing the setting number of Subnet mask to the number of Bit, it's the sum of '1'bit's number. Use the result that the number of Bit changed from IP address and Subnet Mask.

192.X.X.X group : along to 255.0.0.0, the number of bit is 8
192.168.X.XXX group : along to 255.255.0.0, the number of bit is 16
192.168.1.X group : along to 255.255.255.0, the number of bit is 24
and others : along to 255.255.255.128, the number of bit is 25
along to 255.255.255.192, the number of bit is 26
along to 255.255.255.224, the number of bit is 27
along to 255.255.255.240, the number of bit is 28
along to 255.255.255.248, the number of bit is 29
along to 255.255.255.255, the number of bit is 32

* Four representative functions of IP Filtering
1) The approach permission for a specific IP user olny
2) The approach restriction for a specific IP user olny
3) The approach permission for a user belonging to specific Network Group only
4) The approach restriction for a user belonging to specific Network Group only

*** An approach permission for the specific IP user only**
1) To permit for a user who has a specific IP address, the order is as follows
Firstly, 'Restrict every connection'
Secondly, 'Permit of approach for the specific IP address'
Thirdly, Click 'Save' and 'Re-boot' the system
2) For example, If permit '192.168.1.21'only, as follows
<u>Interpretation of '192.168.1.21/0-Deny</u>
According to 192.168.1.21 AND 0.0.0.0=0.0.0.0, all IP address have a result like 0.0.0.0., they are restricted to access
<u>Interpretation of '192.168.1.21/31-Accept</u>
According to 192.168.1.21 AND 255.255.255.255=192.168.1.21, If the accessed IP address is same as this, they are allowed to access

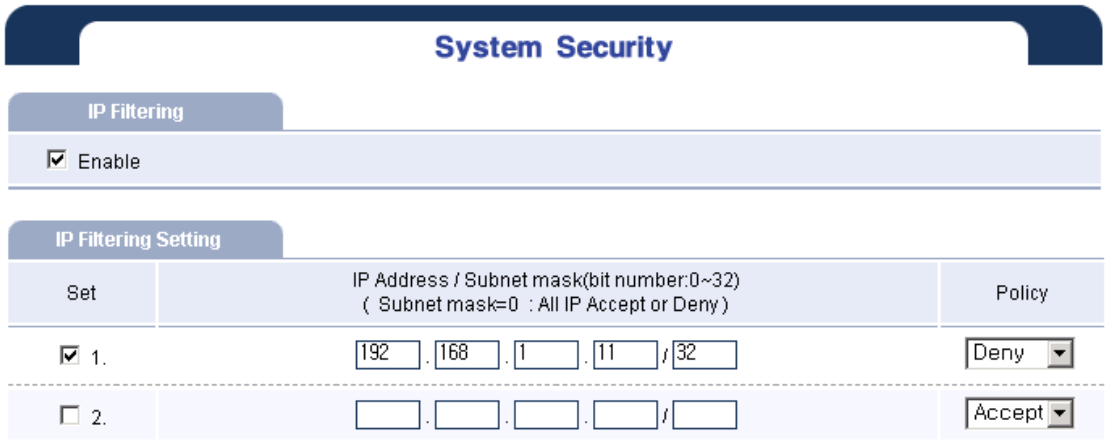


A practicing sequence is as follows
1.'The accessed IP address' AND '0.0.0.0'='0.0.0.0' and '0.0.0.0' are same, therefore all IP addresses are restricted
2. The IP address which is confirmed in '1' needs to apply confirmation procedures once again in'2'
If they are the same that 'the accessed IP address' AND '255,255,255,255'='the accessed IP address and '192.168.1.21', 'ACCEPT', which means they are allowed to access.

*** An approach restriction for the specific IP user only**

1) To restrict for a user who has a specific IP only, the order is as follows
Firstly, 'Permit every connection'
Secondly, 'Restrict of approach for the specific IP address'
Thirdly, Click 'Save' and 'Re-boot' the system

2) For example, If restrict '192.168.1.21'only, as follows
Interpretation of '192.168.1.11/32-Deny
According to 192.168.1.21 AND 255.255.255.255=192.168.1.11, If the accessed IP address is same as this, they are restricted to access

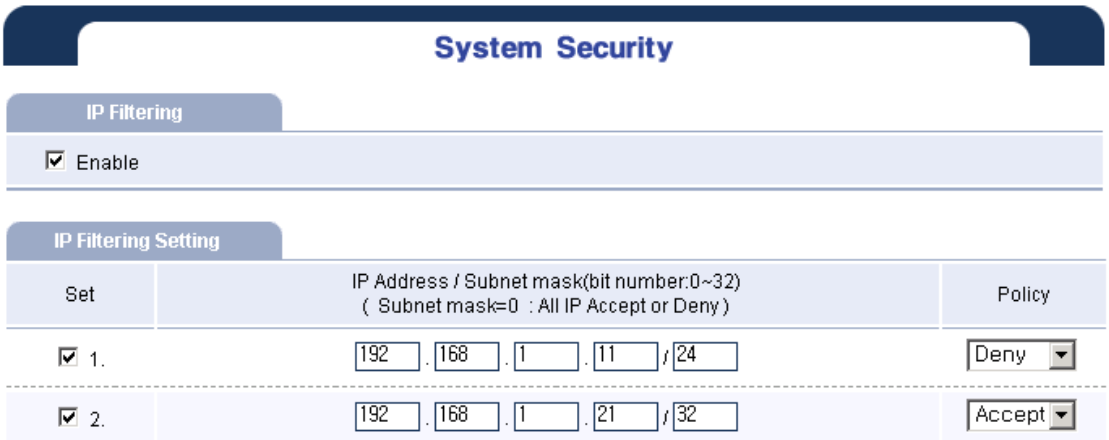


A practicing sequence is as follows
1. If 'the accessed IP address' AND '255.255.255.255.'='the accessed IP address' are same as '192.168.1.11', they are restricted to access

*** The Approach restriction for a user belonging to specific Network Group only**

1) To restrict for a user who belonging to specific Network Group only, the order is as follows
Firstly, 'Restrict every connection of the user who belonging to specific Network Group'
Secondly, 'Permit connection of the manager's IP address in specific Network Group'
Thirdly, Click 'Save' and 'Re-boot' the system

2) For example, Approach Restriction of the Network Group which uses '192.168.1.(1~255) and Approach permission of the manager's IP 192.168.1.21, as Follows
Interpretation of '192.168.1.11/24-Deny
According to 192.168.1.11 AND 255.255.255.0=192.168.1.0, the accessed IP address is same as this, it is restricted to access
Interpretation of '192.168.1.21/32-Accept
According to 192.168.1.21 AND 255.255.255.255=192.168.1.21, If the accessed IP address is same as this, this is allowed to access

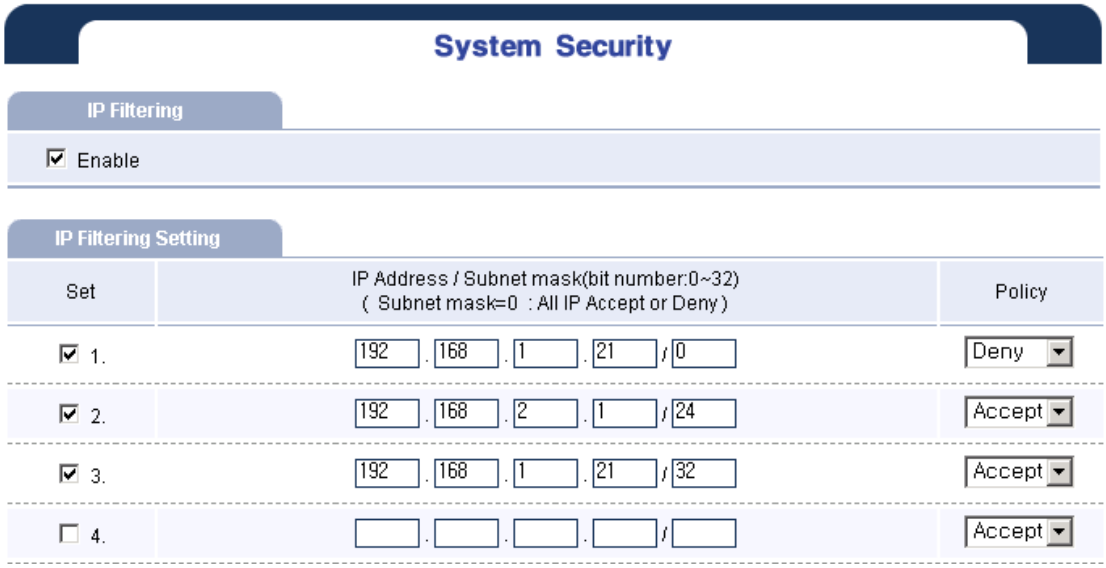


A practicing sequence is as follows
1. If it is the same as 'the accessed IP address' AND '255.255.255.0'='192.168.1.0', the IP addresses are restricted
2. the IP address which is confirmed in '1' needs to apply confirmation procedures once again in'2'
If they are the same that 'the accessed IP address' AND '255,255,255,255'='the accessed IP address and '192.168.1.21', 'ACCEPT', which means they are allowed to access.

*** The Approach Permission for a user belonging to specific Network Group only**

1) To permit for a user who belonging to specific Network Group only, the order is as follows
Firstly, 'Restrict every connection of the user who belonging to specific Network Group'
Secondly, 'Permit of approach for the IP address in the specific Network Group'
Thirdly, 'Permit connection of the manager's IP address
Fourthly, Click 'Save' and 'Re-boot' the system

2) For example, Approach Permission of the Network Group which uses '192.168.2.(1~255) and Approach permission of the manager's IP 192.168.1.21, as Follows
Interpretation of '192.168.1.21/0-Deny
According to 192.168.1.21 AND 0.0.0.0=0.0.0.0, all IP address have a result like 0.0.0.0., they are restricted to access
Interpretation of '192.168.1.21/31-Accept
According to 192.168.1.21 AND 255.255.255.255=192.168.1.21, If the accessed IP address is same as this, they are allowed to access



A practicing sequence is as follows
1. 'The accessed IP address' AND '0.0.0.0'='0.0.0.0' and '0.0.0.0' are always same, therefore all IP addresses are restricted
2. the IP address which is confirmed in '1' needs to apply confirmation procedures once again in'2'
If they are the same that 'the accessed IP address' AND '255,255,255,0'='the accessed IP address and '192.168.2.0', 'ACCEPT', which means they are allowed to access.
that is the IP address of '192.168.2.(1~255) in Network is allowed to access

3. the IP address which is confirmed in '2' needs to apply confirmation procedures once again in'3'
If they are the same that 'the accessed IP address' AND '255,255,255,255'='the accessed IP address and '192.168.1.21', 'ACCEPT', which means they are allowed to access.

Appendix C. Technical Specification of Video Server

* Technical Specification

Item	Description
Video Compression	Standard JPEG/MJPEG
Video Input/Output	Analog Video 1 CH input and 1 CH output, Or Analog Video 2 CH inputs.
Video Resolution	640x480, 640x240, 320x240, 224x176, 160x120
Frame Rate	Max 30fps (CGI Read Frame Control 1~30 fps)
Supported Protocols	TCP, ARP, FTP, SMTP, DHCP, HTTP, RTP, PPPoE, PPP, 802.11b
Alarm Operation	Image Motion Detection, Sensor Input
Alarm Trigger	Time(Week/Hour/Minute), Alarm Active
DVR Operation	Save to nomal FTP Server and NetStorage
DVR Trigger	Time(Week/Hour/Minute)
Ethernet Interface,	10/100 Base-T RJ-45 connector
PCMCIA Slot x1 (*Option)	Wireless LAN PC card (802.11b)
	CDMA Wireless Network Card
RS232C	PSTN/ISDN Modem RJ-45 connector
Alarm Sensor I/O	Input : Digital input 2CH Output : Relay Out 1CH
PTZ Controller	RS485(TxD, RxD) for PTZ
LED Display	Power, Link of Network indicator
Dimension	86(W) x 35(H) x 116(L) mm
Weight	700 g
Power Expenses	Normal 12.0 W Recommend - Adapter DC12V @ 1.5 A

Appendix D. Factory Default Setting

* Factory Default of Admin Configuration

If click 'RESET' button on product base or a Factory Default button in System Configuration, They are the contents about setting of each menu

By the PRESET, all setting become initialization

By the Factory Default, all setting except Network Configuration and System Security become initialization

System Management	Configuration		
Video Configuration	Video Display	Video 1	Enable
		Video 2	Enable
	Video Input Type		NTSC
	Image Resolution		320*240
	Video quality		Normal
	Video Sequential Time		2
	Date & Time		Enable
	Camera ID		Enable
	Camera ID	Video 1	CAM1
		Video 2	CAM2
	Network Camera / Server Name		WCAM
	Frame per Second		10
System Configuration	Time / Sync with Computer time		Blank
	Admin ID/Password		Admin/admin0
	User ID/ Password		Blank
System Security	Disable / Disable / Blank / Accept/Webserver Port 80		
Network Wired	Common Part	DNS Server1	Blank
		DNS Server2	Blank
		SMTP Server	Blank
		DDNS Server1	211.116.232.66
		DDNS Server2	ns.wisecam.co.kr
		Dial In	Disalbe
		Network Type	Static IP
	Static IP	IP Address	192.168.1.100
		Subnet Mask	255.255.255.0
		Gateway	192.168.1.1
	PPP	PPP Type	DialOut_Default
		Operation Type	Always
		Phone Number	Blank
		User Name	Blank
		User Password	Blank
		Confirm Password	Blank
		Init Command	Blank

	PPPoE	User Name	Blank
		User Password	Blank
		Confirm Password	Blank
Network Wireless	Common Part	DNS Server1	Blank
		DNS Server2	Blank
		SMTP Server	Blank
		DDNS Server1	211.116.232.66
		DDNS Server2	ns.wisecam.co.kr
		Dial In	Disalbe
		Network Type	Static IP
	Wireless Lan	IP Address	192.168.2.200
		Subnet mask	255.255.255.0
		Gateway	192.168.2.1
		Operating mode	Infrastructure
		ESSID	wcam
		WEP	Disable
		Key1~4	Blank
		Default Key	1
	CDMA	CDMA Type	Default
		Operation Type	Always
		Phone number	Blank
		User name	Blank
		User password	Blank
		Confirm password	Blank
		Init command	Blank
Alarm Configuration	Alarm Configuration	Sensor/Relay Time	Disable / 3sec
		Motion Detection /Relay Time	Disable / 3sec
		Video loss detection /RelayTime	Disable / 3sec
		Alarm Input Type	N.O
		Transmission Method	Disable
	FTP Setting	FTP Host	Blank
		User Name	Blank
		Password	Blank
		Confirm Password	Blank
		Destination Path	Blank
		Destination Saved File Name	Blank
	Email Setting	Receiver Email Address	Blank
		Subject	Blank
		Message	Blank

Alarm Opreation	Disable / Disable / (*=all) / Accept		
DVR Configuration	DVR Configuration	Video Selection	Disable
		FTP Host Address	Blank
		USER Name	Blank
		User Password	Blank
		Confirm Password	Blank
	For Video1	Destination Path1	Blank
		Saved File Name1	Blank
DVR Operation	Disable / Disable /(*=all) / On		
PTZ Configuration	P/T/Z Enable		Disable
	Manufacturer		PELCO_D
	Baud Rate		2400
	Data Bit		8
	Stop Bit		1
	Parity Bit		NONE
	Device ID	Video 1	1
		Video 2	2
	P/T/Z Controller		PELCO_D
Motion Detection	Video		Cam1
	View Grid		Blank
	Sensityvity		6
Software Upgrade	Blank		
Alarm Log	“Log Start”		
Homepage Layout	Init Background Image		Blank
	Logo Image		Blank
	Background Color		#FFFFFF
	Logo Link		http://
	Display Mode Title		Display Mode
	Display Mode Bottom Description		Live Video Stream
Version Information	System		17.139.22
	Application		1.7
	Homepage & Cgi		1.3.9
	Activex		1.0.2.2
	kernel		2.1.5-rmk5-np1
	MAC		Oneself