

MPEG4 Video Web Server

1 Kanal mit WLAN Funktion



Installations- und Betriebsanleitung

SSAM INTERNATIONAL

Die ganze Welt der Sicherheit unter www.ssam.com

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Sicherheitshinweise

Dieses Gerät darf nur von konzessionierten Facherrichtern installiert werden.
Beachten Sie die örtlich gültigen Elektro- Installationsvorschriften.
SSAM räumt eine Gewährleistung von 12 Monaten ab Kaufdatum ein.
Bitte beachten Sie die Einhaltung der lokal geltenden Arbeitsschutzvorschriften (z.B. Gehörschutz bei Installation einer Sirene)!

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Eigenschaften

- 1 Kanal Echtzeit Video und Audio Streaming
 MPEG-4 (Video), ADPCM (Audio)
- 2 Wege Audio Kommunikation

Echtzeit Audio Kommunikation zwischen Web Server und PC

- Aufnahme und Wiedergabe Funktion
- 1 Alarm Sensor Eingang / 1 Relais Ausgang
- Bewegungs Erkennung – Bis zu 3 Bereiche
Beliebig wählbare Erkennungsbereiche
Die Bewegungs Erkennung startet die Aufzeichnung, welche zum Benutzer über FTP oder email gesendet wird.
- Auflösung
 - PAL: 704x576, 352x288, 176x144
- RS-485 Interface zur PTZ Steuerung (z.B. Pelco-D)
- Fernkonfiguration
Konfiguration und Update des Video Servers
- Eingebautes WiFi Interface – IEEE 802.11b/g

Lieferumfang

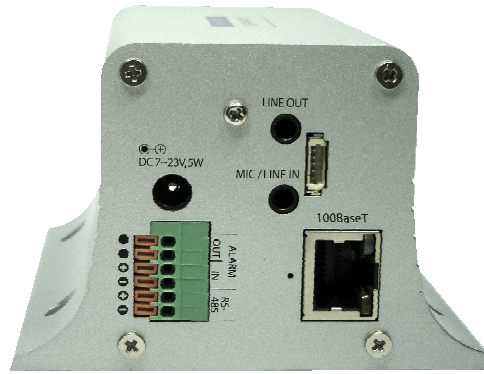
Komponenten	Beschreibung
Server	Video Web Server
Netzteil	Eingang: 100~250V 50-60Hz Ausgang: 12VDC, 1.0A
AC Spannungskabel	250VAC, 10A~16A
Antenne	
CD-ROM	Software & Anleitung
Anleitung	

Frontansicht



VIDEO IN - BNC Video Anschluss

Rückansicht



LINE OUT – Audio Ausgang

MIC / LINE IN – Audio Eingang



100BaseT – 100Mbps Ethernet Anschluss (RJ-45)

LINK LED (Gelb) – Status LED für Netzwerk Transfer

STATUS LED – Grün = Kamera Betriebsbereit / Rot = Kamera nicht bereit

RS232 & Video OUT:

Pin	Beschreibung
1	TxD von RS-232C
2	RxD von RS-232C
3	GND von RS-232C
4	Video Ausgang
5	GND von Video Ausgang

7-23VDC, 8W - Spannungseingang.

RS-485 und ALARM IN/OUT:

Pin	Beschreibung	Details
1	RS-485 (-)	PTZ Steuerung
2	RS-485 (+)	
3	Alarm Eingang (-)	NC/NO einstellbar im Menü
4	Alarm Eingang (+)	
5	Alarm Ausgang	Alarm Relais
6	Alarm Ausgang	

RESET – Werkseinstellungen laden

Drücken Sie den Reset Taster für mindestens 3 Sekunden um den Video Web Server auf Werkseinstellungen zurückzusetzen.

ANTENNENANSCHLUSS - Anschluss für 3dB WiFi Antennen

PC Voraussetzungen

	Mindestens	Empfohlen
CPU	Pentium III 700MHz	Pentium IV 1.2GHz
Arbeitsspeicher	128 MB	256MB
Betriebssystem	Windows 2000 oder höher	Windows 2000 oder höher
Web Browser	Internet Explorer 5.0	Internet Explorer 5.0
Auflösung	1,024 X 768	1,024 X 768
Netzwerk	10MBps	100MBps

Netzwerkanbindung

Lokal

Internet

3. Connecting iCanServer510/510W to Network

iCanServer510/510W supports LAN, xDSL, and Cable modem. It also supports shared IP environment where single IP address is shared by at least 2 IP devices. Refer to [\[IP-Installer User's Guide\]](#) for details of setting the IP address for iCanServer510/510W.

Figure 3-1. Connecting the iCanServer510/510W to LAN

1. Follow through steps 1 to 4 in Section 2.5 to assign IP address to iCanServer510/510W.
2. Install iCanServer510/510W and connect it to desired LAN.
3. Check if you can receive video data when connecting to iCanServer510/510W using the viewer program.
4. When one or more IP video products are connected through a IP sharing device (i.e. router) to a larger network (i.e. the internet), in order to access each unit from outside the local area network, each device must have a unique RTSP (Real Time Stream Protocol) and HTTP port number. You must also configure your IP sharing device for "port forwarding". This is to enable the IP sharing device to forward packet data with unique port number (RTSP and HTTP) to unique internal IP address (local IP address). If you only plan to access multiple units from within a local area network, you do not need to change the RTSP and HTTP port numbers, unless other IP sharing devices sit in-between the client and the IP video products. For more detailed information regarding the use of IP sharing device refer to the document [\[Use of Private IP network using IP-sharing-device\]](#).

3.2. Connecting to xDSL/Cable Modem

1. Follow through steps 1 to 4 in Section 2.5 to assign IP address and other network parameters to iCanServer510/510W.
2. Install iCanServer510/510W and connect it to xDSL or Cable modem as in Figure 3-2.

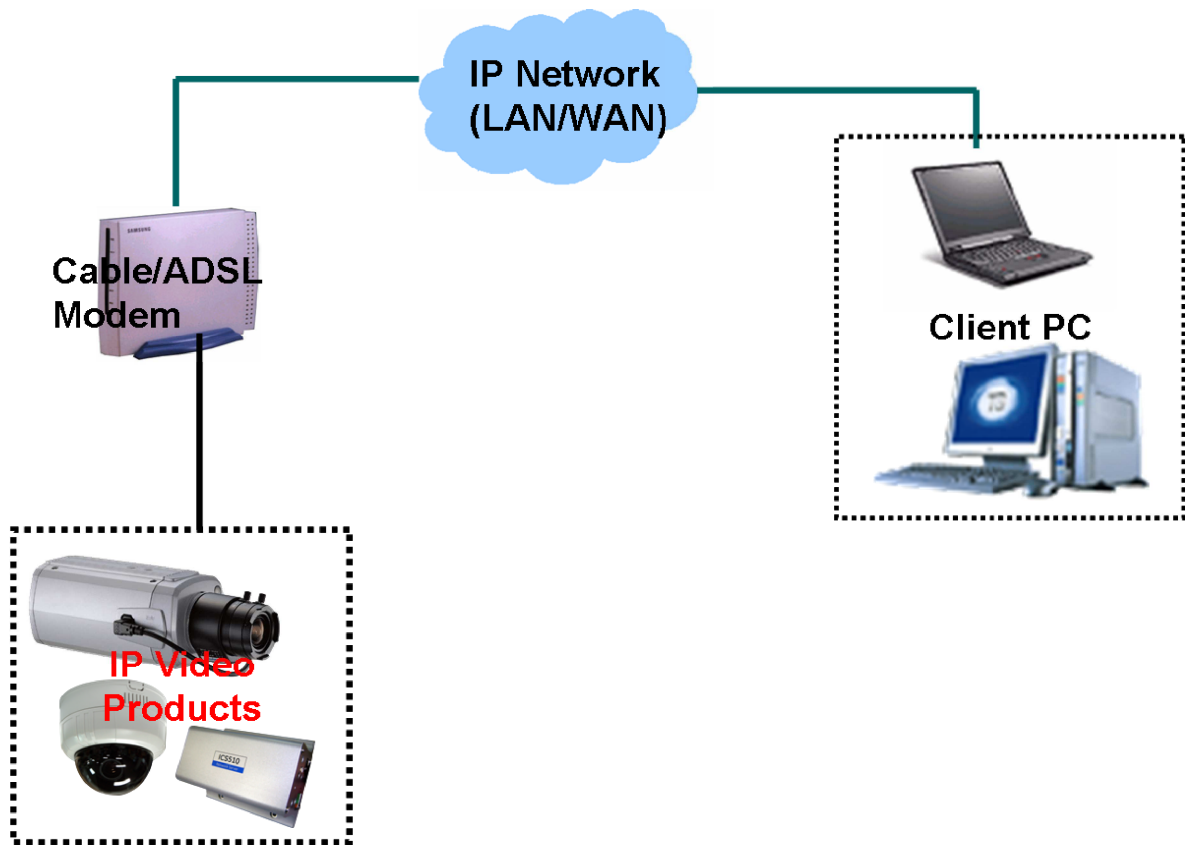


Figure 3-2. Connecting the iCanServer510/510W to ADSL Modem



When fixed IP address is assigned to the xDSL or Cable modem, follow the same way as assigning IP address for the case of LAN using IP-installer. To enable the notification of the changed IP address to the user over e-mail when the IP address is changed in floating IP environment, you have to assign the e-mail address when user name and password are input using IP-installer. **(Management server provides a convenient way of connecting to your video server under dynamic IP environment. Please refer to the Application note regarding "Management Server" in the CD.)**



When connecting iCanServer510/510W to xDSL or Cable modem, usually regular LAN cable is required. But since some modems has crossover connections, please contact your service provider for detailed information.

iCanServer510/510W needs IP network parameters for connection to the network (Internet/Intranet). IP-Installer is a PC program for the initial network configuration to IP video products such as Video server or A/V Server. IP-Installer is provided in a CD supplied with iCanServer510/510W or it can be downloaded from "www.icantek.com".

Detailed information of Installing and running IP-installer can be found in [IP-installer user's guide]

4.1. Main window of IP-Installer

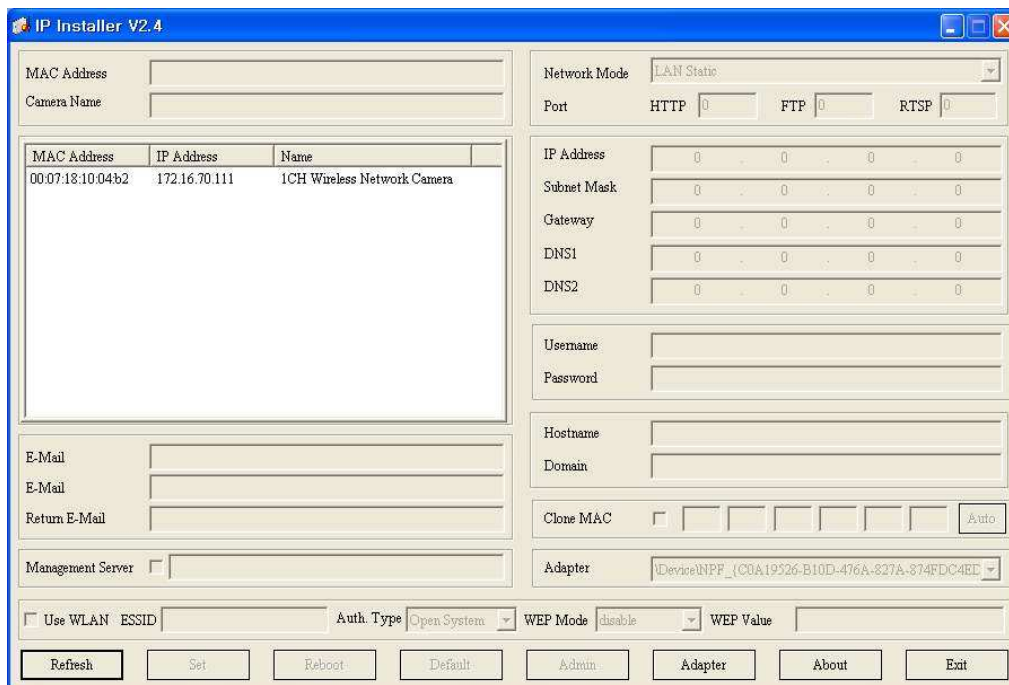


Figure 4-1. IP Installer

All the basic network parameters needed for the initial connection to IP video products can be assigned by IP-Installer. Once the basic parameters are assigned and the initial connection is successfully made, you can connect to the administration page for more sophisticated control of the network parameters and other operational parameters. Refer to Chapter 5 for more details of the administration page.

5. Configuring iCanServer510/510W in Administrative Mode

5.1. Log On

There are 2 ways of connecting to iCanServer510/510W administrative mode. One is through Internet Explorer and the other is through “**i-NVR**” program.

1. Using Internet Explorer

Type in the connection address of the video server in the address window of the Internet Explorer as followings:

[http://\[iCanServer510/510W IP address\]/admin.htm](http://[iCanServer510/510W IP address]/admin.htm)

Example: <http://172.16.64.133/admin.htm>

If you changed the HTTP port from default value you can login by typing in:

[http://\[iCanServer510/510W IP address\]:\[HTTP port\]/admin.htm](http://[iCanServer510/510W IP address]:[HTTP port]/admin.htm)

Example: <http://172.16.64.133:8080/admin.htm>

2. Log on from “**i-NVR**”


Select video channel in the viewing window of “**i-NVR**”. Selected video channel will be highlighted. Click  button on the right side of the display screen.



Figure 5-1. Select display channel and click “Camera Admin” button for Log on to administrative mode from “i-NVR”

3. Input User Name and Password in the display screen shown in Figure 5-2.



Figure 5-2. Log On Screen

Factory default User Name and Password are set as 'root' and 'dw2001', respectively. Click on "OK" button to enter into the Basic Setup page of Administrative Mode. If you have changed the username and password of the Administrator, you must log on with the changed username and password.

5.2. Basic Setup

Setup the basic parameters of the iCanServer510/510W.

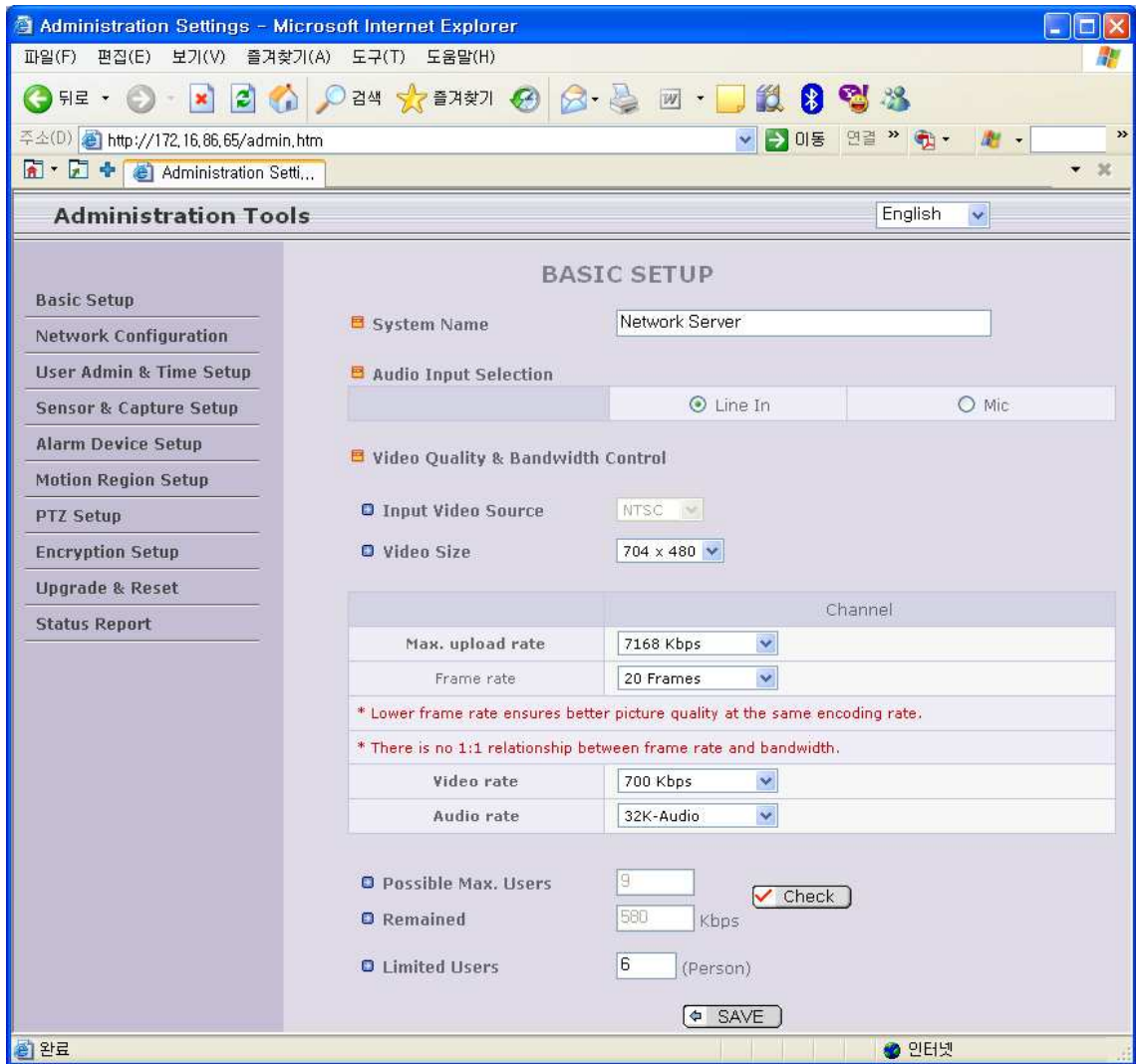


Figure 5-3. Basic Setup

Field/Button	Sub Field /Button	Description
Language		Select a language of your choice
System Name		Logical name of the iCanServer510/510W. It is same as the one set-up by IP-installer. You can reassign the system name.
Audio Input Selection		Select the type of input audio. <ul style="list-style-type: none"> Select Line In for using Line-out from audio devices. Select Mic for using microphone.
	Input Video	This filed is set by the factory

Video Quality & Bandwidth Control	Video Size	Select a video size for transmission- <ul style="list-style-type: none"> ● NTSC(30 frames/sec Max.) : 176x144 / 352x240 / 704x480. ● PAL/SECAM (25 frames/sec Max.) : 176x144 / 352x288 / 704x576
	Max upload rate	Assign maximum bandwidth of the uplink for the network connected to iCanServer510/510W.
	Frame rate	Assign number of video frames to be transmitted for each second. You can improve picture quality by lowering frame rate for the same bandwidth
	Video rate	Assign bandwidth for transmitting video data.
	Audio rate	Assign bandwidth for transmitting audio data. Audio data is not transmitted if you select "NA"
	Check	After you finish set up of video and audio for all the channels, click on this box to obtain the possible maximum number of users (Possible Max Users) and remaining network bandwidth (Remained) remaining when possible maximum users are connected
	Possible Max Users	It shows the number of maximum simultaneous connections for the network connection set-up.
	Remained	It shows the network bandwidth remaining when Possible Max Users are connected.
	Limited users	Useful network bandwidth varies according to the condition of the network. This parameter is used to limit the number of the simultaneous connections below the number shown in Possible Max Users .
Save		Save the set-up parameters when the set-up parameters are done.

5.3. Network Configuration

Setup the network parameters appropriately in accordance with your network environment. Many of the parameters in this page are same as those set up by “**IP-Installer**”.

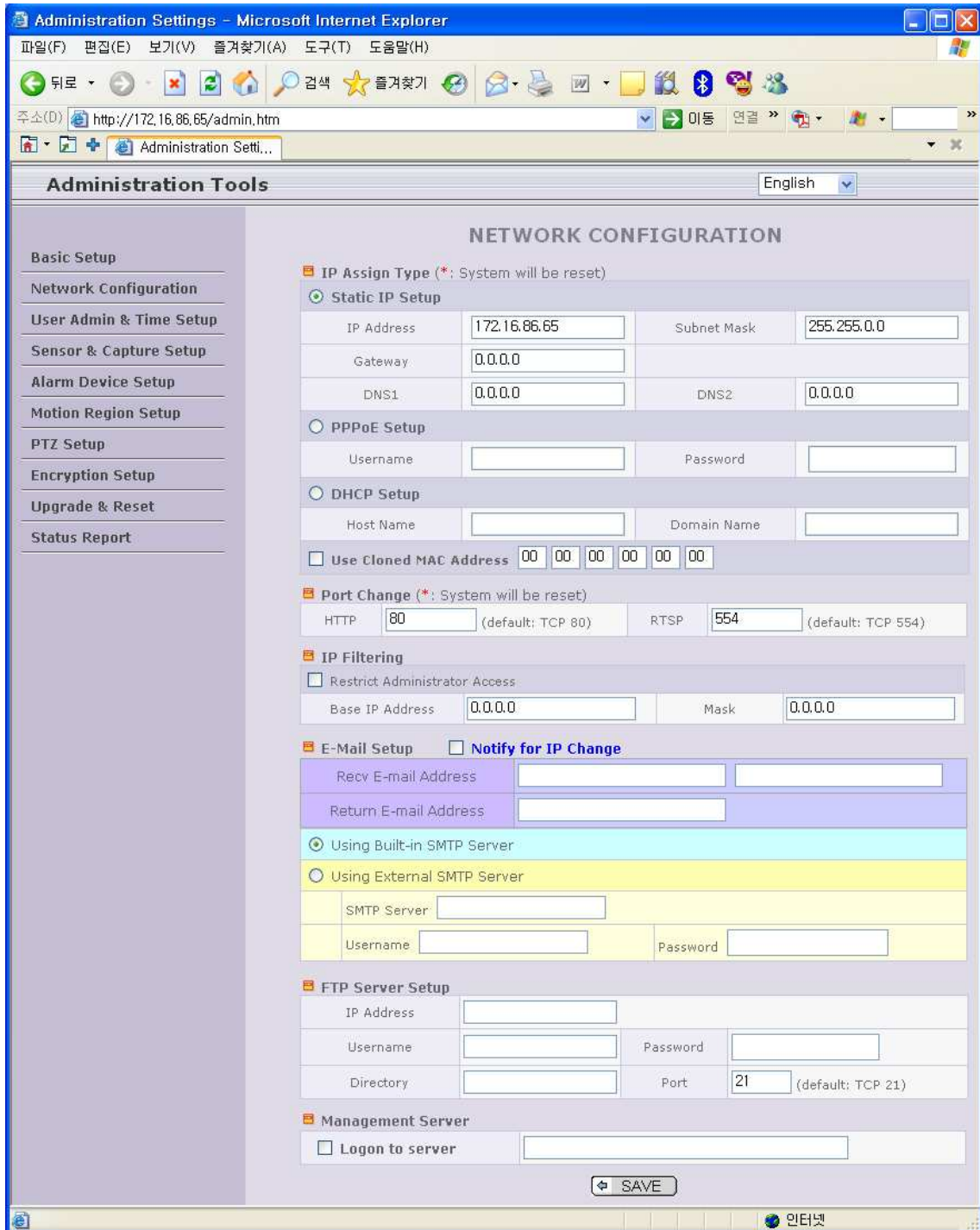


Figure 5-4. Network Configuration

Field/Button	Sub Field/Button	Description
IP Assign		The network types supported by the iCanServer510/510W are LAN(fixed IP), PPPoE, and DHCP(automatic IP)

Type	Static IP Setup	When the network environment is fixed IP, select 'LAN' in the network type, and put the IP address, Subnet Mask, Gateway, DNS1 and DNS2. Ask your network administrator or ISP for the information. DNS2 is used
	PPPoE Setup	When the network environment is PPPoE and IP address is assigned automatically, select 'PPPoE' in the network type. Next, fill in the 'User Name' and 'Password' fields with the values assigned by the ISP
	DHCP Setup	When the network environment is "automatic IP allocation by DHCP", select 'DHCP' in the network type. For cable modem connection, select this mode. Refer to [IP-installer user's guide] for "Host name and domain for Cable Modem
	Clone MAC	Refer to [IP-installer user's guide] for "Clone MAC"
Port Change		Each port should have a number below 65535.
	RTSP	The RTSP port is used for transmitting real time audio/video data from the video server. Default is 554.
	HTTP	HTTP port is used for the connection to the admin page. Default is 80.
IP Filtering		You can restrict the access to the administrator page from IP addresses beyond certain IP address range.
	Restrict Administrator Access	Check at this box to restrict administrative log on.
	Base IP Address	Input IP address of the PC which is intended to be used for log on to administrative mode.
	Mask	This is same as subnet mask. It is used to allow administrative log on only to the PCs located in the same subnet as the base IP address. If you want to allow only one PC to access in administrative mode, set this value to 255.255.255.255.
E-Mail Setup		
	Notify for IP Change	If you check this, the IP address will be sent via E-mail whenever the IP address changes. It is sent to the E-mail address set by " Recv E-Mail Address "
	Recv E-Mail Address	Enter E-mail address to receive information sent from your video server. This is same as E-mail field in IP-
	Return E-Mail Address	Fill in this field with correct e-mail address to identify the mail sent from the video server
	Using Built-in SMTP Server	If you are using web mail services having no SMTP server, check the radio button at the left of " Using Built-in SMTP Server " and enter valid e-mail address to avoid spam filtering on the receiving e-mail server
	Using External SMTP Server	If you are using external mail server, fill in the fields with proper parameters.
FTP Server Setup		Setup IP address, Username, Password and Directory of FTP server to send data in case of alarm. Default FTP port number is 21.
Management Server		You can register the video server to the Management Server (DDNS Server) for name service to your video
	Log on to server	Check this box to enable log on to the management server. By log on to the management server your video server can use domain name instead of numeric IP address. This feature is particularly useful when your

		<p>video server is using dynamic IP address. Input valid management server (DDNS Server) name for the service. You must have an account on the management server (DDNS Server) and register your IP video devices under your account to use this feature.</p> <p>Domain name of your video server can be assigned when you register your video server to the management server under your account.</p> <p>One of the servers available is mgmt.net-video.net. For opening an account, visit www.net-video.net .</p>
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5.4. Wireless Configuration(iCanServer510W Only)

For the case of a network camera having built in wireless LAN it is needed to set up wireless LAN configuration parameters. Click "Wireless Configuration".

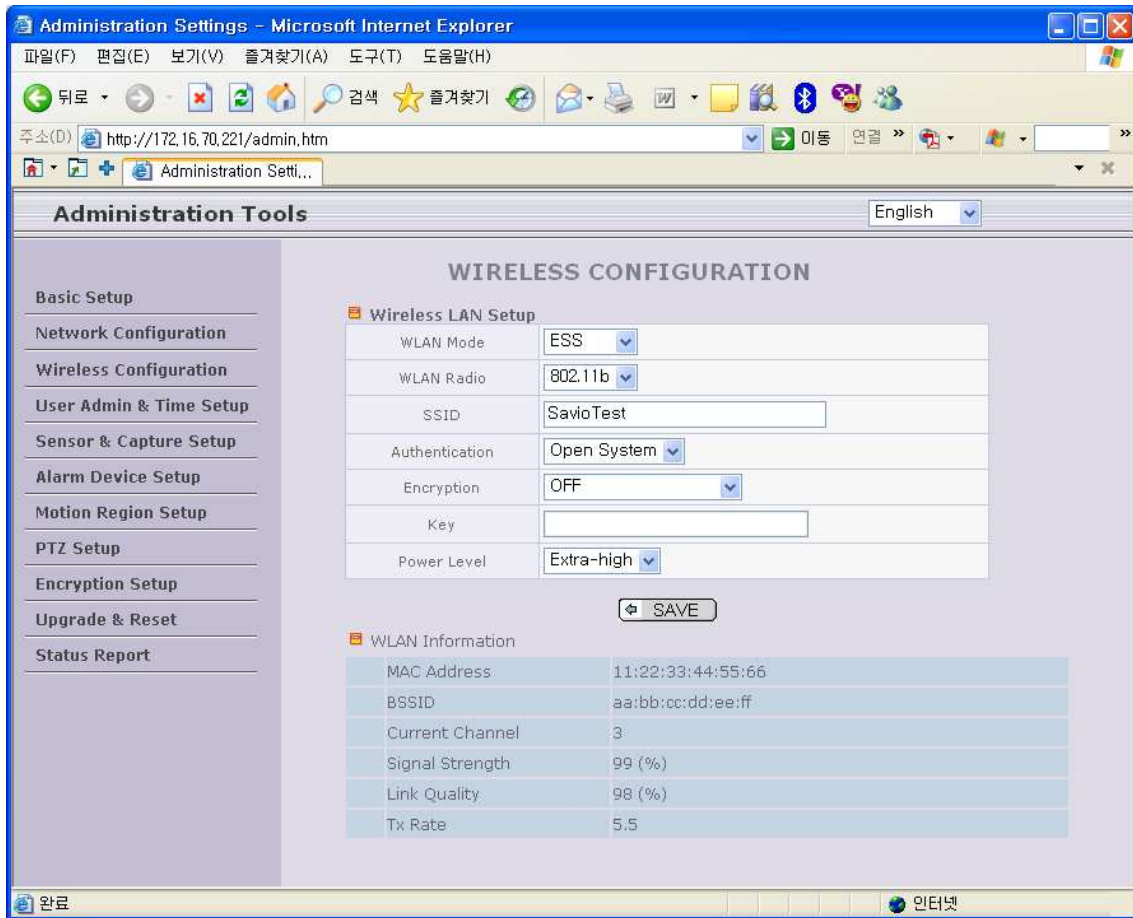


Figure 5-5 Wireless Configuration

Field/Button	Sub Field /Button	Description
Wireless LAN Setup	WLAN Mode	Select "ESS" to use wireless interface. If "Disable" is selected, Ethernet interface is used instead of wireless.
	WLAN Radio	Select the mode of Wireless Radio.
	SSID	Enter the ID of the wireless LAN access point to be connected when wireless LAN interface is selected.
	Authentication	Select the type of authentication.
	Encryption	Select the mode of encryption. If encryption is not needed, select "OFF"
	Key	Set the value of encryption key or pre-shared key.
	Power level	Set the maximum transmission power level or wireless LAN.
WLAN Information	MAC	Indicates MAC address of the wireless LAN.
	BSSID	Indicates the ID of the connected access point. In general the MAC address of the access point is shown.
	Current Channel	Indicates the channel number of present connection.
	Signal Strength	Indicates the strength of the received signal.

	Link Quality	Indicates the quality of Link level.
	Tx Rate	Indicates the speed of the latest transmission

5.5. User Admin & Time Setup

You can change the ID and password of users and also assign different attributes for each user.

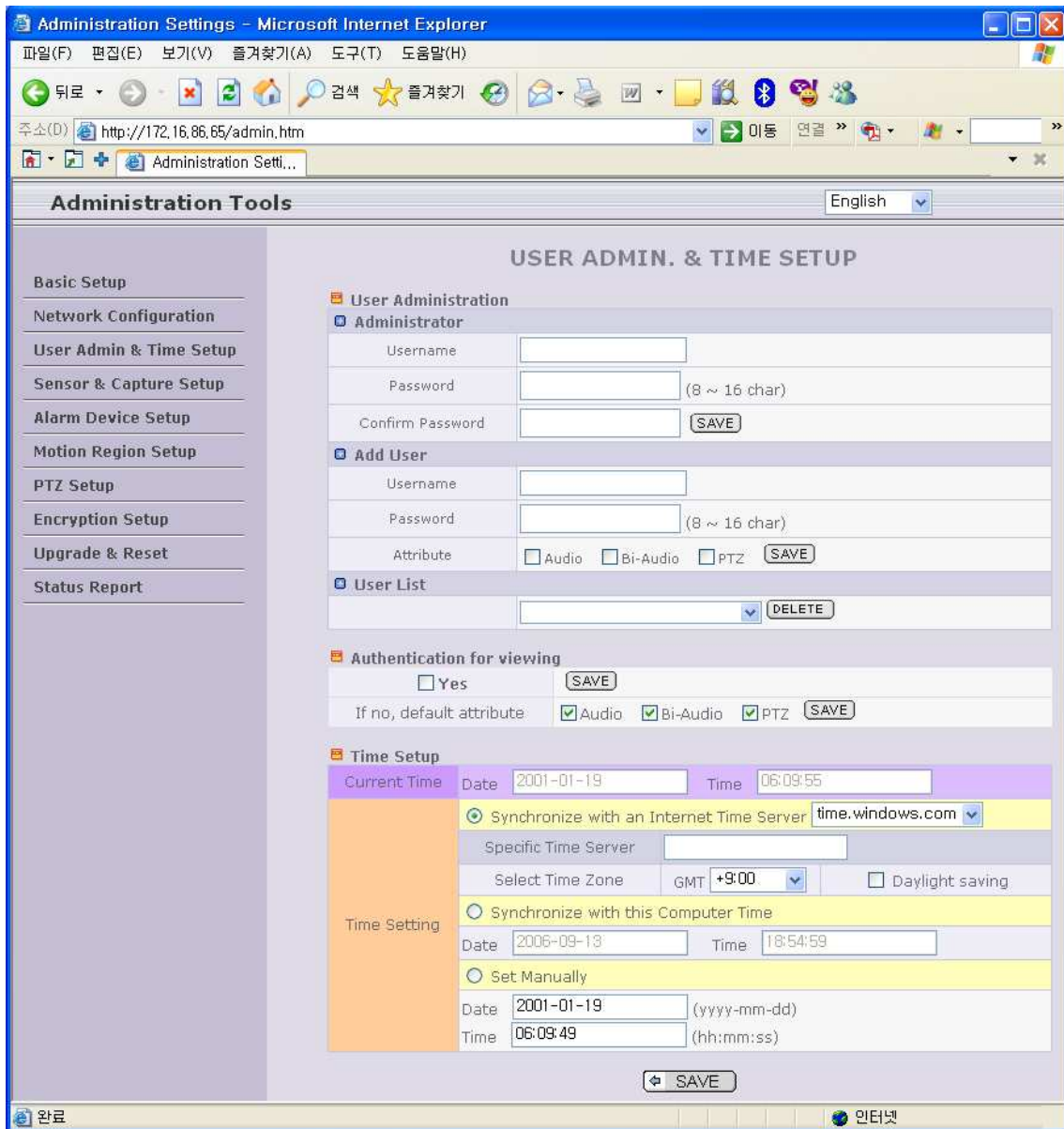


Figure 5-6. User Admin. & Time Setup

Field/Button	Sub Field /Button	Description
User Administration	Administrator Username	Admin ID. Default ID is "root"
	Administrator password	Admin password. The default password is "dw2001".
	Administrator Confirm Password	Enter the password once more to confirm the password.

	Add User Usernam	Enter the user ID you want to add. Up to 100 users are supported by iCanServer510/510W.
	Add User Password	Enter the user password.
	Add User Attribute	<p>You can set different system resource access capabilities for each of the users.</p> <ul style="list-style-type: none"> ● Attributes are Audio, Bi-directional Audio and Pan/Tilt control. ● For example, if you want a specified user to hear the audio from the iCanServer510/510W, check Audio in the check box.
	User List	<p>You can list "user ids" and " their attributes" here.</p> <ul style="list-style-type: none"> ● format : user id[A, BA, P] : <ul style="list-style-type: none"> ■ A – audio, ■ B – bi-directional audio, ■ P – pt(Pan/Tilt), attribute. <p>You can delete specific user by clicking the DELETE button.</p>
Authenticatio n for Viewing	YES SAVE	<p>If you want to restrict viewing access to the iCanServer510/510W, check at the box left to Yes and click on Save. Users need to input ID and password to connect to iCanServer510/510W in viewing mode in a pop up window as shown below..</p> <div data-bbox="794 1216 1230 1435" data-label="Image"> </div> <p style="text-align: center;">Figure 5-7. User Authentication in iCanServer510/510W</p>
	If No, default attribute	<p>If you uncheck for the Authentication for Viewing, all users can access the iCanServer510/510W with the same attribute set here. Checked attributes are enabled. Click "Save" to save the attribute.</p>
Time Setup	Current	It shows you the current time of iCanServer510/510W.
	Synchronize with an Internet Time Server	Synchronize the time with the internet time server at the right. When the time server is out of the reach from iCanServer510/510W, you can assign time server by filling in Specific Time Server field.
	Synchronize With this Computer Time	Synchronize the time with the time of the PC.
	Set Manually	Set the time manually. Fill in the fields with desired formats.

SAVE		Save the set up parameters
	If you lost Administrator's ID and password, the only means of recovery is to reset the settings to factory default, but then you lose your previous settings.	



5.6. Sensor & Capture Setup

This is the setup page for sensors and video capture conditions. Captured video can be sent to user by FTP or E-mail upon configuration.

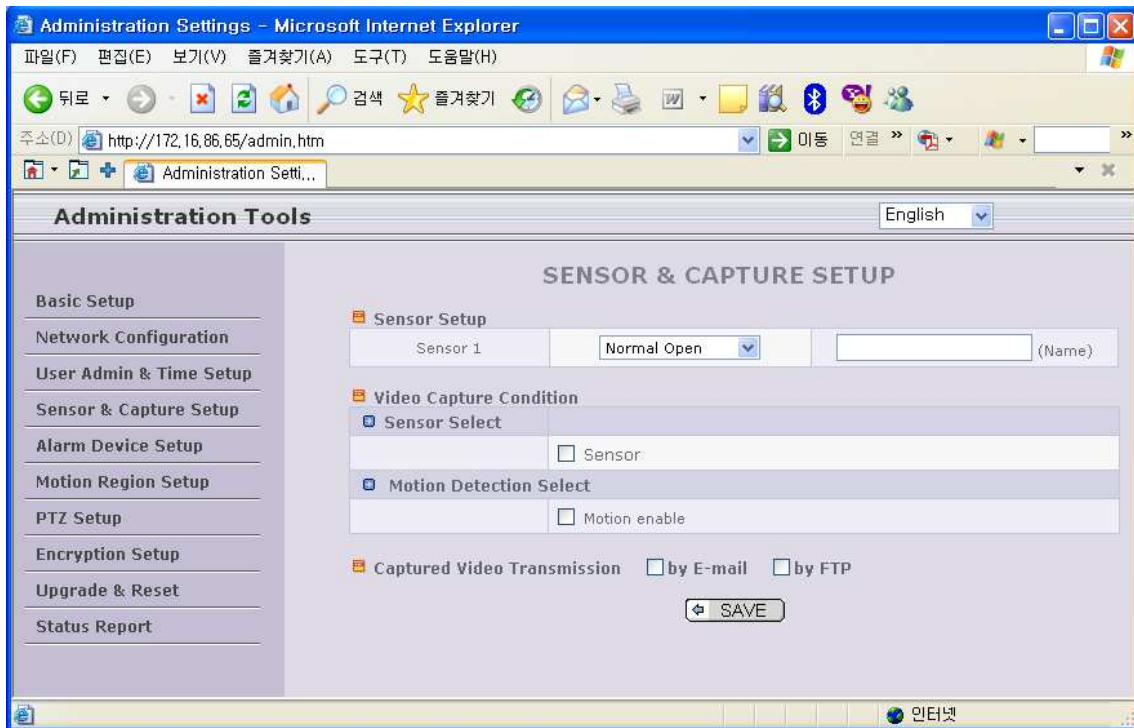


Figure 5-8. Sensor & Capture Setup

Field/Button	Sub Field /Button	Description
Sensor Setup	Sensor 1	Select sensor type. There are two types of sensors which are Normal Open and Normal Close
	Name	Input logical name for the sensor.
Video Capture Condition		It sets the condition of video transmission via FTP or E-mail. The iCanServer510/510W supports 2 types of conditions which are mutually independent. <ul style="list-style-type: none"> 1. Sensor initiated: when at least one of the sensor detects alarm condition. 2. Motion-Detection initiated : when motion is detected from video channel
	Sensor Select	Check to enable Sensor initiated capture.
	Motion Detection	Check to enable motion detection initiated capture.

	Select	
Captured Video Transmission		Select a way of sending captured video. You can send captured video through FTP or E-mail, or both. -
	By E-Mail	Check to send captured video by e-mail. E-mail is sent to the Recv E-mail address . Refer to [Section 5.3.] Captured video data for E-mail consists of intra frames only in consideration of the limited storage space for E-mail account.
	By FTP	Check to send captured video by FTP. FTP is sent to the FTP Server. Refer to [Section 5.3.] If the FTP server is not properly assigned in " Network Configuration " mode, iCanServer510/510W ignores the video transmission by FTP
SAVE		Save the setup parameters.

5.7. Alarm Device Setup

Test the alarm output and describe the condition of alarm annunciation.

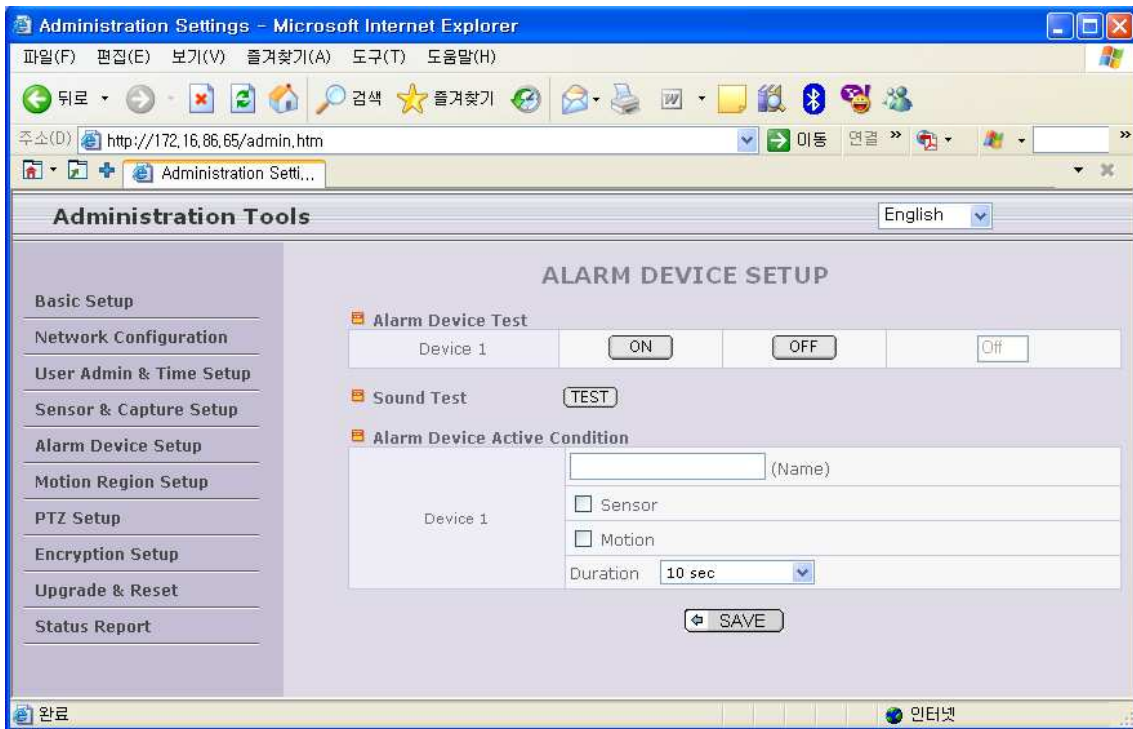


Figure 5-9. Alarm Output Setup

Field/Button	Sub Field/Button	Description
Alarm Device Test		Test alarm devices. Click on On/Off for testing Small box with white background indicates the status of the relay by On/Off.
	ON	On the alarm output (close the relay contact)
	OFF	Off the alarm output (Open the relay contact)
Sound Test		-
Alarm Device Active Condition		Setup the condition of activating alarm device. Select sensor or motion detection as the condition.
	Name	Logical name of the alarm device can be input into the box at the left.
	Sensor	Check at the box at the left of to allow alarm generation upon sensor input.
	Motion	Check at the box at the left to allow alarm generation upon Motion detection
	Duration	Set the duration of Alarm annunciation. 10 sec, 30 sec, 1 min, 2 min, 5 min, 10 min, 30 min, 1 hour.
SAVE		Save the setup parameters.

5.8. Motion Region Setup

Set the motion detection regions. Up to 3 regions can be defined.

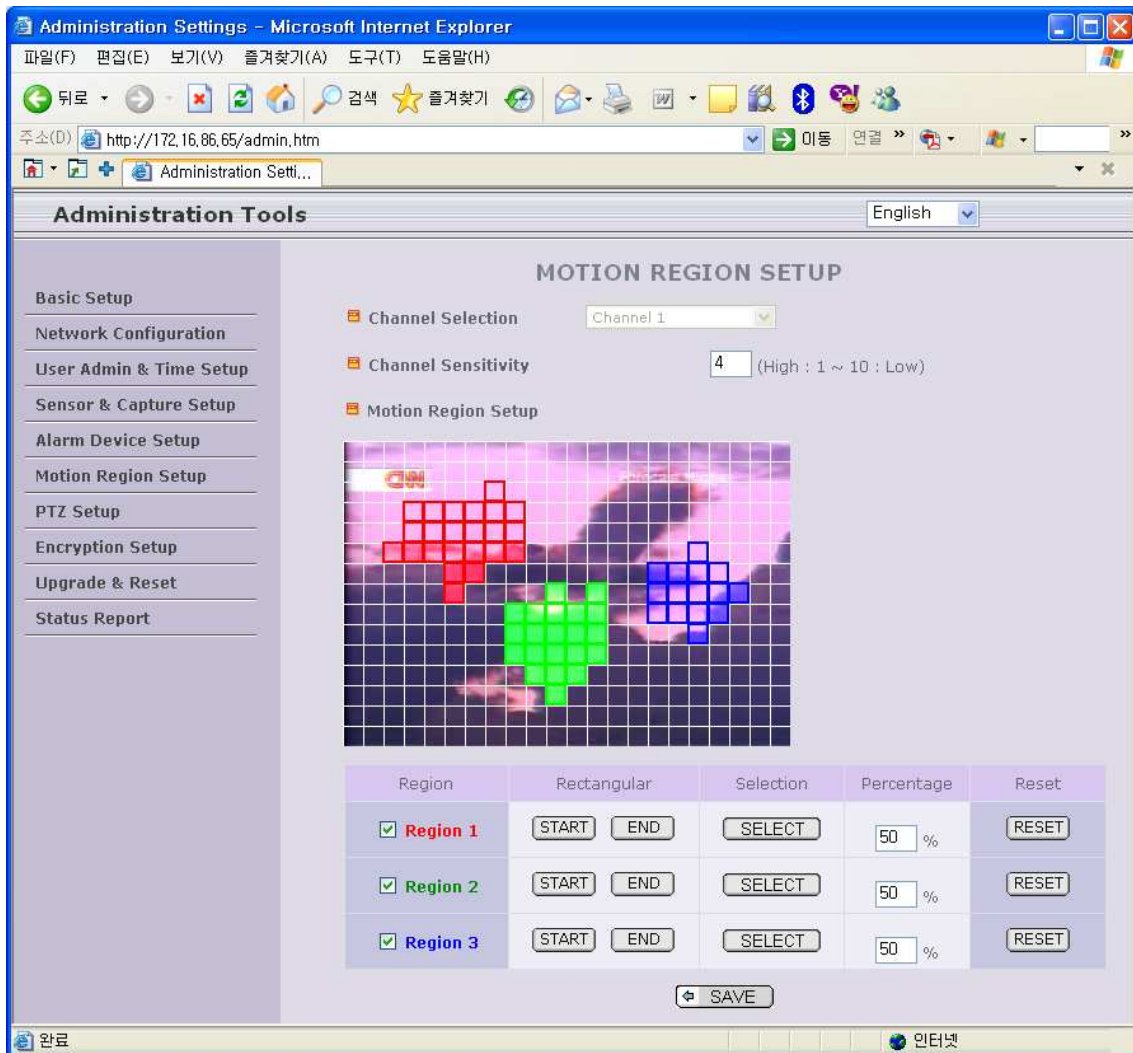


Figure 5-10. Motion Region Setup

Field/Button	Sub Field /Button	Description
Channel Selection		Not applicable.
Channel Sensitivity		Set the sensitivity in motion detection for each channel. 1 is the most sensitive, and 10 is the least sensitive.
		Set up to 3 the motion detection zone

Motion Region Setup	Region 1, 2, or 3	<p>Enable each zone by checking the box at the left of each Region.</p> <p>. To set the region,</p> <ol style="list-style-type: none"> 1. Click on START and click on a box overlaid on the video 2. Click on END and click on a box overlaid on the video. 3. The defined motion detection zone will be indicated with corresponding colors. <p>Legend of the color :</p> <p>red(region 1), green(region 2),</p>
	START	Enable selection of rectangular zone start.
	END	Enable selection of rectangular zone end.
	SELECT	Click on this button and click on desired rectangle to add or delete the rectangular region to the motion detection zone.
	Percentage	This value controls the sensitivity of each region. 1 is the most sensitive and 100 is the least sensitive
	RESET	Clears the start & end point to (0,0) & (0,0)
SAVE		Save the setup parameters.

5.9. PTZ Setup(only Pan/Tilt Device is can be used)

Setup and test the PT(Pan/Tilt) devices.

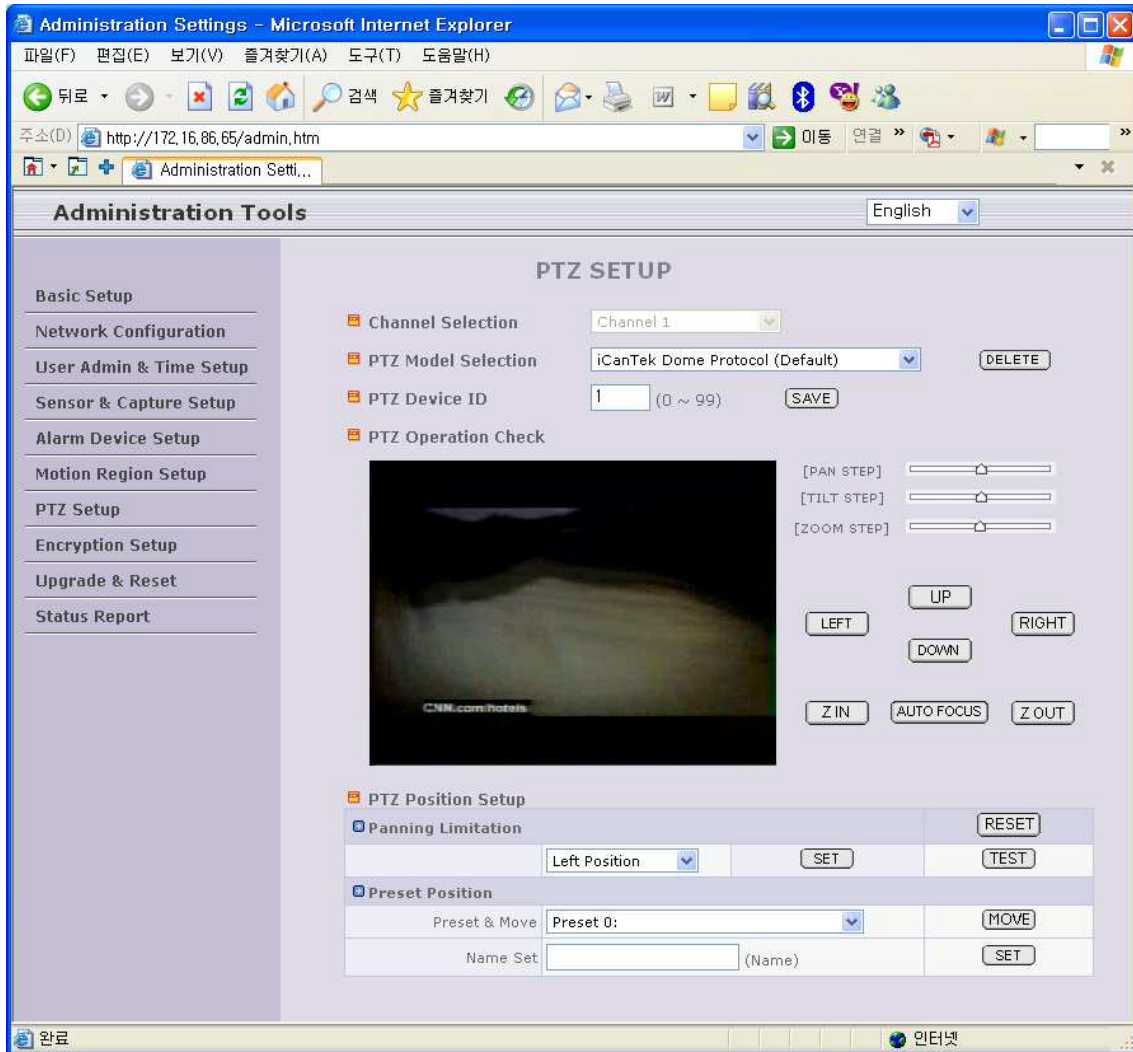


Figure 5-11. PTZ Setup

Field/Button	Sub Field /Button	Description
Channel Selection		Not applicable
PTZ Model Selection		Choose the PT model. Refer to section 5.12 for the addition of PT protocol data.
	Delete Button	Press this button to delete the setup of PT
PTZ Device ID		Your PT device needs an ID, input ID in this field. Click on SAVE to save the ID.
PTZ Operation Check		You can check the various operation of the PT devices. "Left"/"Right"/"UP"/"DOWN"
PTZ Position		You can set up the PTZ limitation & preset positions if the PT device supports it.

Setup	Panning Limitation	Set the left/right limitation and test. Select Left/Right position before setting.
	Panning Limitation RESET	Clear the panning limitation previously set. The panning range will be the same as the PT device allows.
	Panning Limitation SET	Set the present position as left or right panning limitation.
	Panning Limitation TEST	Test the panning limitation which was set previously.
	Preset Position :	Set the preset position and test.
	Preset Position Preset & Move	Select a preset position to move to. Movement to the preset position will be made upon clicking on " MOVE "
	Preset Position Name Set	Assign logical name for the preset position. Enter into the field and click on SET.
	Preset Position Set	Set the present position as a preset position with position number shown at the right of "Preset & Move" and name shown at the right of "Name Set".

<Note> : "PTZ Position Setup" feature is applicable only for the PT devices that support it.

5.10. Encryption Set up

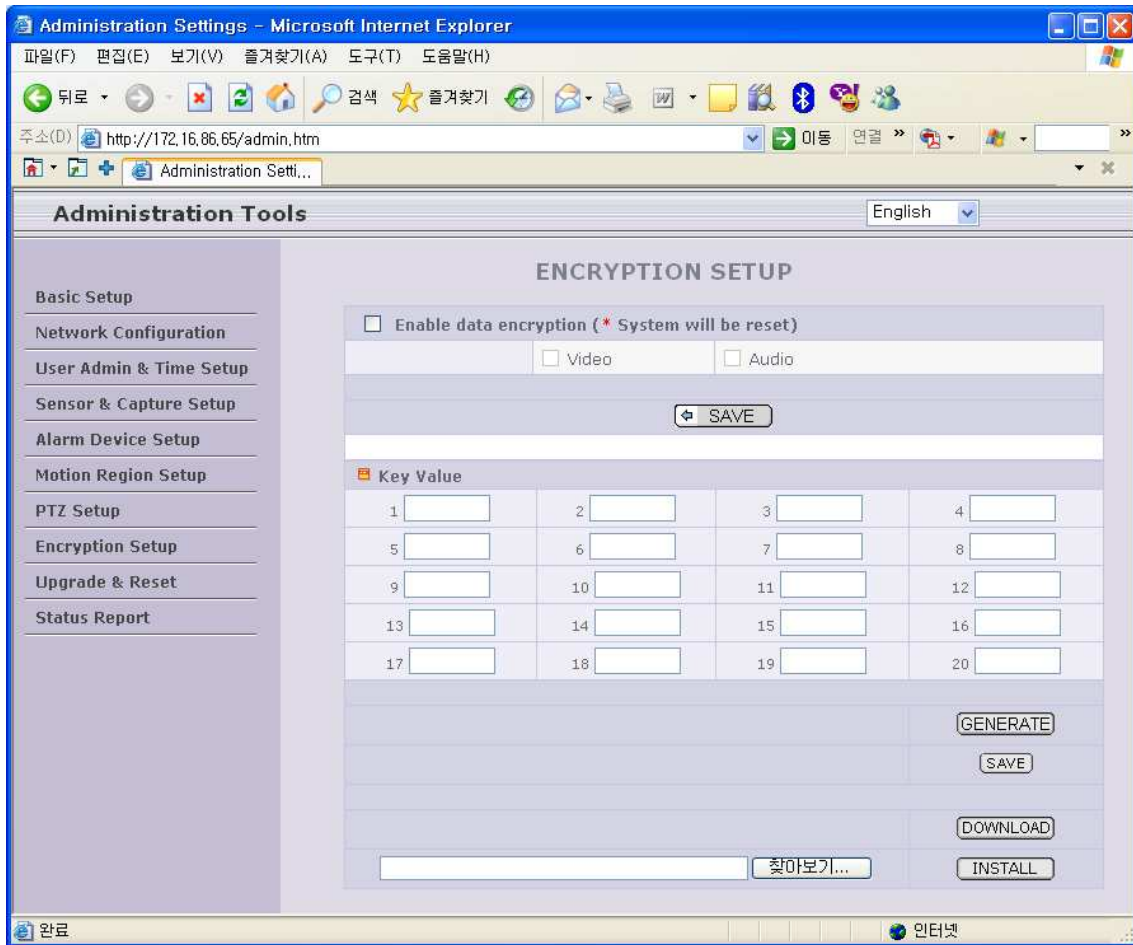


Figure 5-12. Encryption Setup

For additional security to the video and audio data transmitted from the video server, you can set key codes and use them for encrypting the data from the video server. You can selectively activate encryption for the video and audio data. For enabling the encryption, check at the box at the left of the "Enable data encryption" then check at the proper check boxes at the left of "Video" and "Audio". After the selection, click on SAVE button beneath the "Video" and "Audio" check boxes.

Field/Button	Sub Field /Button	Description
Enable Data Encryption		Check at this box to apply data encryption. If it is unchecked encryption is applied on neither video nor audio data regardless of the selection below.
	Video	Check to enable encryption on the video data.
	Audio	Check to enable encryption on the audio data.
	SAVE	After the selection, click on SAVE button.
Key Value		You can use up to 20 different key codes for the encryption of the data

	GENERATE	To generate the key value click on "GENERATE" button. The boxes for the Key values will be filled with new
	SAVE	Save Key value on the video server: Click on SAVE button beneath GENERATE button to save the key value generated by the video server
	DOWNLOAD	Download Key value to your PC : The key values can be downloaded and stored as a file to your PC for reference when you make connection. When encryption is enabled, the PC client program will ask for particular key value out of the 20 available key values.
	INSTALL	Upload key value to the video server : The key value stored on your PC can be uploaded to your video server. This feature is useful when you manage multiple video servers having same key value sets. Select a file having key values then click on "INSTALL" button to upload the key values. Find file saving the Key value before uploading to the video server.

5.11. Upgrade & Reset

You can upgrade the iCanServer510/510W via the IP network.

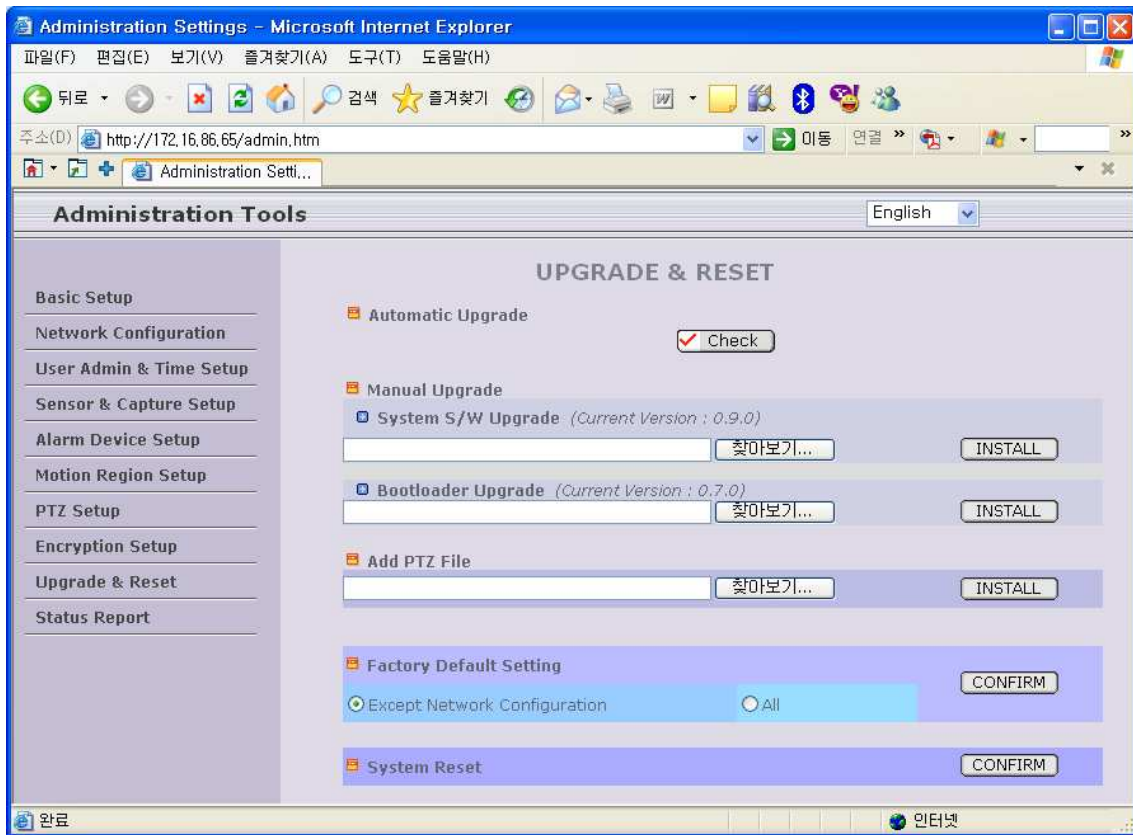


Figure 5-13. Upgrade & Reset

For each of the upgrade of the system component, upgrade code should be downloaded from **iCanTek's** home page before the system upgrade is performed.

(Refer to [\[6.4. How to Upgrade Your iCanServer510/510W System\]](#))

Field/Button	Sub Field / Button	Description
Automatic Upgrade		Automatic upgrade is a feature that enables video server to upgrade to newly released system software by automatically connecting to upgrade server. Click on check button to find the availability of upgrade firmware.
Manual Upgrade	System S/W Upgrade	Upgrade the system software installed in the video server via the network. System software needed for the upgrade can be downloaded from iCanTek's home page. Refer to [6.4. How To Upgrade Your iCanServer510/510W System] .
	Bootloader Upgrade	Upgrade the bootloader installed in the video server via the network. Bootloader needed for the upgrade can be

		<p>downloaded from iCanTek's home page. Refer to [6.4. How To Upgrade Your iCanServer510/510W System].</p>
Add PTZ File		<p>Add a new PT driver software via the network. PT driver can be downloaded from iCanTek's home page. Refer to [6.4. How To Upgrade Your iCanServer510/510W System].</p>
Factory Default Setting		<p>Re-initialize the video server to factory default state. By checking on a Radio button "Except Network Configuration", you can preserve the parameters for the network. Checking on "All", will return all the parameters to factory default state.</p> <p>Once iCanServer510/510W is re-initialized as factory default state, it should be set-up again using IP-Installer.</p>
System Reset		<p>Perform remote reset by clicking the "CONFIRM" button.</p> <p>All previous connections will be disconnected upon reset. iCanServer510/510W does not resume the connections and the users must re-connect to the server manually.</p>

5.12. Status Report

It shows you system records since the system started.

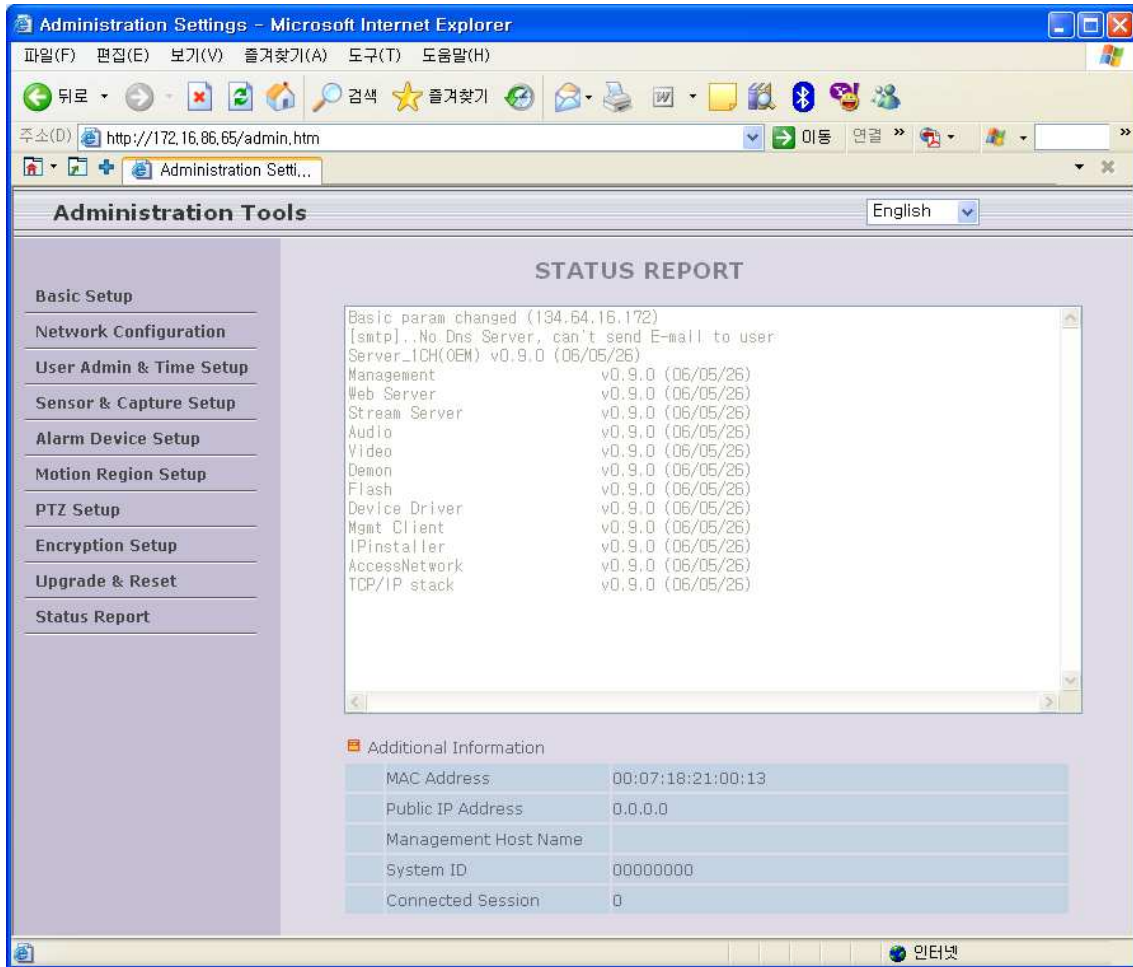


Figure 5-14. Status Report

You can check the problems as well as the versions and event status of the whole system and each module.

6.1. ALARM-IN and ALARM-OUT

ALARM connectors are used to connect various sensing and alerting devices. Examples of sensing devices are infrared sensors, motion sensors, heat/smoke sensors, magnetic sensor, etc. ALARM-OUT is used for connecting alerting device such as loud speaker, flashing light, etc.

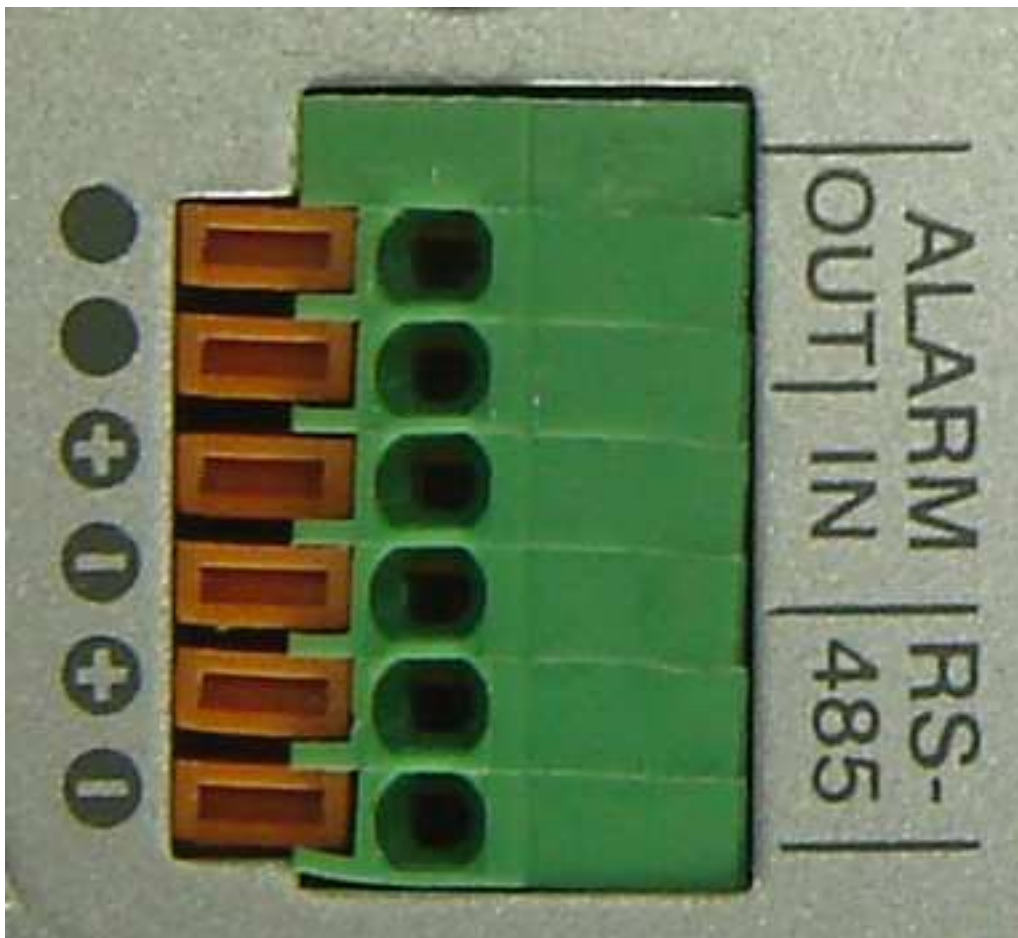


Figure 6-1. ALARM-IN/ALARM-OUT Connector

1. ALARM-IN

Connect the two wires of the sensors to "Alarm In". The sensor type can be set in Administrative mode(Ref. 5.7). Output lines providing on-off switching are connected between "+" and "-" pins.

Figure 6-2 shows the input circuit of "Alarm In".

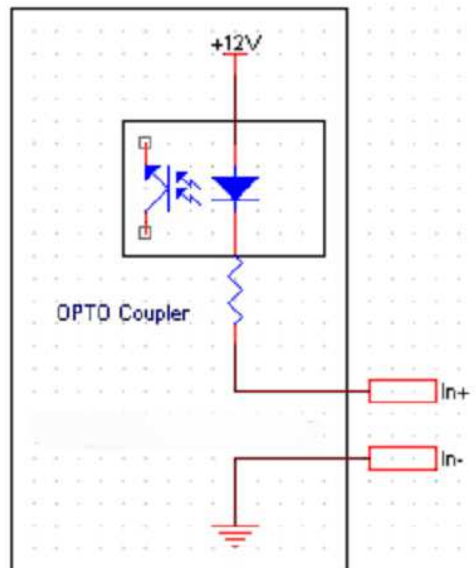


Figure 6-2. SENSOR input of iCanServer510/510W

2. ALARM-OUT

A Relay output is provided for connecting alarm devices or for remote on/off devices such as light control. Relay circuits are normal open and circuits are closed upon alarm output or remote on. The relay is capable of switching AC/DC 30V,1A electrical signal.

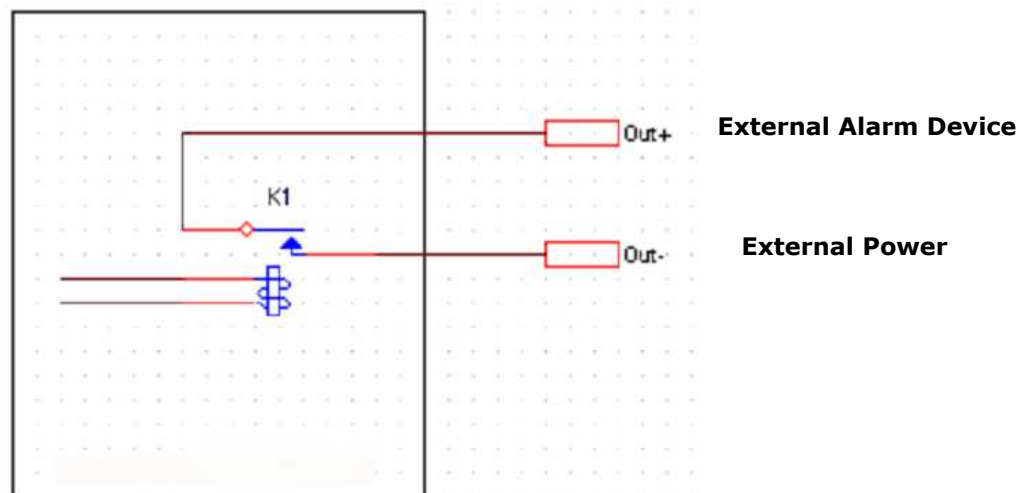
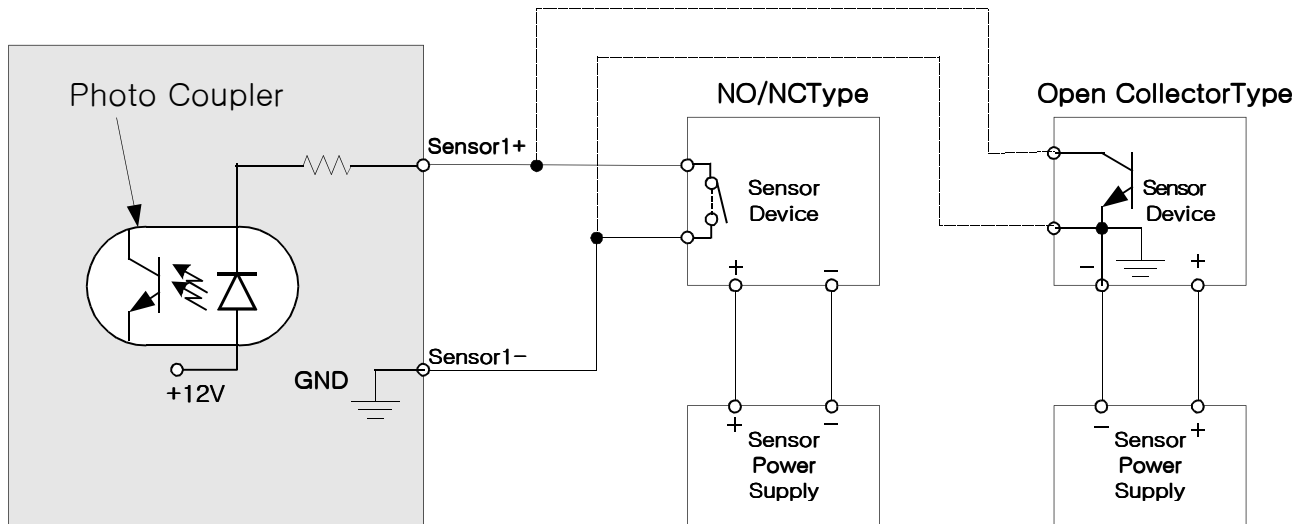


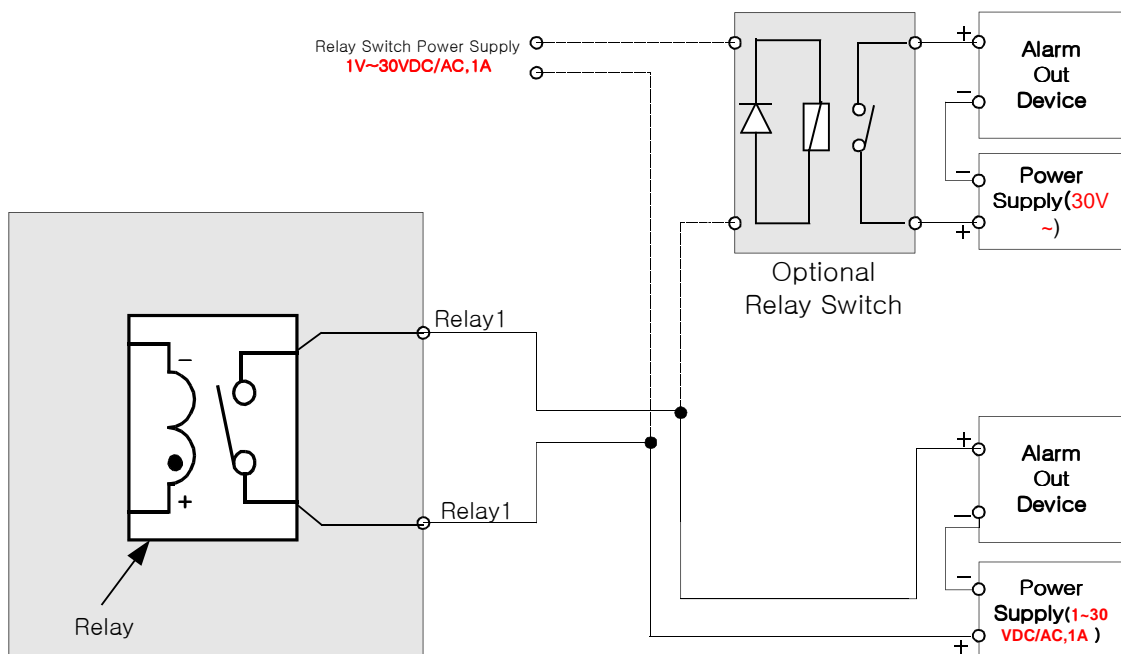
Figure 6-3. RELAY Output of iCanServer510/510W

3. Connection of Sensor, Alarm Device

3.1 Connection of Sensor



3.2 Connection of Relay



You can use the supported relay output to directly drive a maximum load of 30V AC/DC at 1A. By connecting additionally relay circuitry (such as optional

6.2. **relay** Trouble Shooting

1. After iCanServer510/510W is successfully installed.

- **iCanServer510/510W in viewing mode, neither channel name nor video is display and eventually timeout message is shown up.**

Check the power and network connection of iCanServer510/510W.

To check if the network is properly operating, open the browser and try to connect to any server.

Example) <http://www.yahoo.com>

Or open the MS-DOS Prompt and type the following.

ping www.yahoo.com

Then press Enter. If you see the " Reply from ..." message it means that the network is working properly. To check if the iCanServer510/510W is connected, open the MS-DOS Prompt and type the following.

ping [the IP of the server]

Example) ping 192.168.1.112

If you see the "Reply from ..." message, it means that the server is properly connected.

If you do not see a Reply message, check if the network cable and power cable are properly connected.

2. After Successfully Connecting to the iCanServer510/510W

• Video movement is slow.

In Basic Setup of Admin Mode, lower the "Quality". High quality means more data. You can also set the "Max. upload rate" to higher value. But this value must be lower than the maximum upload speed of your network. For example, if the maximum uploading bandwidth of the network is 400Kbps, set the total "Max. upload rate" as 384Kbps. If you set it higher, the video image can be corrupted with artifacts.

Ask your network manager or ISP for maximum uploading bandwidth of the network.

• The image is dull and I see green, pink dots.

This could be caused by performance limitation of the PC. Do not run too many programs while running viewer program. The other reason could be missing data while transmission from iCanServer510/510W.

• Mosaic phenomenon.

Mosaic phenomenon occurs when not enough network bandwidth is available considering the resolution and frame rate of the video.

Example is 704x480 video with low Max. upload rate.

Users are recommended to adjust resolution and frame rates to lower values for lower bandwidth network.

6.3. Web Viewer

iCanServer510/510W is designed to be connected through internet explorer, too. For connection to iCanServer510/510W using internet explorer type in IP address or host address in the address input field of the internet explorer.

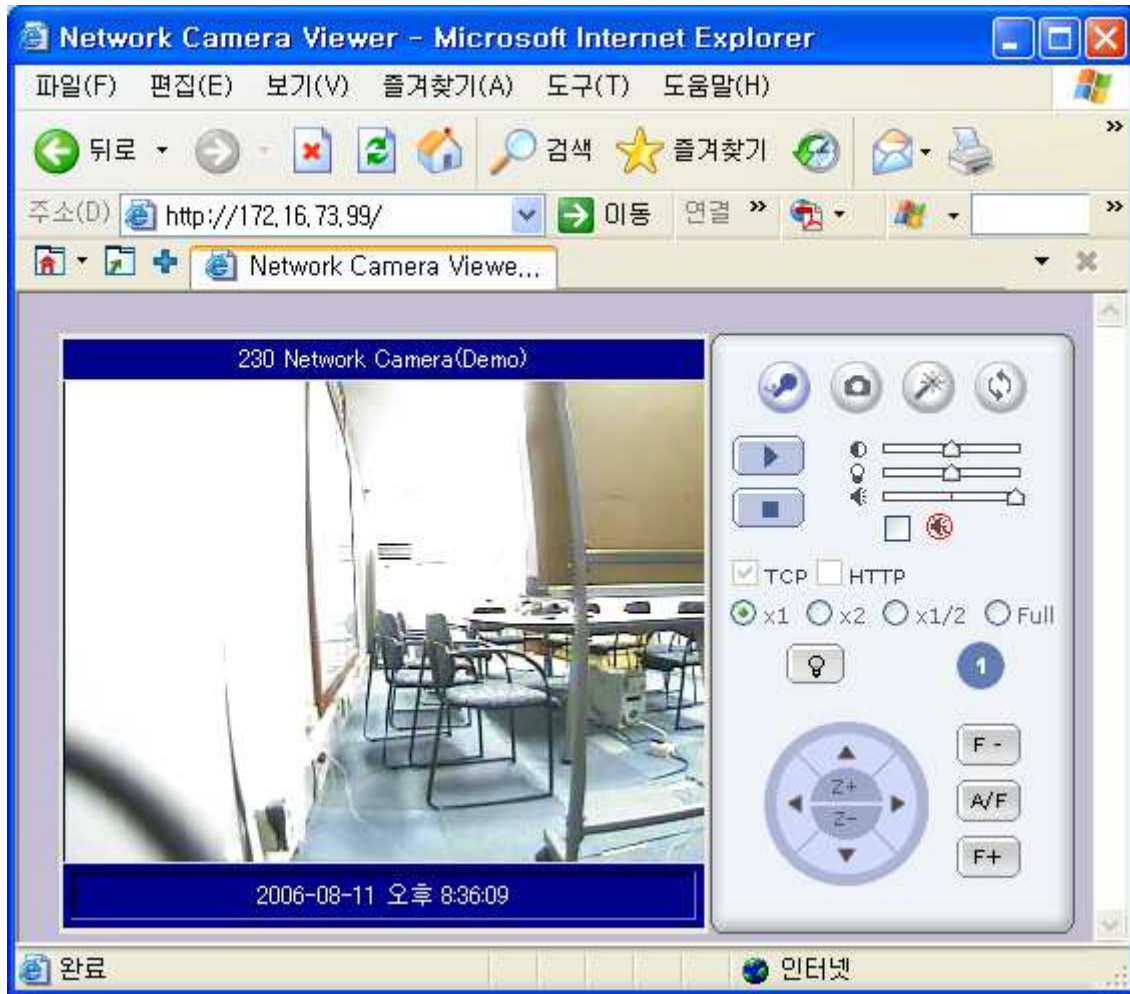





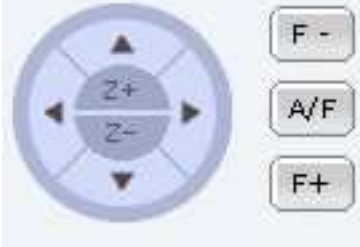



Figure 6-4. Web Viewer of iCanServer510/510W

● Control Panel of Web Viewer

		Enable bidirectional audio. When bidirectional audio is enabled, voice from your PC is delivered to iCanServer510/510W.
		Capture and store the still image on your desk top screen.
		Connect to iCanServer510/510W in administrative mode of iCanServer510/510W.
		Rotate the screen by 180 degree.
		Connect to iCanServer510/510W.
		Stop the connection.
		Contrast, Brightness, and Volume adjustment..
		Check the box to mute the audio.

		Adjust the size of the screen. Normal (x1), Twice (x2), Half (1/2), Full Screen (full)
		On/off the relay by pressing the button
		Shows the status of the sensor. Blue color means that the sensor is in normal state, while red color indicates alarm situation. Number on the button indicates the number of sensor.
		Move the center of the camera in up/down/left/right directions.
	<p>Z+ Z-</p>	Zoom in (Z+) Zoom out (Z-)
	<p>F-</p>	Move the focus to further position.
	<p>A/F</p>	Auto focus.
	<p>F+</p>	Move the focus to nearer position.

6.4. How to Upgrade the iCanServer510/510W

Unless otherwise instructed, the owners of the iCanServer510/510W are recommended to upgrade the system when upgraded firmware is released using manual upgrade procedure.

Followings are the procedure to apply for the manual upgrade

- 1) Save the upgrade system software to your PC. Upgrade software can be downloaded from iCanTek's home page or provided in CD.
- 2) Log on to administrative mode and select "Update & Reset" menu.
- 3) Click "Browse..." to find the files you want to use for upgrade. This will open a "Choose file" dialogue window. The file extension is ".ief".
- 4) When you've found the file, click "Open." This will select the file and close the "Choose file" dialogue window.

- 5) Click the "INSTALL" button. An alert message box will pop up. Click "OK" button then it will start uploading the file. This may take some time.
- 6) Upgrade completion message will appear after the system upgrade has been completed.
- 7) Reboot iCanServer510/510W by performing "System Reset".
- 8) After rebooting, log on to the server in administrative mode again and click the "Status Report".
- 9) Check the version number and release date of the iCanServer510/510W.



You can download iCanServer510 system software from iCanTek 윌 homepage. <http://www.icantek.com>