

Owner's Guide

MyDVR-430

MPEG4 Based 4 Channel Triplex DVR with Audio



Feature

- Simultaneous Recording/Playback/Live monitoring over the network
- Recording Performance
 - NTSC : Total of 120 fps for 352x240, 30 fps for 704x480
 - PAL : Total of 100 fps for 352x288, 25 fps for 704x576
- Powerful PC client program for Live monitoring and Recording on the network client





Note form our CEO:

Dear Customer:

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Thank you for choosing iCaNTek,

A handwritten signature in blue ink that reads 'Soon Ho Hong'.

Soon Ho Hong, CEO
iCaNTek, Ltd.

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1. Introduction

1.1. Overview

myDVR430 is a state-of-the-art MPEG-4 triplex 4-channel DVR, featuring a powerful embedded RTOS (real time operating system). While improving overall video quality, the revolutionary MPEG-4 video codec processor (video coder/decoder), offers state of the art performance in both the recording time efficiency (file size) and video quality. Full triplex capability ensures uninterrupted recording.

MyDVR430 supports simultaneous:

1. Recording
2. Playback of recorded video, or local live monitoring with “* over the network live monitoring”
* via our Network Client; myNVR ™
3. File archiving

Or

1. Recording
2. Remote Playback over the network using Network Client; myNVR ™

myNVR also supports powerful remote control features, including synchronized full duplex (bidirectional) audio communication.

1.2. Summary of the Specification of myDVR430

		NTSC	PAL
Video	Format		
	Number of Input	4	
	Output	1 composite, 1 VGA (Exclusive)	
	Compression	MPEG-4	
	Recording Resolution	352x240 (Quad), 704x480(Full)	352x288 (Quad), 704x576(Full)
	Recording Quality	Normal/High/Super	
Recording Speed		120frames/sec (Quad) 30 frames/sec (Full)	100frames/sec (Quad) 25 frames/sec (Full)
Audio	Number of Input	4	
	Number of Output	1	

	Compression	PCM
Recording type	Continuous, Motion, Sensor, Manual	
Alarm Input	4	NC/NO selectable
Alarm Output	1	Relay
Motion Detection		
Hard Disk	3.5" IDE type9 (IDE ATA133 Type)	Min 80GB
Search Mode	Date/Channel/Recording type	
Playback speed	x1, x2, x4	
Serial	1 RS232C	
Setup	LIVE	
	Record	
	System	
	Network	
	Storage	
Archiving	USB	Still Image, Video in AVI format
Upgrade	USB	
Power	Input	110 - 220V, 50/60 Hz
	Output	12V/5Amp
Network	Physical Interface	LAN 10/100BT
	Type	Static, DHCP, PPPoE
Network Client	Platform	Win2000/XP
	Live Connection	Upto 16 video channels/screen
	Recording on PC	Manual/Alarm/Schedule
	Playback	
	Alarm/Motion Indication	
	Bidirectional Audio Communication	
	Remote Relay control	
	Remote Playback	
Triplex Operation		Simultaneous operation of Recording/playback/live

		streaming
		Simultaneous operation of Recording/USB archiving/live streaming
Approval	CE/FCC	

2. Product Description

2.1. Operation Panel

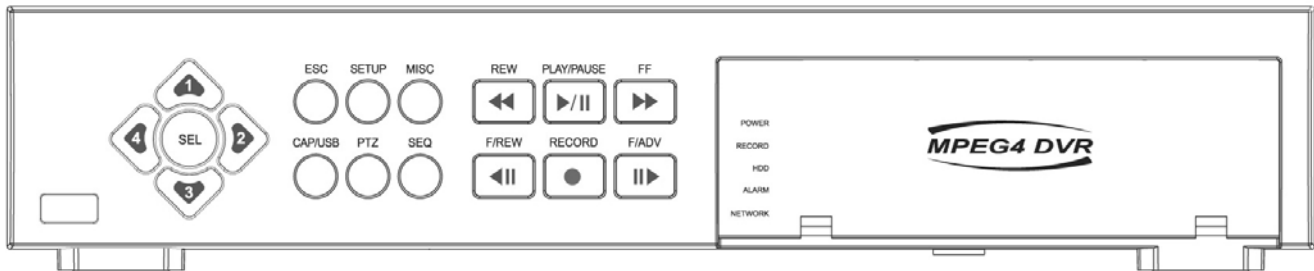


Figure 2.1

Table 2.1. Indicator Lamps

Name	Description
Power	Lights up when power is applied to the system.
Record	Lights up when the system is recording.
HDD	Lights up when system is accessing hard disk.
Alarm	Lights up when alarm sensor(s) is(are) triggered, or motion is detected.
Network	Lights up when client connects to the system through network.

Table 2.2. Buttons

Name	Description
CAP/ARCH	Starts capture menu or initiate archiving via USB.
SEQ	Starts full screen auto sequencing (Toggle)
PTZ	Controls PTZ (pan tilt zoom) operation
SETUP	Launches set up menu
ESC	Saves changed menu values or returns to the previous menu item.
MISC	Launch menu screen to search for recorded video, log data or archive data.
REW	Rewind during playback. By sequentially pressing, the rewind speed will change from 1x, 2x, and 4x. Press to start log display in Live mode.
F/REW	Steps backward. – Jumps backward playback position 60 seconds.
PLAY/PAUSE	Plays or pauses recorded video..
F/ADV	Jumps/Steps forward – Playback position 60 seconds forward.

FF	Fast forwards during playback. By sequentially pressing, the rewind speed will change from 1x, 2x, and 4x. Press to start log display in Live mode.
RECORD	Starts and stops manual recording.
1 (UP)	Moves Up in menu tree, or increases number. Also used to select channel 1 or enter number 1.
2 (RIGHT)	Moves Right in menu tree. Also used to select channel 2 or enter number 2.
3 (DOWN)	Moves Down in menu tree, or decreases number. Also used to select channel 3 or enter number 3.
4 (LEFT)	Moves Left in menu tree. Also used to select channel 4 or enter number 4.
SELECT	Selects Full Screen or Quad Mode display in live display mode Selects desired menu item. Stores the set-up value in Save menu.

Table 2.3. Connector

Name	Description
USB Connector	Connector for connecting USB memory

2.2. Rear Panel

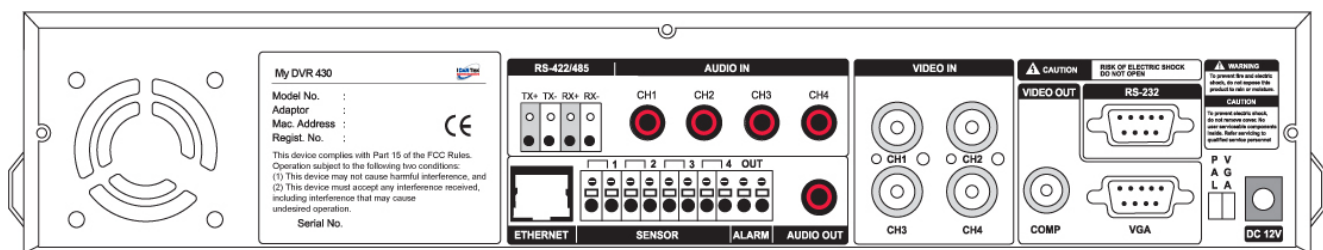


Figure2. 2.1. Rear Panel

- Video in : There are four video in connectors. Connect camera output to Video-in (NTSC/PAL)
- Audio-in : There are four connectors for input audio. Connect audio to Audio-In.
- Audio-out : Connector for speaker connection. Use speaker with amplifier..
- Video out : Composite video output in NTSC or PAL format
- VGA : Connector for VGA monitor

- RS-232 : For manufacturer engineering use only
- Sensor in : Used for connecting alarm/sensor devices. 4 sensors can be connected to the equipment. Sensor 1, 2, 3, 4 are dedicated to Video channel 1, 2, 3, 4, respectively. Either normal open (NO), or normal closed (NC) sensors may be used for each sensor.
Simple On/Off switching.
- Alarm out : Connector (PGM) for alarm device connections
Provides simple On/Off switching using relay. 0.5A/125V, 1A/30V
- Ethernet : RJ45 connector for LAN connection
- RS-485/422 Connector for connecting PTZ devices
- DC12V : Apply 12V DC using the DC adaptor supplied with the equipment.
- Switches
 - PAL : set to On position when video is PAL *
 - VGA : set to On position when VGA monitor is used.

*** Note:**

When changing this switch/setting, reboot the unit by cycling power.

3. Getting Started – Setting Up the DVR

- Explaining detailed set-up mode operations

3.1. Setup menu

Pressing the Setup button, will prompt the user for password entry. The default password is 1111. Input the default password by pressing the **Up button** 4 times, followed by the **SELECT** button. *(In order to prevent tampering, change the password! Refer to section 3.4 for instructions.)* From the Setup menu, navigate through the menu items using the **Up and Down** buttons and press the **SELECT** button to enter into sub-category menus.

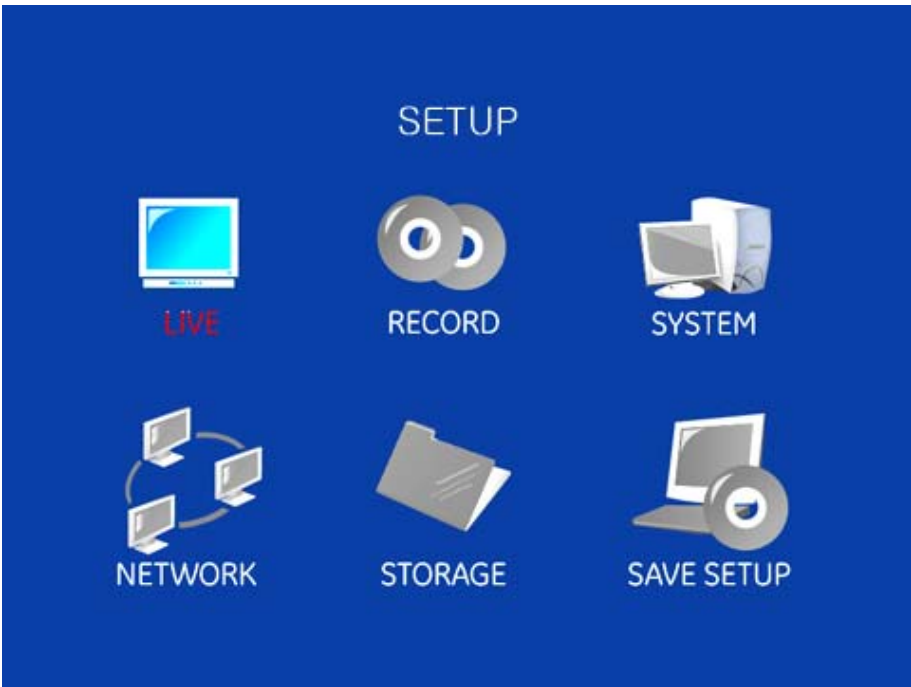


Figure 3.1.1. Set-up main menu screen

3.2. Live setup screen

- Used for setting up the live display mode.

Navigate through menu items using the **Up/Down** buttons. Change the values using the **Left/Right** buttons.

Table 3.2.1. Menu items in Live mode set-up

Menu item	Description
OSD	Enables/disables on-screen-display.

Sequence	Enables/disables sequential video channels display in full screen mode
Seq-Dwell Time	Sets dwell time for each channel in sequential display mode
Event Beep	Enables/Disables beep sound upon alarm or pressed button
OSD Contrast	Sets the contrast level of On Screen Display (OSD)
Channel	Selects channels to apply settings.
Display	Enables/disables video channel description in live display mode
Seq List	Enables/disables a specified channel for inclusion in sequential display mode
Brightness	Brightness value for the specified channel
Contrast	Contrast value for the specified channel
Hue	Hue value for the specified channel
Saturation	Saturation value for the specified channel
Audio in Gain	Adjust the gain of the audio input



Figure 3.2.1. Live mode Set-up screen

3.3. Recording mode setup screen

- Controls video recording attributes

Navigate through the menu items using **Up/Down** buttons. Change values using **Left/Right** buttons.

Table 3.3.1. Menu items in Recording mode set-up

Menu item	Description
Resolution	Sets resolution to either Full or Quad.
Channel	Selects channel to apply settings.
Frame Rate	Sets frame (image) rate for the specified channel. The aggregate (sum) frame rate cannot exceed the maximum frame rates supported for a particular recording resolution. Maximum frame rates are : 120 for NTSC or 100 for PAL in Quad mode. 30 for NTSC or 25 for PAL in Full mode.
Quality	Selects recording quality for a channel from Normal, High, or Super.
Recording	Assigns the recording method for a channel: Disable, Continuous, Motion, Sensor or Schedule.
Motion Zone	Sets full zone or partial zone.
Motion Sensitivity	Sets motion detection sensitivity for a specified channel.
Sensor Type	Sets type of sensor associated with a channel: None, "NO" (Normal Open), and "NC"(Normal Close) .
Pre Record	Enables/disables pre-alarm (pre-event) recording. Pre-alarm recording is 5 sec. Only intra-frames are recorded
Post Event Recording	Sets the recording time (length) for post alarm/event video
Alarm	Enables/disables alarm output for a channel, activating/triggering the alarm output, or an alarm device connected to alarm output. (momentary switch)
Alarm Duration	Set alarm duration (latch time) for the specified channel.
Audio	Enables/disables audio for a specified channel
Schedule	Sets recording schedules. Selecting this menu changes the display as shown in Figure 3.3.3.



Figure 3.3.1. Recording mode Set-up screen

3.3.1. Setting up Motion zones

By selecting **Partial Zone**, users can define motion zones within a screen area, as shown in Figure 3.3.1. Move each rectangular zone around using the four direction key buttons. Press the **SELECT** button to save the defined rectangular region as part of the motion zone. Upon saving, the defined rectangular blocks will change color.



Figure 3.3.2. Motion Zone selection screen

3.3.2. Record Schedule

- Records video based on a defined schedule.

The following table defines button functions within this menu. Use the four **Direction keys** and the **Select** key to navigate through the menu system. Each vertical bar “|” corresponds to one hour.

Rules:

1. Choosing **ALL**, myDVR430 will globally apply the schedule to all time zones and channels.
2. Within a selected channel, a recording mode applies to the entire time zone, for the specific channel.
3. Within a selected time zone, when highlighting one of the vertical bars, “|,” the selected recording mode applies to all channels.

Table 3.3.1. Button functions in Recording time scheduling mode

Button	Function
REW	Sets C ontinuous recording mode indicated as "C" on the screen.
F/REW	Do not enable recording.
PLAY/PAUSE	Enables M otion detection triggered recording indicated as "M" on the screen
FF	Enables S ensor triggered recording indicated as "S" on the screen.
UP	Moves Up in menu item
RIGHT	Moves right in menu item
DOWN	Moves Down in menu item
LEFT	Moves left in menu item
ESC	Exits from scheduling mode



Figure 3.3.3. Recording Schedule Set-up screen

3.4. System

- Configures system parameters

Table 3.4.1. Menu items in System Set-up screen

Item	Description
DVR ID	Defines the system name. Navigate through the position for each alphanumeric character by using the left and right buttons. Up/down buttons change characters.
Description	Displays system information: Firmware Version, Storage Size, IP Address, and MAC Address.
Load Default	Choose OFF or ON. To load default value, choose ON then press the SEL button.
Admin Password	Sets the administrator password. Once selected, the DVR will prompt for the current password and new password. Follow the prompts. The password numbers 1,2,3 and 4 can be input by using direction keys. UP, RIGHT, DOWN, and LEFT , respectively. The default password is 1111.
Network Password	Sets the network client connect password. The DVR prompts for the entire process of setting up a network password. Numbers 1,2,3 and 4 can be input by using direction keys. UP, RIGHT, DOWN, and LEFT , respectively. The default user ID and password is "root" and "1111", respectively.
Date Format	Selects the format for displaying time and date
Set Date & Time	Sets present date and time
PTZ Control	Sets the camera's pan speed, number, type and ID Camera Speed : Sets the communication speed with the PTZ camera. Camera Number : Assigns number to the camera on each channel. Camera Type : Selects the type of the PTZ camera. Camera ID : Sets ID for the camera on each channel.
Language	Selects the OSD (on screen display) language
Send Mail on Alarm	Enables/disables transmission of captured image to predefined e-mail address

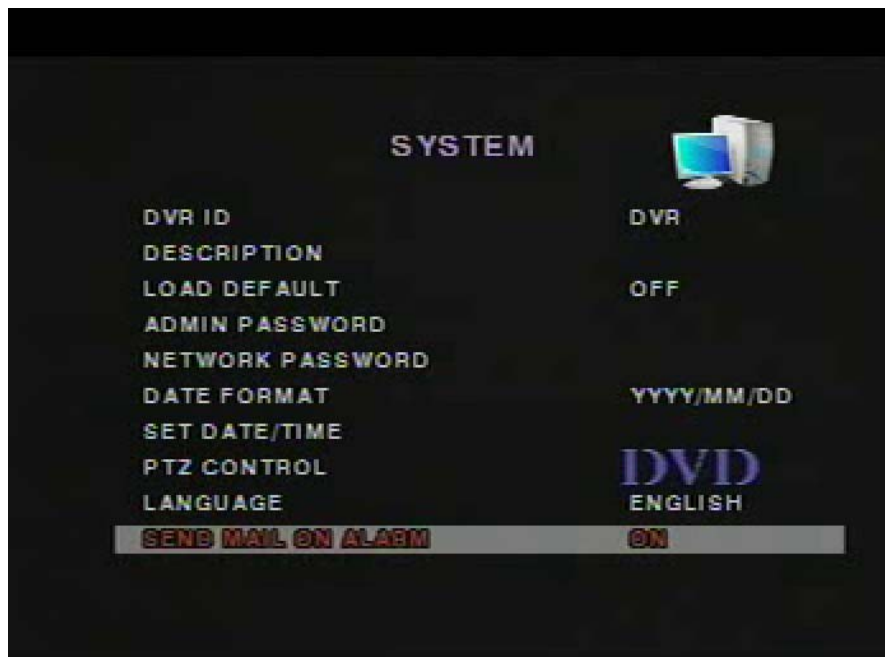


Figure 3.4.1. System Set-up screen

3.5. Network

- Configures network parameters used for remote clients that connect to the DVR over a network. If you do not understand the following settings, consult your network administrator.

Table 3.5.1. Menu items in Network Set-up screen

Item	Description
RTSP Port	RTSP port number
HTTP Port	HTTP Port number
Client Access	Enables/Disables network client access
Bandwidth Saving	Enables/Disables key frame transmission only. This feature is useful when network bandwidth is not enough for live streaming.
Network Type	Type of network connected
DHCP	Enables/Disables DHCP connection (Dynamic ip addressing)
IP	Static IP address
Gateway	Gateway IP address
Subnet Mask	Network Subnet mask
DNS Server	DNS server IP address
DDNS	Domain name for the DDNS server. DDNS is used to resolve dynamic IP address by assigning host name to replace the IP address for the connection.

Send E-mail	E-mail transmission can be initiated when alarm occurs by setting this value to ON. By setting the value ON, e-mail parameter set up screen will pop up.
Mail Address	Input the address of the e-mail recipient
Mail Server Name	Enter the name of the SMTP server used for e-mail transmission.
ID	Enter the ID for logging on to the SMTP server.
Password	Enter password for logging on to the SMTP server.
Return Address	Some of e-mail server refuses reception of e-mail from non-existing e-mail addresses. This is to avoid such situation. Enter e-mail address of a valid e-mail user. No additional e-mail transmission will be made to this e-mail address.



Figure 3.5.1. Network Set-up screen

Port

Port Forward for access from a WAN

When one or more DVRs 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 unique RTSP (Real Time Stream Protocol) and HTTP port numbers. You must also configure your IP sharing device for port forwarding, so that each port, when accessed on the IP sharing device, will forward to the appropriate DVR.

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July. 2006

The contents of this document is subject to change without notice.

The port number is listed next to the Port menu option in the Network menu. ***If you only plan to access the units from within the same local area network, the RTSP and HTTP port do not have to be changed.*** To access the DVR, you have to know the following information:

When accessing from the same LAN	When accessing from outside the LAN
IP address of DVR	IP address of IP sharing device
RTSP port number	RTSP port number
HTTP port number	HTTP port number
Username	Username
Password	Password

Network Types

There are three network types, LAN, DHCP, and ADSL. Each type requires different settings.

LAN

To use the LAN option when connecting the DVR to a network, you need to know IP address, Gateway and Subnet mask. If you do not have information, ask your network administrator.

DHCP

To use the DHCP option when connecting the DVR to a network, select this option. An IP address is automatically assigned by the DHCP server, which assigns IP address and other parameters to a new device automatically. To see the IP address, you can go into Description from System menu.

If your network connection does not allow additional IP address, you will need to use an IP sharing device. In this case, select LAN as the Network Type. You will also need to configure your IP sharing device for port forwarding to allow for a network connection. For more information on port forwarding, refer to the documentations for your IP sharing device (router), or your network administrator.

ADSL

To use the ADSL option when connecting the DVR to a network, you need to know ID (User ID for your ADSL connection) and Password (Password for your ADSL connection)

Your ADSL modem should have an RJ45 connector for connection to the DVR. These are your PPOE settings. If you want to share your connection with other devices, you will need to use an IP sharing device. In this case, select LAN as the Network Type. You will also need to configure your IP sharing device for port forwarding to allow for a network connection. For more information on port forwarding, see the documentation for your IP

sharing device or your network administrator.

3.6. Storage

- Configures storage settings. Overwrite On, records over oldest files first. If Overwrite is turned off, the system will stop recording once the HDD is full. Format will reformat the HDD and erase all video.



Figure 3.6.1. Storage control screen

3.7. Saving Setup Values

If menu items are changed one must save the configuration Use the Save Setup menu. Select Save Setup menu and presss **SELECT** button to enter this menu. Next follow the prompts.



Figure 3.7.1. Save control screen

4. Local Mode Applications

1. Live
2. Search
3. Play
4. Setup
5. Record

4.1. Live Window

- Live mode, video input configuration, Live Set-up.

Figure 4.1.1 shows the screen layout. Various symbols annunciate the DVR status.

Refer to Table 4.1.1 for their definitions.



Figure 4.1.1. Live Screen and Explanations of the Indicators

Table 4.1.1. Indicator ICONS for Live window





ICON	Description
C	Continuous recording in progress
R	Manual recording in progress
S	Sensor alarm recording in progress
M	Motion alarm recording in progress
	Alarm indicator. Lights bright red, when sensor, or motion, is in an alarm condition - for the respective video channel.
	Indicates that the alarm output activated.
	Indicates a network client is connected to the DVR.
	Indicates that sequencing mode is enabled. In this mode video from each channel will be shown in full screen mode, in sequence.

Table 4.1.2. Button functions in Live window

Button	Description
SETUP	Launches the Setup window
SEQ	Enables/disables automatic sequential display of channels in full screen
PLAY/PAUSE	Play or pause playing of recorded video
MISC	Launch menu screen to search for recorded video, log data or archive data.
Direction Buttons	Selects a Channel to be displayed in full screen mode
SELECT	Switches between full screen and quad display modes
ESC	No action/Escape
RECORD	Performs continuous recording for all the channels.
FF	Launches the search window for archived still and video files, or to make a copy to USB memory.
REW	Displays system log data.

4.2. Search Window

Press MISC (SEARCH) button to launch menu screen initiating search. Screen as shown in Figure 4.2.1 will pop up. Either "EVENT SEARCH" or "TIMELINE SEARCH" can be selected to start search of video recorded in the HDD. The other two menu items can be used to display the log data (LOG) or archived data for storage in the USB (ARCHIVE)



4.2.1. Main Entry Screen of Search mode

4.2.1. Event Search

Select “**EVENT SEARCH**” to start the search window. The Search window is used to find stored video for further review, or archive. Define the criteria by :

Date, Channel and Type.

- For the **date**, select date from the calendar.
- For the **channel**, select **ALL** or each channel for the search.
- For the **type**, select **ALL(A)**, **Motion(M)**, **Sensor(S)**, **Manual(R)**, or **Continuous(C)**.



Figure 4.2.2. Search mode screen and the locations of three categories

The input criteria for each category is saved by the **SELECT** button. The activated selection from each category name will be highlighted.

Upon defining the **Type** category, the DVR will retrieve a list of video files that meet the criteria. Use the **up/down** keys to navigate through the list and use **left/right** key to display the next page if needed.

Table 4.2.1. Button functions in Search window

Highlighted Category or Operating Condition	Button	Description
DATE	LEFT, RIGHT, UP, DOWN	Navigate through date on the calendar. Dates having recorded files are indicated in red. Navigation is allowed only to dates having recorded files.
DATE	SELECT	Moves to the CHANNEL category
DATE	ESC	Goes to live mode
CHANNEL	LEFT, RIGHT	Navigates through ALL, CH1, CH2, CH3, CH4

CHANNEL	SELECT	Moves to TYPE category
CHANNEL	ESC	Goes to live mode
TYPE	PLAY/PAUSE	Plays back the selection
TYPE	LEFT, RIGHT	Navigates through ALL, MOTION, SENSOR, MANUAL, and CONTINUOUS
TYPE	SELECT	Searches files within the criteria defined in the search filter, then displays the list. Search filters are : A for all, M for motion, S for sensor, R for manual, C for continuous.
TYPE	ESC	Goes to live mode
LIST	UP, DOWN	Moves the highlighted position up and down.
LIST	LEFT, RIGHT	Displays previous or former set of searched files. A maximum of 15 files are included for each set.
LIST	ESC	Goes to the DATE category.
LIST	SELECT	Plays the video file.
LIST	PLAY/PAUSE	Plays the video file.
Playback	CAP/ARCH	Starts archiving.



Figure 4.2.3. Searched list

4.2.2. Time Line Search

Video data stored between 0:00 to 24:00 of the selected date can be searched for by time line. To start the operation select a date and select to search whether all or each channel using UP/DOWN buttons. Use LEFT/RIGHT button to adjust the time zone. By pressing SELECT button corresponding video data for the time zone are played back.

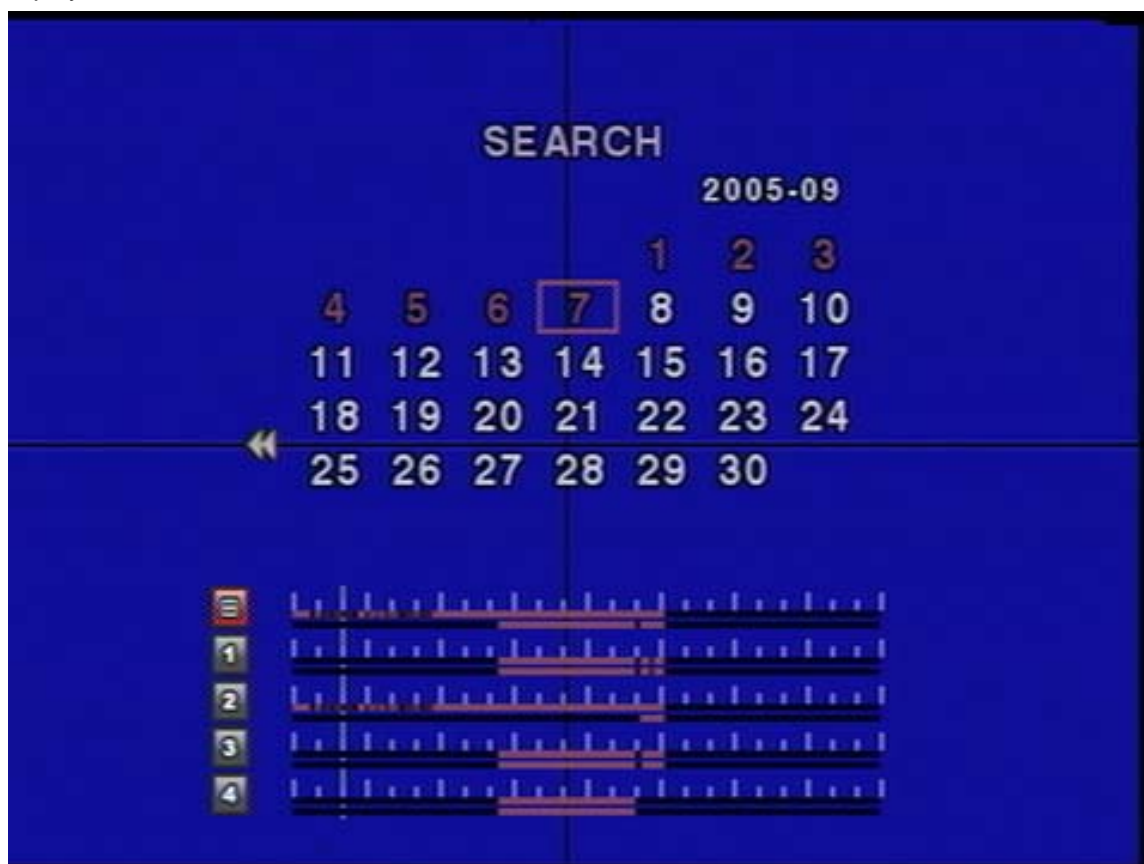


Figure 4.2.4. Screen for Timeline Search

4.2.3. Search for LOG

You can search for the system log data using this menu.



Figure 4.2.5. Screen for Searching LOG data



LIST	
2005/09/07	(1/2)
<11:08:12>	System Start
<11:21:17>	Enter Setup
<11:21:46>	Exit Setup
<11:28:10>	Manual Record Start
<11:30:24>	System Start
<13:57:52>	Enter Setup
<14:07:09>	Exit Setup
<14:09:11>	Enter Setup
<14:15:32>	Exit Setup
<14:15:36>	Manual Record Stop
<14:15:58>	Enter Setup
<14:16:42>	Exit Setup
<14:17:46>	Enter Setup
<14:25:24>	System Start
<14:26:10>	Enter Setup

Figure 4.2.6. Example of LOG data Display

4.2.4. Archived Data Search

List of archived data reserved for copy into the USB Memory are displayed by this menu.

Refer to Chapter 6 for actual copy into the USB memory.



그림 4.2.7. ARCHIVE LIST 화면 구성

4.3. Play Mode

Launched from the Search window, this menu Plays back the recorded video files from the HDD. Pressing the ESC button return the DVR to Search Mode. Playback starts in quad mode where channel 1 is highlighted by default. During playback audio is heard from the highlighted channel.



Figure 4.3.1. Play mode screens

Table 4.3.1. Button functions in Play mode

Name	Description
ESC	Press to enter the changed value or return to upper menu.
REW	Rewind. By pressing this button repeatedly the reverse playback speed can be adjusted. Reverse playback speeds are indicated as -1X, -2X, and -4X for normal, twice, and 4 times the normal speed, annunciated in the bottom right hand corner of the screen.
F/REW	Jumps/Steps backward. – The playback position moves 60 seconds backward.
PLAY/PAUSE	Plays/Pauses/Search
F/ADV	Jumps/Step forward –Playback position moves forward 60 seconds.
FF	Fast forward – Pressing this button repeatedly adjusts the playback speed. Playback speed is indicated as +1X, +2X, and +4X for normal, twice, and 4 times of the regular speed, annunciated in the bottom right hand corner of the screen
UP	Selects channel 1.
RIGHT	Selects channel 2.
DOWN	Selects channel 3.
LEFT	Selects channel 4

SELECT	Selected channel displays in full screen mode. Highlighted channel is selected using direction keys.
CAP/ARCH	Launches archiving function

5. Network Mode Applications

For the remote monitoring, myDVR430 users must install the myNVR application on their PC's. A LAN connection using the RJ45 connector in the rear panel is mandatory for remote connection. myNVR features are explained in a separate manual. The frame rate is limited to 1 or 2 frame/sec when myDVR430 is not recording by transmitting only intra frames while not in recording. When recording is in progress, myDVR430 can transmit the video with same quality as is applied for the recording. This can be achieved by setting the BANDWIDTH SAVING to OFF in Network set up screen. If it is set to ON, only intra frames will be transmitted to show one to two frames per each second to save the network bandwidth.



Figure 5.1. Main GUI screen of myNVR for live monitoring over the network.

6. Archiving Video into USB memory

The user must first “mark” a still image, or video for transfer via USB.

6.1. Preparation for the Archiving via USB

Still video can be captured and stored into the HDD in live mode or while playing back recorded video. In live mode, press **CAP/ARCH** button to capture and store the still image. myDVR430 will respond with the screen shown in Figure 6.1.1.



Figure 6.1.1. Screen when archiving function is initiated by pressing USB/ARCH in Live mode.

The still image will be stored into HDD and can be transferred to the USB memory later.

In playback mode, press **CAP/ARCH** to launch archiving function. myDVR430 will ask whether to store still image or motion video. If the user selects still image, it will store captured image into the HDD. If the user select motion video, myDVR430 will keep the record of the archiving operation without actual writing to the HDD. When user plug in USB memory and ask for archiving to the USB, myDVR430 will convert corresponding portion of the motion video into an AVI file and store on the USB memory. It is very important the user transfer the data to the USB memory before actual video content is wiped out from the HDD.

6.2. Transferring Images or Video to USB

Connect a USB storage device.

1) In LIVE mode, press the **MISC(SEARCH)** button then select "ARCHIVE" menu. This brings up the calendar screen that prompts you to specify search criteria for stored images or video. Dates having archived data are displayed in red.



Figure 6.2.1. Archive data Search Window.

2) Move the cursor to the date you wish to select, then press the **SELECT** button which retrieves a list of archived images or video.



Figure 6.2.2. List of Archived Files

3) Select one of the files using the Up and Down buttons, and then press the **SELECT** button to show the image, or first frame of video.

4) Press the **CAP/ARCH** button to initiate transferring process. The myDVR430 checks for compatible USB memory.

5) Prompt: Continue saving YES or No. Select "Yes" to continue.

myDVR430 will finish the transferring process. Depending upon the size of the image or the video, it may take a few seconds to a few minutes to finish transferring. When there is insufficient space for archiving, myDVR430 will generate an error message and quit the archiving process. **Once myDVR430 reports an error due to insufficient memory space, do not try to transfer data again.** Before trying to transfer the data again, unplug the USB memory and delete files (using your PC) freeing storage space, or use a larger capacity memory device. Make sure to follow the proper procedures for unplugging your USB memory device. Improper removal of USB memory devices on your PC may cause formatting errors.

6) After completing the transfer process, press the ESC button to return to the "List" screen.

myDVR430 converts USB archived video to the AVI file format for easy viewing with Windows Media player. The DivX codec is required for playback. Download the DivX codec from :

<http://download.divxmovies.com/XviD-1.0.3-20122004.exe>

The codec can be downloaded freely from the URL.

Time stamp display

Due to the enhanced security of Window Media Player 10 running on Window XP, some further set up is needed when using Window Media Player.

In the Window Media Player, go to Tool->Option->Security then check "Show local captions when present" as shown below.

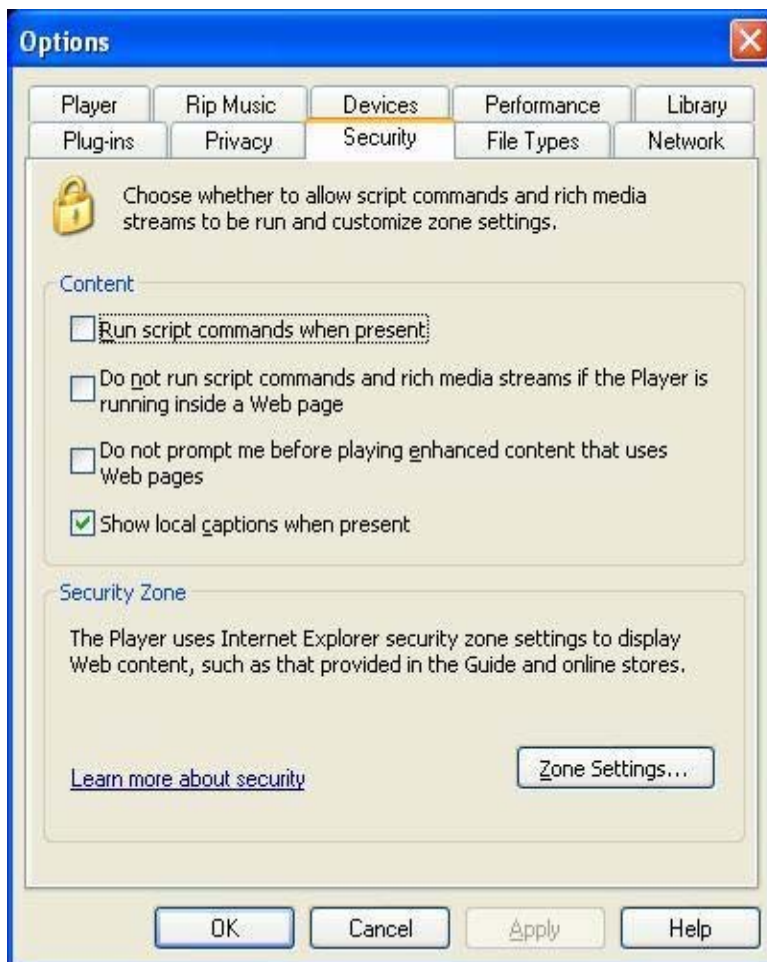


Figure 6.2.3. Set up screen for Window Media Player 10

Caution!

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The contents of this document is subject to change without notice.

Always back-up the contents of your USB memory device before archiving data from the myDVR430.

- Improper handling of USB memory may cause the USB memory device to become unstable.


Unplugging the USB memory during a data transfer, can cause system errors on the USB memory devices file system.

- Before archiving to USB memory, always ensure that there is enough free storage space remaining in the USB memory device.

7. Remote Set Up of myDVR430

myDVR430 has a remote web interface to access to the set up parameters. Most of the set up parameters available on OSD menus can be set up by remote access over the network.

Schedule and motion zone set up are the only two set up menu that are not available over network connection.

To connect to the admin page over the web you can either click on  button on the myNVR client program or connect to <http://ip-address:http-port/admin.htm> on Internet Explorer.

Before connection to the admin page, the browser will ask for the ID and password for the access, which are "root" and "dw2001", respectively, by default.

Make sure that network set-up has to be finished before connection to the admin page.

Figures below show Set Up pages for each category. After setting all the parameters on each page, press APPLY button at the bottom of the page for temporal storage of the settings.

After finishing the setting of all the pages, go to "Save Setup" menu and press SAVE button. The system will apply the settings and reboot.

In System Setup menu, you can change the ID and password for the connection to the admin page. It is recommended to change the ID and password upon the first connection to the system for security. Default ID and password are "root" and "dw2001".

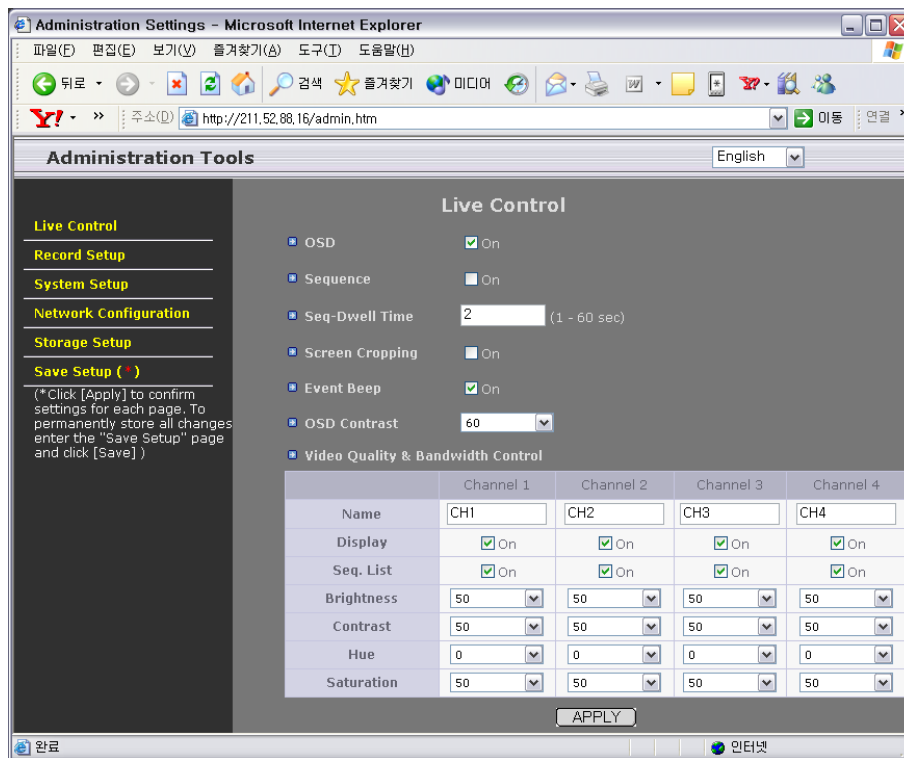


Figure 7.1. Live Control

After finishing the set up on the page click on “APPLY” for temporal storage of the parameters.

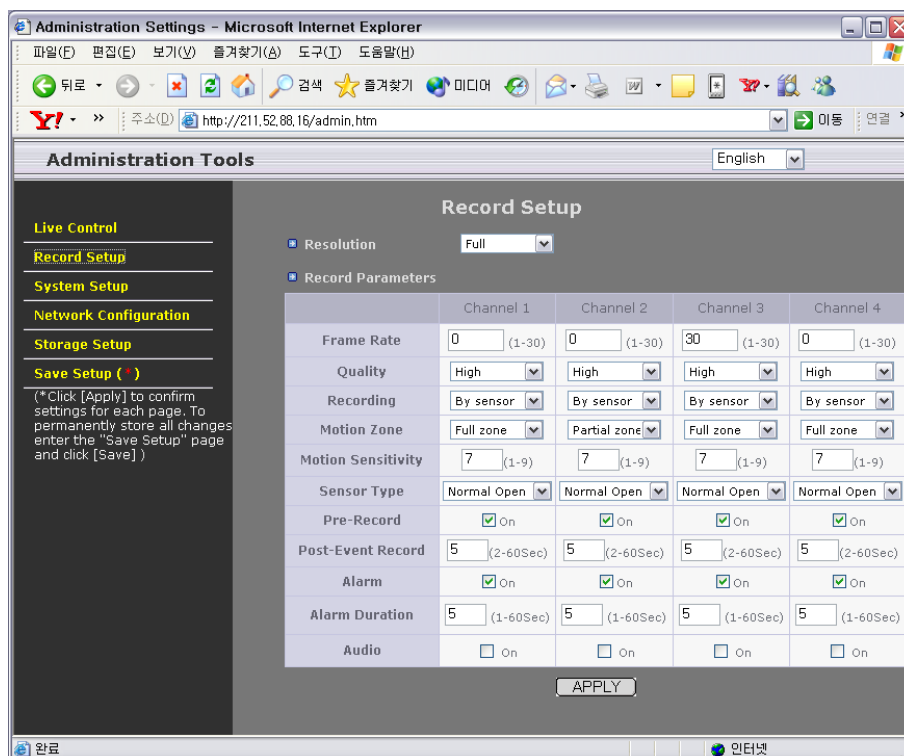


Figure 7.2. Record Setup

After finishing the set up on the page click on “APPLY” for temporal storage of the parameters.

Administration Tools English

System Setup

- ☒ **DVR ID**
- ☒ **Description**
 - Version:
 - Storage Size:
 - IP Address:
 - MAC Address:
- ☒ **Admin for Web Access**
 - ID: (4- 8 alphanumeric)
 - Password: (4- 8 alphanumeric)
 - Confirm Password:
- ☒ **Load Default** ☐ On
- ☒ **Date Format**
- ☒ **Set Data & Time** (yyyy/mm/dd) (hh/mm/ss)
- ☒ **PTZ Control**

	Speed (bps)	Camera Type	Camera ID
Camera 1		---	0 (0-63)
Camera 2		---	0 (0-63)
Camera 3	<input type="text" value="19200"/>	---	0 (0-63)
Camera 4		---	0 (0-63)
- ☒ **Send Mail on Alarm** ☒ On

APPLY

Figure 7.3. System Setup

After finishing the set up on the page click on “APPLY” for temporal storage of the parameters. For security it is recommended to change ID and password of the administrator (The parameters under “Admin for Web Access”).

Default ID and password are “root” and “dw2001”, respectively.

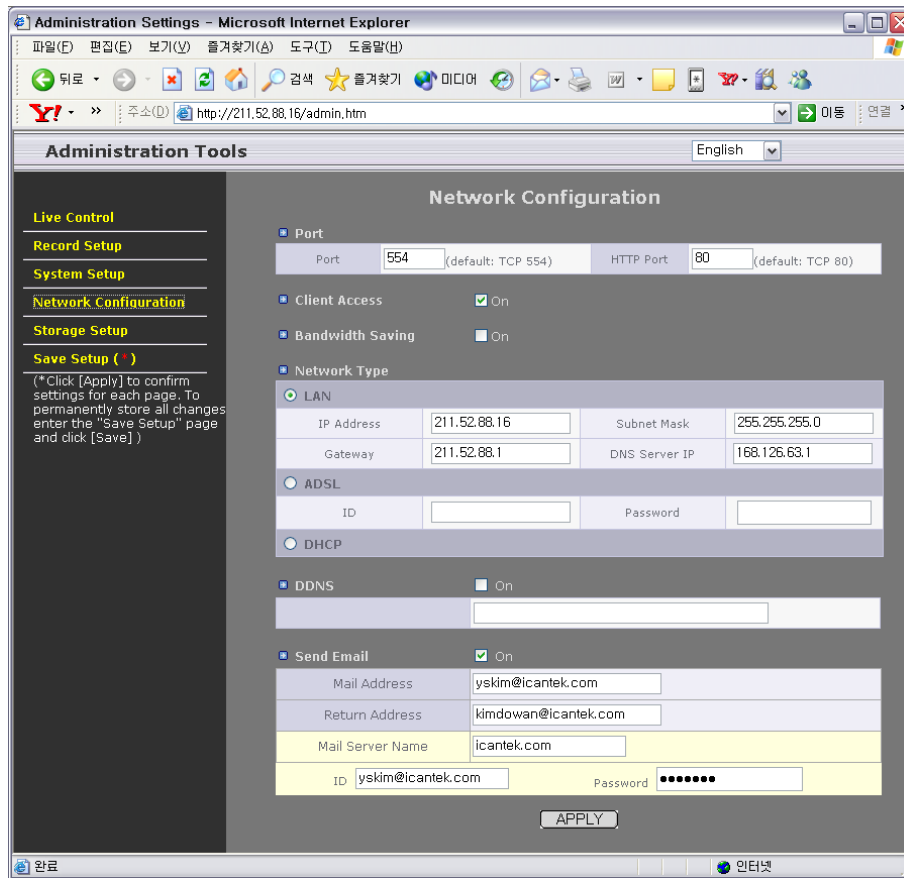


Figure 7.4. Network Configuration

After finishing the set up on the page click on “APPLY” for temporal storage of the parameters.

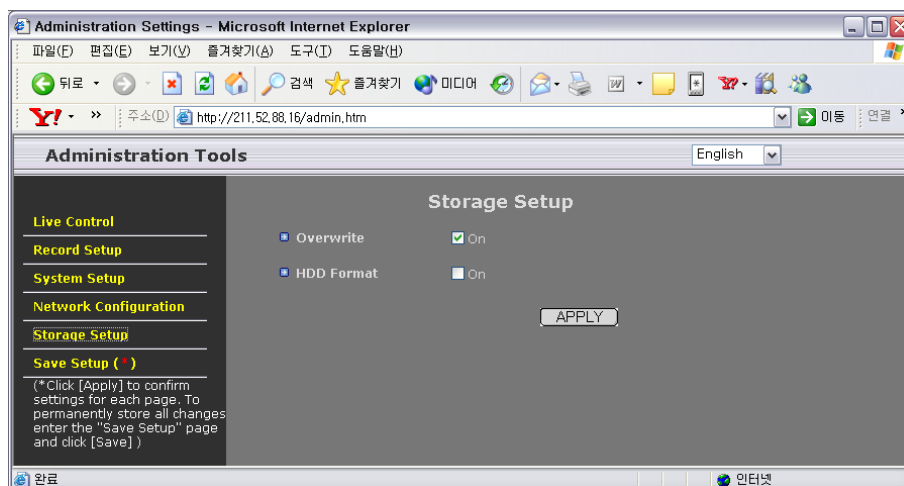


Figure 7.5. Storage Setup

After finishing the set up on the page click on “APPLY” for temporal storage of the parameters.

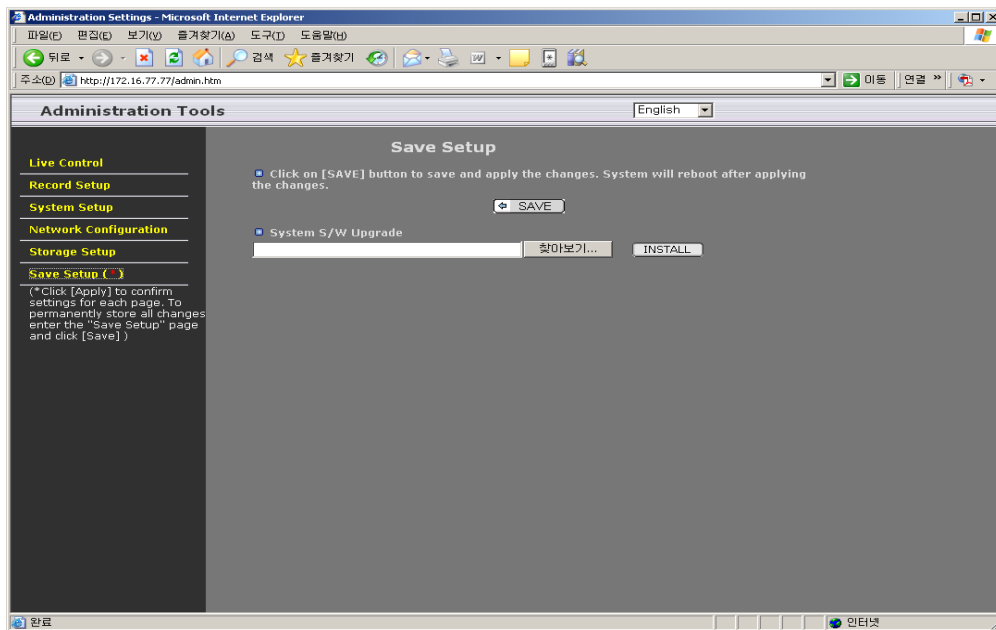


Figure 7.6. Save Setup

After finishing the set up of all pages click on “SAVE” in this screen for permanent application of the changes. The system will boot again to apply the changes. If there was no change in the settings, the system will not reboot.

8. Upgrading Firmware

myDVR430's OS and feature set is upgrade ready! In order to upgrade the firmware, myDVR430 **must be in engineering mode**. To start engineering mode:

1. Press the Setup button and enter the admin password.
2. Go to the System menu and select the Admin password menu item
3. Enter the password as 12341234, and press the **SELECT** button

Upon entering engineering mode (Figure 18), the unit will prompt with two upgrade options, USB upgrade, or Network upgrade.

Note : There are menu items defined as test modes, Tests are used for manufacturing purpose only. Entering test modes may void the warranty.

Caution : Upgrade procedures may change between firmware releases. Always, refer to the release notes included with each firmware update before proceeding with the upgrade process.



Figure 7.1. Engineering mode

8.1. Upgrading via USB

To upgrade:

1. Create an "upgrade" directory under the root directory of the USB memory.
2. Copy the upgrade firmware image (*.bin) into the upgrade directory on the USB memory device and rename the firmware image to **app.bin**
3. Plug in the USB memory device into the USB slot on the front panel.
4. From engineering mode, Select the **USB upgrade** option
5. Press the **SELECT** button to start the upgrade.
6. When complete, myDVR430 automatically reboots into Engineering Mode.
7. Select "Boot Application" and restart the system in normal mode.

8.2. Upgrading over the network

The firmware of myDVR430 can be upgraded over the network. To upgrade over the network :

1. Copy upgrade file into your PC
2. Go to Save Setup menu of the admin page
3. Click on Search button.
4. The browser will ask for the selection of the upgrade file.
5. After the file selection is made, click on INSTALL button.
6. The system will be upgraded and reboot after a while.

Network Configuration Work Sheet

Gateway IP Address	
myDvr430 Static IP address	
Subnet Mask	
DNS Server IP Address	
DDNS (Dynamic Domain Name Server)	
RTSP Port (FOR PORT FORWARDING BEHIND A FIREWALL)	
HTTP Port (FOR PORT FORWARDING BEHIND A FIREWALL)	
User Name	
Password	
ADSL/PPOE User Name <i>For a direction connection to a ADSL modem (without a router)</i>	
ADSL/PPOE Password <i>For a direction connection to a ADSL modem (without a router)</i>	
Mail Address <i>Email recipient address.</i>	
Mail Server Name <i>SMTP Server name for sending the email</i>	

ID <i>Valid user id for the SMTP Server</i>	
Password <i>Valid password for the user id for the SMTP Server</i>	
Return Address <i>A valid email to avoid reject from the email receiving sever.</i>	

Notes: