

VIRTUAL H.264 8/16 CH DVR USER GUIDE

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DATE: 2009/03/01 VER 1.3

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SPECIFICATIONS

Item		8/16 Channel, 120 fps(or 100fps)		
Video	Input	Channel, Input Level	8/16 CH, Composite 1.0Vp-p, 75 Ohm	
		Signal Format	NTSC/PAL(Auto detection)	
	Output		1 CH Composite Output/15pin D-Sub VGA Output	
Audio	Input / Output		4 Line In / 1 Line Out	
Alarm	Sensor Input		4 (NC/NO Selectable)	
	Alarm Output		1 (By Alarm, Motion, Video Loss)	
Recording	Compression		Virtual H.264	
	Multi Operation		Triplex (Playback/Record/Network)	
	Resolution	NTSC		120fps(CIF) / 60 fps(Half-D1) / 30 fps(D1)
		PAL		100fps(CIF) / 50 fps(Half-D1) / 25 fps(D1)
	Recording Quality Grade		Network/Standard/High/Superior/Ultra	
	Recording Mode		Continuous / Schedule / Motion/ Sensor/ Manual	
Motion Detection		Motion detection setup by Grid		
Display	Speed		Real Time Display(NTSC/PAL)	
Playback	Search Mode		Event, Archive, Log, Time Line	
Storage	Internal HDD		S-ATA (Up to 1TB)	
	Backup	USB 2.0 flash stick	JPEG & AVI & DVR	
		Network	Moving picture & Still Image	
Serial port	Camera Control		1 RS-485	
Network	Dynamic IP Support		Yes	
	Network Interface		10/100 base-T Ethernet (RJ-45)	
Client S/W	Functions		Live, Search, Backup	
General	Power Source		DC 12V 5A	
	Unit Weight		3.5kg	
	Dimension (W x H x D)		435(W) x 335(D) x 54(H)	
	Operation Temperature		During operation: 5°C - 40°C During storage: -10°C - +50°C	
	Operation Humidity		0 - 90%	

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Warnings

Installation and servicing should be performed by qualified and experienced personnel only.

DVR should always remain OFF during any installation process

Product Components

The package contains the main unit and its components as specified below. When you purchase the unit, please check to ensure the components specified below are included

DVR Set X1

Client Software CD X1

Remote Control X1

Battery 1.5V (AAA x 2EA) X1

User Manual X1

Power Adaptor X1

Power Cord X1

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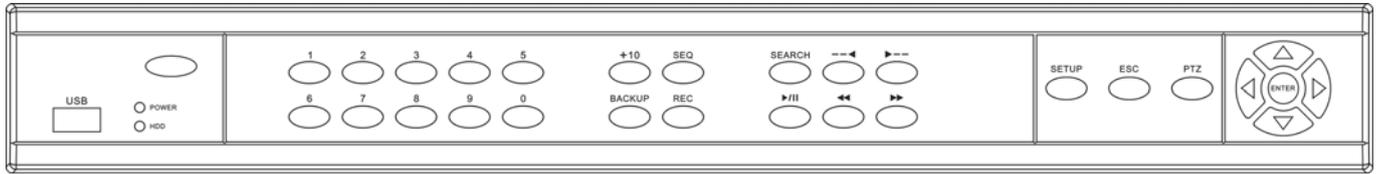
1. Features

- 8/16 channels real-time live display and 8/16 channels simultaneous playback.
- Virtual H.264 - Unbeatable recording picture quality and compression ratio has been tuned for years. It best fits for minimizing recording space and networking speed.
- TRIPLEX - Simultaneous Recording, Playback, and Networking
- NaFS (File System developed) - Designed & developed for preventing loss and broke of recording data by any power failure.
- Multiplexing operation
- Reliability - Real Time Operating System and simplified hardware as well as watchdog timer ensure the reliability.
- Individual channel recording and playback with different frame rate.
- High-quality live and playback resolution.
- Multi-site management - Supported by CMS application.
- Network features - Remote Live, Playback, and Backup.
- Network via LAN, DHCP, DDNS,ADSL (Dynamic and Static IP address).
- User-friendly setup menu with graphic user interface.
- Easy to schedule a complicated weekly recording plan.
- The OSD icons on screen provide various helpful and well-explained information.
- Motion detection – Grid 15x12 motion zone per camera is provided.
- USB ports for JPEG, H.264 data backup and software upgrade using USB flash memory stick.
- Still image capture and review as JPEG format.
- Easy operating with the buttons on the front and the remote controller.
- User verification by password certification.
- Video loss detection.
- Backup - Still-images or AVI data into USB flash memory stick and Network.
- Multi-Languages -User can easily select language from Setup menu.

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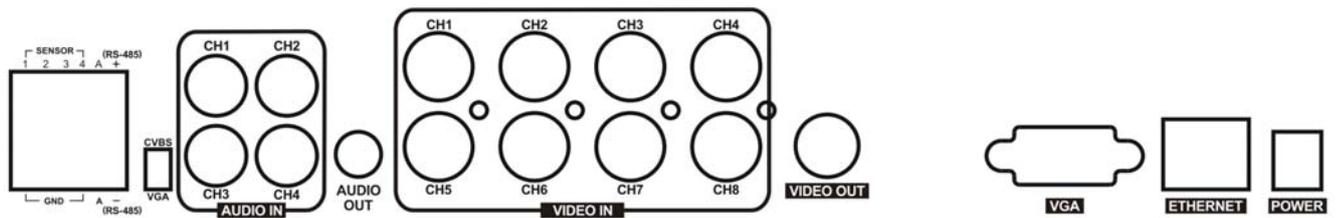
2. Hardware Overview

2-1 Hardware

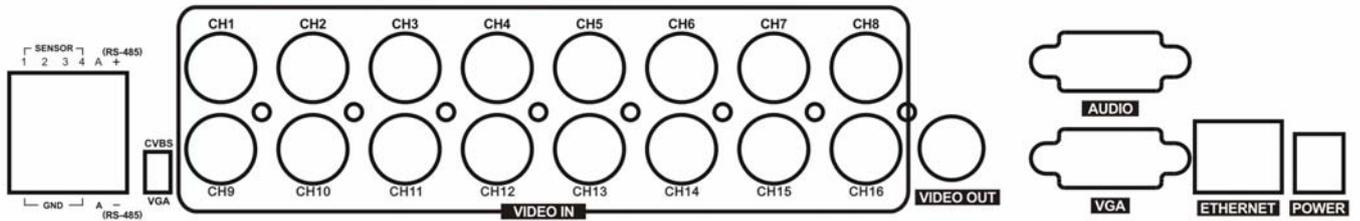


USB PORT

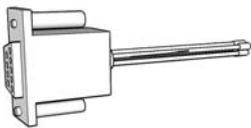
Front Panel



8ch DVR BASE

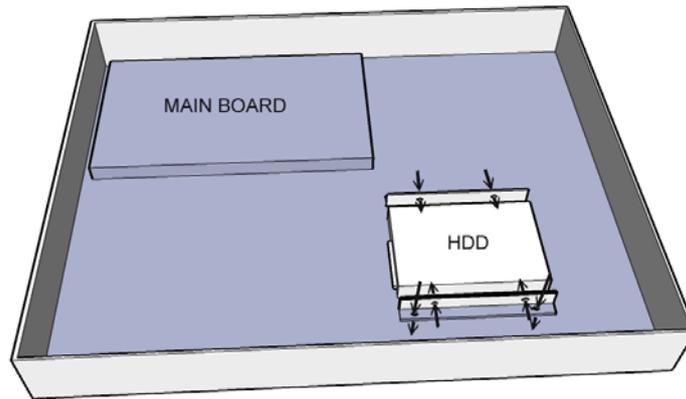


16ch DVR BASE



16ch Audio Cable

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Please remove top cover of the DVR (show as picture above) and install one of the HDD below:

	Size	Buffer
HITACHI	160 GB~1TB	8 MB~16MB
MAXTOR	160 GB~300GB	2 MB~16MB
WesternDigital	200 GB~1TB	8 MB~16MB
Seagate	80GB~1TB	2MB~32MB

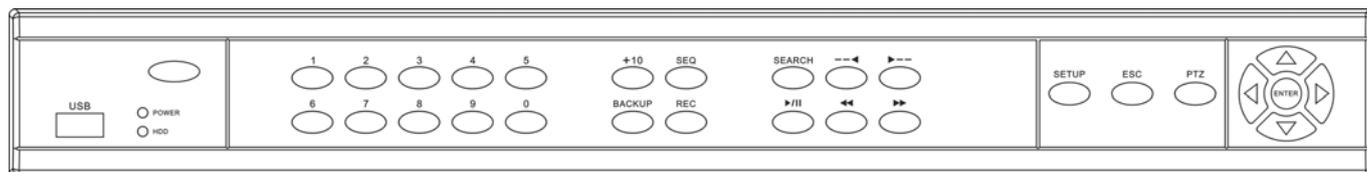
Compatible HDD List

IMPORTANT: DO NOT USE THE FOLLOWING HDD:

- 1. MAXTOR 160GB (MODEL NUMBER: 6L160PO) HDD**
- 2. WESTERN DIGITAL 320GB HDD**
- 3. PLEASE REFER TO APPENDIX 2 FOR DETAIL HDD COMPATIBLE LIST.**

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2-2. Front Panel



Front Panel buttons

Name	Description
NUMBER(1~0)	Select channel with number button (use +10 button for 16ch DVR)
SEQ	Auto sequencing of channels in full screen mode. (Toggle)
PTZ	Enter PTZ mode
SETUP	Enter SYSTEM SETUP menu.
SEARCH	Enter Search menu.-->Event search /Time line search /Log /Archive search
BACKUP	Archiving in live or playback mode. Live mode: Backup live picture only Playback mode: Backup picture and video
◀◀	Rewind the footage at 1x, 2x, and 4x speed in playback mode.
--◀	Jump/Step backward. – In playback mode, the playback position moves 60 seconds backward.
▶--	Jump/Step forward – In playback mode, the playback position moves 60 seconds forward.
▶▶	Fast forward the footage at 1x, 2x, and 4x speeds in playback mode
REC	Start and stop recording manually.
UP	Scroll up in the system menu or select camera 1 in live mode. It can also be used as number 1 when entering password.
RIGHT	Move right or change values in system menu or select camera 2 in live mode. It can also be used as number 2 when entering password.
DOWN	Scroll down in the system menu or select camera 3 in live mode. It can also be used as number 3 when entering password.
LEFT	Move left or change values in system menu or select camera 4 in live mode. It can also be used as number 4 when entering password.
Enter	Select full screen or quad view in live display mode.
ESC	Return or cancel command

Front LED and Port

Name	Description
LCD	Solid light when DVR is power on.
HDD	Solid light when DVR is accessing hard disk.

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2-3. Rear Panel

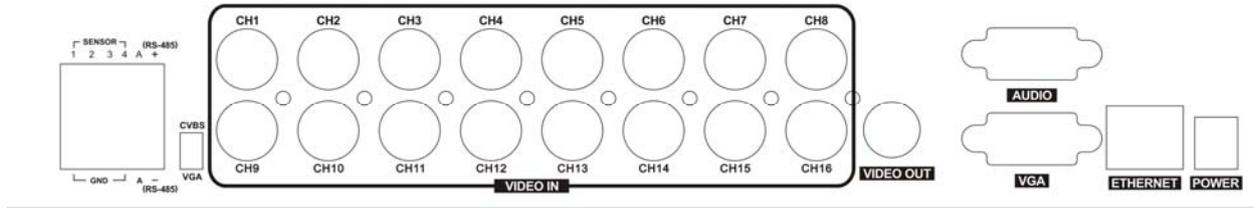


Table 2.2.1. Rear Panel Connections

Label	Operation
VIDEO IN	8 /16 connectors for video input. Connect camera output to Video-in (NTSC/PAL)
VIDEO OUT	1 connector for video output.
VGA	Connector for VGA monitor
AUDIO	Audio 1~4: AUDIO IN/AUDIO OUT(16ch use DSUB-9 for audio input and output)
SENSOR IN	Connection for sensor device.
ALARM OUT	1 alarm device output. Provides simple On/Off switching by using relay. 0.5A/125V, 1A/30V
RS-485	Connect to PTZ camera,+→PTZ D+ / - →PTZ D-
LAN	RJ45 connector for LAN connection.
DC 12V	Apply 12V DC using the DC adaptor supplied with the equipment.
SWITCH	Select either VGA monitor or CVBS (Composite Video Blanking Sync) monitor. DO NOT CHANGE THIS SETTING WHEN DVR IS ON. DVR MUST REBOOT IF SWITCH IS FLIPPED.

2-4. Remote Controller



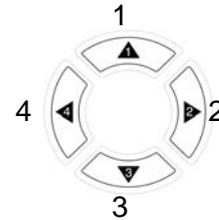
ID	DVR ID setup
REC	Record manually
NUMBER	Press number button to select channel. For channel 11~16, press +10 key and followed by 1~6
◀◀	Fast Rewind
▶▶	Fast Forward
▶/ 	Play/Pause
▶--	PTZ/ Jump/Step forward
--◀	Jump/Step backward
SEL	Enter
DIRECTION	Direction or number 1 to 4
SETUP	Setup menu screen
SEARCH	Search menu screen
ESC	Esc
BACKUP	Capture
SEQ	Sequential channel conversion

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3. System Overview

3-1. Setup – Main Screen

After pressing the <SETUP> button, DVR will prompt for password. The **default password is 1111**, which can be entered by pressing the <UP> button 4 times and followed by <ENTER> button. It is highly recommended to setup a new password immediately. Please refer to section 3.6 for how to assign a password. After a password has been assigned, enter the password by using the direction keys (representing 1, 2, 3, & 4) or number keys, and press the <ENTER> button for the password validation. Once the password is entered, you will see the screen as follow. Navigate through the menu items and press <ENTER> button to enter the sub-category menu.



SETUP



LIVE



RECORD



DEVICE



SYSTEM



SECURITY



NETWORK



STORAGE

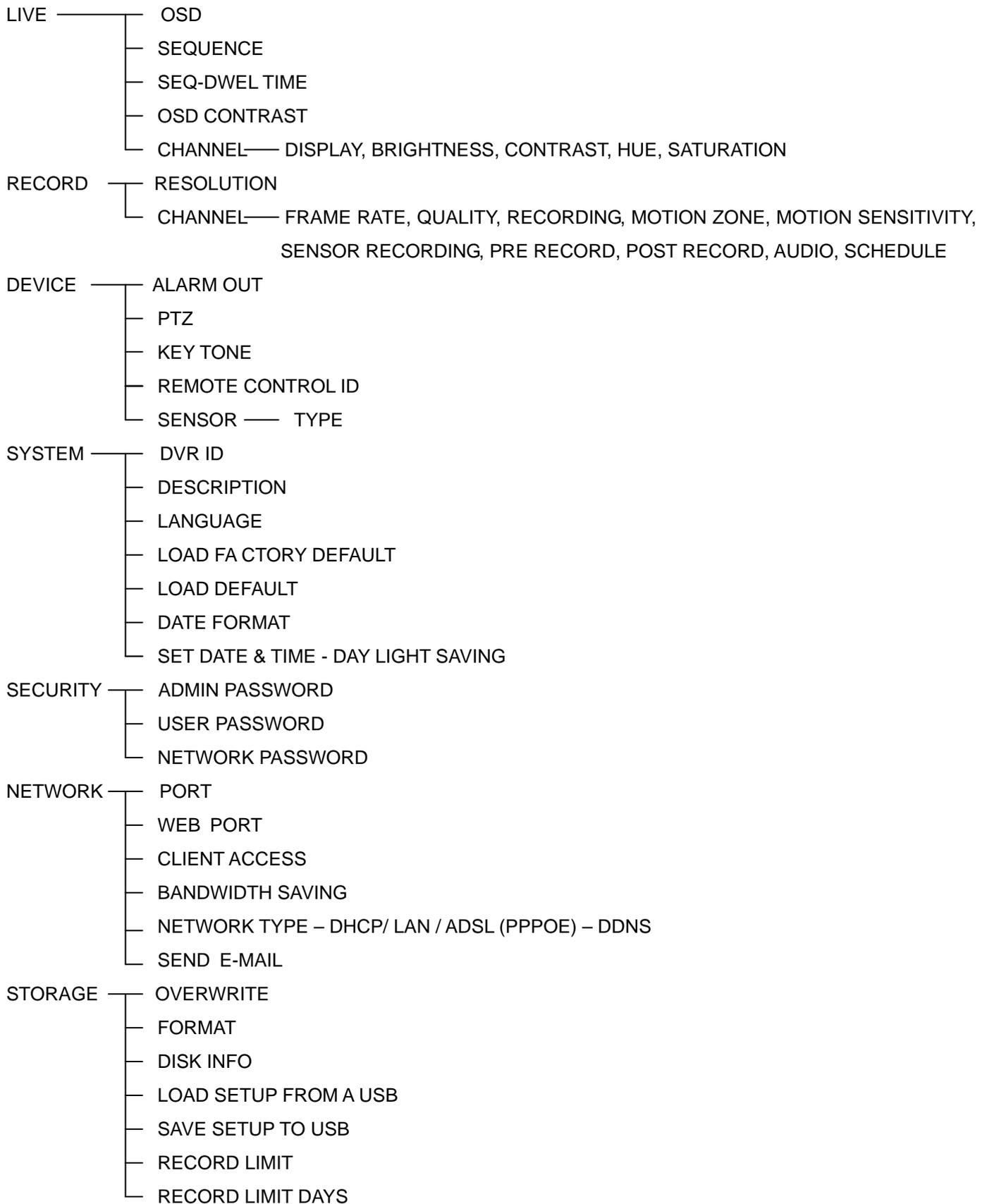


SAVE SETUP

Setup Menu Screen

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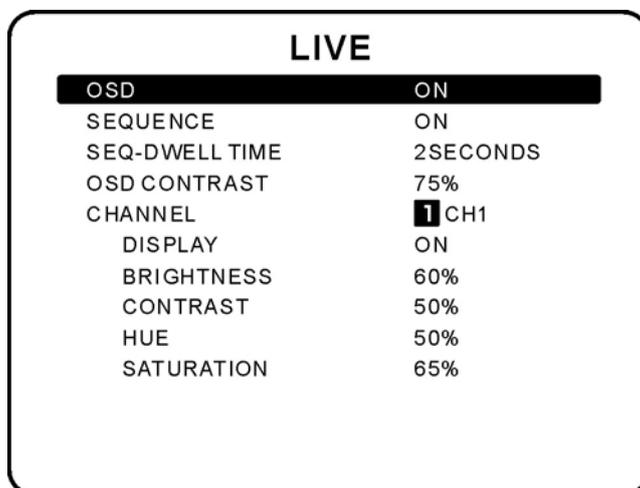
Setup Menu Configuration



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3-2. Setup – Live Mode

Set the values for live display. Navigate through the menu items by pressing <UP> or <DOWN >button. The value of the menu item can be modified by pressing <LEFT> or <RIGHT> button.



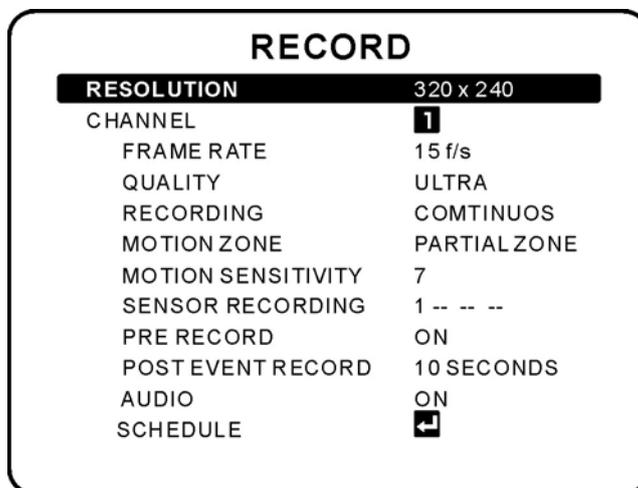
Menu Items in Live Mode Setup

Item	Description
OSD	Enable/disable on-screen display.
SEQUENCE	Enable/disable SEQ button
SEQ-DWELL TIME	Set the dwell time for each, 4, 9 or 16 channels display in sequential display mode.
OSD CONTRAST	Set the contrast of the On Screen Display (OSD)
CHANNEL	Select the channel for applying the following settings. Press SELECT to edit channel name.
DISPLAY	Enable/disable the video channel display in live display mode
BRIGHTNESS	Change the brightness value for the specified channel
CONTRAST	Change the contrast value for the specified channel
HUE	Change the hue value for the specified channel
SATURATION	Change the saturation value for the specified channel

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3-3. Setup – Recording Mode

Set the values for recording video. Navigate through menu items by pressing <UP> or <DOWN> button. User can change the value of the menu item by pressing <LEFT> or <RIGHT> button.



Menu Items In Recording Mode Setup

Menu item	Description
RESOLUTION	Set the resolution among 704x480, 704x240, or 352x240 for NTSC. (PAL: 704*576/ 704*288/ 352*288)
CHANNEL	Select the channel to apply the following settings. Changes will immediately appll to the selected channel.
FRAME RATE	Set the frame rate for the specified channel. The sum of the frame rate values from each channel cannot exceed the maximum frame rates for a specific recording resolution. 120fps(CIF) / 60 fps(Half-D1) / 30 fps(D1)(NTSC) 100fps(CIF) / 50 fps(Half-D1) / 25 fps(D1)(PAL)
QUALITY	Select the recording quality for the specified channel from NETWORK / STANDARD / HIGH / SUPERIOR / ULTRA.
RECORDING	Set a recording mode for each channel. Continuous / Motion / Sensor / Schedule / Disable.
MOTION ZONE	Select Full Zone or Partial Zone for motion sensing.
MOTION SENSITIVITY	Set the motion sensitivity for the specified channel. Adjust the motion sensitivity from 1 to 9.
SENSOR RECORDING	Enable setting up to 4 sensors for the specified channel.
PRE RECORD	Enable/disable pre-event recording. Pre-event recording time is 3 seconds and only intra-frames are recorded for pre-event recording.

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POST EVENT RECORD Set the post event recording time duration up to 30 seconds for the specified channel.

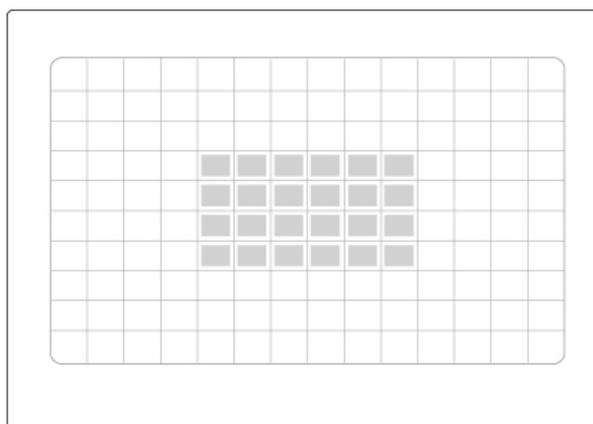
SCHEDULE Set the recording schedule.

NOTE

1. In order to receive smooth video during playback, it is highly recommend to set the frame rate of each channel for more than 3fps
2. Switch to full screen during playback while audio recoding is enabled.

3-3-1. Motion Zones

By selecting Partial Zone in the Motion Zone menu, user can setup the motion sensing zones in the screen. Move around each rectangular zone using 4 direction key buttons and press <ENTER> button to include the rectangular region as part of the motion sensing zone. The rectangular blocks included as part of the motion zone are indicated by changing the color of the blocks.



Motion Zone Selection Screen

3-3-2. Recording Schedule

To set up a recording schedule, select SCHEDULE in the RECORD menu.

Use the arrow buttons to navigate through the items and set the recording.

[ALL]: Press <ENTER> button to apply to the entire time zone and all channels.

[SUN to SAT]: Press <ENTER> button to apply to the entire time zone for the specified channel.

[ENTER]: The recording mode such as C (continuous), M (motion), S (sensor) and disable mode can be selected by using <ENTER> button.

[COPY FROM to COPY TO]: Copy the entire setup values of the selected channel to another channel

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		SCHEDULE-CH1								
COPY FROM								CH1		
COPY TO								CH1		
		0	3	6	9	12	15	18	21	24
ALL										
SUN	
MON	
TUE	
WED	
THU	
FRI	
SAT	

Schedule Recording Setup Screen

3-4. Setup - Device Mode

DEVICE	
ALARM-OUT	<input checked="" type="checkbox"/>
PTZ	<input checked="" type="checkbox"/>
KEY TONE	ON
REMOTE CONTROL ID	00
SENSOR	1
TYPE	N/OPEN

Menu Items in Device Setup Screen

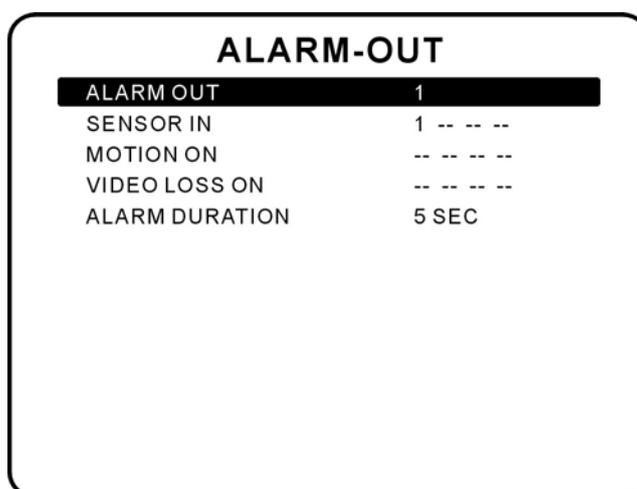
Item	Description
ALARM-OUT	Set the sensor, motion, and video loss for each alarm.
PTZ	Set the camera speed, number, type and ID for PTZ control
KEY TONE	Enable/disable key tone.
REMOTE CONTROL ID	Select an ID of remote controller.(default ID is 00) 1. Select ID. 2. Press the same number as ID set in DVR on a remote controller. Before selecting ID, R:A is displayed as default on the live screen.
SENSOR	Select sensor from 1 to 4.
TYPE	Set the type of sensor for the specified channel. Options are: None, N/O (normal open), and N/C (normal closed).

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3-4-1. Alarm-Out

Table 3.4.2. Menu Item in Alarm-Out Setup Screen

Item	Description
ALARM OUT	Only 1 output
SENSOR IN	Enable setting up to 4 sensors out of 16 channels.
MOTION ON	Enable setting up to 4 cameras out of 16 channels.
VIDEO LOSS ON	Enable setting up to 4 cameras out of 16 channels.
ALARM DURATION	Set the dwell time of alarm from 3 to 255 seconds.



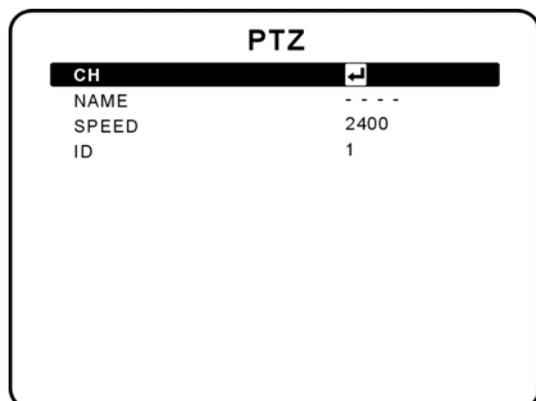
Alarm-Out Setup Screen

3-4-2. PTZ Setup

To control the PTZ functions of the camera, connect the controller to the RS-485 port.

For speed dome cameras that supports RS-485, connect them directly to the RS-485 port. If the PTZ is controlled via RS-232C, a Signal Converter (RS-485 to RS-232C) is a necessary.

In the PTZ Control setting in the setup menu, user can select or set the protocol type of the camera which is the same as the one that is installed on the site. If the camera has a specific camera ID, select the camera ID by using <Left> or <Right> button.



PTZ Setup Screen

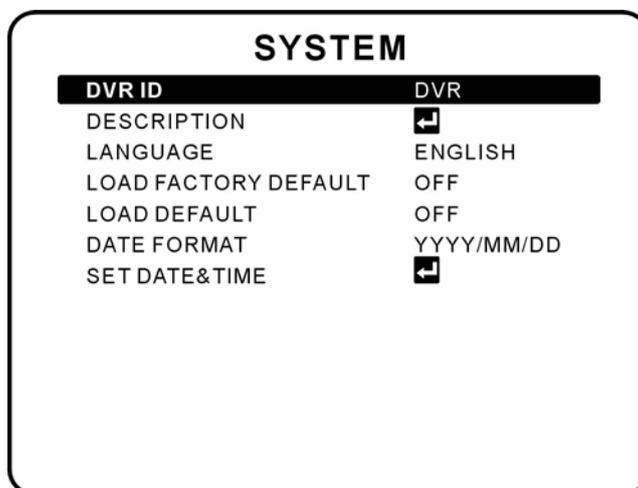
Item	Description
CH	Channel number that the PTZ is connected to
NAME	Protocol type
SPEED	19200, 14400, 9600, 4800, 2400
ID	0-63

Menu Item in PTZ Setup Screen

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3-5. Setup – System Mode

In this menu, system parameters can be input. Navigate through the menu items by pressing <UP> or <DOWN> button. User can change the value of the menu items by pressing <LEFT> or <RIGHT> button and <UP> or <DOWN> button.



Menu Items in System Setup Screen

Item	Description
DVR ID	The name of the system. Press <ENTER> button to select and move through the position for each alphanumeric character by pressing <LEFT> or <RIGHT> button. <UP> or <DOWN> button is used to change the character for each location. 9 characters are available.
DESCRIPTION	System information.
LANGUAGE	Select system language.
LOAD FACTORY DEFAULT	Reset all setting values back to factory default.
LOAD DEFAULT	Select OFF or ON. Select ON to load defaults. (Password, date format, DLS, Network setting, and HDD overwrite remain unchanged)
DATE FORMAT	Select the preferred date and time display
SET DATE&TIME	Set the present date, time and daylight saving for the DVR.
DAY LIGHT SAVING	Set the DLS (Daylight Saving) for the area. The options are: OFF /USA / EU / Others/. 1. USA (DLS time is applied automatically when being on the DLS time zone and is displayed on the current time) 2. EU (Set the GMT area for DLS time apply on the current time)

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- GMT AREA +00:00

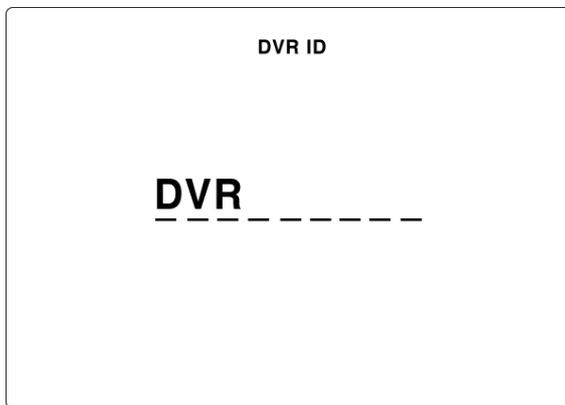
3. OTHERS

- BEGIN (MAR 1ST SUN/00H)
- END (SEP 1ST MON/00H)

(Set the BEGIN and END time for the specific area except EU and USA) use <UP> and <DOWN> buttons to change the value of month, week, day and hour.

CAUTION:

- DO NOT SET THE DLS START FROM 23:00
 - DLS CANNOT BE APPLIED IF BEGIN AND END ARE THE SAME.
-



DVR ID Setup Screen



DVR Information Display Screen

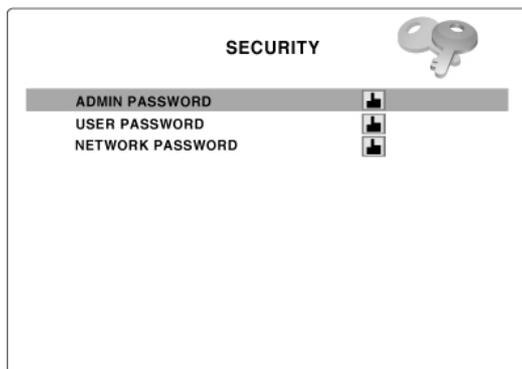


Date & Time Setup Screen

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3-6. Setup – Security Mode

In this menu, password and security parameters can be input. Navigate through the menu items by pressing <UP> or <DOWN> button, and use <LEFT> or <RIGHT> button to change the value of the menu items.

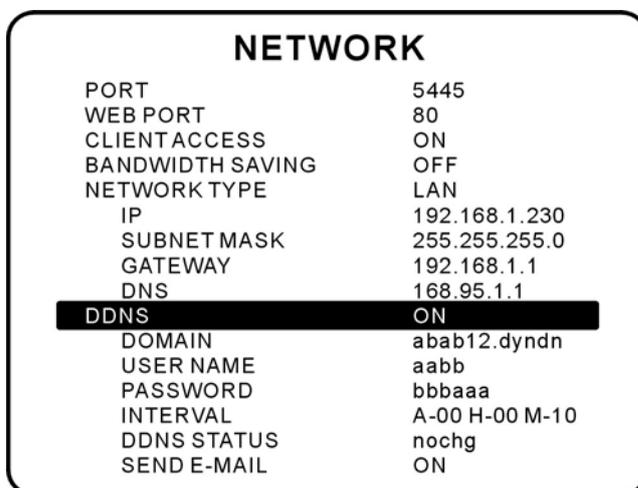


Menu Items in Security Setup Screen

Item	Description
ADMIN PASSWORD	Set a password for administrator. The password numbers can be input by using direction keys. The default password is 1111. Admin password works on all operations.
USER PASSWORD	Set a password for user. The password numbers can be input by using direction keys. The default password is 1111. User password works for Search only.
NETWORK PASSWORD	Set a password for network client. The password numbers can be input by using direction keys. The default password is 1111.

3-7. Setup – Network Mode

Network parameters can be input in this screen. These parameters are used for remote clients who connect to the DVR over the network.



Network Setup Screen

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Menu Items in Network Setup Screen

Item	Description
PORT	Video Port number (Default: 5445)
WEB PORT	IE Browser port number (Default:80)
CLIENT ACCESS	Enable/Disable remote access through client software.
BANDWIDTH SAVING	Enable/Disable only key frame transmission. "ON" mode is suitable for use of low network bandwidth. Set "OFF" for normal use.
NETWORK TYPE	Set the type of network connection. Options are: LAN, DHCP, ADSL Note. Other parts of the Network Setup screen change according to the network type you have selected.
DHCP	Set to use DHCP (If this is selected, DVR will obtain IP automatically varying from time to time from network.)
ADSL (PPPoE)	ID: Registered ID is necessary for ADSL connection. Password: Registered password is necessary for ADSL connection.
LAN	IP: Register IP address that is assigned for DVR. Gateway: Register Network Gateway Subnet Mask: Register Network Subnet Mask DNS Server IP: Register Network DNS Server IP.
DDNS	Enable/disable using domain name address through DYNDNS server. By choosing "ON" mode, DDNS server name appears for domain registration. The DDNS sever name is www.dyndns.com . Registration Please refer to "How to register DDNS"
SEND E-MAIL	DVR will send an Email to recipient if Event occurred or IP Change.

3-7-1. Ports

When connect one or more DVRs to a network through an IP sharing device, each device must have a unique TCP port number in order to access each unit from WAN. Also, a Port Forwarding must be configured in the IP sharing device (router) in order to access to the desire DVR.

Note: This port number is listed next to the Port menu option in the Network Setup screen. If you plan to access the DVR units within the LAN, the TCP port does not need to be changed.

Network access beyond Router

In order to access beyond Router (Firewall), user must open 2 TCP ports for Command level, Live channels, and Storage channels. If this port is not open properly, user will not be able to access DVR beyond a router. If DVR assigns port number with 5445 and WEB for 80, user must open 2 TCP ports of 5445 and 80.

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3-7-2. Network types

There are three network types. Each type requires different settings.

3-7-2-1. LAN

1. Please contact your network administrator if you need information to assign DVR with Static IP.
2. When DVR is installed in IP sharer that is connected with ADSL, a user can assign Static IP to DVR from IP sharer using "DMZ" function

3-7-2-1. DHCP

An IP address is automatically assigned by the DHCP server, which automatically assigns IP address and other parameters to new devices.

3-7-2-1. ADSL (PPPOE)

Use this ADSL (PPPoE) function when the network type connecting DVR is using PPPoE method.

3-7-3. SEND E-MAIL

IP Notification: DVR will send an Email notification to recipient automatically if IP changes.

EVENT ALARM: DVR will send an Email notification to recipient automatically if event detected.

MAIL ADDRESS: Recipient Email address

MAIL SERVER name: Recipient Email server address

ID: Recipient Email login ID

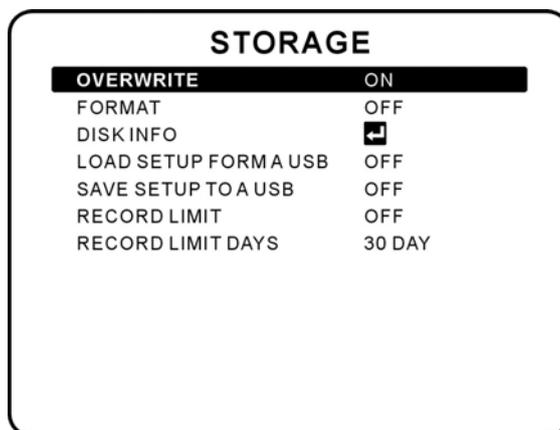
PASSWORD: Recipient Email login password

RETURN MAIL ADDRESS: Sender Email address

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3-8. Setup - Storage Mode

User can set recording mode or initiate format of the hard disk driver.



Storage Setup Screen

Item	Description
OVERWRITE	Overwrite existing data when hard disk drive is full.
FORMAT	Format hard disk drive.
DISK INFO	Information such as capacity, usage, recording times, and others of all HDD installed in DVR.
SAVE SETUP TO A USB	User can save the current configuration of DVR to the USB memory stick by simply insert the USB stick on the front panel and press <ENTER> / <SEL> to start the saving process
LOAD SETUP FROM A USB	User can upload the configuration of DVR to another DVR using the USB Memory stick by simply insert the USB stick on the front panel and press <ENTER> / <SEL> to start the loading process. After upgrade is completed, DVR will reboot automatically and setup value will be applied.
RECORDING LIMIT	Enable/disable recording limit days for the video data into the hard disk drive.
RECORDING LIMIT DAYS	Set the recording limit days for the video data into the hard disk drive from 2 to 90 days.

3-9. Save Setup

To apply the changed setup values, select the SAVE SETUP menu and select CONFIRM.

NOTE: DVR WILL REBOOT AUTOMATICALLY WHEN USER MODIFIES:

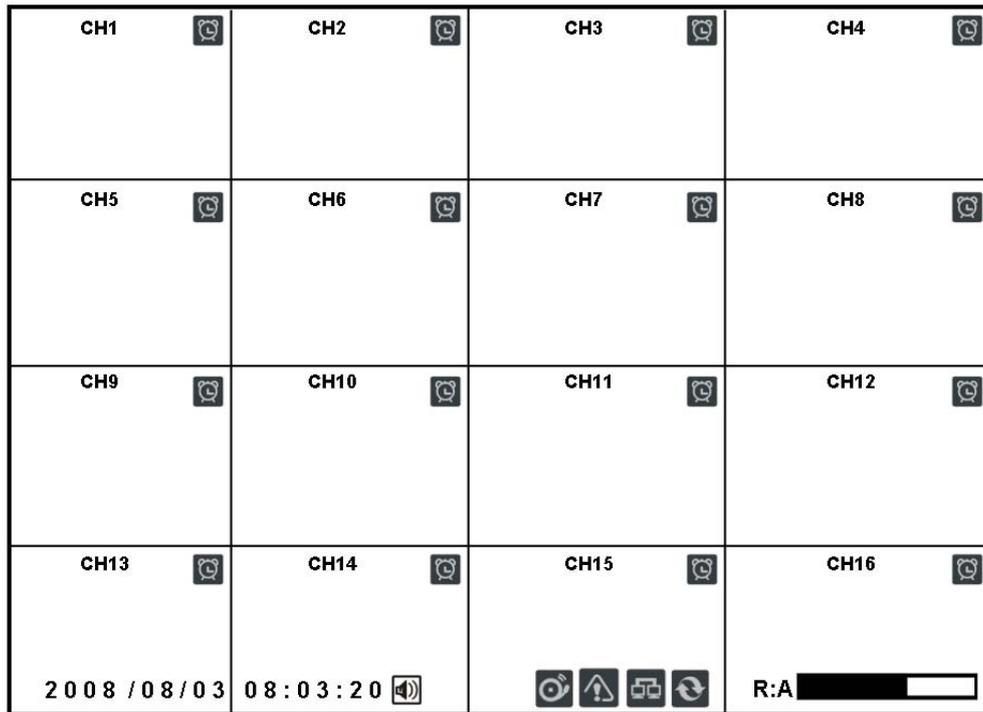
- | | |
|------------------------------|---------------------------|
| 1. NETWORK IP ADDRESS | 2. TIME & DATE |
| 3. FORMAT HDD | 4. LOAD DEFAULT |

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4. Live & Search

4-1. Live Window

In the Live window, video inputs from the cameras are displayed on the configuration of the live setup. Various indicators showing the status of the DVR are shown as OSD symbols. Refer to Table 4.1.1 for further explanation of these indicators.



Live Window

Indicator Icons in Live Window

Icon	Description
	Continuous recording in progress
	Manual recording in progress
	Motion recording is triggered
	Sensor recording is triggered
	Indicates the HDD is overwriting

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	ON /OFF Audio function
	Indicates alarm output is activated.
	Event indicator. When there is an alarm (sensor alarm or motion alarm) in the video channel, this icon will be highlighted in bright red.
	Indicates a network client is connecting to the DVR.
	Indicates sequencing mode is enabled.
	Indicates the percentage of recorded data into HDD
R:A	Remote controller's ID. User can define ID number in SETUP → system → remote controller ID. User can use remote controller's ID button to switch ID number.(Default ID is 00)

4-2. Search Window

Press <SEARCH> button in live mode to enter the Search screen, followed by a password. Use arrow buttons or remote controller to enter the password.



Search Window

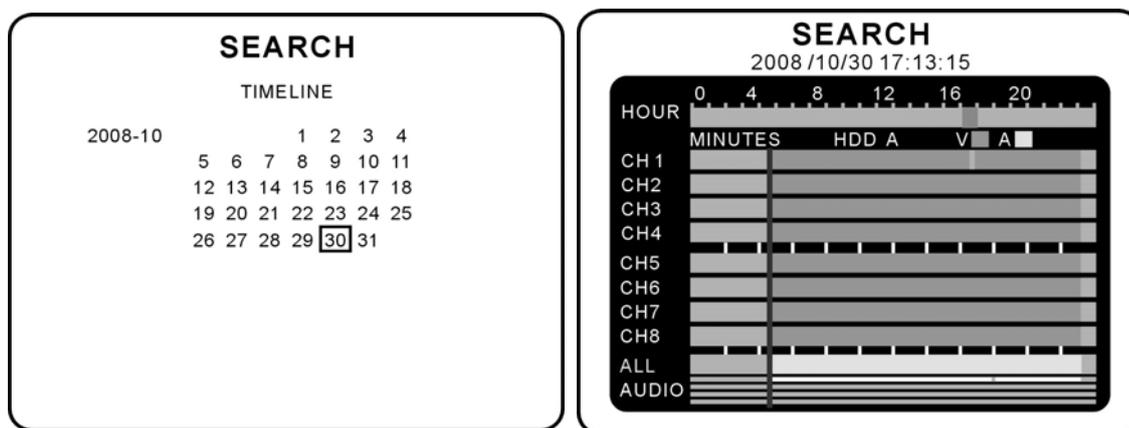
4-2-1.TIME LINE Search

The TIME-LINE search window is used to find the stored video by using the time line bar.

1. Select the date of the video to begin searching by using <LEFT>, <RIGHT>, <UP> and <DOWN> buttons to navigate through the days.
2. Once you have selected the date, press <ENTER> button to move to the time line search window.
3. Use <LEFT> / <F> / <ADV> or <RIGHT>/ <F> / <REW> buttons to select a time zone in the 24 hours time table.

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- Once you have selected the time zone, press <ENTER> button to move to the 60 minutes time table.
- Select All or a specific channel to search by using <UP> and <DOWN> arrow buttons.
- Once you select the channel, use the <LEFT> / <F> / <ADV> or <RIGHT> / <F> / <REW> arrow buttons to move the time line select bar (blue) to the point you wish to start playing the video clip.
- Press <ENTER> button to playback the recorded video.



Time Line Search Screen

V:(Blue) Indicate video data in time bar
H:(Light Gray) Indicate audio data in audio bar

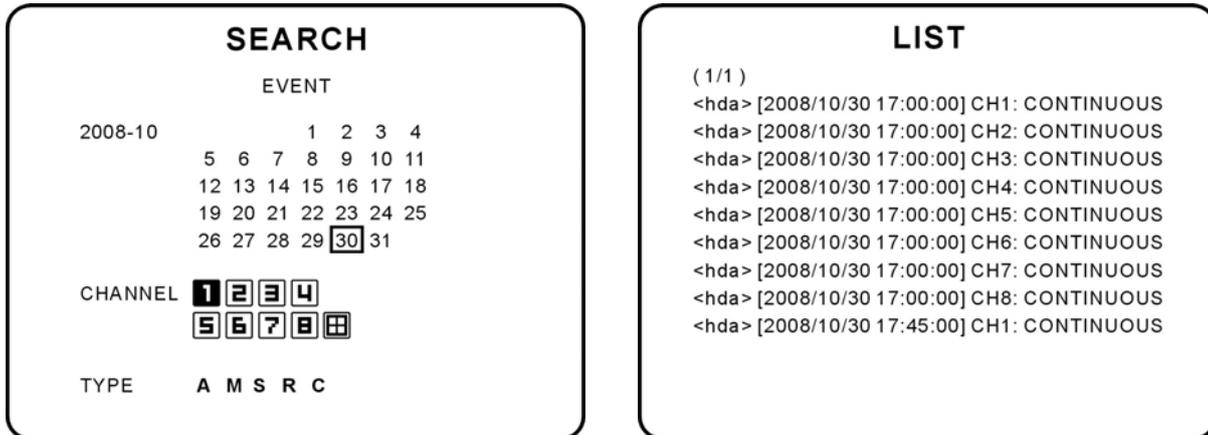
4-2-2. EVENT Search

The Event Search window is used to find stored video. Three categories of search filters can be applied: DATE, CHANNEL and TYPE. Press <ENTER> to select a value and move down to the next category and use <UP> arrow button to move up to the categories you have previously entered. The <ESC> button will return the user to the previous screen.

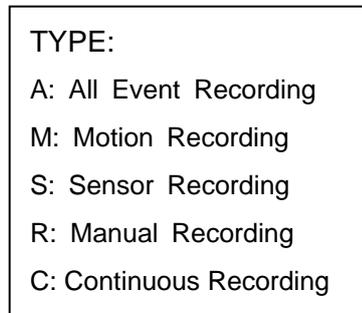
- Select the date of the video to begin searching. Use the <LEFT>, <RIGHT>, <UP>, and <DOWN> buttons to navigate through the days.
- Once you have selected the date, press <ENTER> to move to the CHANNEL selector.
- Use <LEFT> and <RIGHT> buttons to change the channel selection from ALL to any of the available channels.
- Once you have selected the channel, press <ENTER> to move to the TYPE selector.
- Use <LEFT> and <RIGHT> buttons to change the type of recording to ALL, MOTION, SENSOR, MANUAL, or CONTINUOUS.
- Once you have selected the type of recording to search for, press <ENTER> to show a list that meet your search criteria.
- Use <UP> and <DOWN> buttons to scroll through the on-screen listings.
- Use <LEFT> and <RIGHT> buttons to display a list of events that happened previous to or after the current selection.
- Once the desired event has been selected, press <ENTER> to start playing back the selected video.

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10. Press the CAPTURE (BACKUP) button to launch the archiving function in playback mode.

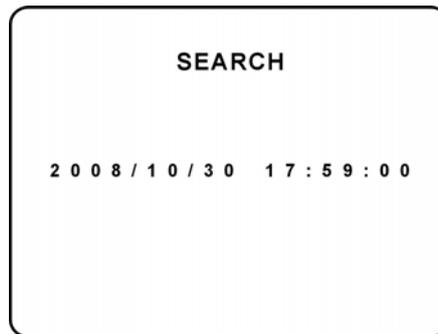


Event Search Screen



4-2-3. GO TO SPECIFIC TIME

You can search for specified data by setting the time and date in this menu. Use <LEFT> or <RIGHT> button to move from left to right in this menu. Use the <UP> or <DOWN> button to set the date and time.



GO TO Search Screen

4-2-4. GO TO FIRST TIME

You can access to the first data which has been recorded into the HDD disk by pressing this option.

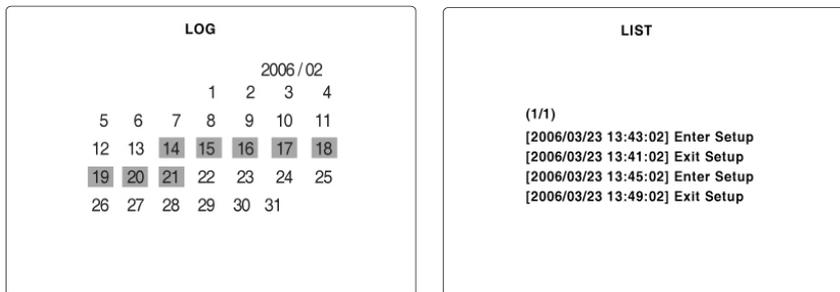
4-2-5. GO TO LAST TIME

You can access to the last data which has been recorded into the HDD disk by pressing this option.

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4-2-6. LOG

User can see the log list by selecting this menu.

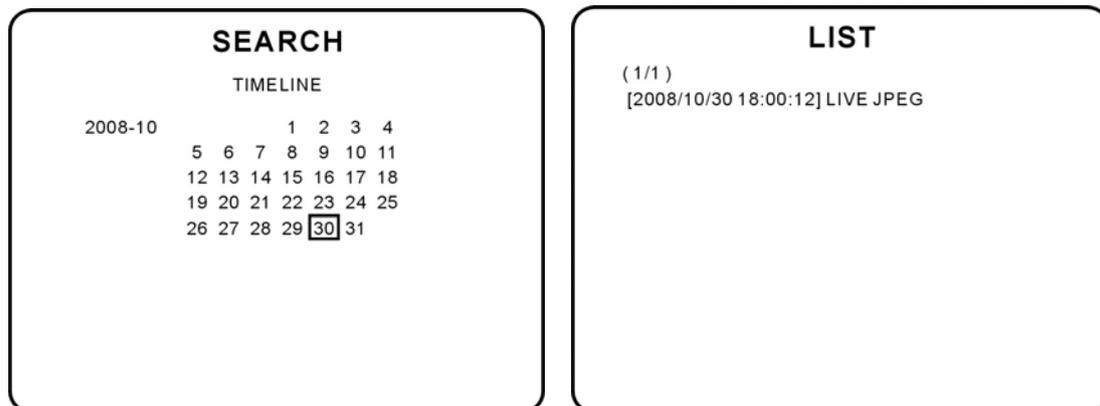


Log List Screen

4-2-7. ARCHIVE

The ARCHIVE SEARCH window is used to find the stored video.

1. Select the date on the calendar to begin searching by using <LEFT> or <RIGHT> button.
2. Once you have selected the date, press <ENTER> button to move to the list of recording data.
3. Use <UP> or <DOWN> button to scroll through the onscreen listings.
4. Press <ENTER> button to see the selected video in paused mode.
5. Press <ARCH> button to archive the video into USB memory stick.

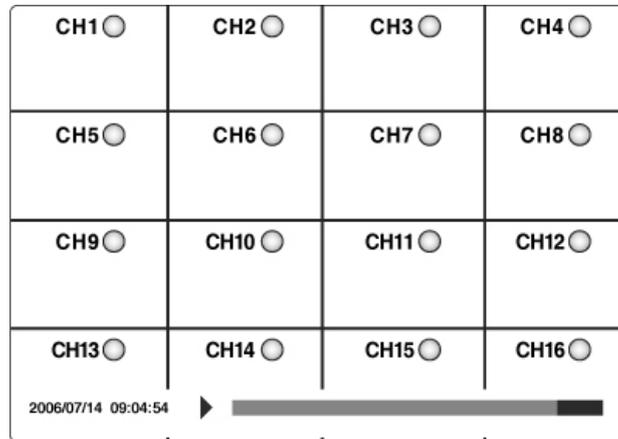


Archive Search Screen

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4-3. Play Mode

During the playback of a recorded event, the mode changes from SEARCH to PLAY. While in PLAY mode, you may return to SEARCH LIST by pressing the ESC button.



Button Functions in Play Mode

Button	Description
ESC	Return to the previous menu screen or exit from the setup menu
◀◀	Press to rewind the footage at 1x, 2x, 4x, and 8x speeds. Reverse playback speed is shown as -1x(normal), -2x (2 times normal), -4x (4 times normal), and -8x (8 times normal) at the bottom right of the screen.
▶▶	Press to fast forward the footage at 1x, 2x, 4x, and 8x speeds. Playback speed is indicated as +1x, +2x, +4x, and +8x for normal, twice, 4 times, and 8 times of the regular speed at the bottom right of the screen.
Search/▶/ 	Press to play or pause recorded video.
▶--	Jump/Step forward. Playback position moves 60 seconds forward.
--◀	Jump/Step backward. The playback position moves 60 seconds backward.
	Use to select channel 1 to 4 in full screen mode or change to quad display by <LEFT> or <RIGHT> button. The channel display in quad display mode is followed the setting in the setup menu.
ENTER	Switch between full screen and current display mode.

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5. Archiving and Backup

To backup a still image or video to a USB storage device, user must archive a still image or video to the hard drive.

5-1. Capturing Still Images or Video

5-1-1. Live Mode

Still images can be captured and archived onto the USB stick or hard drive in live mode or while playing back recorded video.

In live mode, press <BACKUP> button to launch the archive function.

1. When you press <BACKUP> button, the archiving screen will display as follow
2. Select a media to backup.
3. DVR will start archive the data to the selected media.



Still Image Archiving and Backup Screen

5-1-2. Playback Mode

Video can be captured and archived onto the USB stick or USB hard drive while playing back recorded video.

In playback mode, press the CAPTURE (BACKUP) button to launch the archiving function.

1. Select either Still Image or Video clip to archive.
2. Select media and duration to archive



Video Archiving and Backup Screen

The DVR will convert the corresponding portion of the video into an AVI file.

Note:

1. ONLY ONE CAMERA CAN BE BACKUP AT A TIME.
2. PLEASE USE DIRECTIONAL BUTTON TO SELECT SINGLE CHANNEL.
3. DVR WILL STOP RECORDING DURING BACKUP

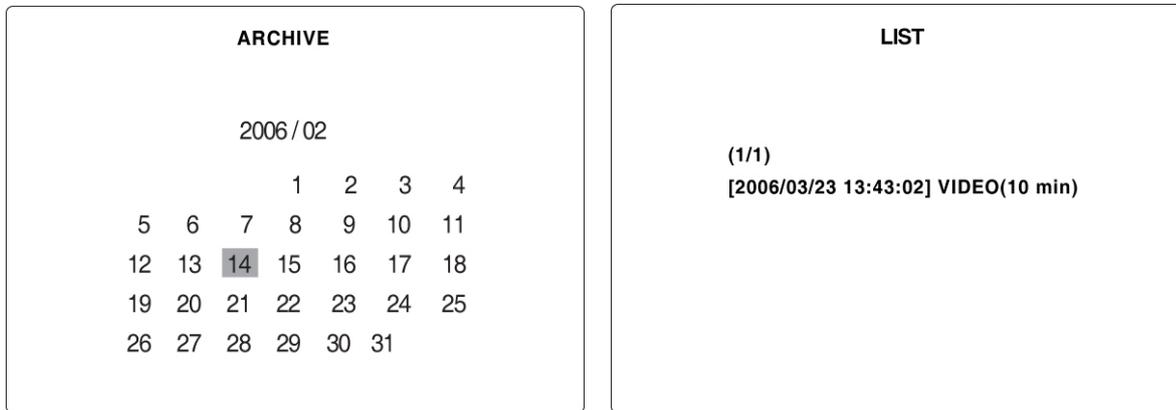
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5-2. Backup Still Images or Video from Archive List

The stored data onto hard drive will be found in the ARCHIVE list in SEARCH menu.

User can back up still images or video into the storage device from the ARCHIVE list.

1. Select the date to begin searching by using <LEFT>, <RIGHT>, <UP> and <DOWN> buttons to navigate through the days.
2. Press <ENTER> to open the list of stored data.
3. Use <UP> and <DOWN> buttons to scroll through the on-screen list.
4. Use <LEFT> and <RIGHT> buttons to display a list of stored events that happened previous to or after the current selection.
5. Once the desired event has been selected, press <ENTER> to view the still image or the first frame of the selected video.
6. Press <CAPTURE> (BACKUP) button to launch the archiving function in playback mode.



Archive Search Screen

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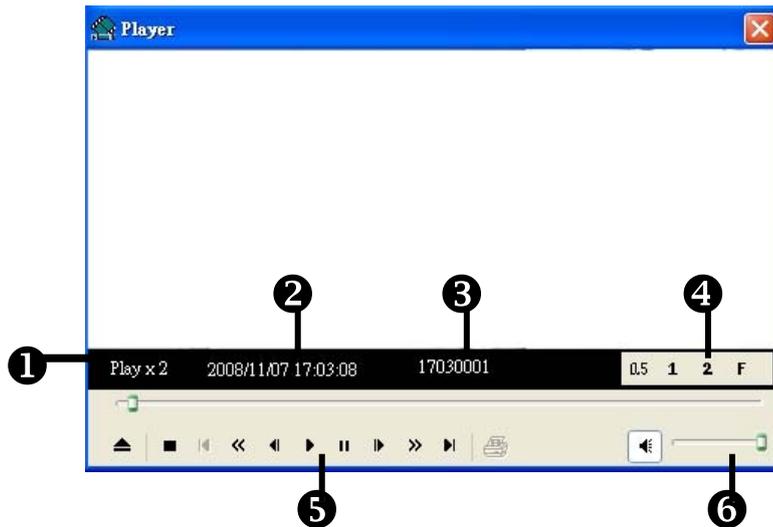
5-3. Backup Video Playback

5-3-1. Playback Backup Video in AVI Format

Please install the 'FFDSHOW' codec from DVR CD if the AVI file is unable to play correctly.

5-3-2. Playback Backup Video in Exclusive (NaFs) Format

Please use **VIEWER.EXE** player to playback this video format.



1. Show the playback speed. Click "►" to adjust playback speed
2. Playback Date / Time
3. Show current playback file
4. Switch the screen size (F:Full screen)
5. Control the playback speed
6. Adjust Audio volume

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6. Upgrading Firmware

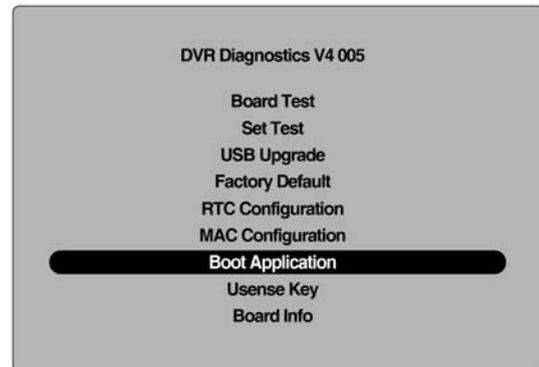
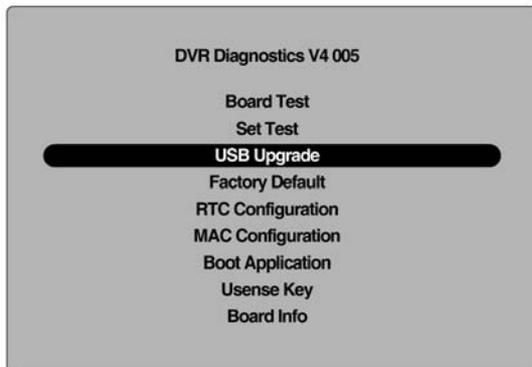
In order to upgrade, the firmware upgrade file must first be downloaded and copied into the USB memory stick. Create a new folder in the USB memory stick and name it “upgrade”. Copy the firmware upgrade file “app16xxxxx.bin” into the “upgrade” folder.

NOTICE

The folder on the USB memory stick must be named “**upgrade**”.

After the firmware upgrade is copied into the USB memory stick, connect the USB memory stick to the USB port on the front panel

1. Press <SETUP> button and enter the admin password.
2. Go to PASSWORD and select the ADMIN PASSWORD.
3. Enter the password as 12341234, and press <ENTER> button.
4. The engineering mode screen “DVR DIAGNOSTICS” will appear.
5. Select USB upgrade to start the upgrade process automatically.
6. After the upgrade is completed, select Boot Application to reboot DVR.



Engineering Mode Screen

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7. Network – Remote viewer

The DVR provides a live remote monitoring feature. Remote monitoring requires the installation of a client software program on your PC.

NOTICE

In a high bandwidth network, a maximum of four users can access one DVR simultaneously. In a low bandwidth network it is recommended that only one user access the DVR at a time.

For remote viewing, the frame rate is limited to 1 frame/sec when there is no recording operation in the DVR. When the DVR is recording, the video frame rate for remote live monitoring will follow the recording frame rate on the DVR.

7-1. Overview

The remote software supports remote live viewing, search, playback and system configurations.

By installing the Network Client Viewer on a Windows PC, you can monitor real-time and recorded images via optional Ethernet network.

7-2. Minimum PC Requirements

PC Specification	Minimum Requirement	Recommended
CPU	Intel Pentium III 500MHZ	Intel Pentium IV 2GHZ
Memory	128MB	512MB
VGA	16MB	64MB
Resolution	1024x768	1024x768
OS	Windows 2000	Windows 2000, XP,Vista
Network	10/100Base T	10/100Base T
Others	Direct X 8.1	Direct X 9.0 or Higher

Before installing the program, please check the PC specifications. The Network Client Viewer may not perform correctly if the PC does not meet the minimum requirements.

7-3. Program Installation

1. Insert the provided CD into the CD-ROM drive of your PC.
2. Follow the on-screen directions.



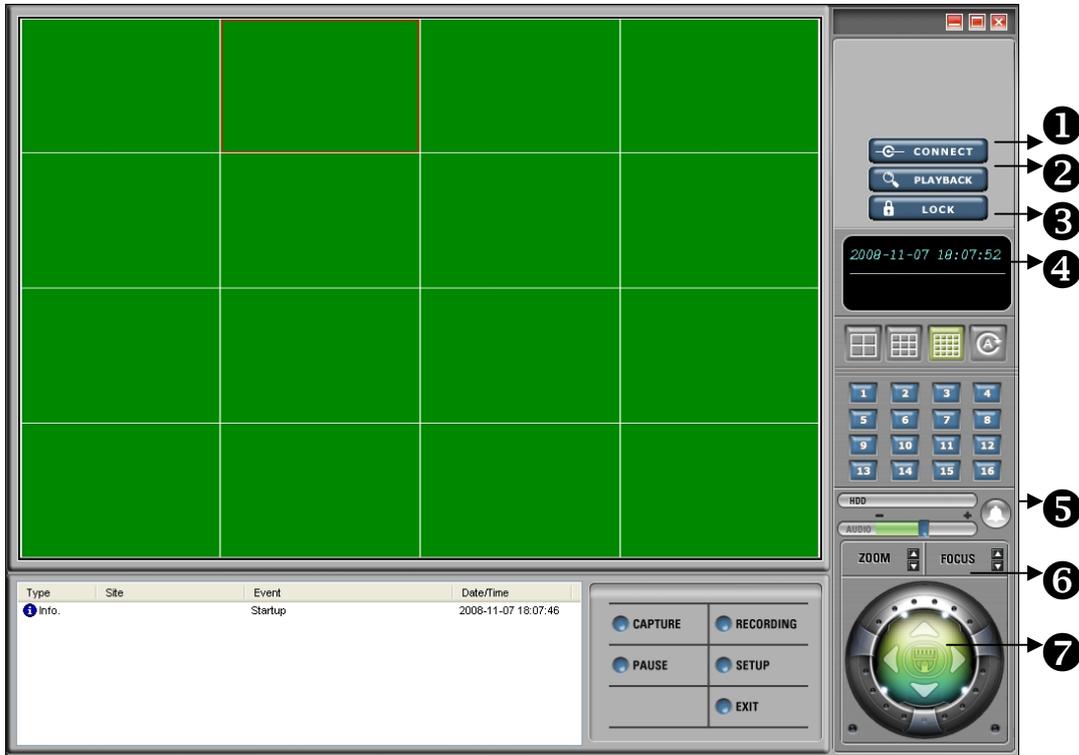
3. Double click the  icon to start the installation.

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7-4. Live Viewer



Double click the **MClient** icon on your desktop to launch the program.



Main User Interface

Main Controls in Live

NO	Button	Description
1	CONNECT	Connect to the DVR
2	PLAYBACK	Search and playback for recorded video.
3	LOCK/ UNLOCK	Lock/unlock all operations of the client software.
4	DATE & TIME	Displays the current date and time.
5	ALARM	The alarm output indicator lights up for 5 seconds if alarm output is activated on the DVR.
6	ZOOM/ FOCUS	Control the ZOOM/ FOCUS features on the remote PTZ camera.
7	PAN/TILT	Control the PAN/TILT features on the remote PTZ camera.

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CAPTURE

Capture a still image.

Once the capture icon is clicked, this pop-up window appears. The still image is captured in either jpeg or bmp file format.



PLAY/PAUSE

Play/pause live video.

RECORD

Enable or disable recording of live video to local disk.

SETUP

Setup configuration of client software.

EXIT

Exit the client software.

AUDIO

Use the volume control bar to set the audio level.

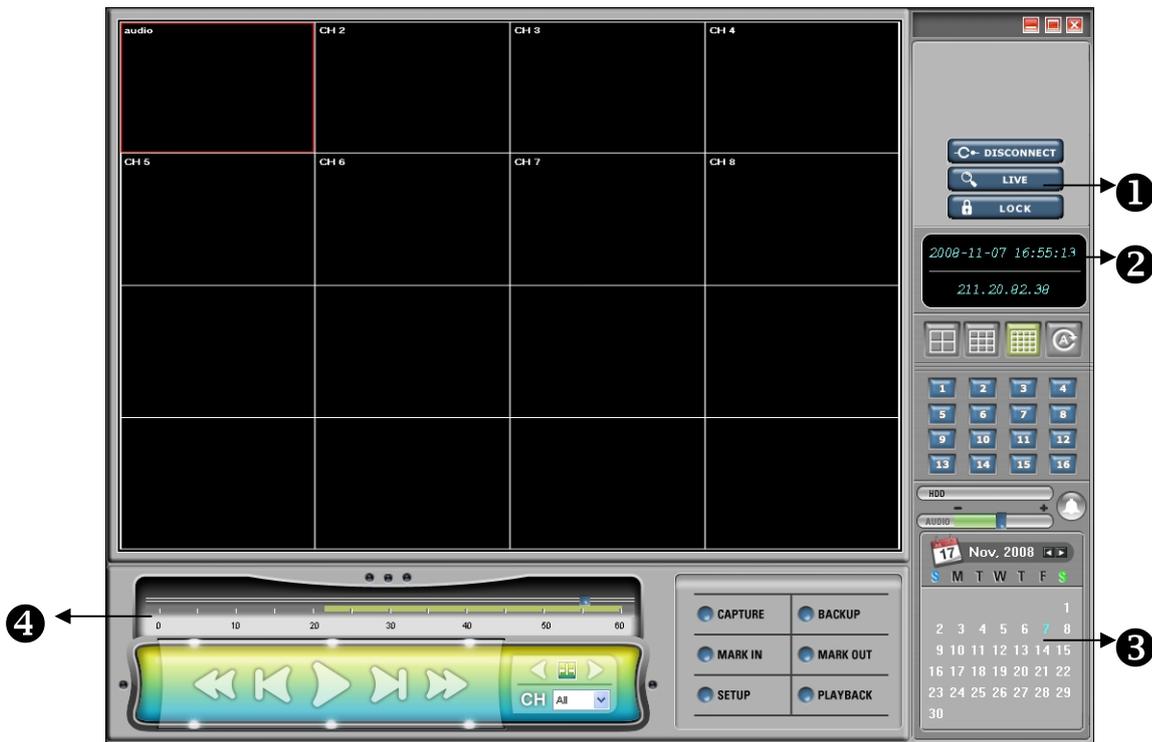
The audio can be turned on or off by clicking the audio icon.

HDD USAGE

DVR HDD storage Indicator.

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7-5. Search and Playback Viewer



Main User Interface

Main Controls in Search

No	Button	Description
1	LIVE	Live video.
2	DATE & TIME	Displays the recording time of the data selected on the time bar at the bottom of the main user interface.
3	SEARCH CALENDAR	The calendar shows dates with recorded video in a light blue and the selected date in dark blue.
4	TIMELINE BAR	The timeline shows recorded data in dark blue on the bar. Adjust the time-line scale to playback. Click the play icon to display the recorded video.
	CAPTURE	Capture a still image of recorded video.
	MARK IN	Set the video backup start time.
	MARK OUT	Set the video backup end time.
	BACKUP	Backup the selected recorded video in AVI format.

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7-5-1. Backup

Backup a recorded video in AVI format from the search viewer.

1. Click <MARK IN> button when the scale on the blue timeline is on the time you wish to the backup file to begin.
2. Set the ending time on the blue timeline by dragging the scale to the ending time for the backup file and clicking <MARK OUT> button. The color of the timeline between the beginning time and ending time will change to dark green.
3. Click <backup> button and a window will appear as below.



The start and end time can also be set on this window.

After selecting a channel for backup, click <OK> button and the backup process will begin.

7-6. PC System Configuration

Setup the remote software configuration

7-6-1. General

Once you click on the <SETUP> button, window below will appear. Select security options and set a password. When you access any of the selected functions, you will need to enter the password.

You can also set the save path for capturing and backup.

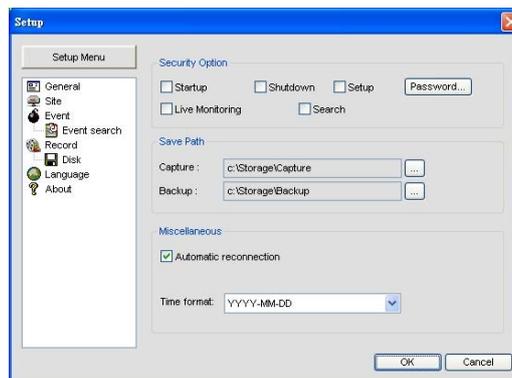
Security Option: Set a password for security options.

Save Path: Specify the location to record the receiving video for Backup and still image for Capture.

Automatic reconnection: Select to automatically reconnect to the previously connected IP address if the network connection is lost.

Display network statistics: Select to display network status, Bit rate and Frame rate.

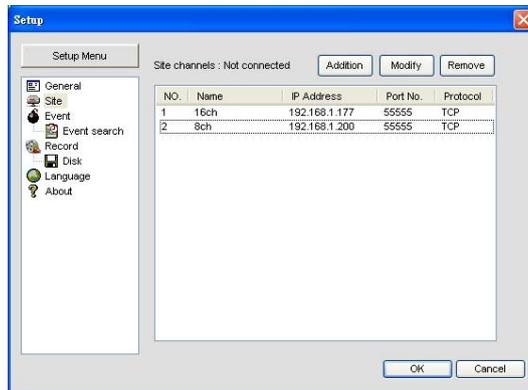
Time Format: Change the display time format.



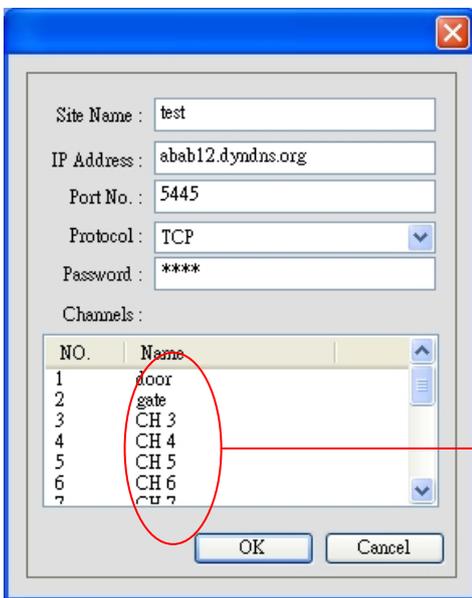
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7-6-2. Site

This option shows the channel information of the DVR and change the channel title.



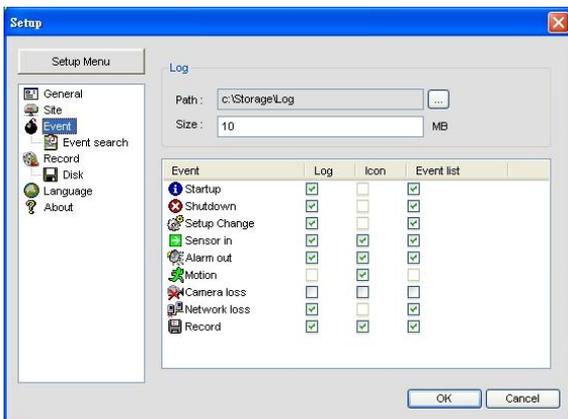
Click "Addition" to register a site



Double click "Name" to modify camera name

7-6-3. Event

You can set event items, the amount of local disk space and save path for the log file.



- 1.LOG – Select to save event log into 'log file'.
- 2.ICON – Select to display the event on live video.
- 3.EVENT LIST – Show the event in the 'Event List' in live mode.

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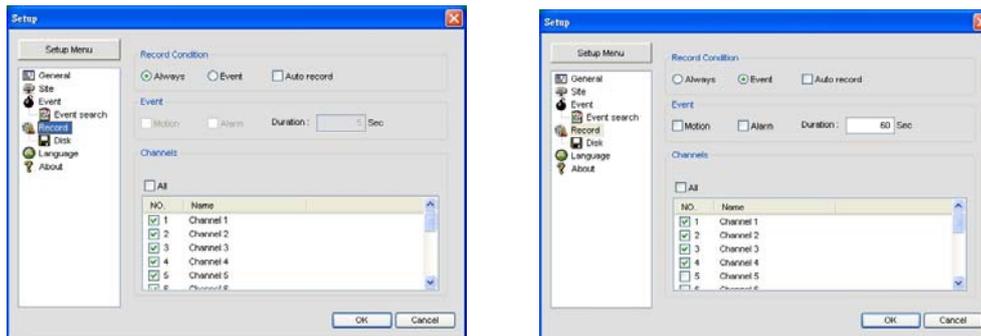
Search and check the recorded log data.



7-6-4. Record

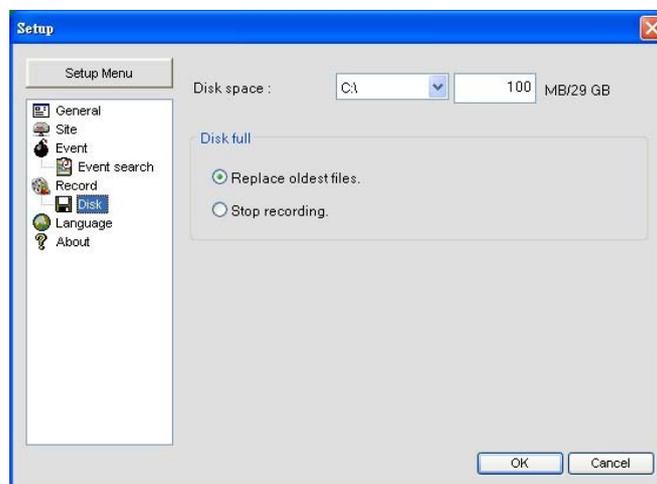
Set the recording method for Always, Event, or Auto recording. You can also select individual channels or all channels to record.

When an Event method is selected, you can set event for motion or alarm with duration. You can also set each or all channels to record.



7-6-5. Disk

You can select which local disk to use and the amount of disk space you want to allow the program to use for recording. You can also choose to overwrite data or stop recording when the maximum amount of disk space is full.



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8. Network – IE Browser Viewer

The DVR provides a live remote monitoring feature by web-browser viewer.

8-1. Download Web Brower Viewer and Connection

Type the DVR's IP on the IE address field and install ActiveX™ program.



After above, please click “Install ActiveX Control” item again to install the ActiveX object

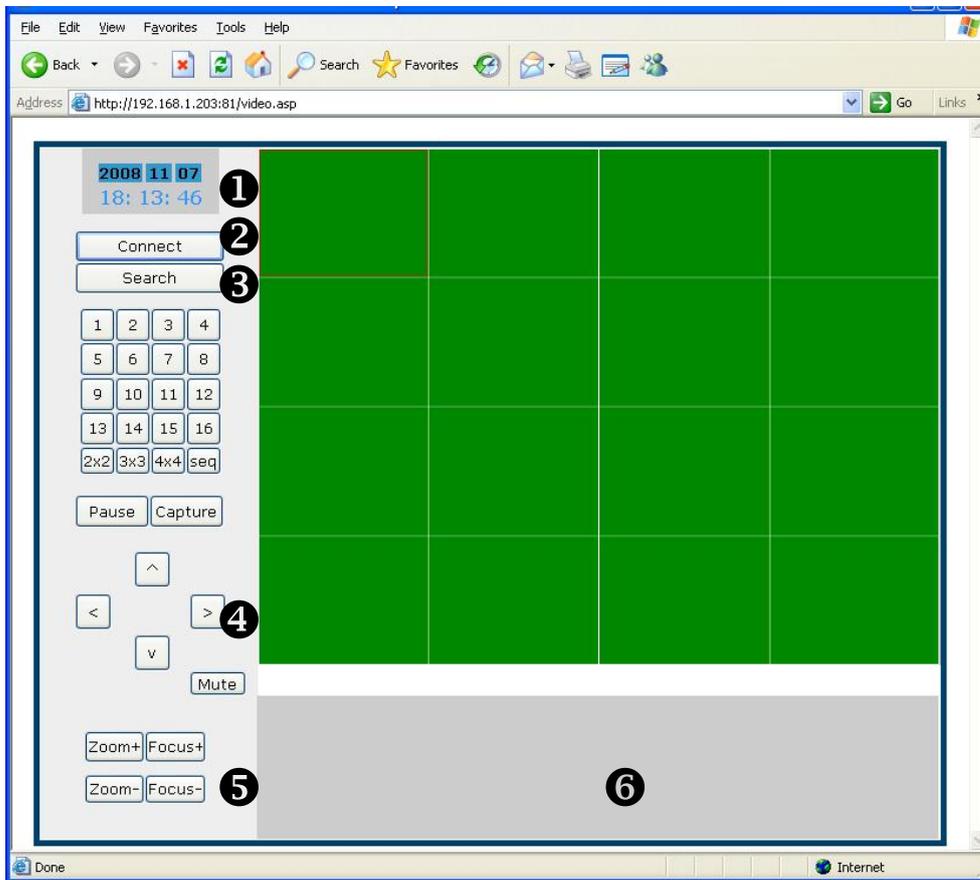
Please select to continue installation.



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8-2. Main Features

8-2-1. Live

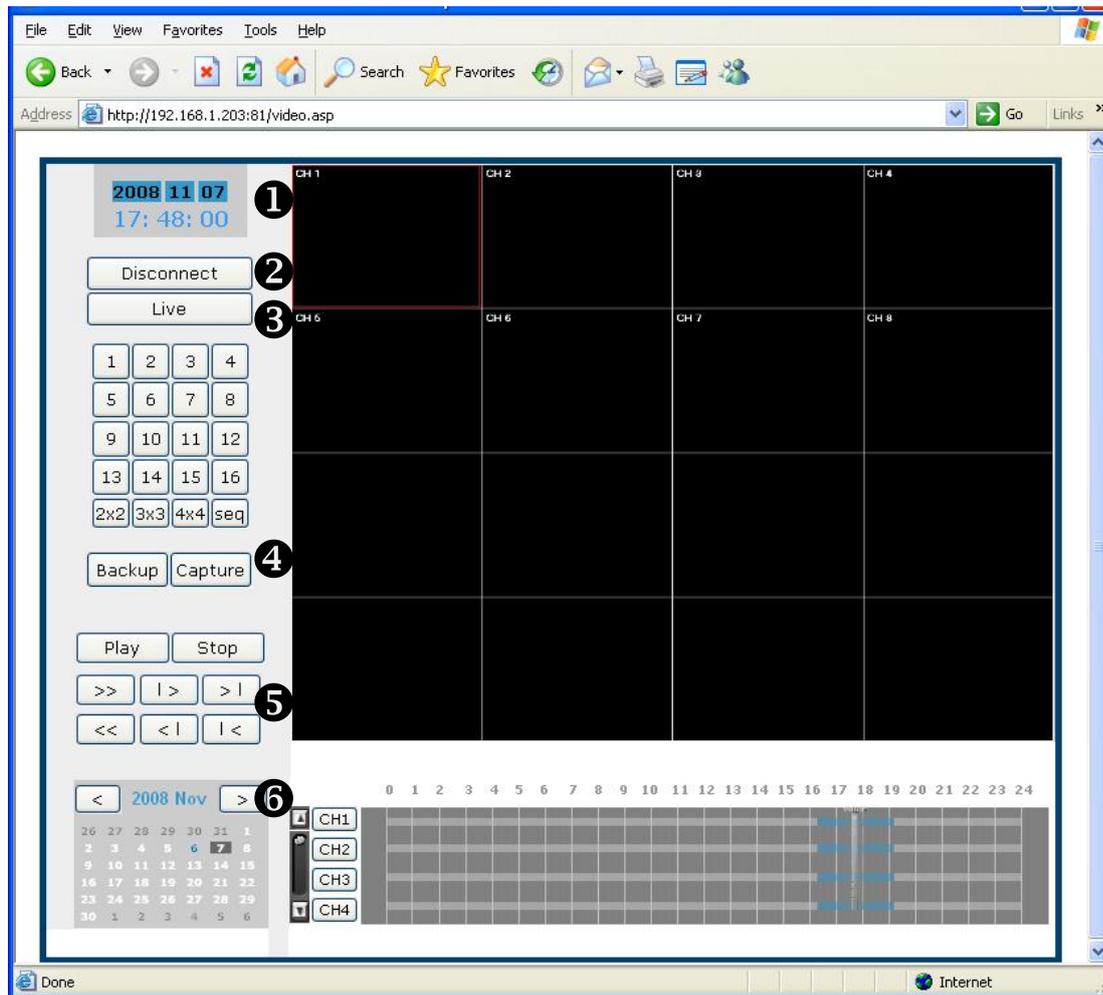


Main Controls in Live

No	Name	Description
1	DATE & TIME	Displays the current date and time.
2	CONNECT	Connect to the DVR
3	SEARCH	Search for recorded video.
4	PAN/TILT	Use these buttons to control the PAN/TILT features on the remote camera.
5	ZOOM/FOCUS	Use these buttons to control the ZOOM/ FOCUS features on the remote camera.
6	CONNECTION STATUS	Shows the client connection information.
	PAUSE	Pause the display screen.
	CAPTURE	Capture the image from live display.
	AUDIO	The audio can be turned on or off by clicking the audio icon.

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8-2-2. Search and Playback



Main Controls – Search & Playback

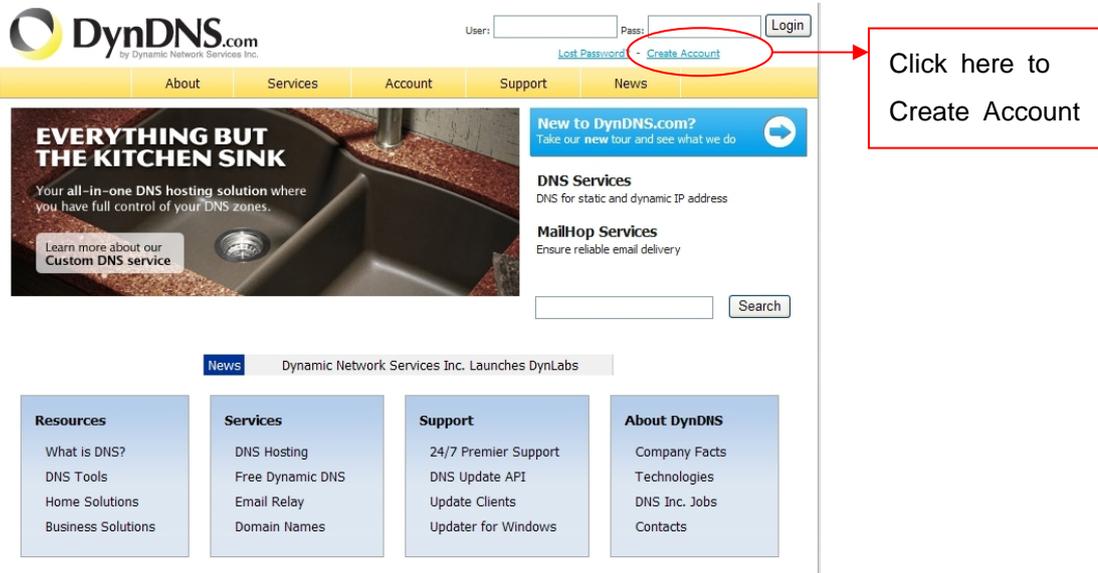
No	Name	Description
1	DATE & TIME	Displays the current date and time.
2	Connect/Disconnect	Connect / Disconnect to the DVR
3	LIVE	Switch to Live mode.
4	BACKUP / CAPTURE	Capture or backup the image from playback.
5	PLAYBACK BUTTONS	Control playback's image
6	SEARCH CALENDAR	Select the data and time for playback

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APPENDIX

1. Registering DDNS (Dynamic Domain Name Server) in DynDNS.com

A. Register your DDNS host in website (<http://www.dyndns.com>)



The screenshot shows the DynDNS.com website interface. At the top right, there are input fields for 'User:' and 'Pass:' with a 'Login' button. Below these are links for 'Lost Password' and 'Create Account'. The 'Create Account' link is circled in red, and a red arrow points from a red-bordered box containing the text 'Click here to Create Account' to this link. The website header includes a navigation menu with 'About', 'Services', 'Account', 'Support', and 'News'. A main banner features the headline 'EVERYTHING BUT THE KITCHEN SINK' and a sub-headline 'Your all-in-one DNS hosting solution where you have full control of your DNS zones.' Below the banner, there are sections for 'DNS Services' and 'MailHop Services'. A search bar is located below the services sections. At the bottom, there are four columns of links: 'Resources', 'Services', 'Support', and 'About DynDNS'.

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- About
- Services
- Account
- Support
- News

Create Your DynDNS Account

Please complete the form to create your free DynDNS Account.

User Information

Username:	<input type="text" value="dyntest"/>	
Email Address:	<input type="text" value="abc@ntic.com.tw"/>	Instructions to activate your account will be sent to the email address provided.
Confirm Email Address:	<input type="text" value="abc@ntic.com.tw"/>	
Password:	<input type="password" value="●●●"/>	Your password needs to be more than 5 characters and cannot be the same as your username. Do not choose a password that is a common word, or can otherwise be easily guessed.
Confirm Password:	<input type="password" value="●●●"/>	

Key in your user Name and password to log in your DynDNS

About You (optional)

Providing this information will help us to better understand our customers, and tailor future offerings more accurately to your needs. Thanks for your help!

How did you hear about us:	<input type="text" value="From a friend"/>	<small>We <u>do not sell</u> your account information to anyone, including your email address.</small>
Details:	<input type="text" value="friend"/>	

Terms of Service

Please read the acceptable use policy (AUP) and accept it prior to creating your account. Also acknowledge that you may only have one (1) free account, and that creation of multiple free accounts will result in the deletion of all of your accounts.

By Your use and continued use of www.dyndns.com (the "Website") and the services made available through the Website and/or under the DynDNS® brand (the "Services"), You agree to be bound by all of the terms and conditions of this acceptable use policy (the "AUP"), the terms of service agreement (the "TOS"), available at www.dyndns.com/legal/aup.html, and the Additional Policies (as defined in the TOS).

All Paid and Free Services (as defined in the TOS) provided by Dynamic Network Services, Inc. ("Dyn") are provided to You and the company/institution You represent (if any) ("You") pursuant to the terms of this AUP, the TOS, the Additional Policies and any other operating rules and policies set forth by Dyn.

Tick the checkbox

I agree to the AUP:	<input checked="" type="checkbox"/>
I will only create one (1) free account:	<input checked="" type="checkbox"/>

Mailing Lists (optional)

DynDNS maintains a number of mailing lists designed to keep our users informed about product announcements, client development, our company newsletter, and our system status. Please use the checkboxes below to alter your subscription preference. Your subscription preference may be changed at any time through the [account settings](#) page.

Mailing Lists (optional)

DynDNS maintains a number of mailing lists designed to keep our users informed about product announcements, client development, our company newsletter, and our system status. Please use the checkboxes below to alter your subscription preference. Your subscription preference may be changed at any time through the [account settings](#) page.

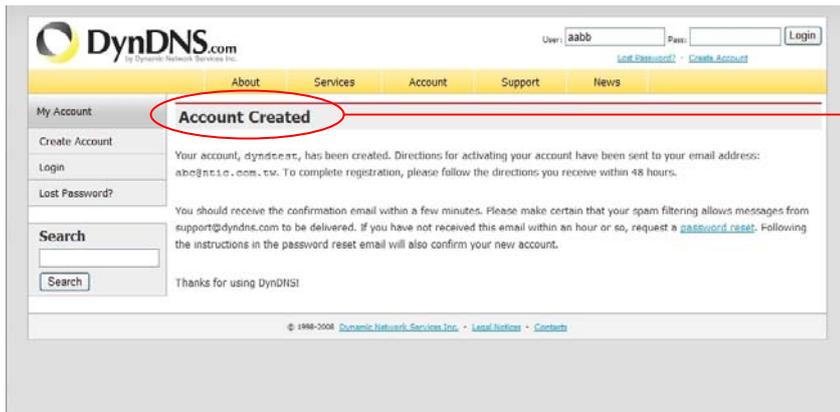
newsletters:	<input type="checkbox"/>
press-releases:	<input type="checkbox"/>
system-status:	<input type="checkbox"/>

Next Step

After you click "Create Account", we will create your account and send you an email to the address you provided. Please follow the instructions in that email to confirm your account. You will need to confirm your account within 48 hours or we will automatically delete your account. (This helps prevent unwanted robots on our systems)

Create Account

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You will see this confirmation page

B. Complete Registration:

Your DynDNS Account 'dyndtest' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:

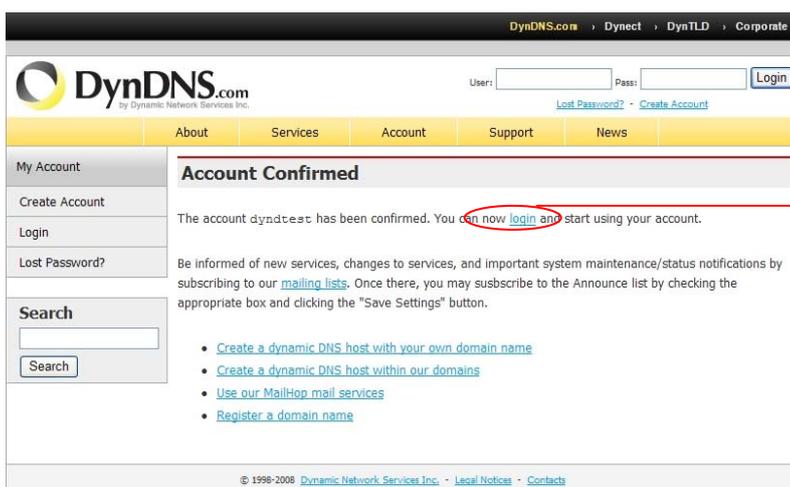
<https://www.dyndns.com/account/confirm/Spwn7yUgskorCZUS9qk6Vg>

Click this link to confirmation

Our basic service offerings are free, but they are supported by our paid services. See <http://www.dyndns.com/services/> for a full listing of all of our available services.

If you did not sign up for this account, this will be the only communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We apologize for any inconvenience this correspondence may have caused, and we assure you that it was only sent at the request of someone visiting our site requesting an account.

Sincerely,
The DynDNS Team
Dynamic Network Services Inc.



Click Login

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C. Add Host Name

Account Summary for dyndtest

My Services
View, modify, purchase, and delete your services.
[My Zones/Domains](#)
[Add Zone/Domains Services](#)
My Hosts
[Add Host Services](#)
[Spring Server™ - IP](#)
[Account Upgrades](#)
[MailHop Outbound](#)
[Network Monitoring](#)
[SSL Certificates](#)
[Recursive DNS](#)

Billing
Update your billing information, complete a purchase, and view invoices.
[View Shopping Cart](#)
[Active Services](#)
[Order History](#)
[Billing Profile and Vouchers](#)
[Renew Services](#)
[Auto Renew Settings](#)
[Sync Expirations](#)

Account Settings
Update your email address, set preferences, and delete your account.
[Change Email Address](#)
[Change Password](#)
[Change Username](#)
[Contact Manager](#)
[Mailing Lists](#)
[Move Services](#)
[Preferences](#)
[Close Account](#)

Click "Add Host Services" to add a HOST name

Add New Hostname

Note: You currently don't have Account Upgrades in your account. You cannot use some of our Host Service features. Buying an Account upgrade will make this form fully functional and will add several other features. [Learn More...](#)

Hostname: . **1**

Wildcard: Create wildcard alias for "*.host.domain.tid"

Service Type: Host with IP address
 WebHop Redirect
 Offline Hostname

IP Address:
[Use auto detected IP address 61.219.48.72](#) **2**
TTL value is 60 seconds. [Edit TTL](#)

Mail Routing: Yes, let me configure Email routing.

Create Host **3**

- 1) Key in your preferred name of your Hostname. Please note that it can be different from your DynDNS account User name. Recommended to use the 'dyndns.org' extension.
- 2) Click on the 'Use auto detected IP address XX.XX.XXX.XXX' and you will see your WAN IP appear in the column.
- 3) Click on the 'Create Host' button to proceed next step.

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The screenshot shows the DynDNS.com website interface. At the top, there is a navigation bar with links for About, Services, Account, Support, and News. The user is logged in as 'dyndtest'. The main content area is titled 'Host Services' and contains a message: 'Hostname dvrtest213.dyndns.org created.' This message is highlighted with a red oval. Below the message is a table with columns for Hostname, Service, Details, and Last Updated. The table contains one entry: 'dvrtest213.dyndns.org' with Service 'Host', IP '67.219.47.77', and Last Updated 'Nov. 05, 2008 6:41 AM'. A sidebar on the left lists various services like Account Upgrades, SLA, Premier Support, and Zone Level Services.

Your Hostname 'XXXXXX.dyndns.org' had been successful created

2. DDNS Settings

A. Go to SETUP>NETWORK.

The screenshot shows the 'NETWORK' configuration page. The settings are as follows:

Setting	Value
PORT	5445
WEB PORT	80
CLIENT ACCESS	ON
BANDWIDTH SAVING	OFF
NETWORK TYPE	LAN
IP	192.168.1.230
SUBNET MASK	255.255.255.0
GATEWAY	192.168.1.1
DNS	168.95.1.1
DDNS	ON
DOMAIN	abab12.dyndn
USER NAME	aabb
PASSWORD	bbbaaa
INTERVAL	A-00 H-00 M-10
DDNS STATUS	nochg
SEND E-MAIL	ON

B. Set DDNS as ON.

DOMAIN: Input domain name you register in dyndns web page(ex:abab12.dyndns.org)

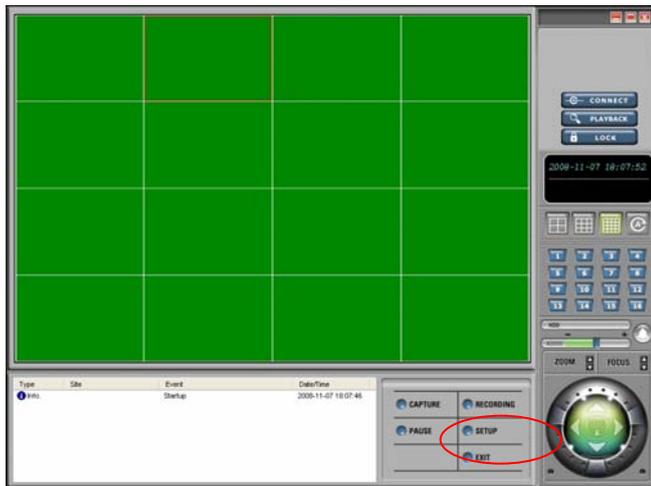
USER NAME/PASSWORD: Same as register in dyndns web page

INTERVAL: Every 10 minute will update ip address

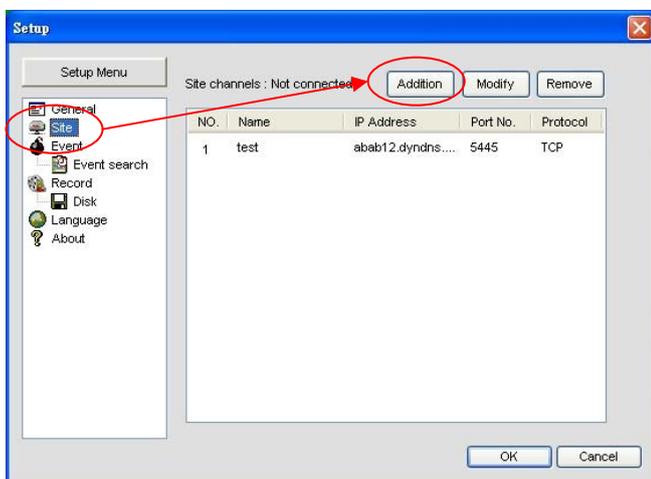
DDNS STATUS: show dyndns ip address status

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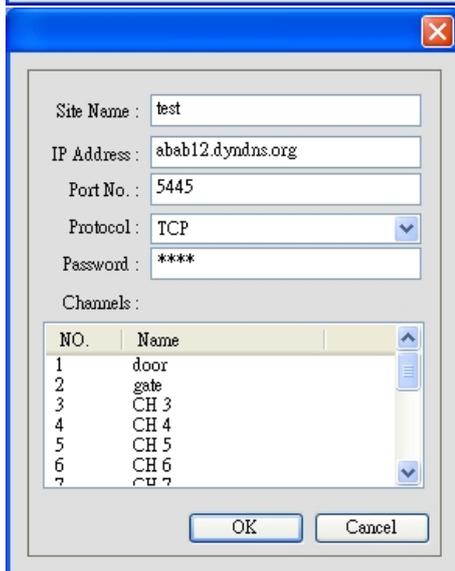
3.Connect with Remote Software or IE Browser



A.open remote software,then Click "SETUP"



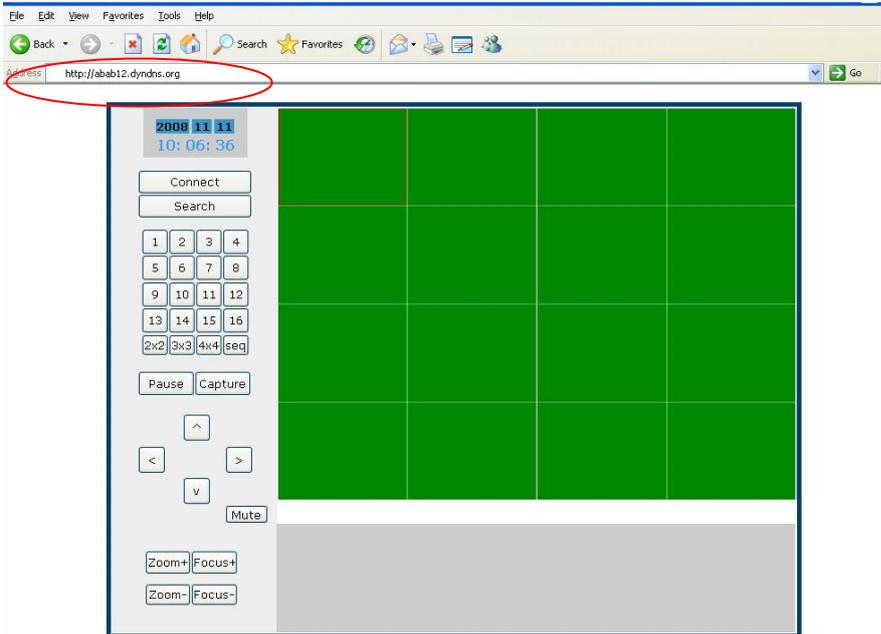
B. Click "Site" then select "Addition" to register a site



C. Enter the Port no, Protocol and Password in each filed.

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4. Input Domain Name in IE Address



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APPENDIX 2 HDD Compatible Table

	Model Name	Capacity	Buffer
HITACHI	HDS728080PLAT20	80 GB	2 M
	HDS721680PLAT80	80 GB	8 M
	HDT722516DLAT80	160 GB	8 M
	HDS722516DLAT80	160 GB	8 M
	HDT722525DLAT80	250 GB	8 M
	HDT725025VLAT80	250 GB	8 M
	HDS722525VLAT80	250 GB	8 M
	HDT725032VLAT80	320 GB	8 M
	HDP725050GLAT80	500 GB	8 M
	HDS725050KLAT80	500 GB	8 M
	HDP72505DGLA360	500GB	16M
	HDS721010KLA330	1TB	32MB
MAXTOR	6Y080L0	80 GB	2 M
	6B160P0	160 GB	2 M
	6Y200P0	250 GB	8 M
	6L300R0	300 GB	16 M
SAMSUNG	SP0822N	80 GB	2 M
	SP1604N	160 GB	2 M
	SP2514N/OMD	250 GB	8 M
	HD300LD	300 GB	8 M
WesternDigital	WD1600BB-22GUA0	160 GB	2 M
	WD2000BB-00GUA0	200 GB	8 M
	WD2500BB-00KEA0	250 GB	8 M
	WD2500JB	250 GB	8 M
	WD2500AAKS	250GB	16M
	WD10EACS	1TB	16M
Seagate	ST3800-12ACE	80 GB	2 M
	ST31200-25ACE	120 GB	2 M
	ST3160815AS(Barracuda)	160 GB	8 M
	ST3160815AV	160 GB	8 M
	ST3250820AV(Surveillance)	250 GB	8 M
	ST3250820ACE(Barracuda)	250 GB	8 M

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	ST3250410AS(Barracuda)	250 GB	16 M
	ST3300831ACE	300 GB	8 M
	ST3300820ACE	300 GB	8 M
	ST3300831ACE	300 GB	16 M
	ST3400832ACE	400 GB	8 M
	ST3400820ACE	400 GB	8 M
	ST3400620A	400 GB	16 M
	ST3500630AV(Surveillance)	500 GB	16 M
	ST3500630A	500 GB	16 M
	HDS725050KLAT80	500 GB	8 M
	ST3750840ACE	750 GB	8 M
	ST3750640A	750 GB	16 M
	ST31000340SV	1TB	32M