

Digital Video Surveillance System

This is a brief manual for quick and convenient reference.
Please refer to the User Manual contained in CD for details.

Quick Manual

Version : GUI-3
1st Edition : 7 May 2009

- ※ The picture might differ according to the specification and model.
- ※ Contents of this quick manual are protected under copyrights and computer program laws.

Thank you for purchasing !
Before operating the system, please read this User Manual thoroughly and retain it for future reference.

WARNING

TO REDUCE FIRE OR SHOCK HAZARD,
DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE.

The installation should be made by a qualified service person
and conformed to all local codes.

Cautions

Read Before System Operation

Follow these details to prevent material damage or personal injury.

Signs of Caution and Warning



Warning: This sign indicates that the user could die or be seriously wounded if not used or installed properly.



Caution: This sign indicates that the user could be wounded or could expect property damage if not used or installed properly.



Warning: Do not expose the product to fog, rain or too much humid to decrease danger from electric shock or fire.

General Warning



Warning

1. Use the power cord, which is supplied or recommended by the supplier, or it may cause fire.
2. Do not disassemble or reassemble the product.
It may cause malfunction or fire.
3. Enquire to your vendor for repair.
It may cause electric shock or fire if the repair is not done properly.
4. Do not touch the product with wet hands.
It may cause malfunction or electric shock.
5. Product installation must be ensured to a professional for product installation, or it may cause malfunction, electric shock or fire.
6. Ground applies to video products equipped with a 3-wire grounding type plug having a third (grounding) pin.
This plug only fits into a grounding-type power outlet.
If grounding is not done, it may cause malfunction or electric shock.
7. Ground connection must not touch gas pipe, water pipe or telephone line.
If grounding is not done properly, it may cause electric shock.
8. Prevent metallic foreign substance from going inside the product.
It may cause malfunction or electric shock.
9. Do not spray insecticide or flammable spray while driving.
It may cause fire.
10. Place the system in a open place where air ventilation is guaranteed, or it may cause over-heating and seriously damage the system to be fired.
11. Prevent water from instilling inside electrical parts.
Clean with a dry towel or malfunction or electric shock could result.



Caution

1. Use the power cord, which is supplied or recommended by the supplier.
The internal fan rotates at high speed and may cause an accident.
2. Do not drop, give strong vibration, or shock to the product.
It may cause malfunction.
3. The air inhaler of the front panel and air outlet of the back panel must not be blocked during installation.
The internal temperature of the product would be greater than allowable and could cause malfunction or fire.
4. Do not touch the product or the power cord when there is thunder.
It may cause electric shock.
5. Do not install the product near or on top of heating source.
The internal temperature of the product would be greater than allowable and could cause malfunction or fire.
6. Do not install the product on inclined or unstable location or where vibration could be committed.
It may cause malfunction.

Cautions about the Power



Warning

1. Must use the outlet of the grounding to connect the power cord, or it may cause fire.
2. Do not connect on the middle of power cord or use extension cord.
It may generate heat or cause fire.
3. Do not touch the power cord with wet hands.
It may cause electric shock.
4. Keep power cord dry and protect from humidity.
It may generate heat or cause fire. The power cord is not waterproof.
5. Hold the body of the plug while removing the power plug.
Do not pull the power cord. Damage to the power cord may generate heat or cause fire.
6. Check the power plug regularly.
Humidity and moderation in smoking may cause fire.
7. Remove power cord from outlet when product is not used for a long time.
It may cause short-circuit or electric shock.



Caution

1. Do not turn off the power by removal of the power plug.
To turn off the power, click the power button from the front panel.
When the system stops abnormally, the power button might not work. Click power button for 5 full seconds to turn power off.
2. Do not cut off the power artificially, or give shock or vibration to unit while the hard disk is activating.
It may cause hard disk failure or loss of data.



Remarks

- ※ Pictures and buttons are subject to be changed or modified up to different models.
- ※ Function or configuration is subject to be changed or modified without prior notice for improvement of the product.

Contents

1.	GETTING STARTED	1
1.1	CHECKING SUPPLIED ITEMS	1
1.2	CONNECTING PERIPHERAL DEVICE	1
1.3	SYSTEM STARTUP AND SHUTDOWN	2
2.	EXPLANATION FOR EACH FUNCTION	3
2.1	FRONT PANEL	3
2.2	REAR PANEL	4
2.3	IR REMOTE CONTROLLER	5
3.	OPERATION	6
3.1	USER LOG-IN	6
3.2	LIVE DISPLAY MODE	6
3.3	PTZ OPERATION	7
3.4	PLAYBACK RECORDING IMAGES	8
3.5	QUICK BACKUP DURING PLAYBACK	9
3.6	SEARCH RECORDING IMAGE	10
3.7	DST SETTING AND IMAGE PLAYBACK	12
4.	SETTING	13
4.1	SYSTEM	13
4.2	DEVICE	17
4.3	RECORD	20
4.4	NETWORK	27
4.5	BACKUP	31
4.6	QUICK SETUP	32
5.	WEB SURVEILLANCE	33
5.1	WEB LOGIN	33
5.2	WEB CONFIGURATION	34
5.3	WEB MONITORING	35
5.4	WEB PLAYBACK	36
6.	QUICK TROUBLE SHOOTING	37

1. Getting Started

1.1 Checking Supplied Items

Make sure that you have following items supplied with your DVR. If any of these items is missing or damaged, notify your vendor immediately. Keep the packing utilities for moving or storage purposes afterwards.

- ✓ Quick Manual : 1 Piece
- ✓ CD (Remote S/W & User Manual) : 1 Piece
- ✓ Rubber Mount : 1 Set (4 Pieces)
- ✓ 12V D/C Adaptor & Power Cable : 1 Set
- ✓ IR Remote Controller : 1 Piece
- ✓ Terminal Block : 1 Pair (2 Pieces)

1.2 Connecting Peripheral Device

Install the DVR on flat surface with good ventilation to prevent overheating.

[DVR with Compact Case (270 x 71 x 215 mm)]



[DVR with 1.5U Height (360 x 66 x 380 mm)]



Warning ! ※ Depending on the grounding, the BNC cable connecting to the camera has danger of electric shock. Shut down the system power completely and unplug the power cable before connecting BNC cable to BNC port of the system.
 ※ When connecting power cable to the system, it is strongly recommended firstly to plug power cable to the system and then the other side of power cable should be plugged to wall socket.

1.3 System Startup and Shutdown

1.3.1. System Startup



1. [LOG-IN] screen is shown as left after DVR is turned on.
Select the registered user
Default USER ID and PASSWORD are "admin" and "1234".
2. Click the keyboard icon to call virtual keypad.
Input password, and then click [ENTER] button.
3. Click [OK] to finish login process.

1.3.2. System Shutdown



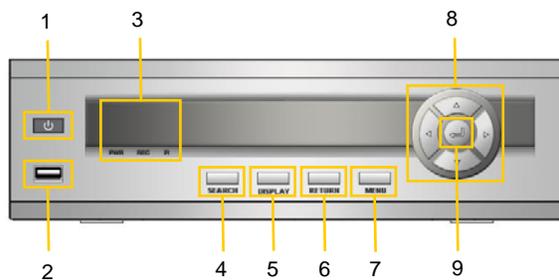
1. Move the mouse to the lower part of the screen to open the hidden tool bar and click [TOOL] icon.
2. Click [SHUTDOWN] menu and input password with the same procedure as login process to turn off DVR.

Caution It may take a few minutes to start working the system right after turning on in the case that user leaves the network configuration in DHCP and at the same time there is neither DHCP server in user's network, nor physical network connection.

2. Explanation for Each Function

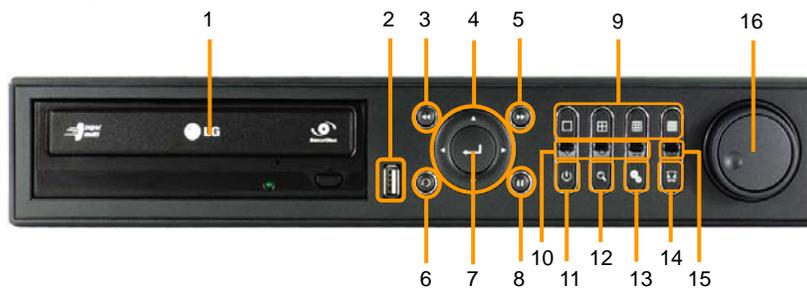
2.1 Front Panel

[DVR with Compact Case (270 x 71 x 215 mm)]



- 1. Power Button : Startup or shutdown
- 2. USB Port : Mouse or image backup
- 3. LED Indicator : Power/Record/Remote controller
- 4. E-Rec Button : Emergency recording
- 5. Search Button : Go to search mode
- 6. Display Button : Change screen mode
- 7. Menu/Return Button
Open system menu or return to previous mode
- 8. Direction Button : Move to desired menu
- 9. Enter Button : Select value or setting

[DVR with 1.5U Height (360 x 66 x 380mm)]

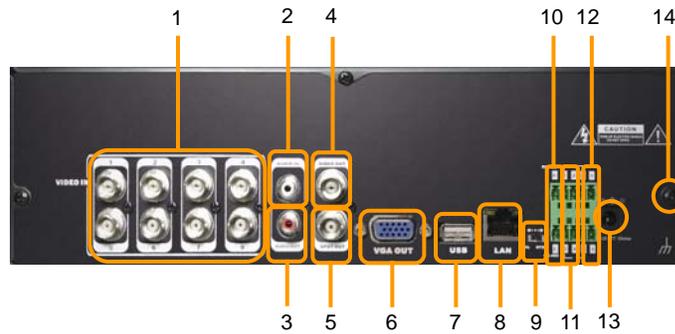


- 1. DVD Burner : Image backup
- 2. USB Port : Mouse or image backup
- 3. Fast Rewind
- 4. Direction Button : Move to desired menu
- 5. Fast Forward
- 6. Return Button : Return to previous mode
- 7. Enter Button : Select value or setting
- 8. Play/Pause Button : Image playback or pause
- 9. Display Button : Change screen mode
- 10. LED Indicator : Power/Record/Network
- 11. Power Button : Startup or shutdown
- 12. Search Button : Go to search mode
- 13. Menu Button : Open system menu
- 14. PTZ Button : Control camera PTZ
- 15. IR Sensor Window : Sensor input for IR controller
- 16. Jog/Shuttle Knob : Image playback in various speed

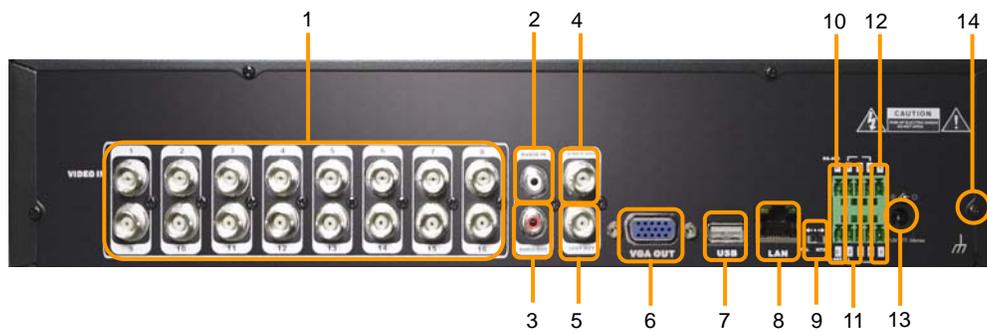
Note Front Panel may differ depending on the model.

2.2 Rear Panel

[DVR with Compact Case (270 x 71 x 215 mm)]



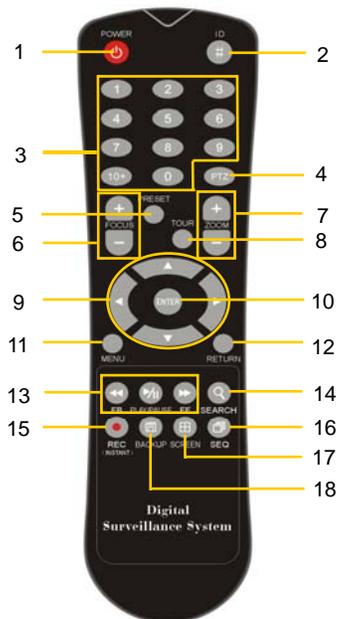
[DVR with 1.5U Height (360 x 66 x 380mm)]



- | | | | |
|--------------|-------------------------------|------------------------|---------------------------------|
| 1. Video-In | : Connect camera | 8. LAN Port | : Connect 10/100 Ethernet cable |
| 2. Audio-In | : Connect the audio input | 9. NTSC/PAL Selection | : Select video signal type |
| 3. Audio-Out | : Connect the audio output | 10. RS-485 Port | : PTZ camera or Keyboard |
| 4. Video-Out | : Connect the CCTV monitor | 11. Sensor Input | : Connect the external sensor |
| 5. Spot-Out | : Connect the spot monitor | 12. Alarm Output | : Connect the external alarm |
| 6. VGA-Out | : Connect the PC(VGA) monitor | 13. Power Input | : Connect the adaptor |
| 7. USB Port | : Mouse or image backup | 14. Grounding Terminal | : For grounding |

2.3 IR Remote Controller

The function buttons of the IR Remote Controller are as below.



1. Power Button
2. ID Selection Button
3. Numeric Button
4. PTZ Button
5. Preset Button on PTZ Mode
6. Focus Button on PTZ Mode
7. Zoom Button on PTZ Mode
8. Preset Tour Button on PTZ Mode
9. Direction Button
10. Enter (Selection) Button
11. Menu Button
12. Return Button
13. Playback Button on Search Mode
14. Search Button
15. Instant (Emergency) Recording Button
16. Auto-Sequence Button on Live Display Mode
17. Screen Mode Button
18. Backup Button

2.3.1. How to set ID of IR Remote Controller



[Setting on DVR]

Go to [MENU] ► [SYSTEM] ► [SYSTEM INFO].
Set the wanted number at [Remote ID].

[Setting on IR Remote Controller]

Press [ID] button for about 5seconds, and press numeric button as three-digit number.

For example,

(*) In case the Remote ID of DVR is 2, press 002.

(*) In case the Remote ID of DVR is 23, press 023.

Note IR remote Controller may differ depending on the model.

3. Operation

3.1 User Log-in



1. Move the mouse to the lower part of the screen to open the hidden tool bar and click [TOOL] icon.
2. Click [USER] menu to open Log-In screen.
3. Change ID and input Password.

3.2 Live Display Mode

3.2.1. Channel Selection



[Selection on TOOL Bar]

Open the hidden tool bar on the lower part of the screen and select screen mode icon to be displayed.

[Selection on Pop-up Menu]

Open pop-up menu and click [DISPLAY].
Select display mode.

3.2.2. Icons

[Icons on each channel screen]

	: Continuous Recording
	: Motion Detection Recording
	: Sensor Activating Recording
	: Continuous + Motion Recording
	: Continuous + Sensor Recording
	: Motion + Sensor Recording
	: Emergency Recording
	: Sensor Activated
	: Motion Detected
	: Audio Channel
	: PTZ Camera

[Icons on full screen]

	: No HDD, Smart Alarm & HDD Failure
	: Using Emergency Recording
	: Using PTZ
	: Warning for exceeding temperature
	: Showing sequence mode
	: Showing digital zoom mode

[Icons on the TOOL bar]



: Instant(Emergency) recording start & stop to record current live images with maximum frame rate.



: PTZ mode to control PTZ camera



: Go the Playback mode.



: Fixing tool bar to always open it or disable fixing.



: Indicates HDD usage percentage by video recording.

3.2.3. Pop-up Menu

Click the right button of the mouse to open Pop-up menu.



[DISPLAY]

Display screen mode selection.

[SEQUENCE]

Sequentially change of the display screen.

[ZOOM]

Zoom-in and Zoom-out control of a selected channel.

[SEARCH]

Search recording image.

[PTZ]

Control PTZ camera of a selected channel.

[MENU]

Open Menu screen to setting DVR.

3.3 PTZ Operation

3.3.1. Go to PTZ Control Mode



1. Select a channel that is connected to PTZ camera.

2. Get into the PTZ control mode.

[Pop-up Menu]

- 1) Click the right button of the mouse to open pop-up menu.
- 2) Select [PTZ]

[TOOL Bar]

Click joystick icon  on the TOOL bar.

3.3.2. PTZ Control



[Direction Control]

Drag the mouse pointer to up/down or left/rightward to move camera position on pressing the left button of the mouse.

[Speed Control]

As the mouse pointer moves long away from the center, camera moves faster.

Click the right button of the mouse to open Pop-up menu of PTZ Control.



[ZOOM]

Click [ZOOM] and control Zoom-in/out with mouse wheel.

[FOCUS]

Click [FOCUS] and control Focus-in/out with mouse wheel.

[PRESET]

- 1) Click [PRESET] and then numeric pad will pop up.
 - 2) Input a desired Preset number and click [ENTER].
 - 3) Then, the camera will move to the preset position.
- (* Preset position should be set before use.

[GUARD TOUR]

Click [GUARD TOUR] to switch camera position, automatically, as per sequence setting of preset.

(* Guard Tour should be set before use.

Caution Depending on PTZ camera, some preset positions might be skipped in the case that the PTZ camera cannot mechanically move or control focus within the interval time set by DVR. In this case, it is recommended to make setting of interval time a little longer.

3.4 Playback Recording Images

3.4.1. Go to Playback Mode



1. Click  button on TOOL bar or push [PLAY] button on the front panel or IR Remote Controller to go to Playback mode.

2. When it goes to Playback mode, the latest video clip will be played.

3.4.2. Playback Control



[Playback Direction]

Playback direction(forward & backward) can be controlled by mouse or control button of the front panel/IR Remote Controller clicking as well as Jog Shuttle control.

[Playback Speed]

Playback speed can be control 2, 4, 8, 16 & 32 times by clicking fast-forward/fast-rewind button repeatedly or Jog/Shuttle.

[Time Bar Search]

Move the white vertical line on the time bar with mouse to search image.

3.5 Quick Backup during Playback



Quick backup while the video is being played is available.

1. Click [ENTER] button on the front panel at the “start” time.
2. Click [ENTER] button again at the “end” time.
3. Then the backup menu screen will pop up.



4. Set details, such as backup device, and click [BACKUP] button to start backup.

3.6 Search Recording Image

Click the right button of the mouse to open pop-up menu or open menu on TOOL bar. And then, go to search menu. Or push [SEARCH] button on the front panel to open search menu.



3.6.1. Calendar Search



1. Select date in the calendar.
2. Select time with the white vertical bar on the time bar below.
3. Click [OK] to start playback.

3.6.2. Date/Time Search



1. Select date and time to search data.
2. Click [OK] to start playback.

3.6.3. Event Log



1. Select date to search log.
2. Select log type to search.
(Sensor / Motion / Video Loss / HDD Full)
3. Log list will be shown.

3.6.4. System Log



1. Select date to search log.
2. Select log type to search.
(System / Setup / Network)
3. Log list will be shown.

3.6.5. First Data

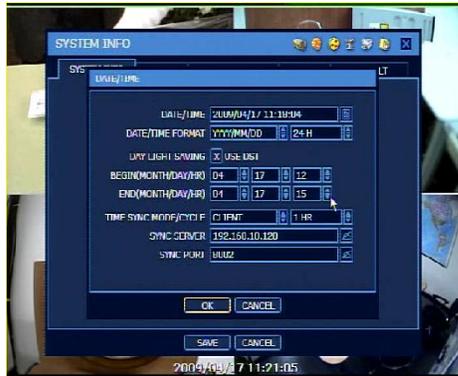
Go to the first screen of the recorded image. This is the oldest image recorded.

3.6.6. Last Data

Go to the last screen of the recorded image. This is the latest image recorded.

3.7 DST Setting and Image Playback

3.7.1. DST Setting



1. Go to [SYSTEM INFO] ([MENU] ► [SYSTEM] ►)
2. Click [DATE/TIME] to open setting menu.
3. Tick off "USE DST" and set "BEGIN" / "END" .
4. Click [OK] to confirm.

3.7.2. Image Playback of Overlapped Data



1. Overlapped period is indicated in Blue color in Intelli-Search Bar.
2. Click on the Blue color zone to playback.
3. Then, data selection message will pop up.



4. Select DST image or Non-DST image with the selection button.

4. Setting

General setting structure consists of "System", "Device", "Record", "Network", "Backup" and "Quick Setup" as below.

Main Classification	Sub Classification
SYSTEM	SYSTEM INFO
	USER
	EXPORT/IMPORT
	HDD
	FACTORY DEFAULT
DEVICE	CAMERA
	AUDIO
	SENSOR
	MOTION ALARM
	EXTRA ALARM
	PTZ
RECORD	CAMERA
	SCHEDULE
NETWORK	NETWORK
	DDNS
	NOTIFICATION
BACKUP	MANUAL BACKUP
QUICK SETUP	QUICK SETUP

4.1 System

User can find the menu button in "TOOL" of the menu bar or pop-up menu of mouse right button.

User can move mouse pointer from "System" through "Quick Setup" to instantly look around the sub-menus



4.1.1. System Info.



This is to check system information status or change the system-related configuration.

[Site ID]

Setup ID to match with the ID in KEYBOARD.

[Remote ID]

Setup ID to match with the ID in IR Remote Controller.

[Mac address]

Unique identity number for each system..



[Site Name]

Input Site Name by using virtual keyboard.



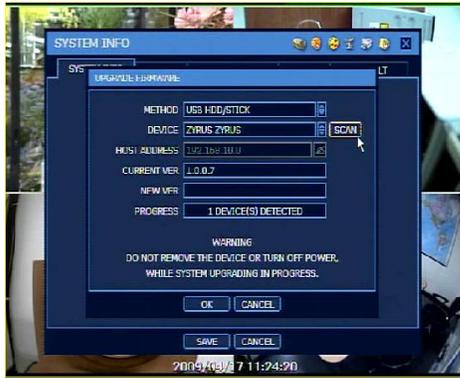
[Date/Time]

- 1) Set Date/Time with format.
- 2) Set DST (Daylight Saving Time), if necessary.
- 3) Set Time Sync Mode and Cycle to synchronize time with other DVRs or RMS or CMS.



[Display Setting]

Set display mode such as sequence dwell time, OSD display and spot-out, etc.



[Upgrade Firmware]

Upgrade the system in “Upgrade Firmware” menu via DVD/CD/USB/FTP server.

Caution

It is recommended to proceed “HDD Format” after finishing the upgrade of firmware, because the data recorded by previous firmware may cause mal-function of DVR due to different format.

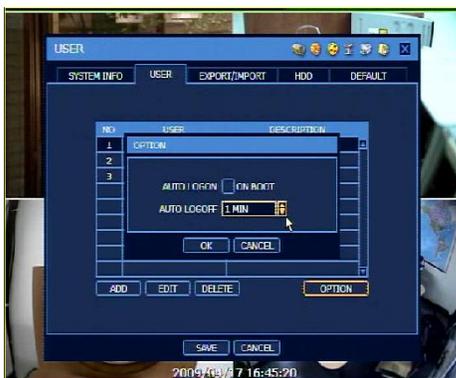
The system setting value might be possible to be changed to that of factory default in the case that there are a lot of changes between new firmware version and existing firmware version in functions, etc. Therefore, it is recommended to check the setting value and operating condition of the DVR after firmware upgrade.

4.1.2. User



Add new user and set different permission levels by : functions, menu access, and live & playback.

(*) Up to 32 users can be registered.



Set Log-in Option

[Auto Log On]

Make the DVR not to ask ID and Password input even though after system rebooting.

[Auto Log Off]

Lock the DVR control with the time setting.

4.1.3. Export/Import



Copy and paste the system configuration values

[Export]

Copy setting value to USB memory device.

[Import]

Call up setting value from USB memory device.

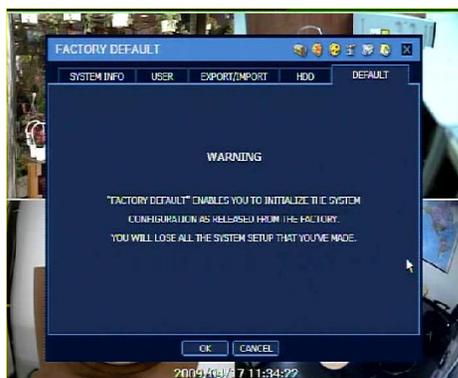
4.1.4. HDD



Check HDD status and select "Overwrite" or "Stop recording" when HDD becomes full.

Each HDD can be formatted in this menu.

4.1.5. Factory Default



With authorized password, user can get the system back to factory default configuration.

4.2 Device

4.2.1. Camera



[Title]

Input title for each channel.

[Covert]

Hide camera display and playback.

[Motion Detection Setting]

Set motion detection area and sensitivity.

4.2.2. Audio



Select audio input and output during live display, and match the audio input to a designated channel (Please refer to Section 4.3.1 Camera Record)

4.2.3. Sensor



[On/Off]

Turn on or off the sensor.

[Cam]

Select the associated camera.

[Out]

Select the associated alarm output.

[Intensive]

Increase recording speed up to the maximum frame at the selected resolution upon alarm triggered during the selected dwell time.

[Preset]

Move to preset position, once the sensor is triggered

[Dwell Time]

Set the recording period from the start of sensor input activation.

[Pre-Alarm]

Set recording period in seconds just before perceiving sensor input

[Type]

Select the sensor type between N/O(Normal Open) and N/C(Normal Close).

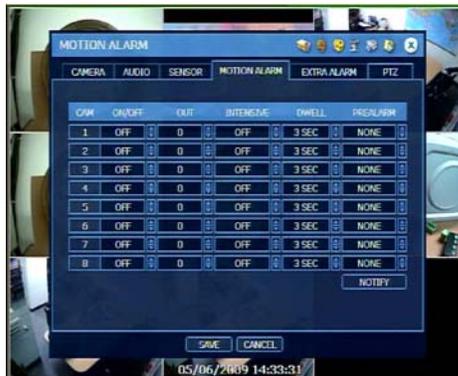
Caution Relay contact can stand up to 24V/1A of other devices. In the case that it is connected to the circuit which is over 24V/1A, it can cause a problem on the system.



[Notify]

Select how to be alerted upon sensor is activated or motion is triggered.

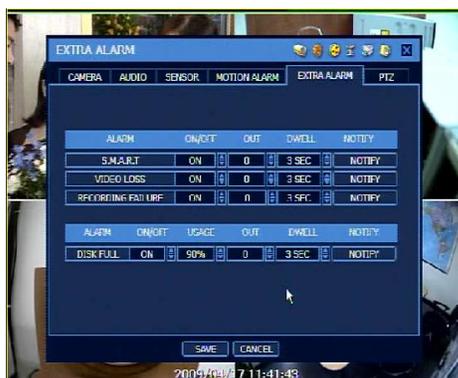
4.2.4. Motion Alarm



1. Motion alarm is to record only when motion detection is triggered by DVR S/W upon user's motion area setting.

2. Set functions are same as those of the sensor

4.2.5. Extra Alarm



[S.M.A.R.T. Alarm]

Trigger alarm signal when HDD might be about to be out of operation.

(*) This alarm is created by HDD and captured by DVR. If HDD does not create this alarm, then DVR also does not capture and output and signal either.

4.2.6. PTZ



“M” (Depending on the model of PTZ camera)

If selected, the OSD menu of PTZ camera is imported and shown on the DVR monitor and hence user can make full PTZ setting.

[Preset]

- 1) Set camera position and fit Zoom/Focus/Iris.
- 2) Input preset number.
- 3) Click [SET] to save the number with the position.

[Move]

- 1) Select preset number.
- 2) Click [MOVE] to move camera position to the preset position.

[Tour]

Click [TOUR] to move camera position to all preset positions step by step.

[Auto Pan]

Move camera position as set at the PTZ camera.

(*) It should be supported by PTZ camera itself.

[Aux]

Support other functions provided by PTZ camera.

[Guard Tour]

- 1) Click [SET] of Guard Tour to open Guard Tour menu as below.
- 2) Click [ADD] to open Guard Tour Add/Edit menu as below.
- 3) Select preset position and sequence with arrow button.
- 4) Set Interval time(sec).
- 5) Click [OK] to confirm.



[Protocol]

Select the proper protocol of the connected PTZ camera.

[Address]

Set the P/T/Z driver address of the connected camera.

[Baud Rate]

User can select the baud rate level from 2,400bps up to 57,600bps.

4.3 Record

4.3.1. Camera



[On/Off]

Switch "recording" on and off in each channel.

[Resolution]

Select resolution for the recording image.

[FPS]

Select frame per second for the recording image.

[Quality]

Select image quality.

[Auto Del]

System will delete video whatever is recorded longer than the number of days set.

[Audio]

Select audio for each video channel.

4.3.2. Schedule



Set recording schedule for each camera.

1. Select the camera to set schedule, or "All".
2. Select recording mode.
3. Select desired day/time by mouse click.
4. Recording can be set by each hour from 00 through 23 a day.

[No Recording : No Color]

[Continuous Recording : Yellow Color]



- 1) Set details at [MENU] ► [RECORD] ► [CAMERA].



2) At [MENU] [RECORD] [SCHEDULE], tick off "CONTINUOUS" and make schedule by selecting desired camera, day/time. Click [SAVE] button to confirm.

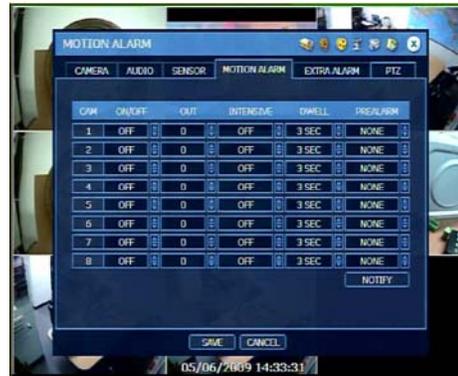
(*)  icon on Live image screen means continuous recording works properly.

[Motion Detection Recording : Green]



1) Set details at [MENU] ► [DEVICE] ► [CAMERA].

2) Set details at [MENU] ► [DEVICE] ► [ALARM].



[MOTION



3) Set details at [MENU] ► [RECORD] ► [CAMERA].



4) At [MENU] [RECORD] [SCHEDULE], tick off "MOTION" and make schedule by selecting desired camera, day/time.

5) Click [SAVE] button to confirm.

- (*)  icon will be shown on Live image screen and  icon will be popped up when motion is detected.

[Sensor Activated Recording : Orange]



1) Set details at [MENU] [DEVICE] [SENSOR].



2) Set details at [MENU] [RECORD] [CAMERA].



3) At [MENU] [RECORD] [SCHEDULE], tick off "SENSOR" and make schedule by selecting desired camera, day/time.

4) Click [SAVE] button to confirm.

- (*)  icon will be shown on Live image screen and  icon will be popped up when sensor is triggered.

[Continuous + Motion Detection Recording : Sky Blue]



1) Set details at [MENU] ▶ [DEVICE] ▶ [CAMERA].



2) Set details at [MENU] ▶ [DEVICE] ▶ [MOTION ALARM].

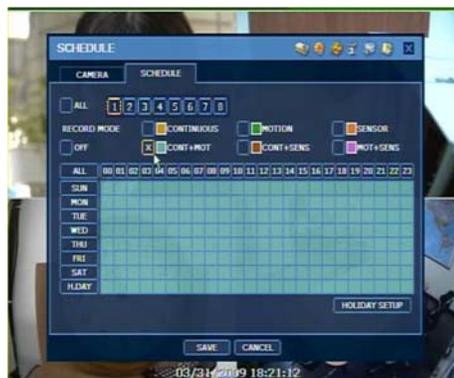


3) Set details at [MENU] ▶ [RECORD] ▶ [CAMERA].

4) At [MENU] ▶ [RECORD] ▶ [SCHEDULE],
"CONT+MOT"
and make schedule by selecting desired

5) Click [SAVE] button to confirm.

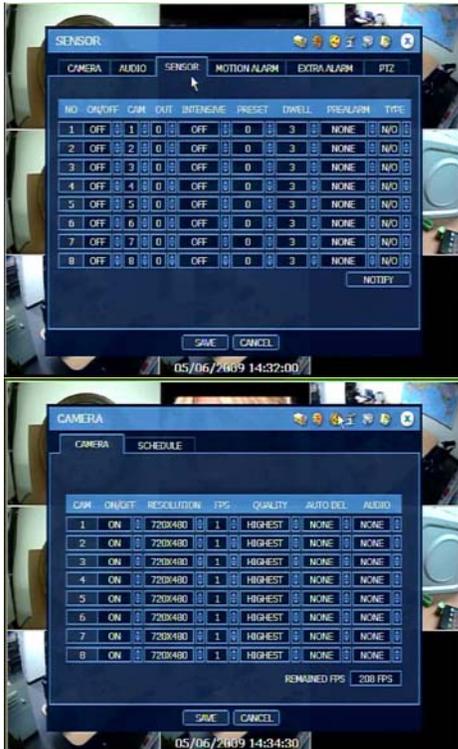
(*)  icon will be shown on Live image
 icon will be popped up when motion



tick off
camera, day/time.

screen and
is detected.

[Continuous + Sensor Activated Recording : Dark Orange]



1) Set details at [MENU] ► [DEVICE] ► [SENSOR].

2) Set details at [MENU] ► [RECORD] ► [CAMERA].

3) At [MENU] ► [RECORD] ► [SCHEDULE],
"CONT+SENS"
and make schedule by selecting desired

4) Click [SAVE] button to confirm.

(*)  icon will be shown on Live image
 icon will be popped up when sensor



tick off
camera, day/time.

screen and
is triggered.

[Motion Detection + Sensor Activated Recording : Pink]

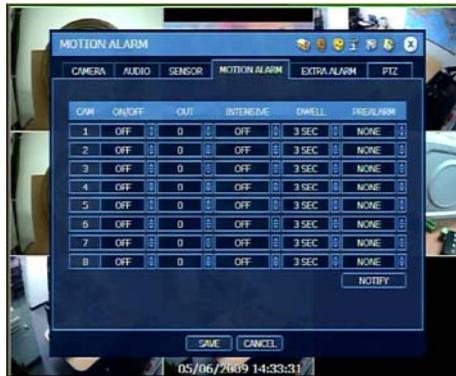


1) Set details at [MENU] ► [DEVICE] ► [CAMERA].



2) Set details at [MENU] ► [DEVICE] ► [SENSOR].

3) Set details at [MENU] ► [DEVICE] ► [MOTION



ALARM].



4) Set details at [MENU] ► [RECORD] ► [CAMERA].



5) At [MENU] ► [RECORD] ► [SCHEDULE], tick off “MOT+SENS” and make schedule by selecting desired camera, day/time.

6) Click [SAVE] button to confirm.

- (*)  icon will be shown on Live image screen.
-  icon will be popped up when motion is detected and
-  icon will be popped up when sensor is triggered.

Caution Dark Blue Color

The data recorded during DST (Daylight Saving Time) will be indicated in Dark Blue color in Intelli-Search Bar on playback mode.

[Emergency Recording]

1) Move mouse to the lower part of the screen to open Tool bar.

2) Click  button. Then, Emergency recording starts.

3) Click  button, again. Then, Emergency recording stops.

[Audio Recording]

1) Set details at [MENU] ► [DEVICE] ► [AUDIO].



2) Set details for audio at [MENU] ► [RECORD] ► [CAMERA].

(*)  icon on Live image screen means audio recording works properly.

4.4 Network

4.4.1. Network



Set details to use DVR over the network.

[Fixed IP]

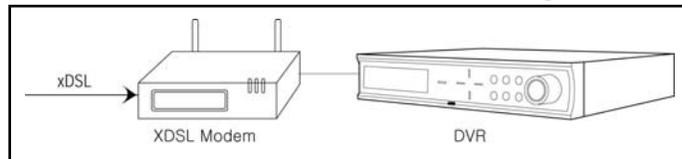
- 1) Set [NETWORK TYPE] to LAN.
- 2) Input [IP ADDRESS], [SUBNET MASK] and [GATEWAY] of your Local Area Network
- 3) Input [DNS SERVER], the IP Address of DNS Server provided by ISP (Internet Service Provider).
- 4) Input [TCP/IP PORT]
 - (*) Default value is "9010".
- 5) Input [WEB PORT]
 - (*) Default value is "80".

Note Setting in Router

If the network is used by router, it is required to open the related network ports in reference of below chart.

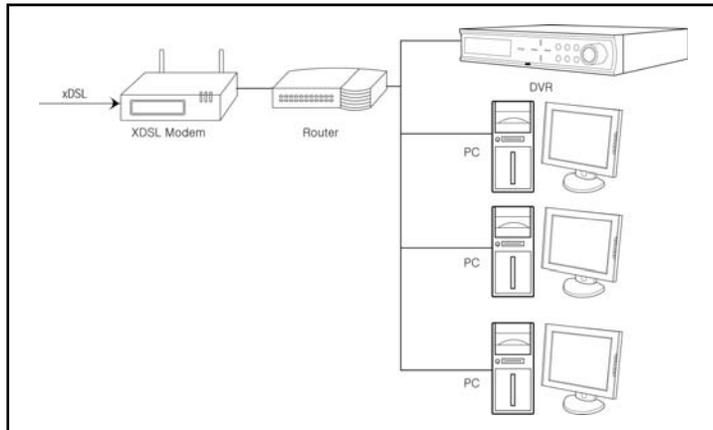
Protocol	Port	Usage	Remark	Editable	Location
TCP	9010	Control port of authorization service	TCP Base Port	Yes	Network/ Network
TCP	9011	Control port of VOD service	TCP Base Port +1		
TCP	9012	Data port of VOD service	TCP Base Port +2		
TCP	9013	Control port of Live service	TCP Base Port +3		
TCP	9014	Data port of Live service	TCP Base Port +4		
TCP	9017	System log service	TCP Base Port +7		
TCP	8002	Time sync service		Yes	System Info & Date/Time Setting
TCP	8003	Event notify socket (requesting port)		Yes	Network/ Notification
TCP	80	Web service		Yes	Network/ Network
TCP	10000	DDNS Server	Fixed		Network/ DDNS

[Dynamic Public IP - In case that xDSL modem is used without router]



- 1) Set [NETWORK TYPE] to DHCP.
- 2) Input [TCP/IP PORT]
(* Default value is "9010".
- 3) Input [WEB PORT]
(* Default value is "80".

[Dynamic Public IP - In case that xDSL modem is used together with router]



- 1) Set [NETWORK TYPE] to LAN or DHCP.
- 2) Input [IP ADDRESS], [SUBNET MASK] and [GATEWAY] of your Local Area Network
- 3) Input [DNS SERVER], the IP Address of DNS Server provided by ISP (Internet Service Provider).
- 4) Input [TCP/IP PORT]
(* Default value is "9010".
- 5) Input [WEB PORT]
(* Default value is "80".

Caution	DMZ (or Port Forwarding) setting in router should be well configured. DVR needs several ports to be opened for remote image transmission, configuration, time synchronization and etc. Please refer to above port list to make sure that those ports are not blocked by firewall or other network setting
----------------	---

4.4.2. DDNS



DDNS is to use Dynamic IP server that is operated by manufacturer.

[DDNS Server]

"cctv-link.net" is the fixed domain name of DDNS server operated by manufacturer. **User can not change this name.**

[TCP/IP Port]

Factory default value of TCP/IP port is "10000". **User can not change this port number.**

4.4.3. How to Set DDNS

[Setting in RemoteManager S/W]



1) Open Remote Option at [Setting] ► [Option].

2) Input "cctv-link.net" to IP and "10000" to Port of DDNS section.



3) Open Site Property menu to register site.

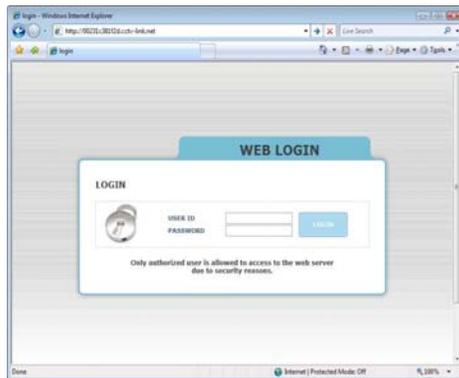
4) Input "Mac address + cctv-link.net" to IP Address.

(* If Mac address is "00:1C:84:01:00:02", then the format should be as "001c84010002.cctv-link.net".

5). Input "TCP/IP Port number" to Port.

6) Input "Web Port number" to Web Port.

[Setting in Web browser]

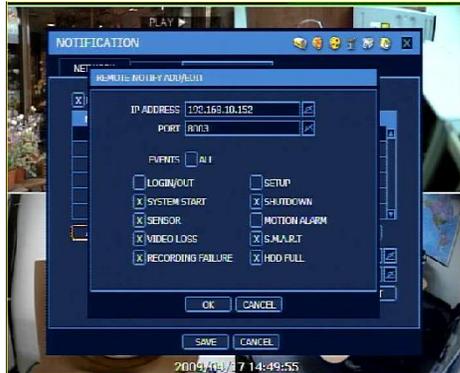


Input "Mac address + cctv-link.net" to IP Address.

(* If Mac address is "00:1C:84:01:00:02", then the format should be as "001c84010002.cctv-link.net".

4.4.4. Notification

[Remote Notify]

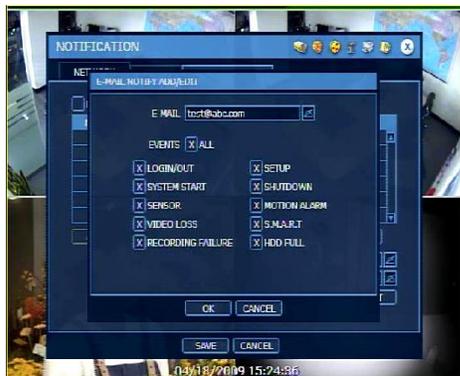


- 1) Input IP Address of the system to be notified.
- 2) Input Port number.
- 3) Select event type to be notified.
- 4) Click [OK] to confirm.

[E-Mail Notify]



- 1) Input SMTP and sender's e-mail address.
- 2) Tick off "E-Mail Notify".
- 3) Click [ADD] to open setting menu.



- 4) Input e-mail address to be notified.
- 5) Select event type to be notified.
- 6) Click [OK] to confirm.

4.5 Backup

4.5.1. Manual Backup



1. Go to [MENU] [BACKUP] [BACKUP].

* Quick Backup in Playback mode is available by pushing [ENTER] button twice(start/end) on the front panel.

2. After selecting desired channel and backup device, click [BACKUP] button.

3. Click [OK] after finishing backup procedure.

4.5.2. Backup Video Retrieve



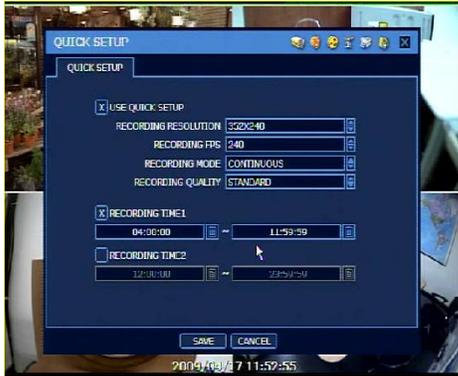
1. When the backup device(media) is connected to PC, user can find folder with backup files and Backup Player(BKPLAYER.EXE).

2. Check backup files and Execute Backup Player.



3. Select one of the backup files and drag & drop it to Backup Player. Then, backup image will be played.

4.6 Quick Setup



Quick Setup is to help user make simple configuration for recording resolution, entire recording speed by frame, recording mode, and recording periods.

1. Tick off "Use Quick Setup".
2. Set details.
3. Tick off "Recording Time 1 & 2".
4. Set recording time.

5. Web Surveillance

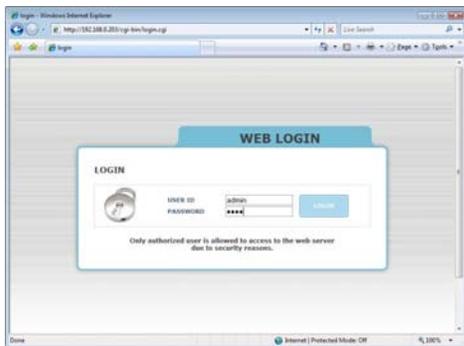
5.1 Web Login



1. Input "IP Address" at address section of Internet Explorer, in case of LAN, of the desired DVR to connect.

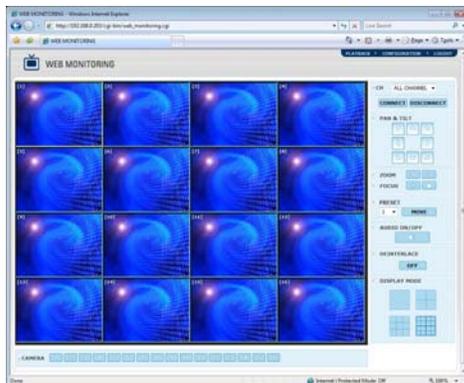


2. Input "MAC Address.cctv-link.net" at address section of Internet Explorer, in case of DDNS, of the desired DVR to connect.



3. Login with USER ID & PASSWORD.

(*) Default ID is "admin" and PASSWORD is "1234"



4. After the login is done, left screen pops up.

5.2 Web Configuration

[Menu of Web Configuration]

Main Menu	Sub Menu
SYSTEM	SYSTEM INFO
	USER
	FACTORY DEFAULT
	SYSTEM REBOOT
DEVICE	CAMERA
	AUDIO
	SENSOR
	MOTION ALARM
	EXTRA ALARM
RECORD	CAMERA
	SCHEDULE
NETWORK	NETWORK
	DDNS
	NOTIFICATION
QUICK SETUP	QUICK SETUP



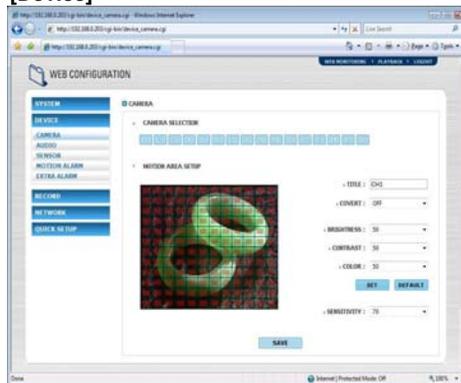
1. Click "Configuration" to get into configuration menu.

After log in with the right ID and password, user can make various configuration in Web Configuration window as below. This Web Configuration is only available to "admin" account.

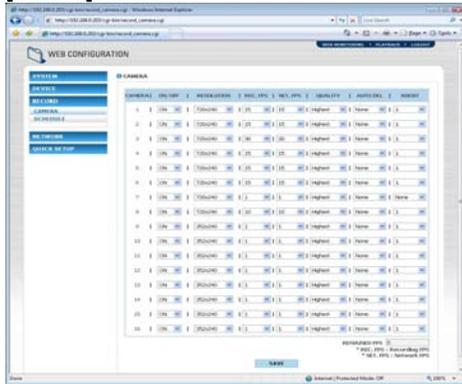
[System]



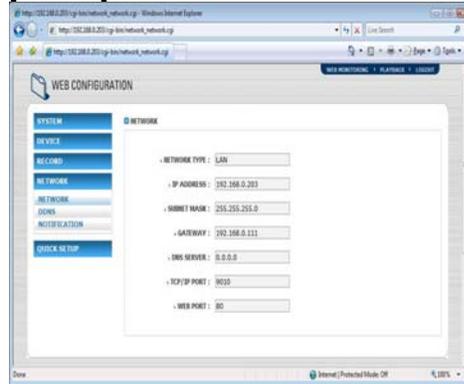
[Device]



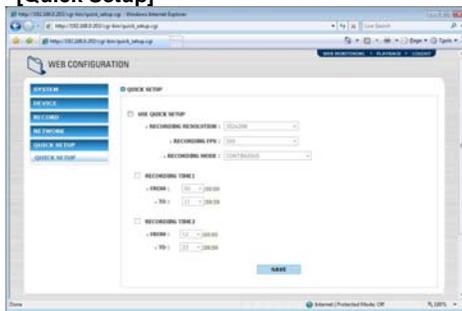
[Record]



[Network]

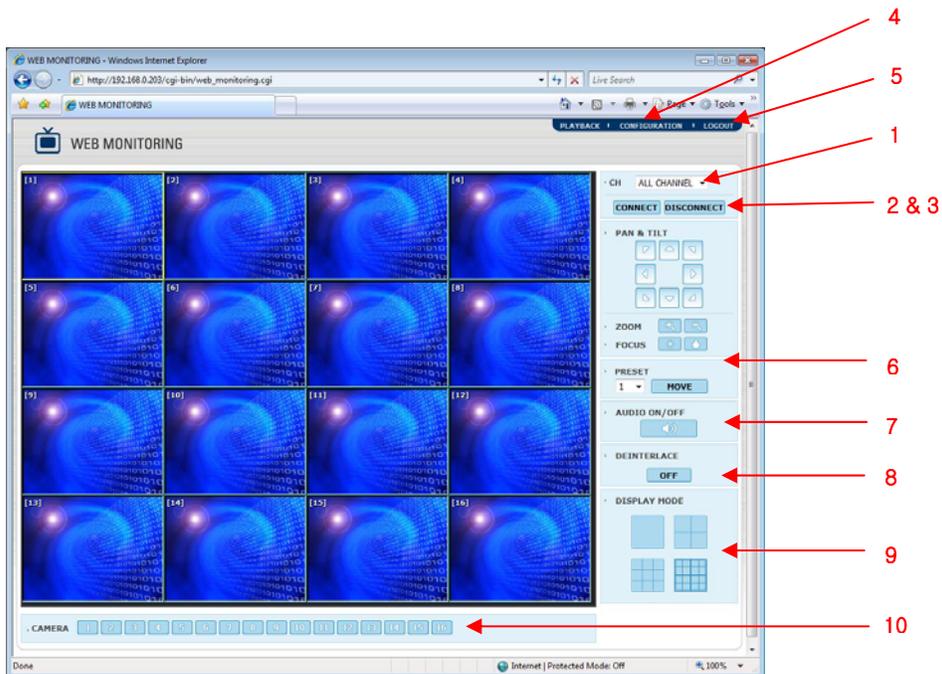


[Quick Setup]



5.3 Web Monitoring

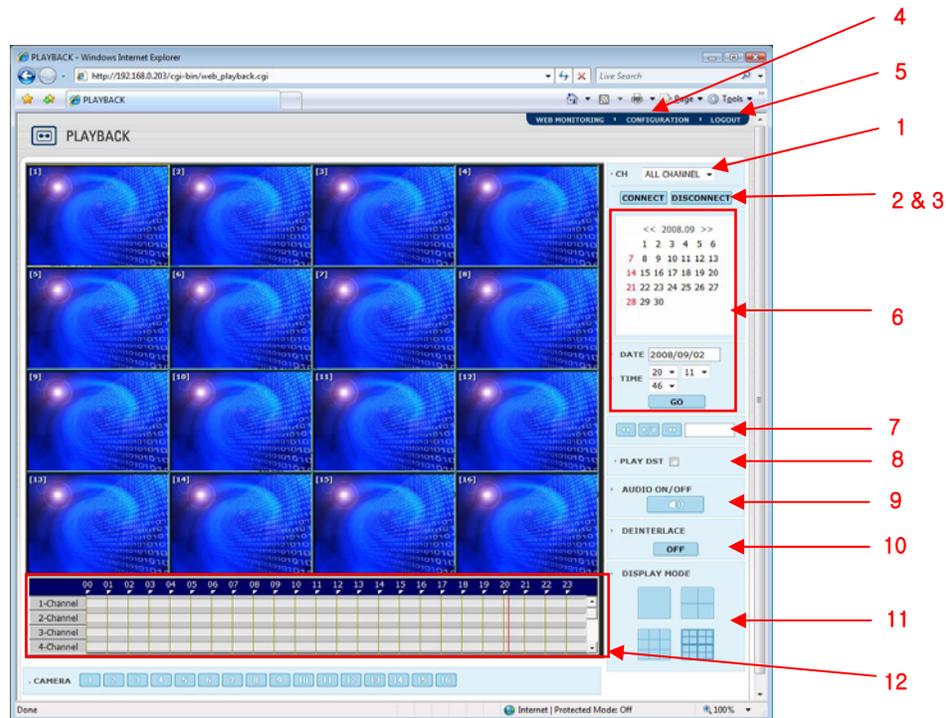
Click [WEB MONITORING] on the top-right menu to monitor live image of the DVR through Internet Explorer.



1. Select channels for connect or disconnect.
2. Connect selected channel.
3. Disconnect selected channel.
4. Go to Web Configuration page.
5. Log out to go back to Web Login page.
6. PTZ control
7. On & Off audio
8. On & Off Deinterlace
9. Select display of 1, 4, 9 or 16 screen mode
10. Single Channel Pop-up button

5.4 Web Playback

Click [PLAYBACK] on the top-right menu to playback and search recorded image of the DVR through Internet Explorer.



1. Select channels for connect or disconnect.
2. Connect selected channel.
3. Disconnect selected channel.
4. Go to Web Configuration page.
5. Log out to go back to Web Login page.
6. Calendar, date and time search
7. Play forward/backward control
8. Play DST data
9. On & Off audio
10. On & Off Deinterlace
11. Select display of 1/4/9/16 screen mode
12. Intelli-Search bar

6. Quick Trouble Shooting

1. Remote Surveillance is not working (Remote Manager, CMS, WEB Configuration)

- ✓ Check LAN cable connection to the LAN port on the rear panel of the DVR
- ✓ Check NETWORK setting value of the DVR
- ✓ Check whether Router or other network devices in your network environment are set correctly.

2. Recording is not working

- ✓ Check setting value of camera & schedule at RECORD ([MENU] ► [RECORD]).
(After setting is finished, [SAVE] button should be clicked.)
- ✓ Check the status of [HDD FULL] at [MENU] ► [SYSTEM] ► [HDD].
(If the HDD is full and set as [STOP RECORDING], it will not record.)
- ✓ In case that there is no HDD or error in HDD,  icon will pop up.

3. Playback is not working

- ✓ Check whether there is data on desired date/time with SEARCH function.
- ✓ If there is no data on the desired date/time, check "AUTO DEL" setting at [MENU] ► [RECORD] ► [CAMERA]
* "AUTO DEL", in full name of auto deleting, means that the system will overwrite video whatever is recorded longer than the number of days set by "Auto Del" in accordance with privacy regulation in certain country.
- ✓ If the HDD is full and set as [OVERWRITE] at [MENU] ► [SYSTEM] ► [HDD], the oldest data will be overwritten by new data step by step.