

Quick Guide

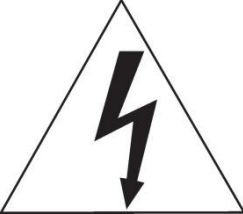

4/8/16 Channel DVR (Digital Video Recorder)

Please read this manual thoroughly before use and keep it handy for future reference.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

CAUTION

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL</p>		

EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC INFORMATION: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

CE COMPLIANCE STATEMENT

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. **CAUTION – THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.**
16. **Use satisfy clause 2.5 of IEC60950-1/UL60950-1 or Certified/Listed Class 2 power source only.**
17. ITE is to be connected only to PoE networks without routing to the outside plant.



1. Overview

1.1 Package Contents

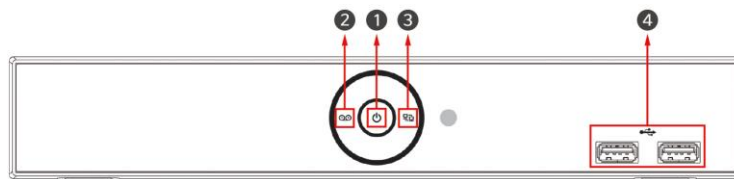
The device package contents consist of the following:

Note Please check all components involved.

No	Name	No	Name
1	DVR	6	SATA cable
2	DC Power Adapter & Power cord	7	SATA power cable
3	Mouse	8	HDD fixing screw
4	Quick guide	9	Rack mount bracket(8/16ch only)
5	Program CD	10	Bracket fixing screw(8/16ch only)

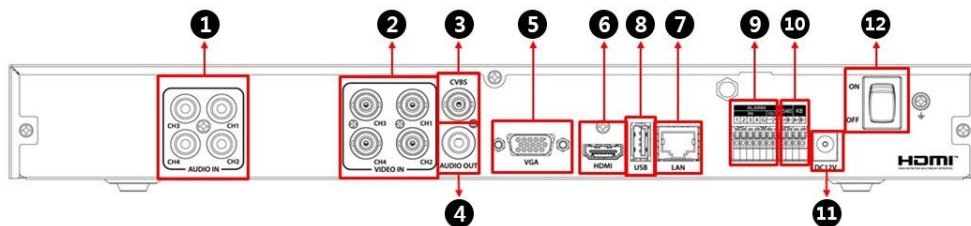
1.2 DVR Description

Each part is listed in the below:

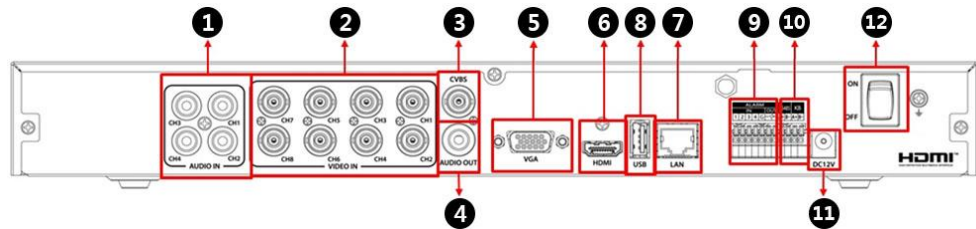


No.	Name	Function
1	Power status LED	Pointing out device on/off.
2	Recording status LED	Pointing out recording in process.
3	Network LED	With a network viewer, pointing out network in connection.
4	USB port	USB port is connected for USB mouse or firmware upgrade, and data back-up.

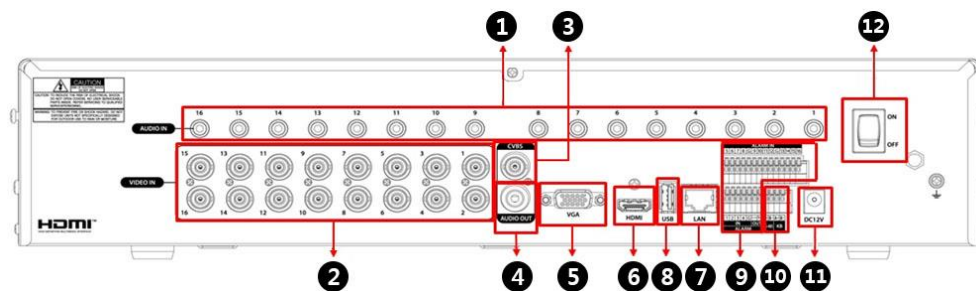
4ch DVR



8ch DVR



16ch DVR



No.	Name	Function
1	Audio In	Camera audio input port.
2	Video In	Camera video input port.
3	CVBS	CVBS output port.
4	Audio Out	Audio output port.
5	VGA	VGA output port.
6	HDMI	HDMI output port.
7	LAN	Network connector.
8	USB	USB port is connected for USB mouse or firmware upgrade, and data back-up.
9	Alarm In/Out	Alarm connector.
10	RS485	RS-485 communication connector.
11	DC12V	Connector with power supply.
12	Power Switch	Power On-Off.

2. Installation

This chapter describes the way to install DVR.

When installing a device, connect rear of the device with each port on the basis of below connection map.

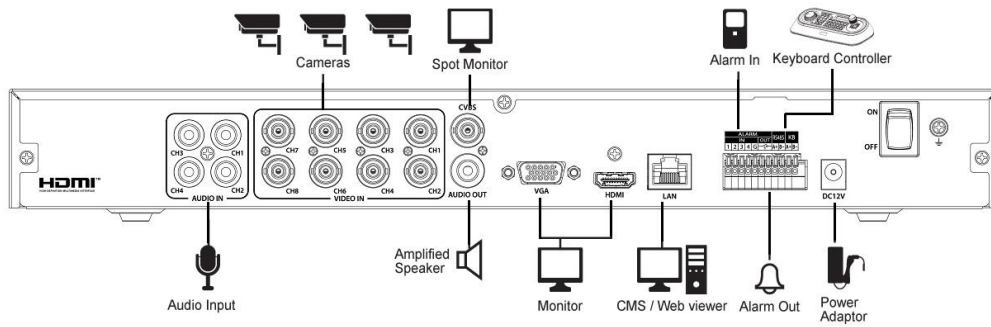


Figure 2-1 Connection map

The device starts first like below sequences:

- 1 Installing HDD.
- 2 Connecting with an exterior device.
- 3 Starting a system.
- 4 Setting a quick setup.

2.1 Installing HDD

How to install HDD in the device:



- Withdraw the mains plug before installing HDD to reduce the risk of injury or electrical shock, or device malfunction.
- Make sure to check the compatibility of HDD with the device.

- 1 Always switch off and unplug the unit.
- 2 Unscrew with a screw driver (+) and open the unit cover.
- 3 Install HDD in the bottom case.
- 4 Connect a data cable and power cable with HDD.
- 5 Close the cover and tighten screws.

2.2 Starting System

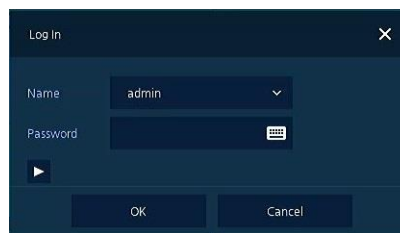
Power supply begins with system operation as follows:


- 1 Switching on initialize with below icons in order.



Note Installing new HDD might take more initialize time.

- 2 With buzzer sounds, the start screen is presented.
- 3 In **Log in** screen, enter the **ID, Password** and press **OK**.



Note Default ID & Password is admin/admin.
Click  to see the MAC address.
If lost password, inform the MAC address to supplier to create temporary password.

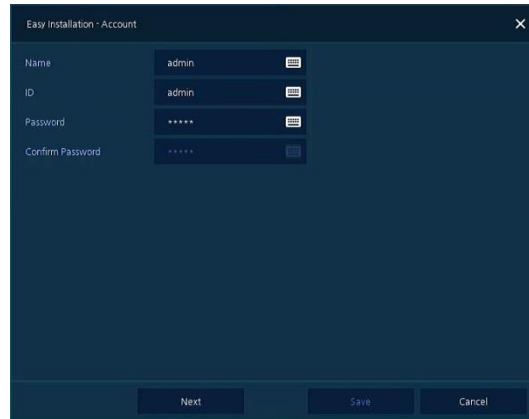


Please change password after login due to security.

2.3 Quick Setup

2.3.1 Account

4 Set ID and Password.

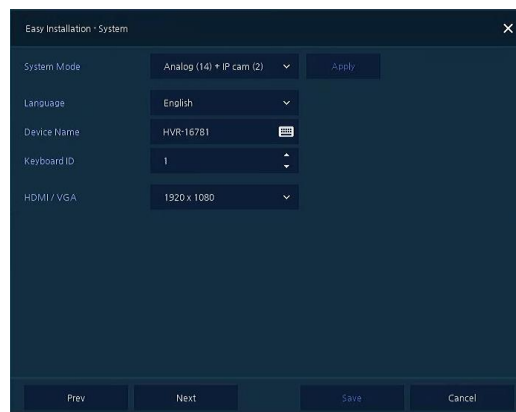


Note

- Default ID/Password is admin/admin.
 - Change the password for security.
-

2.3.2 System

5 Set each item in **System** setting screen.



- System Mode: Select input video type (analog or analog + IP).
- Language: Select system language.
- Device Name: Enter the device name.
- Keyboard ID: To identify device usages in controlling DVR with RS485 through a keyboard. Selecting the device ID. In case of simultaneous use of equipment, set ID with difference.
- HDMI/VGA: Set resolution of a monitor connected to the device.

2.3.3 Network

6 Set each item in **Network** setting screen.

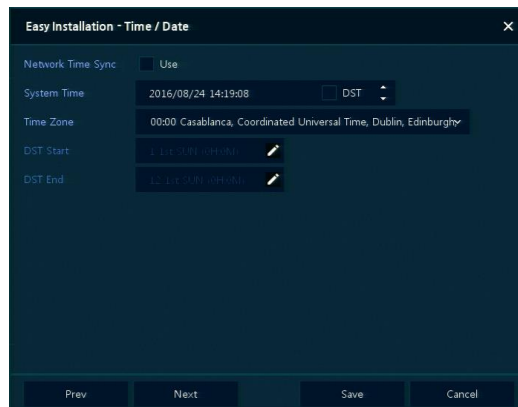


The screenshot shows the 'Easy Installation - Network' window. At the top, there are two radio buttons: 'Static IP' (selected) and 'DHCP (Dynamic)'. Below this, several fields are listed with their corresponding values: IP Address (192.168.8.8), Subnet Mask (255.255.255.0), Gateway (192.168.0.1), DNS (8.8.8.8), Port (TCP) (9350), and Port (Web) (80). Each field has a small icon to its right. At the bottom of the window, there are four buttons: 'Prev', 'Next', 'Save', and 'Cancel'.

- WAN Port: Select whether to use static IP or dynamic IP.
- IP Address, Subnet Mask, Gateway, DNS, and Port: As for dynamic IP, enter information in each space.

2.3.4 Time/Date

7 Set each item in **Time/Date** setting screen.

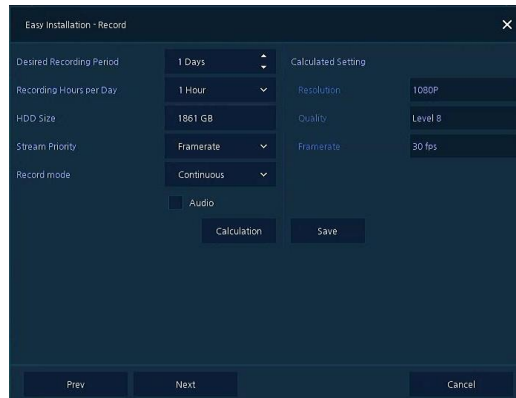


The screenshot shows the 'Easy Installation - Time / Date' window. At the top, there is a checkbox for 'Network Time Sync' which is checked. Below this, several fields are listed with their corresponding values: System Time (2016/08/24 14:19:08), Time Zone (00:00 Casablanca, Coordinated Universal Time, Dublin, Edinburgh), DST Start (1:14:00 (1st Sun)), and DST End (1:14:00 (1st Sun)). Each field has a small icon to its right. At the bottom of the window, there are four buttons: 'Prev', 'Next', 'Save', and 'Cancel'.

- Network Time Sync: Select network for synchronizing with time server.
- System Time: Not for synchronizing with network time server, set the device time; otherwise (applying for Daylight saving time), select DST.
- Time Zone: Select time zone for the system being installed.
- DST Start/End: For applying Daylight saving time, set the application period.

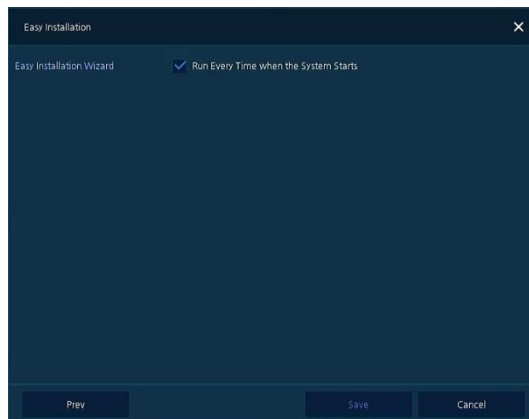
2.3.5 Record

8 Set each item in **Record** setting screen.



- Select desired recording period and daily recording hours.
- HDD size will be displayed automatically.
- Select priority of frame rate or resolution.
- Select recording modes as continuous or event.
- Select if audio record or not.
- Click **Calculation** to see recommended frame rate and resolution.

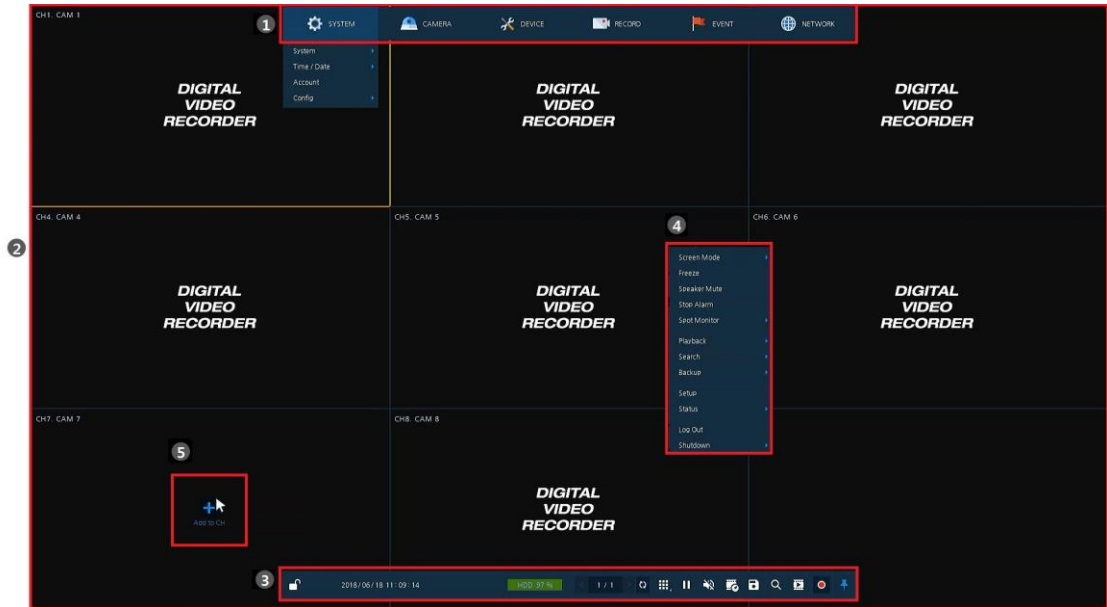
2.3.6 Easy Installation Wizard



- Select to run Easy Installation every time when the system start.
- Press **Save** button to save set value and end Easy Installation.

3. Live Screen Configuration

UI screen is configured like below figure.



No.	Item	Description
1	Setup menu	Setting menu is located in the corner of upper screen. See "4 Error! Reference source not found. " to display detailed information about the setting menu.
2	Live screen	Show live video of connected cameras.
3	Launcher menu	Launcher menu is located in the corner of below screen. See "3.2 Live Launcher " to display detailed information about the launcher menu.
4	Quick menu	Clicking the right button of a mouse displays Quick menu. See " Error! Reference source not found. Error! Reference source not found. " to display detailed information about the quick menu.
5	Add to CH	It is manual registration menu when the mouse pointer is placed in the center of the channel that the camera is not registered in Analog+ IP cam mode. See " Error! Reference source not found. Error! Reference source not found. " to display detailed information about Add to CH.

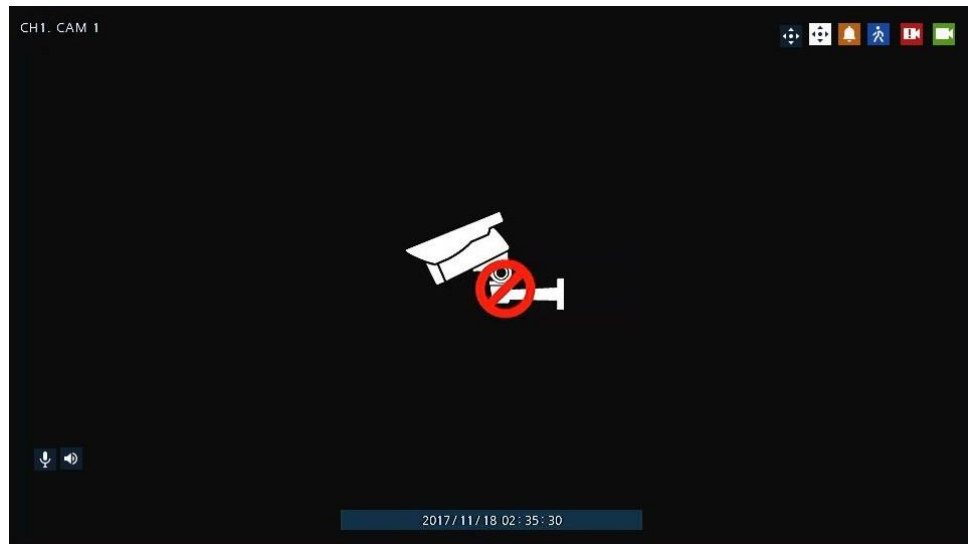
Note IP Camera menu will be appeared when Analog + IP cam mode is selected.











Icons in Live screen

Each icon in the live screen displays a present setting status or a function. UI screen consists of like below.

Note

Chosen live screen is marked as a blue frame; mouse-located live screen is marked as yellow one.















No.	Icon	Description
1	CH1 CAM1	Channel numbers and camera titles.
2		A camera with PTZ function.
3		PTZ control function in process.
4		Recording in alarm event mode.
5		Recording in motion event mode.
6		Recording in panic recording mode.
7		Recording in consecutive recording mode.
8		Video loss icon.
9		Mic on/off.
10		Speaker on/off.
11		Displaying present time and date.

3.1 Live Launcher menu

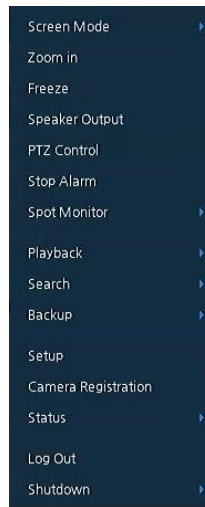
This chapter describes Launcher menu in the bottom of the screen.



No.	Item	Description
1		Log in/out status and logged in ID.
2	Date & Time	Displaying present date and time.
3	HDD	Displaying HDD capacity in use.
4		Moving to previous/next partition screen.
5		Displaying live screen in order set (toggle).
6		Selecting partition mode to mark in live screen (single screen, 4-, 9-, and 16-partition).
7		Stopping or replaying selected live screen images (toggle).
8		Audio on or mute chosen live screen(toggle).
9		Save the bookmark.
10		Make a backup video of users want.
11		Searching recording data (time, event, thumbnail, smart search and text).
12		Playback recorded data.
13		Starting immediate recording of selected channel.
14		Locking or releasing launcher menu (toggle).

3.2 Quick menu

This chapter depicts Quick menu when users click the right button of the mouse in live screen.



No.	Item	Description
1	Screen Mode	Selecting the partition mode of live screen (Full, 2X2, 3X3, and 4x4).
2	Zoom in	Magnifying selected live screen (Zoom out, 2 times, 4 times, and 8 times).
3	Freeze	Freezes the video selected live screen images (toggle on/off).
4	Speaker Output/Mute	Turning on/off a sound speaker.
5	PTZ Control	Controlling PTZ function.
6	Stop Alarm	Stopping monitoring alarm output and event.
7	Spot Monitor	Set the output mode of a spot monitor (Auto, Full, and 2x2), (Auto, Full, and 3x3), (Auto, Full, and 4x4).
8	Playback	Playing selected live screen images (from 30 sec ago, 1 min ago, 5 min ago, 10 min ago, 30 min ago, 1-hour ago, Go to first, and Go to last.).
9	Search	Searching recording data (time, event, thumbnail, text and VCA). See "Error! Reference source not found. Error! Reference source not found." to display detailed information about search.
10	Backup	Backup video users want. See "0 " to display detailed information about back-up.
11	Setup	Opens the DVRs main set up menu... For more information about setting menu, see section "Error! Reference source not found. Error! Reference source not found."
12	Camera Registration	Opens a pop-up menu for IP camera registration.
13	Status	Opens a pop-up menu showing: device system log, event, and recording status (system log, event, record and disk).
14	Log in/Log out	Log in/Log out.
15	Shutdown	Shuts down or restarts the device (shutdown).



4. Setup menu

This chapter describes Setup menu in the upper side of the screen.



Selecting the menu opens the setting screen.

Note Setup screen is available to click **Setup in** Quick menu by clicking the right button of the mouse.

No.	Item	Description
1	SYSTEM	Setting the system environment.
2	CAMERA	Setting the camera.
3	DEVICE	Setting the non-camera device connected with the DVR.
4	RECORD	Setting the recording parameters.
5	EVENT	Setting each event.
6	NETWORK	Setting the network environment.

Note For more details on each section within the Set Up menu, please refer to the main manual contained on the CD supplied with the DVR.
