

DVR USER MANUAL DVR with Cloud Technology Easy Link Series (EL421/EL821/EL1621)

Default user name: admin Default password: 123456



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Preface

About this Manual

The material in this document is for information purpose and is subject to change without prior notice. We made every effort to ensure that this user's manual is accurate and complete. However, no liability is assumed for any errors and omissions that may have occurred.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Declaration of Conformity

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.

2. This device must accept any interference received, including interference that may cause undesired operation.

Copyright

Limitation of Liability

- This publication is provided "AS IS" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability, fitness for any particular purpose, or non-infringement of a third party's rights.
- This publication may include technical inaccuracies or typographical errors. Changes may be made to the information herein, at any time, for publication improvements and/or of the corresponding device(s).

Disclaimer of Warranty

In no event shall the supplier be liable to any party or any person, except for replacement or reasonable maintenance of the product, for the cases, including but not limited to the following:

- Any damage or loss, including but without limitation, direct or indirect, special, consequential or exemplary, arising out of or relating to the device;
- Personal injury or any damage caused by inapppropriate use or negligent operation of the user;
- Unauthorized disassemble, repear or modification of the device by the user;
- Any problem, consequential inconvenience, or loss or damage, arising out of combining the system with the devices of a third party;
- Any claim or action for damages, brought by any person or organization being a photogenic subject, due to violation of privacy with the result of pictures from a surveillance camera, including saved data, for some reason, becomes public or is used for the purpose other than for surveillance.

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Safety Information

Warning This is the symbol for indicating any potential hazard, risk or condition requiring special attention. The user needs to refer to the important operating and maintenance or servicing instructions.



Caution

The lighting flash with an arrow head symbol, in an equilateral triangle, is intended to alert the user. There is dangerous "voltage" presence near by the product's enclosure which may be risk of person.

Safety Precautions

- Do not touch live electrical parts. Electric shock can be avoided. Follow the recommended practices listed below. Faulty installation, improper grounding, and incorrect operation and maintenance of electrical equipment are always sources of danger.
- Do not try to install equipment outdoor, during strong wind and rain.
- Do not install or remove equipment outdoor, when raining.
- Do not try to install or operate any equipment, during a thunderstorm.
- Always ground all electrical equipment and the work platform. Prevent accidental electrical shocks. Connect power source, control cabinets, and work platform to an approved electrical ground.
- Always use the correct cable size.

Sustained overloading will cause cable failure and result in possible electrical shock or fire hazard. Work cable should be the same rating as the factory.

- Always keep cables and connectors in good condition. Improper or worn electrical connections can cause short circuits and can increase the chance of an electrical shock. Do not use worn, damaged, or bare cables.
- Always avoid open-circuit voltage. The added voltages increase the severity of electric shock hazard.
- · Always wear insulated gloves while you adjust equipment. Electric power should be turned off and insulated gloves should be worn when making any equipment adjustment to assure shock protection.
- Always wear protective clothing such as long sleeve shirts while you are installing or removing equipment.
- Always wear high, snug fitting shoes.
- Always wear clean clothes without grease or oil.
- Protect neighboring workers from exposure to arc radiation.
- Always wear long trousers or jeans while you are installing or removing equipment.
- Always wear safety helmet or hard head and safety shoes before work.
- Always keep the equipment in dry places.
- Always wear safety harnesses/belt while you work in high places.
- Always wear dry clothing and avoid moisture and water.
- Always wear Public Safety Vest, while you work at night.
- Make sure all electrical connections are tight, clean, and dry.
- Make sure that you are well insulated to eliminate electric static charge.
- Always wear dry gloves, rubber-soled shoes, or stand on a dry board or platform.
- Always follow recognized safety standards.
- Always wear correct eye, ear, and body protection.
- Always have second person on-site, while you work in dark, poor ventilation, or high places.
- Make sure that you are well protected against arc flashes, mechanical injury, or other mishaps.
- Make sure that the polarity of wire is correct before installing equipment.
- Always handle equipment with care.
- Do not block the ventilation of equipment.
- Do not put the magnetic parts around the equipment.
- Do not put the objects on top of the equipment.

Chapter 1: Product Overview

1.1 Features

This device supports the following features:

- H.264 compression technology
- Advanced and friendly user interface with USB mouse control
- Supports simultaneous multi-channel playback with IE browser of videos recorded in different time frames
- Total online surveillance via IE/Safari browser for remote video & audio live view, playback, setup, backup and filing
- Built-in RS-485 port for PTZ control
- Pre-recording feature that allows additional images to be captured prior to the motion detected event
- Instant E-mail notification for alarm-triggered events
- Supports clock synchronization with NTP
- Privacy masks for private area protection (max. 4 areas per channel)
- Free downloadable KView series for remote monitoring and control via iPhone, iPad and Android hand-held devices
- USB 2.0 interface for easy backup
- KGUARD DDNS Service (kguard.org) included
- Support D1/960H recording and playback
- Viewable on widescreen LCD
- Real-time live display up to 16 cameras with 1080p high definition 1920x1080
- User Authorization and Authentication Management
- Exclusively connects to Cloud Service and has a personal storage space
- Support easy network setup on DVR for remote live view on smart phone/pad

1.2 Accessories

The following items come with your package. If any of them is missing or damaged, please contact your retailer.

4-Channel / 8-Channel DVR



16-Channel DVR

| Remote Control | Mouse | Batteries* | CD-ROM |
|------------------------|------------|------------|-------------|
| | | | Quick Guide |
| Power Adapter | HDMI Cable | RJ45 Cable | Quick Guide |
| | | | |
| Internal HDD Screw Kit | | | |

* Not available in all countries.

1.3 Parts and Functions

1.3.1 Front Panel



| No. | Item | Description |
|-----|-----------------|--|
| 1 | HDD Indicator | Lights red when the HDD is being accessed. |
| 2 | Power Indicator | Lights green to indicate the power is turned on. |
| 3 | USB port | Connects to a USB mouse, flash disk, and other external storage drive. |

1.3.2 Rear Panel

4-Channel DVR



8-Channel DVR



| No. | Connector | Description |
|-----|--------------|--|
| 1 V | Video input | 8-Channel DVR: Connects to a maximum of 8 video input devices (BNC). |
| | | 4-Channel DVR: Connects to a maximum of 4 video input devices (BNC). |
| 2 | Video output | Connects to a video output device via BNC. |
| 3 | Audio output | Connects to an audio output device via RCA. |
| 4 | Audio input | Connects to a maximum of 2 audio input devices via RCA. |
| 5 | HDMI output | Connects to a monitor output via HDMI. |
| 6 | VGA output | Connects to a VGA monitor. |
| 7 | USB port | Connects to a USB mouse, flash disk, and other external storage drive. |
| 8 | LAN | Connects to LAN via RJ-45. |
| 9 | RS-485 | Connects to a Speed dome camera via RS-485. |
| 10 | Power | Connects to the power adapter. |



| No. | Connector | Description |
|-----|--------------|--|
| 1 | Video input | Connects to a maximum of 16 video input devices via BNC. |
| 2 | Video output | Connects to a video output device via BNC. |
| 3 | Audio output | Connects to an audio output device via RCA. |
| 4 | Audio input | Connects to a maximum of 4 audio input devices via RCA. |
| 5 | VGA output | Connects to a VGA monitor. |
| 6 | RS-485 | Connects to a Speed dome camera, sensor or alarm device via RS-485. |
| 7 | IR-EXT port | Connects to an IR extender device. |
| 8 | Power switch | Press to turn the DVR on or off. |
| 9 | Power | Connects to the power adapter. |
| 10 | USB port | Connects to a USB mouse, flash disk, and other external storage drive. |
| 11 | LAN | Connects to LAN via RJ-45. |
| 12 | HDMI output | Connects to a monitor output via HDMI. |

1.4 Mouse

The DVR is supplied with a USB mouse that you can use to operate the DVR. Simply plug in the supplied mouse into the USB mouse connector at the rear panel of the device.

| Mouse Operation | Description |
|------------------------------|--|
| Left-click | In OSD menu, click the left button to select and edit the setting. |
| Right-click | In preview mode, click the right button to display the pop-up menu. |
| | In main menu or sub menu mode, click the right button to exit the current menu. |
| Double-click the Left button | Double-click the live image of any channel for full screen display. Double-click the left button again to return to the window-display of all cameras. |
| Drag an area/line | In motion mode, use this function to select motion area. |
| | In [Color Setup] menu mode, it will adjust color control bar. |

1.5 Remote Control

4-Channel / 8-Channel DVR

| No. | lcon | Description |
|-----|--------|---|
| 1 | 1~9 | Numeric keys |
| 1 | 1 0 | Press to display channel 1 ~ 8. |
| | | Numeric keys |
| 2 | 9, 0 | Press "0" key to switch between video output monitor (HDMI/VGA or BNC). |
| 3 | ALL | Press to display all channels. |
| 4 | MENU | Press to enter or exit the Main Menu. |
| 5 | SEL | Press to enter the selected menu item and edit the setting. |
| 6 | | Press to move up in the OSD menu. |
| 7 | | Press to move left or right in the OSD menu. |
| 8 | | Press to move down in the OSD menu. |
| 0 | Audio/ | In Playback mode, press to turn the audio on or off. |
| 9 | Search | Press to search for recorded video. |
| 10 | Mute | Press to turn mute on or off. |
| 11 | | Press to rewind during video playback. |
| 12 | | Press to play recorded video or enter the recording search menu. |
| 13 | | Press to fast forward during video playback. |
| 14 | | Press to start manual recording. |
| 15 | | Press to pause the video playback or enter frame-playback mode. |
| 16 | | Press to stop manual recording or stop the video playback. |



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16-Channel DVR



| No. | lcon | Description |
|-----|-----------------|--|
| 1 | C- | Press to start manual recording. |
| 2 | SEARCH | Press to enter search mode. |
| 3 | 2X2 | Press to view a 2x2 channel display. |
| 4 | 0-9 | Numeric keys Press to display the channel in full screen. Press "0" key to switch between video output monitor (HDMI/VGA or BNC). |
| 5 | 3X3 | Press to view a 3x3 channel display. |
| 6 | 4X4 | Press to view a 4x4 channel display. |
| 7 | AUTO | Press to enable auto rotate mode. |
| 8 | DISPLAY MODE | Press to toggle multi-window display (4-CH, 9-CH, 16-CH, Full Screen) |
| 9 | | Press to move up in the OSD menu. |
| 10 | ENTER | Press to enter the selected menu item and edit the setting. |
| 11 | ◄ | Press to move left in the OSD menu. |
| 12 | | Press to move right in the OSD menu. |
| 13 | ▼ | Press to move down in the OSD menu. |

| No. | lcon | Description |
|-----|-----------------|---|
| 14 | PLAY | Press to play recorded video. |
| 15 | MENU/ ESC | Press to enter or exit the Main Menu. |
| 16 | PIP | Press to enter Picture-in-Picture (PIP) mode. |
| 17 | MUTE | Press to mute audio or disable mute. |
| 18 | FWD | Press to fast forward video playback (x2, x4, x8). |
| 19 | REW | Press to rewind video playback (x2, x4, x8). |
| 20 | PAUSE/ FRAME | Press to pause video playback or enter frame-playback mode. |
| 21 | SLOW | Press to playback video in slow motion (1/2, 1/4, 1/8). |
| 22 | STOP | Press to stop video playback. |
| 23 | ZOOM | Press Z+ to zoom in or Z- to zoom out display. |
| 24 | PTZ | Press to configure PTZ settings. |
| 25 | LOCK | Press to lock the system. |
| 26 | FOCUS | Press F+ or F- to adjust focus. |
| 27 | IRIS | Press I+ or I- to adjust aperture. |

Chapter 2: Installation

2.1 Installing the Hard Disk Drive

Depending on the package you have purchased, the hard disk drive may be included in the full package. If it is not pre-installed, follow the installation instructions on this user manual.

DO NOT install or remove the hard disk drive while the device power is turned on.

2.1.1 Installing HDD on 4-Channel / 8-Channel DVR

The 4-channel / 8-channel DVR supports one 3.5" SATA hard disk drive. To install the HDD, follow the steps below.

Note:

The illustrations below show an 8-channel DVR, same procedures apply to a 4-channel DVR.

1 Loosen the screws in the left, right, and rear sides as shown.



2 Push back then lift up the cover to remove it.



3 Connect the data and power cables to the hard disk drive (HDD) and place the HDD on the DVR case.



4 Align the HDD to the holes on the DVR case and secure the HDD using the four (4) supplied screws.



5 Attach the cover and the screws back in place.



2.1.2 Installing HDD on 16-Channel DVR

The 16-channel DVR supports supports one 3.5" SATA hard disk drive. To install the HDD, follow the steps below.

T

1 Loosen the screws on the left, right, and rear sides as shown.



2 Push back then lift up the cover to remove it.



3 Connect the data and power cables to the hard disk drive (HDD) and place the HDD on the DVR case.



4 Align the HDD to the holes on the DVR case and secure the HDD using the four (4) supplied screws.



5 Attach the cover and the screws back in place.



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2.2 Connecting the Power

Use only the supplied power adapter that came with the DVR.

- 1 Connect one end of the power adapter to the power connector on the back of the DVR.
- **2** Plug the other end of the power adapter into the wall outlet.
- **3** For 4-channel/8-channel models, the DVR automatically powers on.

For a 16-channel DVR, press the Power switch to turn on the power.





2.3 Connecting to Monitors

The preview screen can be displayed on monitors via BNC, VGA, or HDMI connection.

2.3.1 BNC Connection

Connect the video output of the DVR to the monitor via BNC connector as shown.



2.3.2 VGA Connection

Connect the video output of the DVR to the monitor via VGA connector as shown.



2.3.3 HDMI Connection

Connect the video output of the DVR to the monitor via HDMI connector as shown.



2.4 Connecting the Cameras

Connect the camera cable(s) to the video input of the DVR via BNC or RS-485 connection.

2.4.1 BNC Connection

Connect the camera cable(s) to the video input of the DVR via BNC connector as shown.

Note:

The illustration below is of an 8-channel DVR. For 4-channel DVRs, only four video input connection via BNC are available.





2.4.2 RS-485 Connection

If you are using a PTZ speed dome, connect the camera cable to the video input of the DVR via RS-485 connector as shown.



2.5 Connecting the Alarm

Note:

Available in 16-channel DVRs only.

You can connect one alarm device via RS-485 connection as shown.



2.6 Connecting the Sensors

Note:

Available in 16-channel DVRs only.

You can connect sensors up to 8 channels. The connectors are labelled according to channels.



2.7 Connecting the Microphones

The DVR supports up to 4 audio input channels. Microphones can be connected directly via RCA connection.

2.7.1 RCA Connection

Connect the microphone(s) using RCA cable connection as shown.



2.8 Connecting to Network

For remote monitoring, connect the DVR to the internet via wired network connection.



 ${f 1}$ Plug one end of the RJ-45 cable to the LAN port on the back of the DVR.

2 Plug the other end directly into a LAN port on a router or network switch.

After connecting, configure your DVR for network communication. See "4.4 Setting the Network" on page 52 for further details.

2.9 Connecting to Other Devices

You can connect other devices such as a mouse and a USB storage drive to the DVR. Connect them to the USB port on the back or the front of the DVR.



2.10 Connecting to Speakers

You can connect speakers to the DVR via RCA connection.

2.10.1 RCA Connection

Connect the speaker using RCA cable connection as shown.



3.1 Easy Network Setup for Remote Live View on Smart Phone/ Pad

The outstanding feature of this DVR is that you do not need to do any complicated network settings to set up the DVR for remote live view on smart phone/pad. In a DHCP typical personal home LAN (Local Area Network), basic steps are as below:



1 Connect the power adapter to the DVR. See "2.2 Connecting the Power" on page 17 for further details.

2 Connect the DVR to network. See "2.8 Connecting to Network" on page 22 for further details.

Note:

To enable remote monitoring, recording, playing, or configuring the setting via KGUARD Web Client or Kview Center software, you still need to configure the network settings and setup port forwarding in Router. See "4.4.1 Network Settings" on page 52 for further details.

3 Download **KViewQR** application on your smart phone/pad. See "6.1 KViewQR" on page 107" for further details.

4 Add the connected DVR by scanning the QR code. Once the router provides IP address to DVR, the Live screen appears.

Note:

- We suggest your smart phone/pad using WIFI, and connecting to the same Router as DVR.
- The default user name and password are:
 - User Name: admin
 - Password: 123456

For system security, we suggest you change the password in DVR to protect your privacy. See "4.7.2 User and Password Settings" on page 67 for further details.

3.2 Upload images to Cloud

You can also setup a cloud storage account and receive snapshots from your DVR. See "4.6.3 Cloud Storage" on page 62 for further details.

At present, your DVR supports the Dropbox cloud storage. Before setting up the cloud storage on the DVR, make sure your Dropbox account has been created and active (Dropbox website: www.dropbox.com) and the Network settings of your DVR has been configured properly, see "4.4.1 Network Settings" on page 52.

3 Check mail box within 3 minutes

to activate Cloud.

1 Main Menu > Device > Cloud Storage 2 Set and active Cloud





4 Success!

3.3 Starting Up

Connect the power adapter to the DVR. See "2.2 Connecting the Power" on page 17 for further details.

3.4 Set Startup Wizard

1 When the Startup Wizard screen appears on the screen, click **Next Step** to continue.



To cancel the Startup Wizard, uncheck the " \checkmark " icon on the checkbox and click **Exit** to close the current menu. The Startup Wizard will not appear after the system reboots.

2 Format the hard disk drive. See "Formatting HDD" on page 60.

| | Hdd Management | | | | | | |
|---------------------------|----------------|--------|------------|-----------|--------|--|--|
| | | | | | | | |
| | No. | State | Free/Total | Free Time | Select | | |
| | 1 | ок | 141G/152G | 49Hour | | | |
| | 2 | No HDD | 0/0 | 0Hour | | | |
| | Overwrite Auto | | | | | | |
| Prev. Step Next Step Exit | | | | | | | |

3 Set the recording schedule. See "4.2 Record Setup" on page 42.

| Record schedule |
|--|
| Channel CH1 🗸 |
| Week Sun. 💌 |
| 00 06 12 18 23 N Image: Copy Sun. Image: Copy Sun. Image: Copy Sun. Image: Copy Sun. |
| Copy CH1 🗸 To All 🔽 Copy |
| |
| Prev. Step Next Step Exit |

4 Set the date, time, OSD language, and video format settings. See "4.7.1 General Settings" on page 65.

| System General Configuration | | | | |
|------------------------------|--------------------|--|--|--|
| Date 04/23/2013 | Time 16:01:22 Save | | | |
| Date Format | MM/DD/YY | | | |
| Time Format | 24Hour 🗸 | | | |
| DST | Setup | | | |
| NTP | Setup | | | |
| Language | ENGLISH 🗸 | | | |
| Video Format | NTSC 🗸 | | | |
| | | | | |
| | | | | |
| | | | | |
| Prev. Step | ext Step Exit | | | |

5 Set the network and email settings. See "4.4.1 Network Settings" on page 52 and "4.4.3 Email Settings" on page 54.

| Network Configuration | | | |
|-------------------------------|--------------------------|--|--|
| Туре | DHCP V Mobile Port 18004 | | |
| Client Port | 09000 | | |
| HTTP Port | 00080 | | |
| IP Address | 192.168.001.100 | | |
| Subnet Mask | SUBNET MASK | | |
| Gateway | GATEWAY. | | |
| DNS 1 | DNS SERVER. | | |
| DNS 2 | 000.000.000 | | |
| Auto Port Forwarding Enable 🗸 | | | |
| | | | |
| Email DDNS Prev. Step Apply | | | |

6 Click **Apply** to save the settings.

7 When the initial setup process is complete, click **OK**.

| Remark | |
|--|--|
| Startup Finished.Please turn off the Startup Wizard in the General Menu.! | |
| OK | |

Note:

To prevent the Wizard Setup screen appears every time the system reboots, set the **StartupWizard** setting to **Disable** in **ADVANCED** menu.

3.5 Shutting Down

To properly turn off the DVR power, do the following:

1 In the preview mode, right-click on the mouse to display the pop-up menu on the bottom of the screen.

2 Select **Main Menu > ADVANCED**, and then click **Shut Down**.

You can also access the main menu by pressing the **MENU** button on the remote control.

| ADVANCED | | | | |
|----------|----------------|----------------------------|--|--|
| Display | Maintain Event | s | | |
| Record | | | | |
| Search | Auto Maintain | | | |
| Network | Reboot | Every Week 💌 Sun. 💌 00:00 | | |
| Alarm | Update Load | d Default Reboot | | |
| Device | Shut Down L | oad Settings Save Settings | | |
| System | | | | |
| Advanced | Default | Apply | | |

3 A warning message appears on the screen, select **OK** to turn off the power.

| ADVANCED | |
|--------------------------------|--|
| Display Maintain Events | |
| StartupWizard Disable | |
| Sea Warning | |
| Net Are you sure to shut down? | |
| | |
| | |
| System | |
| Advanced Default Apply Exit | |

- **4** Wait until the "Now you can unplug the power!" message appears on the screen.
- **5** Turn off the power switch on the back panel of the DVR (for 16-channel DVR only) and then unplug the power cord from the power outlet.

3.6 The Main Screen

3.6.1 Screen Icons

There are four types of recording indicator on the main screen of each channel.



4-window display



8-window display



| lcon | Description | |
|------------|---------------------------------|--|
| Μ | Motion detector is activated. | |
| | Hard disk drive memory is full. | |
| | Cannot detect hard disk drive. | |
| R | Video recording is in progress. | |
| VIDEO LOSS | Video loss. | |



- During recording mode, [] icon or [] icon appears on the screen. If [] icon is displayed on the screen, it indicates that motion detection is enabled.
- If the "VIDEO LOSS" appears on the screen, check the camera connection.

3.6.2 Virtual Keyboard

The virtual keyboard automatically appears on the screen if data entry is required.



3.6.3 Locking the Screen

The screen is locked to protect unauthorized OSD operation. Enter the user name and password before entering the OSD menu.

The default user name and password are: User Name: **admin** Password: **123456**



Enter User Name

Enter Password

For system security, we suggest you change the password on DVR to protect your privacy.

1 In the preview mode, right-click on the mouse to display the Pop-up menu.



3 Click Users tab.

4 Click Edit.

5 If you want to modify the user name, enter desired name in **User Name**.

| SYSTEM | | | | |
|----------|-------------------------|--|--|--|
| Display | General Users Info | | | |
| Record | User Name admin | | | |
| Search | User Name admin | | | |
| Network | Password Enable Disable | | | |
| Alarm | Password Confirm | | | |
| Device | | | | |
| System | | | | |
| Advanced | Default Apply Exit | | | |

6 Click the **Password** box to enter the password. Then, click **Apply**.

7 Click OK.

3.6.4 Pop-up Menu

With the Pop-up menu, you can access to the main menu and other common features. To bring up the Pop-up Menu, click on the right mouse button or press the **MENU** button on the remote control. The available Pop-up menu items vary depending on the current setting or operation.



| No. | Connector | Description |
|--|--|---|
| 1 | 1 Main Menu Access the OSD menu and adjust the DVR settings. | |
| 2 Lock Lock access to enter the OSD menu. You need to type the user before entering the OSD menu. See page 30. | | Lock access to enter the OSD menu. You need to type the user name and password before entering the OSD menu. See page 30. |
| 3 | View 4 | Switch to a 4-window display. See page 34. |
| 4 | View 9 | Switch to a 9-window display. |
| 5 | View 16 | Switch to a 16-window display. |
| 6 | PTZ | Use the PTZ control. See page 36. |
| 7 | Start / Stop Cruise | Start/stop cruise of the PTZ camera. See page 37. |
| 8 | Zoom | Enable zoom. See page 37. |
| 9 | Record Search | Search for recorded videos to play back. See page 45. |
| 10 | Start / Stop Record | Start/stop manual recording. See page 38. |
| 11 | Start / Stop Rotate | Start/stop rotation of channel display. See page 35. |
| 12 | PIP 1x1 | View one channel in full screen with another channel enclosed in a small window. See page 34. |
| 13 | PIP 1x2 | View one channel in full screen with two other channels enclosed in small windows. |
| 14 | Audio | Turn off or turn on the audio. |

3.6.5 On Screen Display (OSD) menu

You can access the OSD menu by one of the following ways:

- Right-click on the mouse and select Main Menu.
- Press the **MENU** button on the remote control, then select **Main Menu**.



Submenu items:

| DISPLAY | DISPLAY | RECORD | RECORD |
|-----------|---|----------|--|
| | Display Output Privacy Zone | | Display REC Para Schedule Record Setup |
| | Record Channel CH1 | | CH CHI |
| | Search Name CH1 | | Record Enable V |
| | Color Setup | | Pre-record Enable V |
| | Covert Disable V | | |
| | Alarm Show Time Enable | | Alarm |
| | Device Record Time Enable | | Device |
| | Copy CH1 V To All V Copy | | System |
| | Advanced Defent Apply | | Advanced Diffs in Caselin Con |
| | Deradit Apply Exit | | Default Apply Exit |
| SFARCH | SEARCH | NFTWORK | NETWORK |
| 02/11/01/ | Display Record Search Event Search Backup Log | | Display Network Remote Stream Email DDNS |
| | CH AIL | | Type Static |
| | Search Replay Time 17:29 Play | | Client Port 09000 |
| | Record State | | HTTP Port 00080 |
| | Apr. 01020304050607080910111213141516 | | Subnet Mask [255.255.000.000] |
| | 22th 00 01 02 03 04 05 06 07 | | Gateway 010.000.000.254 |
| | Device 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | | DNS 1 010.000.000.251 |
| | System | | System ONS 2 000.000.000 ONS 2 |
| | Advanced Event Search Exit | | Advanced Default Apply Exit |
| | | | |
| ALARM | ALARM | DEVICE | DEVICE |
| | Display Motion Alarm | | Display FTZ Cloud Storage |
| | Record CH CH1 CH Enable Enable | | No. State Free/Total Free Time Select |
| | Search Area Setup Sensitivity 4 | | Search 2 No HDD 0/0 0 Hour |
| | Image: Show Message Image: Show Message | | Provide and production |
| | Send Email 🖌 Full Screen | | Alarm Overwrite Auto |
| | Record Channel Post Recording 305 | | Format HDD Format USB |
| | | | |
| | Copy CH1 V To All V Copy | | System |
| | Advanced Default Apply Exit | | Advanced Default Apply Exit |
| | OVOTEN | | |
| SYSTEM | | ADVANCED | |
| | Date 04/22/2013 Time 17:31:05 | | |
| | | | StartupWizard Disable V |
| | Time Format 24Hour | | Auto Maintain Enable 💌 |
| | Network DST Setup | | Network Reboot Every Week V Sun. V 00:00 |
| | Alarm | | Alarm Update Load Default Reboot |
| | Device Video Format NTSC | | Device Shut Down Load Settings Save Settings |
| | System | | 5ystem |
| | Advanced | | |
| | Default Apply Exit | | Deraut Apply Exit |

3.7 Screen Modes

3.7.1 Live View

By default, all channels are displayed on the screen in grid form.



To view the live image of any channel on full screen, simply double-click the left mouse button. Double-click the left mouse button again to return to the window-display of all cameras.



3.7.2 Split Mode

You can customize the 16 channels to be displayed separately on a 4-window or 9-window display or show all 16 channels on the screen.

There are 3 split mode options:

1 In the preview mode, right-click on the mouse to display the pop-up menu.

2 Select one of the following options:



- View 4: Click this icon to view 4 channels at a time. Click again to view the next 4 channels and so on.
- View 9: Click this icon to view 9 channels at a time. Click again to view the next batch of channels.
- View 16: Click this icon to view all 16 channels at a time.

Note:

Options to split windows may vary depending on the DVR model. Split Windows option is not available when **View Setup** is enabled (see "4.1.2 Output Settings" on page 40).

3.7.3 Picture-in-Picture (PIP) Mode

With Picture-in-Picture (PIP) mode, you can watch two more channels to be simultaneously displayed on the first channel live preview.

1 In the preview mode, right-click on the mouse to display the Pop-up menu.

2 Select one of the following options:



- **PIP1X1**: Click this icon to view another channel that will appear a mini-window frame on top of the main channel display.
- **PIP1X2**: Click this icon to view two more channels that will appear on two mini-window frames on top of the main channel display.

3 To move the mini-window around the main screen, click and drag it to a new position.



Second channel

3.7.4 Rotate View

With this function, the system will automatically rotate the display through all the channels and split window display.

To enable rotate view:

1 In the preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Start Rotate.



The rotating display starts. By default, each display switches at 5 seconds interval. You can change the switch rotate time interval in **Display** menu (see "4.1.2 Output Settings" on page 40).

An example of the screen display rotation, as follows (8-channel DVR with 2 available channels):



8-window display

Note:

The displayed screens vary depending on the available channels.

To disable rotate view:

1 Right-click on the mouse to display the Pop-up menu.

2 Select Stop Rotate.



Note:

Rotate function is not available when View Setup is enabled (see "4.1.2 Output Settings" on page 40).

3.8 Using PTZ Controls

If you are using a PTZ speed dome camera, you can configure the PTZ control settings.

1 In the preview mode, right-click on the mouse to display the Pop-up menu.

2 Select PTZ.



Note:

This option is not available if the PTZ camera is in Cruise mode. See "4.6.2 PTZ Setup" on page 61.

3 The PTZ control panel appears on the screen.

Note:

To change the PTZ settings, see "4.6.2 PTZ Setup" on page 61.



| No. | lcon | ltem | Function |
|-----|-----------|--------------------|--|
| 1 | СН1 🛡 | Channel Select | Click to select the channel of the PTZ camera. |
| 2 | | Pointer pan | Click the direction arrow to select the direction of the PTZ camera. Click the middle icon to switch to auto pan mode. |
| | - ZOOM + | Zoom | Click to zoom in/out. |
| 3 | - FOCUS + | Focus | Click to adjust the focus. |
| | – IRIS + | Iris | Click to adjust the iris setting. |
| 4 | - | Time | Set a preset time. |
| 5 | Save | Save | Click to save the settings and preset points. |
| 6 | Clear | Clear | Click to delete the selected preset. |
| 7 | Set | Set Preset Point | Click to set a specific preset point on a PTZ camera. Note: You can set up to 255 preset bits for the DVR. However, the actual preset quantity varies depending on the PTZ camera performance. |
| 8 | Go to | Go to Preset Point | Click to go to a specific preset point. |
| 9 | - | Total | Display the total of preset bit. |
| 10 | - | No. | Set a preset point. |
| 11 | Speed: 31 | Speed | Click to adjust the speed. |
3.8.1 Cruise Mode

Use the Start Cruise function to allow the PTZ camera to start cruising.

1 In the preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Start Cruise.



To disable cruise:

1 Right-click on the mouse to display the Pop-up menu.

2 Select Stop Cruise.

3.9 Zoom

With this function, you can check the details of the live display on the zoomed section.

1 Double-click the mouse button on a channel to view it on full screen.

2 Right-click on the mouse to display the Pop-up menu.

3 Select Zoom.



4 In zoom mode, click and drag the left mouse button to frame an area on the screen that you want to zoom in.

The selected location will be enlarged and displayed as full screen.



Zoom area

Note:

To pan another area on the screen, simply click and drag the frame on the mini-window display.

5 To exit zoom mode, click the right button twice. It returns to live image display mode.

3.10 Manual Recording

With this function, you can manually record the video. The system will continuously record the video until you manually stop the recording.

To enable manual recording:

1 In the preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Start Record.



The video recording starts.

To stop the manual recording:

 ${f 1}$ Right-click on the mouse to display the Pop-up menu.

2 Select Stop Record.

The video recording stops.

Chapter 4: Using the DVR

4.1 Setting the Display

With the **DISPLAY** menu, you can adjust the display settings such as channel type, window position, color, enable live time, set the privacy zone, and other settings. The **DISPLAY** menu is divided into three sections:

- Live: To configure how you want the channel to appear on the live view screen.
- **Output**: To configure the video settings.
- Privacy Zone: To mask areas on your camera as private zones.

4.1.1 Live Settings

1 In the preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > DISPLAY.

3 Modify the necessary settings:

| | DISPLAY | | | |
|----------|--------------------------|------------|--|--|
| | Live Output Privacy Zone | 3 | | |
| Record | Channel | CH1 🗸 | | |
| | Name | СН1 | | |
| Search | Position | U-L 🗸 | | |
| Network | Color | Setup | | |
| | Covert | Disable 🗸 | | |
| Alarm | Show Time | Enable 🗸 | | |
| Device | Record Time | Enable 🗸 | | |
| System | Сору СН1 💌 То . | All 🔽 Copy | | |
| Advanced | Default Appl | y Exit | | |

| Menu item | Description |
|-------------|--|
| Channel | Select the channel that you want to configure. |
| Name | Enter desired channel title to be displayed on the display screen. |
| Position | Set the title position on the screen. Example: U-L (upper left) |
| Color | Adjust image hue, brightness, contrast, and saturation settings. Select Setup to enter the Color submenu. Drag the slider bar to adjust the color item setting. |
| Covert | Select Enable to hide the channel from being displayed on the screen. Select Disable to display the channel in live view. |
| Show Time | Hide or display the current time while viewing the channel in live view. |
| Record Time | Hide or display the recording time while recording. |
| Сору То | Copy the current settings to all channels or one specific channel. Click the arrow to select an option and then click Copy . |

4 After all settings are complete, click Apply.

5 When data saving is complete, click **OK**.

4.1.2 Output Settings

 ${f 1}$ In the preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > DISPLAY, then select the Output tab.

3 Modify the necessary settings:

| DISPLAY | | | | | | | |
|----------|-------------------|---------------------|-----------------------------|--|--|--|--|
| | Live Output Priva | icy Zo | ne | | | | |
| Record | Video Output | LIVE-OUT 🗸 | | | | | |
| | View Setup | /iew Setup Enable 🗸 | | | | | |
| Search | View Mode | Sin | Single 🔽 Define SEQ setting | | | | |
| Network | | ıtion | | | | | |
| Alarm | | | | | | | |
| | Init. DEV | | | | | | |
| Device | Transparency 28 | | | | | | |
| System | | | | | | | |
| Advanced | Default | | pply Exit | | | | |

| Menu item | Description |
|-------------------------------|--|
| Video Output | To set the video output setting of the main monitor used for live view display. |
| View Setup | Select Enable to enable view setup. |
| | Note: When View Setup is enabled, Split Windows function is not available (see "3.7.2 Split Mode" on page 34). |
| View Mode | Select how you want to split the windows, options are: Single, Quad, Nine, Sixteen. |
| | Note: |
| | Sixteen option is only available on 16-channel model. |
| Define SEQ setting | Click Define SEQ setting to set the order of how the channels appear. |
| VGA/HDMI Resolution | Select the output resolution. |
| Init. DEV (Initial Device) | Select where you want to display the OSD menu (BNC Video Out, HDMI, or Auto Detection). |
| Transparency | Slide the bar to adjust the transparency of windows. |

4 After all settings are complete, click **Apply**.

5 When data saving is complete, click **OK**.

4.1.3 Privacy Zone Settings

You can mask up to 4 areas to hide it from being viewed on the screen.

1 In preview mode, right-click on the mouse to display the Pop-up menu.

| 2 Select Main Menu | $\mathbf{\hat{\mathbf{A}}}$ | > DISPLAY, then select the Privacy Zone tab. |
|--------------------|-----------------------------|--|
|--------------------|-----------------------------|--|

| DISPLAY | | | | | | | |
|----------|--------------------------|-----------|--|--|--|--|--|
| | Live Output Privacy Zone | Look 1 | | | | | |
| Record | Channel | СН1 🗸 | | | | | |
| | Privacy Zone | Disable 🗸 | | | | | |
| Search | Area Setup | Area1 | | | | | |
| Network | | Area2 | | | | | |
| | | Area3 🗌 | | | | | |
| Alarm | | Area4 | | | | | |
| Device | Mask Area | Setup | | | | | |
| System | Сору СН1 🔽 То А | NI 🖌 Сору | | | | | |
| Advanced | Default Apply | Exit | | | | | |

3 In **Channel**, select the channel that you want to set the privacy.

4 In Privacy Zone, select Enable.

5 In Area Setup, check the number of areas to mask. You can check Area 1 to Area 4 to create 4 masked areas.

6 Click **Setup**. The green box indicates the area for masking.



7 Drag the box to the area that you want to mask. You can resize the box by dragging the edges to desired size.



Note:

The above illustration is an example of one checked area (Area 1). The number of green boxes depends on how many areas you checked in **Area Setup**.

8 Click the right mouse button to close the Select Mask screen.



Masked area

9 After all settings are complete, click Apply.

10 When data saving is complete, click **OK**.

« TIP »

To copy the privacy zone setting to other channels, select the channel(s) in **Copy To**, then click **Copy**.

4.2 Record Setup

With **RECORD** menu, you can customize the recording settings, set the recording schedule and framerate.

4.2.1 Record Parameter

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu -> RECORD.

3 Modify the necessary settings.



| Menu item | Description | | | |
|------------------|--|--|--|--|
| СН | Select the channel that you want to configure. | | | |
| Record | Enable/Disable record mode. | | | |
| Pack Duration | Set the elapsed time per recording (15 Min/30 Min/45 Min/60 Min). | | | |
| PreRecord | Enable/Disable recording prior to motion detection recording is triggered. | | | |
| Сору То | Copy the current settings to all channels or one specific channel. | | | |

4 After all settings are complete, click **Apply**.

5 When data saving is complete, click **OK**.

4.2.2 Schedule Recording

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select **Main Menu • • RECORD**, then select the **Schedule** tab.

3 On **Channel**, select the channel you want to set the schedule.

4 On **Week**, select the days of the week to implement the schedule.

5 The number labels on top of the grid indicates the time of the day. Click a box to mark the schedule.



(16-Channel Schedule)



- Normal Recording: When the time slot is marked green, the channel performs normal recording for that time slot.
- Motion Recording: When the time slot is marked yellow, the channel records only when motion is detected during that time slot.
- Alarm Recording (for 16-channel only): When the time slot is marked red, the channel records only when the alarm is triggered during that time slot.
- No Record: A time slot marked gray has no recording schedule.

6 To remove a marked schedule, click the box again. The box turns gray.

7 After all settings are complete, click **Apply**.

« TIP »

- To copy the current settings to other days, select the day, then click **Copy**.
- To copy the current settings to other channels, select the channel, then click **Copy**.

8 When data saving is complete, click **OK**.

4.2.3 Record Setup

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > RECORD, then select the Record Setup tab. The Framerate settings are displayed on a table.

| RECORD | | | | | | | |
|----------|--------------------------------|------------|-----------|-----------|-------------|--|--|
| Display | REC Para Schedule Record Setup | | | | | | |
| Record | Mode | 960H 🔽 Tot | al FPS: 6 | 91 Remain | ed FPS: 291 | | |
| | СН | Resolution | FPS | Quality | Audio | | |
| Search | 01 | WCIF 🗸 | 25 🗸 | Good 🔽 | | | |
| | 02 | WCIF 🗸 | 25 🗸 | Good 🔽 | | | |
| Network | 03 | WCIF 🗸 | 25 🗸 | Good 🔽 | | | |
| | 04 | WCIF 🗸 | 25 🗸 | Good 🗸 | | | |
| Alarm | 05 | WCIF 🗸 | 25 🗸 | Good 🔽 | | | |
| | 06 | WCIF 🗸 | 25 🗸 | Good 🗸 | | | |
| Device | 07 | WCIF 🗸 | 25 🗸 | Good 🔽 | ↓ | | |
| | 08 | WCIF 🔽 | 25 🗸 | Good 🔽 | | | |
| System | Сор | y CH1 🗸 | To All | 🖌 Cop | У | | |
| Advanced | | Default | Apply | Exit | | | |

3 On Mode, select the type of record mode. Options are: **D1** or **960H**.

Note:

If the record mode setting is set to 960H, it is recommended to use a 600 TVL or higher resolution camera.

4 Select the channel and adjust the corresponding settings such as Resolution, FPS, and Quality.

Note:

If the frame rate set is over the system limitation, a message is displayed on the screen.

5 Check the **Audio** box to enable audio.

6 After all settings are complete, click **Apply**.

7 When data saving is complete, click **OK**.

« TIP »

To copy the record setup setting to other channels, select the channel(s) in **Copy To**, then click **Copy**.

4.3 Searching Videos

4.3.1 Searching and Playing Videos

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu -> SEARCH.

3 On **CH**, select the channel where you want to search the recorded video, or select **All** to search all channels.

4 Click the **Search Date** box and specify the date where you want to search the recorded video.

| SEARCH | | | | | | | | | |
|----------|---------------------|-------|--------|--------|---------|-------|-------|-------|------|
| Display | Record | Searc | h Ev | ent Se | arch | Backı | up L | og | |
| Record | CH AI | × | | | - — | _ | | | |
| | Search | Date | 04/22/ | 2013 | Sea | rch | | | |
| Search | Replay ⁻ | Time | 17:29 |] Pla | ау | | | | |
| | Record | State | | | | | | | |
| Network | Apr. | 01 02 | 03 04 | 05 06 | 07 08 | 09 10 | 11 12 | 1314 | 1516 |
| Alarm | | 17 18 | 1920 | 21 22 | 23 24 | 25 26 | 27 28 | 29 30 | |
| | 22th | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Device | | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| System | | | | | | | | | |
| Advanced | | | | Eve | ent Sea | arch | Exi | | |

5 Click **Search**. The time slot of the recorded videos are marked on the **Record State** table. Green box means normal recording while a red box means alarm recording.



6 Click a time slot that you want to play.

7 Select the channel(s) to play simultaneously.

| | | _ | SEAR | СН | | | | |
|----------|--------|-------|-------|------------------------|-------------------|-------|------|----|
| Display | Record | Searc | h Eve | nt Sea | rch B | ackup | Log | |
| Record | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Search | | | | | | | | |
| Network | | | | $\mathbf{\nabla}^{12}$ | \mathbf{N}^{13} | 14 | | |
| 🧧 Alarm | | | | | | | | |
| Device | | | | | | | | |
| System | | | | | | | | |
| Advanced | | | Clea | ar | Play | E | E×it | |

« TIP »

- To select all channels, click All.
- To deselect all channels, click **Clear**.

8 Click Play to start playback.

The playback screen varies depending on the number of channels you selected for simultaneous playback. Examples below:

Simultaneous Playback of 8 Channels



Playback Time Frame

9 To play in full screen, click a channel.

Simultaneous Playback of 4 Channels



Playback Time Frame



10 Click the respective button to pause, rewind, fast forward, or mute the sound. To specify the playback time frame, click the sound select one of the available options.

Options: 24 Hours, 2 Hours, 1 Hour, 30 Minutes, and Customize time frame (Click the icon (), and the icon turns red (). Click on the time bar where you desire to start, and click on the time bar again where you desire to end.)

11 To stop the video playback, click **X**.

4.3.2 Trimming Videos

1 Plug a USB device into the USB port of the DVR.

2 In preview mode, right-click on the mouse to display the Pop-up menu.

3 Select Main Menu **SEARCH**.

4 On CH, select the channel where you want to search the recorded video, or select All to search all channels.

5 Click the **Search Date** box and specify the date where you want to search the recorded video.

6 Click Search.

7 Select the channel(s) to play simultaneously and click **Play** to start playback.

8 To play in full screen, click a channel.

9 While playing video in full screen, click the 🔣 icon to start trimming the video clip.



10 To stop trimming the video clip, click the 💹 icon.



11 A confirmation message appears on the screen, select **Backup** to save the file.

| BACKUP CONFIRM |
|-------------------------------|
| From [15:08:01] To [15:08:18] |
| Total files : 1 |
| Total size : 838 KB |
| Are you sure to backup? |
| Backup Cancel |

12 When backup is complete, click **OK** to close the Backup Status screen.

| | Remark |
|-------------------------|--------|
| | |
| | |
| D 1 - 1 1 | |
| Backup completed! | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Note:

Do not remove the USB device while file transferring is in progress.

Replaying Videos by Recording Date and Time

If you are sure of the recording date and time, you can directly specify the recording date and time to replay the video without searching.

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu -> SEARCH.

| | | | SEA | RCH | _ | | | | |
|----------|-------------------------------|------------------|--------|--------|---------|-------|-------|-------|------|
| Display | Record | Searc | h Ev | ent Se | earch | Back | up L | og | |
| Record | CH All Search | ∨ Date | 04/22/ | 2013 |] Sea | rch | | | |
| Search | Replay [·] Record | Time State | 17:29 |] Pla | ау | | | | |
| Network | Apr. | 01 02 | 03 04 | 05 06 | 07 08 | 09 10 | 11 12 | 1314 | 1516 |
| Alarm | | 17 18 | 1920 | 21 22 | 23 24 | 25 26 | 27 28 | 29 30 | |
| | 22th | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Device | | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Sýstem | | | | | | | | | |
| Advanced | | | | Eve | ent Sea | arch | Exi | t | |

3 On **Search Date**, specify the recording date.

4 On **Replay Time**, specify the starting time of the recording to replay.

5 Click Play.

6 Select the channel(s) to play simultaneously.

| | | | SEAR | сн | _ | | | |
|----------|--------|---------|---------|---------|---------|---------|---------|---------|
| Display | Record | Searc | h Eve | nt Sea | rch B | ackup | Log | |
| Record | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Search | | | | | | | | |
| Network | 09 | 10 🔽 | 11 🔽 | 12 🔽 | 13 🔽 | 14 🔽 | 15 🔽 | 16 🗹 |
| 🧧 Alarm | | | | | | | | |
| Device | | | | | | | | |
| System | | | | | | | | |
| Advanced | | | Clea | ar | Play | E | Exit | |

« TIP »

- To select all channels, click All.
- To deselect all channels, click Clear.

7 Click Play to start playback.

4.3.3 Searching Videos by Event

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu SEARCH, click the Event Search tab.

3 On **Search Date**, specify the recording date.

4 On **Search Time**, specify the starting time and the ending time to search for the event.

5 On **CH**, select the channel to search, or select **All** to search all channels.

6 On **TYPE**, select the type of recording to search. Options are: **All**, **Normal** or **Alarm**.

| | SEARCH |
|----------|--|
| Display | Record Search Event Search Backup Log |
| Record | Search Date 04/24/2013 CH: All |
| Search | Search Time 00:00 09:35 TYPE: All 🔽 |
| Network | 03 Normal 13-04-24 08:43:1508:43:33 0.8M |
| Alarm | 03 Alarm 13-04-24 08:50:3908:51:20 2.0M |
| Device | 03 Alarm 13-04-24 08:51:2108:52:20 2.6M |
| System | 03 Alarm 13-04-24 08:54:3608:55:17 1.9M |
| | H 	 H All Inverse |
| Advanced | Search Backup Exit |

7 Click **Search**. The recordings are listed on the table.

Chapter 4: Using the DVR

4.3.4 Backing up Videos

1 Plug a USB device into the USB port of the DVR.

2 In preview mode, right-click on the mouse to display the Pop-up menu.

- **3** Select **Main Menu • SEARCH**, select the **Backup** tab.
- **4** On **Search Date**, specify the recording date.
- 5 On Search Time, specify the starting time and the ending time to filter the search.
- **6** On **CH**, select the channel to search, or select **All** to search all channels.
- 7 On TYPE, select the type of recording. Options are: All, Normal or Alarm.

8 To browse the list, click the control buttons **R · · · ·!**.

- **9** Select the **BAK** boxes of the recordings that you want to backup. A V icon appears on the check box to indicate that the file has been selected.
 - « TIP »
 - To select or deselect all check boxes, click All.
 - To reverse the marked boxes, click Inverse.



10 Click **Backup**. The Backup Status screen appears.



11 When backup is complete, click **OK** to close the Backup Status screen.

Note:

Do not remove the USB device while file transferring is in progress.

4.3.5 Viewing and Exporting Log

1 Plug a USB device into the USB port of the DVR.

2 In preview mode, right-click on the mouse to display the Pop-up menu.

3 Select Main Menu SEARCH, click the Log tab.

4 To view the log files, click **Log**.

5 On **Log Type**, select one of the log types (All/Alarm/Operation).

6 Specify the **Start Time** and **End Time** to filter the list.

7 Click **Search**. All related log files are displayed on the screen.

| | SEARCH |
|----------|---|
| Display | Record Search Event Search Backup Log |
| | Log Type All 🗸 Search |
| Kecora | Start Time: 04/24/2013 End Time: 04/24/2013 |
| Search | TYPE CON. TIME POINT RECORD |
| | ALARM VL 13-04-24 08:43:20 |
| | ALARM VL 13-04-24 08:43:20 |
| Alarm | ALARM VL 13-04-24 08:43:20 |
| | ALARM VL 13-04-24 08:43:20 |
| Device | ALARM VL 13-04-24 08:43:20 |
| | ALARM VL 13-04-24 08:43:20 |
| System | |
| Advanced | Backup Exit |

8 To browse the list, click the control buttons $\mathbf{H} \mathbf{A} \mathbf{P}$.

9 To save the log information, click **Backup**.

10 When saving is complete, click **OK**.

Note:

- The log files are saved in "*.TXT" format.
- Do not remove the USB device while file transferring is in progress.

4.4 Setting the Network

To enable remote monitoring, recording, playing, or configuring the setting via KGUARD Web Client or Kview Center software, you need to configure the network settings and setup port forwarding in Router. Consult your Internet Service Provider (ISP) to determine the type of network connection you are using and the required parameters to complete the setup.

4.4.1 Network Settings

You can use the Network menu to setup how the DVR connects to the network. It provides three network connection options: Static IP, DHCP, and PPPoE.

_ _ _

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > NETWORK.

3 On **Type**, select the type of network connection you are using.

| NEIWORK | NETWUKK |
|--|--|
| Display Network Remote Stream Email DDNS Type DHCP Client Port 09000 Search HTTP Port 00090 Pevice Alarm Alarm Advanced Default Apply Exit | Display Network Remote Stream Email DDNS Type PPPOE ✓ Client Port 09000 HTTP Port 00080 User Name Password Device DNS 1 010.000.000.251 DNS 2 000.000.000 Auto Port Forwarding(UPNP) Disable ▼ Default Apply |
| DCHP: With Dynamic Host Configuration Protocol (DHCP) service, your router will automatically assign an IP address to your computer connected to the network. | PPPoE: The Point-to-Point Protocol over Ethernet (PPPoE) is a network protocol for encapsulating Point-to-Point Protocol (PPP) frames inside Ethernet frames. This network protocol allows the device to be directly connected using a DSL modem. |
| Search HTTP Port 00080 IP Address 010.000.100.187 Subnet Mask 255.255.000.000 Gateway 010.000.000.254 Device DNS 1 DNS 2 000.000.000 Auto Port Forwarding(UPNP) Disable Default Apply Exit Exit | |

4 Specify the **Client Port** and **HTTP Port** numbers.

- Client Port: Specify the port number that the device will use to send DVR command and video stream.
- HTTP Port: Specify the port number that you will use to log in to the device.

Note:

- Obtain these information from your network administrator or your Internet Service Provider (ISP).
- If you cannot use the either of the two default ports, 80 or 9000, the specified port may be occupied by other programs or it is being blocked by your service provider. Enter other port number. In this case, you need to add the port number after the IP address. For example, if you set the **HTTP Port** as 85, you need to enter the IP address as "192.168.3.103:85".

5 Enter other parameter settings (if applicable).

- If your network connection is **Static**, specify the static IP address, Subnet Mask, Gateway, and DNS 1/DNS 2 IP addresses.
- If your network connection is **PPPoE**, enter the User Name and Password that you setup with your DSL service provider. Then, specify the DNS 1/DNS 2 IP addresses.

Note:

The system supports two DNS server input options: DNS Server1 for main server and DNS Server2 for sub server. Please contact your local ISP (Internet Service Provider) to obtain the correct DNS Server parameter.

6 To enable Auto Port Forwarding (UPNP) feature, select Enable.

Note:

Not all routers support the Auto Port Forwarding feature. If this function does not work, you must manually open the ports in your router.

7 After all settings are complete, click **Apply**.

8 When data saving is complete, click OK.

4.4.2 Remote Stream Setup

The Remote Stream page allows you to enable or disable video output of a particular channel if the channel is being viewed via remote access.

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > NETWORK, select the Remote Stream tab. The remote stream framerate settings are displayed on a table.

| | | NETWO | RK | | |
|-----------|---------|-------------|--------|-------------------------|-------|
| Display | Network | Remote Stre | am Er | nail DDNS | |
| | СН | Video | FPS | Quality | Audio |
| Ne Record | 01 | Enable 🗸 | 5 🗸 | Good 🗸 | |
| Search | 02 | Enable 🗸 | 5 🗸 | Good 🔽 | |
| | 03 | Enable 🗸 | 5 🗸 | Good 🔽 | |
| Network | 04 | Enable 🗸 | 5 🗸 | Good 🔽 | |
| | 05 | Enable 🗸 | 5 🗸 | Good 🔽 | |
| 🧧 Alarm | 06 | Enable 🗸 | 5 🗸 | Good 🔽 | |
| | 07 | Enable 🗸 | 5 🗸 | Good 🔽 | • |
| Device | 08 | Enable 🗸 | 5 🗸 | Good 🔽 | |
| System | Сору | / CH1 🗸 | To All | Cop | y. |
| Advanced | | Default | Apply | E×it | |

- **3** Select the channel and adjust the corresponding settings such as **Video**, **FPS**, and **Quality**.
- 4 Check the Audio box to enable audio.
- **5** To copy the current settings to all channels or one specific channel. Click the arrow on **Copy** and **To** to select an option and then click **Copy**.

7 When data saving is complete, click OK.

4.4.3 Email Settings

The DVR supports sending of email notifications when events occur, such as when motion is detected or the HDD fails at the specified channel, day, and time.

Note:

Be sure that the DVR network connection is properly configured before proceeding with the email setup.

To set up email, do the following:

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select **Main Menu > NETWORK**, select the **Email** tab.

3 On Email, select Enable.

- **4** Click **Schedule** to implement the email schedule. For details, refer to "Email Schedule Setup" on page 55.
- **5** On **SSL**, select the **Enable** check box if your email server needs the SSL verification. Check with your email service provider for the applicable setting.

| | NETV | VORK | | |
|----------|----------------|------------------------|--|--|
| Display | Network Remote | Stream Email DDNS | | |
| Record | Email | Enable 🔽 Schedule | | |
| Search | SSL | | | |
| Search | SMTP Port | 00025 | | |
| Network | SMTP Server | ms1.kguardsecurity.com | | |
| Alarm | Sender Email | user@mail.com | | |
| | Sender PWD | ***** | | |
| Device | Receiver Email | | | |
| System | Interval | 3Min 💌 | | |
| Advanced | Email Test | Default Apply Exit | | |

6 Enter the SMTP port and SMTP Server of the sending email server, the email address and password of the sender in Sender Email and Sender PWD respectively.

Note:

By default, the SMTP port is 25 for email without SSL verification. For Gmail server or for email that needs SSL verification, the SMTP port is 465, by default. Check with your ISP for the correct setting.

- 7 In Receiver Email, enter the email address where the notification email is to be sent. In Interval, select an email sending interval.
- **8** After all settings are complete, click **Apply**.
- **9** When data saving is complete, click **OK**.

Email Schedule Setup

Set the email notification to be sent at the specified time.

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > NETWORK, select the Email tab.

- 3 Click Schedule.
- **4** On **Channel**, select the channel you want to set the schedule.

5 On **Week**, select the days of the week to implement the schedule.

6 The number labels on top of the grid indicates the time of the day. Click a box to mark the schedule.

| | NETWORK | | |
|----------|-----------------------|---------------------|-----------------|
| Display | Network Remote Stream | Email DDNS | |
| Record | Channel | CH1 V | |
| Search | 00 06 | 12 18 23 | Slot for Motion |
| Network | | | Slot for Alarm |
| Alarm | M-Motion A-Alarm | Exception No Record | |
| Device | Copy Sun. 💌 To | АШ 🖌 Сору | |
| System | Сору СН1 🗸 То | All 💌 Copy | |
| Advanced | Default | Apply | |

Note:

Alarm is only available for 16-channel model.

7 To remove a marked schedule, click the box again. The box turns gray.

8 After all settings are complete, click **Apply**.

« TIP »

- To copy the current settings to other days, select the day, then click **Copy**.
- To copy the current settings to other channels, select the channel, then click **Copy**.

9 When data saving is complete, click **OK**.

4.4.4 DDNS Settings

DDNS (Dynamic DNS) is a service that registers a domain name and the floating IP address with a DDNS server so that the domain name can be routed to the IP address even if the IP is changed in a dynamic IP system.

To use this feature, you must have a DDNS account. Consult with your Internet Service Provider for this service or create a DDNS account with KGUARD.org server, see <u>http://www.kguard.org</u>.

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > NETWORK, select the DDNS tab.

3 Set DDNS to Enable.

| | NETV | VORK | |
|----------|----------------|-------------------|------|
| Display | Network Remote | Stream Email DDNS | |
| Record | DDNS | Disable | ~ |
| Convet | Server | KGUARD.ORG | ~ |
| Search | Host Name | | |
| Network | User Name | | |
| Alarm | Password | | |
| Device | | | |
| System | | | |
| Advanced | | Default Apply | E×it |

4 On Server, select the DDNS server.

5 On Host Name, enter the domain name you registered on DDNS server.

Note:

If the registered domain name is 123ABC.KGUARD.ORG, the IP address you type on IE or Safari when you browse Kguard Web Client is http://123ABC.KGUARD.ORG.

- 6 Enter the DDNS User Name and Password.
- 7 After all settings are complete, click Apply.
- 8 When data saving is complete, click OK.

Note:

To apply for a free DDNS account on <u>http://www.kguard.org</u>.

4.5 Setting Alarms

On the alarm menu, you can configure the motion detection and the alarm notification settings.

4.5.1 Motion Detection Alarm Settings

For added security, enable the motion detection feature. When motion is detected on a selected area, the DVR issues an alarm notification. To set the motion detection alarm, do the following:

1 In preview mode, right-click on the mouse to display the Pop-up menu.

| 2 Select Main Menu | > ALARM | • |
|--------------------|---------|---|
|--------------------|---------|---|

| | | ALARM | | |
|----------|----------|--------------------------|-------------|-------------------|
| Display | Motion | | | |
| Record | СН | CH1 🗸 | Enable | Enable 🗸 |
| Search | Area | Setup | Sensitivity | 4 💌 |
| Network | Show Me | ssage 🔽 | Buzzer | OFF 🔽 |
| Alarm | Send Em | ail 🔽 | Full Screen | |
| Device | Record C | hannel 03 04 05 06 07 | Post Record | ing 305 🗸 |
| System | Сору С | H1 🗸 To Al | l 💌 Cop | У |
| Advanced | De | fault App | oly E> | <it< th=""></it<> |

3 Modify the necessary settings:

| Menu item | Description |
|-------------------|--|
| Channel | Select the channel to set motion detection. |
| Enable | Select Enable to enable motion detection alarm for the channel. |
| Area | Click Setup to select the area for motion detection alarm. See "Set Motion Detection Area" on page 58. |
| Sensitivity | Select the motion detection sensitivity rate. Options are : 1^{8} , wherein "8" is the most sensitive and "1" is the least sensitive. |
| Show Message | Check the box to display a message on screen when the alarm is triggered. |
| Buzzer | Set the buzzer duration when motion is detected (Off/10 S/20 S/40 S/60 S). To disable buzzer, select Off . |
| Send Email | Check to enable email alarm notification. If the function is enabled, the system will send the alarm images to the specified email address. See "4.4.3 Email Settings" on page 54. |
| Full Screen | Check the box to enable this function. If this function is enabled and the alarm is triggered, the corresponding channel will be displayed in full screen. Select the screen display duration (1 S/3 S/5 S/7 S/10 S) |
| Record Channel | Check the box to enable recording and then select the channels to record when the alarm is triggered. |
| Post Recording | Select the post-recording duration. |

4 Click Apply.

5 When data saving is complete, click **OK**.

« TIP »

- To copy the current settings to other channels, select the channel, then click **Copy**.
- To revert to the default alarm settings, click **Default**.

6 When data saving is complete, click **OK**.

Set Motion Detection Area

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > ALARM.

3 Click Setup.

4 A grid screen with a green cursor appears. By default, the whole screen is marked for motion detection (red block). If you want to disable motion detection on an area, click the grid cursor and then drag the mouse to highlight the scope to unmark the area (transparent block) for motion detection.

| الوابية بالمالي المالي والوالي والمالي والمالي والمالي والمالي والمالي والمالي والمالي والمالي والما | |
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5 To close the grid screen, click the right mouse button.

6 After all settings are complete, click **Apply**.

7 When data saving is complete, click **OK**.

When motion detection is enabled on a channel, the channel screen displays the motion detection icon M.

« TIP »

To copy the current settings to other channels, select the channel(s) in **Copy To** and then click **Copy**.

4.5.2 Other Alarm Settings (16-Channel only)

For 16-channel DVRs with a connected alarm device, do the following to set up the alarm settings:

 ${\bf 1}$ In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu 🕜 > ALARM, select the Alarm tab.

| | ALARM |
|----------|--|
| Display | Motion Alarm |
| Record | Alarm In CH1 🗸 Alarm Type NO 🔽 |
| Correla | Alarm Out 📃 Dwell Time 10S 🗸 |
| Search | Show Message 🖌 Buzzer OFF 🗸 |
| Network | Send Email 💟 Full Screen 🗌 |
| Alarm | Record Channel Post Recording 30S Image: Control of the second secon |
| Device | Copy CH1 V To All V Copy |
| System | |
| Advanced | Default Apply Exit |

3 Modify the necessary settings:

| Menu item | Description |
|-------------------|--|
| Alarm In | Select the channel that will trigger the alarm. |
| Alarm Type | Select the alarm type: NO (Normal-Open), NC (Normal-Close), or OFF. |
| Alarm Out | If an alarm device is connected, check the box to make the device sound the alarm when triggered. |
| Dwell Time | Select the alarm sound duration of the I/O alarm device (10S/20S/40S/60S) then check to apply the setting to each alarm type. |
| Show Message | Check the box to display a message on screen when the alarm is triggered. |
| Buzzer | Set the buzzer duration when the alarm is triggered (Off/10 S/20 S/40 S/60 S). To disable buzzer, select Off . |
| Send Email | Check to enable email alarm notification. If the function is enabled, the system will send the alarm images to the specified email address. See "4.4.3 Email Settings" on page 54. |
| Full Screen | Check the box to enable this function. If this function is enabled and the alarm is triggered, the corresponding channel will be displayed in full screen. Select the screen display duration (1 S/3 S/5 S/7 S/10 S) |
| Record Channel | Check the box to enable recording and then select the channels to record when the alarm is triggered. |
| Post Recording | Select the post-recording duration. |

4 Click Apply.

5 When data saving is complete, click **OK**.

« TIP »

- To copy the current settings to other channels, select the channel, then click **Copy**.
- To revert to the default alarm settings, click **Default**.

6 When data saving is complete, click OK.

4.6 Setting the Device

4.6.1 Storage Device Setup

To ensure the hard disk drive is properly set, it is important to configure the hard disk drive settings before its initial usage. For other external hard drive and USB device, it is recommended to format those devices before their initial usage.

Setting HDD

To set up the hard disk drive, do the following:

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > DEVICE.

| | | DEV | CE | | |
|----------|------|------------|------------|-----------|--------|
| Display | HDD | PTZ Clou | d Storage | | |
| Record | No. | State | Free/Total | Free Time | Select |
| Correb | 1 | ок | 139G/152G | 36Hour | |
| Search | 2 | No HDD | 0/0 | 0Hour | |
| Network | | | | | |
| 🧧 Alarm | Over | write Auto | - | | |
| Device | Forr | nat HDD Fo | ormat USB | | |
| System | | | | | |
| Advanced | | Default | Apply | E×it | |

- **3** Select the hard disk drive that you want to configure. A V icon appears on the check box to indicate that the HDD has been selected.
- **4** On **Overwrite**, select an overwrite interval options (Auto/1 Hour/3 Hours/1 Day/7 Days/30 Days/90 Days/Close).

Note:

If the overwrite is set to **Close**, the recording will stop once the hard disk drive is full.

5 After all settings are complete, click **Apply**.

6 When data saving is complete, click OK.

Formatting HDD

After a new hard disk drive is properly installed in the DVR, the system automatically detects the HDD and prompts for disk formatting.

To format the hard disk drive, do the following:

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > DEVICE.

3 Select the hard disk drive that you want to format.

4 Click Format HDD.

5 An "All data will be deleted after formatting" warning message appears on the screen. Click **OK** to proceed.

6 When the formatting process is complete, click **OK**.

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Formatting USB drive

To format the USB disk drive, do the following:

1 Plug a USB device into the USB port of the DVR.

2 In preview mode, right-click on the mouse to display the Pop-up menu.

3 Select Main Menu **> DEVICE**.

4 Click Format USB.

5 An "All data will be deleted after formatted" warning message appears on the screen. Click **OK** to proceed.

6 When the formatting process is complete, click **OK**.

Note:

Do not remove the USB device while drive formatting is in progress.

4.6.2 PTZ Setup

After the PTZ speed dome is properly installed via RS-485 connection, you can customize its settings using the PTZ SETUP menu.

To set up the PTZ camera setting, do the following:

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select **Main Menu > DEVICE**, select the **PTZ** tab.

3 Select the channel which the PTZ camera is connected to.

4 Set the PTZ Protocol, Baudrate, Data BIT, Stop BIT, Parity, Address code.

5 Enable or disable **Cruise** mode.



6 After all settings are complete, click **Apply**.

« TIP »

To copy the current settings to other channels, select the channel(s) in Copy To and then click Copy.

7 When data saving is complete, click **OK**.

Note:

The PTZ camera can only be activated when a connected channel with the PTZ camera is selected.

4.6.3 Cloud Storage

You can use the Cloud Storage menu to setup a cloud storage account and receive snapshots from your DVR.

Note:

At present, your DVR supports the Dropbox cloud storage. Before setting up the cloud storage on the DVR, make sure your Dropbox account has been created and active (Dropbox website: www.dropbox.com) and the Network settings of your DVR has been configured properly, see "4.4.1 Network Settings" on page 52.

Enabling Cloud Storage

To enable the cloud storage setting, do the following:

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > DEVICE, select the Cloud Storage tab.

3 On Cloud Storage, select Enable.

4 Check the channels to upload the channel snapshots.

5 On Interval, select the interval time between uploading snapshots to the cloud storage.

6 Enable **Motion Detection** if you want the DVR to upload snapshots when motion is detected.

7 In Drive Name, enter a cloud storage name for your DVR.

8 In **Receiver Email**, type your e-mail account to receive the cloud storage activation link.

| DEVICE | | | | | | | | |
|----------|------------------|-----------------------|--|--|--|--|--|--|
| Display | HDD PTZ Clou | id Storage | | | | | | |
| Record | Cloud Storage | Enable 🗸 | | | | | | |
| | Channel | | | | | | | |
| Search | 01020304050 | 6 07 08 | | | | | | |
| | Time Trigger | 1 Min 💌 | | | | | | |
| | Motion Detection | Disable 🗸 | | | | | | |
| 🧧 Alarm | Drive Name | | | | | | | |
| | Receiver Email | xxxx@mail.com | | | | | | |
| | Activate Cloud | Advanced E-mail Setup | | | | | | |
| System | | | | | | | | |
| Advanced | Default | Apply Exit | | | | | | |

9 After all settings are complete, click **Apply**.

Activate Cloud Storage

Every time the cloud storage account is changed or HDD is formatted, you must activate the account again to recognize the changes.

To activate the cloud storage setting, do the following:

1 On the CLOUD STORAGE screen, click **Activate Cloud**. An activation e-mail will be sent to the Receiver e-mail account.



2 Click OK to continue.

Note:

- An e-mail will be sent to the Receiver e-mail account after clicking **Activate Cloud**. You must check your e-mail and follow the link to complete cloud storage activation within 3 minutes.
- If below message appears on the screen, please check if network is configured properly and receiver email address is correct. If receiver email is still not working, click Advanced E-mail Setup to configure your email settings. See "4.4.3 Email Settings" on page 54.



3 Open your email and click **Activate Cloud**.

| | jit View Tools Message Help | 4 |
|-----------------------------------|---|---|
| See ly | Bank All Forward Drint Dalata Draving Next Addresser | |
| From: Date: To: Subject: | Nocodgemail.com Wednesday, June 05, 2013 9:46 AM Jocodgemail.com Testing E-mail | |
| | | |
| | KGUARD | |
| | Hi Dear, | |
| | Please click on the following link to complete your setup for Cloud Storage at Dropbox. | |
| | Activate Cloud | |
| | The snapshot taken at set interval or by motion detection will be sent and stored automatically at Dropbox where you can easily access to and share the snapshot with others! | |
| | - Your KGUARD Team | |
| | | |

4 Follow the on-screen instructions to complete the cloud account activation. After the account activation is complete, the snapshot taken at the preset time interval or by motion detection will be uploaded and stored automatically at Dropbox.

4.7 System Settings

On the SYSTEM menu, you can configure the date and time, user and password, video output, on screen display language, and view the system information.

4.7.1 General Settings

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > SYSTEM.



3 Modify the necessary settings.

| Menu item | Description |
|---------------|--|
| Date | Set the system date. |
| System Time | Set the system time. |
| Date Format | Select the date format. |
| Time Format | Select the time format. |
| DST | Click Setup to use Daylight Saving Time. See "Setting Daylight Saving Time" on page 66. |
| NTP | Click Setup to synchronize date and time with an NTP server. See "Synchronizing Time with NTP Server" on page 65 below. |
| Language | Select the menu language. |
| Video Format | Select the video format in your location: NTSC or PAL. |
| Menu Timeouts | Select the menu time out. |

4 After all settings are complete, click Apply.

5 When data saving is complete, click **OK**.

Synchronizing Time with NTP Server

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > SYSTEM.

3 In NTP, click Setup.

| | SYSTE | EM | |
|----------|--------------------|--------------|----------|
| Display | General Users Info | | |
| Record | Enable | Disable | ~ |
| Courteb | Server Address | pool.ntp.org | ~ |
| Search | Time Zone | GMT+08:00 | ~ |
| Network | | | |
| 🧧 Alarm | | | |
| Device | | | |
| System | | | |
| Advanced | Default | Apply Exi | |

4 On Enable, select Enable to allow the system to synchronize with an NTP server.

5 On Server Address, select the NTP server.

6 Select the **Time Zone** in your location.

7 Click Apply to save the settings.

Setting Daylight Saving Time

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu -> SYSTEM.

3 In DST, click Setup.

| | SYSTEM | | | | | |
|----------|----------------------|------------------|--|--|--|--|
| Display | General Users Info | | | | | |
| Record | DST | Disable 🗸 | | | | |
| | Time Offset | 1Hour 🗸 | | | | |
| Search | Daylight Saving Time | Week 🐱 | | | | |
| Network | Start Time: Mar. 🗸 | End Time: Nov. 🗸 | | | | |
| | The 2nd 🗸 | The 1st 🐱 | | | | |
| Alarm | Sun. 🗸 | Sun. 🗸 | | | | |
| Device | 02:00:00 | 02:00:00 | | | | |
| System | | | | | | |
| Advanced | Default Apply | / Exit | | | | |

4 In Daylight Saving Time, select Enable.

5 In Time Offset, select the amount of time to offset for DST.

6 Select the Daylight Saving Time Mode.

- Week: Enter the Start Time and End Time information by selecting the starting/ending month, week, day, and entering the starting/ending time.
- Date: Enter the Start Time and End Time information by entering the starting/ending date and time.

| | SYSTEM | | | | | |
|----------|------------------------|----------------------|--|--|--|--|
| Display | General Users Info | | | | | |
| Record | DST | Disable 🗸 | | | | |
| | Time Offset | 1Hour 🗸 | | | | |
| Search | Daylight Saving Time | Date 🗸 | | | | |
| | Start Time: 01/01/2010 | End Time: 01/01/2010 | | | | |
| Network | 02:00:00 | 02:00:00 | | | | |
| Alarm | | · <u> </u> | | | | |
| Device | | | | | | |
| System | | | | | | |
| Advanced | Default Appl | y E×it | | | | |

7 After all settings are complete, click Apply.

8 When data saving is complete, click **OK**.

4.7.2 User and Password Settings

The Users page allows you to change the password and authorize users and set the access rights in using the DVR. There is one administrator account and 6 user accounts. By default, the administrator account's user name is "admin" and the password is 123456. We suggest you change the password to protect your privacy. Only the administrator account is enabled by default. To grant other user to access, see "Authorizing Other Users" on page 69.

Changing the Password

To protect your account, modify your password.

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu SYSTEM, select the Users tab.

 $\mathbf{3}$ Click the check box of the account to change the password. A \vee icon appears.

| SYSTEM | | | | | | | | | | | |
|----------|--------|---------------|-------|---------|-----|--|--|--|--|--|--|
| Display | Genera | al Users Info | | | | | | | | | |
| Record | No. | User Name | LEVEL | ENABLE | SEL | | | | | | |
| | 1 | admin | ADMIN | ENABLE | | | | | | | |
| Search | 2 | user1 | USER1 | DISABLE | | | | | | | |
| | 3 | user2 | USER2 | DISABLE | | | | | | | |
| | 4 | user3 | USER3 | DISABLE | | | | | | | |
| 🧧 Alarm | 5 | user4 | USER4 | DISABLE | | | | | | | |
| | 6 | user5 | USER5 | DISABLE | | | | | | | |
| | 7 | user6 | USER6 | DISABLE | | | | | | | |
| System | | | | | | | | | | | |
| Advanced | | Edit | | Exit | | | | | | | |

4 Click Edit.

| SYSTEM | | | | | | | | | | | | | | | |
|----------|---------------------|------|------|------|------|---|----------|-----|---|---|----|---|----------------|-----|--|
| Display | General Users Info | | | | | | | | | | | | | | |
| Record | | User | Narr | ne | | | adn | nin | | | | | | | |
| Search | | User | Nam | ne | | | adn | nin | |] | | | | | |
| Network | | Pass | vorc | l En | able | ÷ | Enable 🗸 | | | | | | | | |
| Alarm | Password Confirm | | | | | | | | | | | | | | |
| Device | | | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | - - | | |
| System | | q | w | е | r | t | У | u | i | 0 | р | [|] | 1 | |
| | | a | s | d | f | g | h | j | k | Ι | ; | : | En | ter | |
| Advanced | | Sh | ift | z | × | с | v | b | n | m | , | @ | 1 | | |
| | | - FS | ŝC | 1 | | | - | + | 1 | # | \$ | % | & | * | |

- 5 If you want to modify the user name, enter desired name in User Name.
- **6** Click the **Password** box to enter the password (see "3.6.2 Virtual Keyboard" on page 30 for details on using the virtual keyboard).

Note:

The password must be 6 numbers in length.

- 7 In **Confirm**, enter the password again.
- **8** After all settings are complete, click **Apply**.
- **9** When data saving is complete, click **OK**.

Configuring Other Users

Only the administrator can enable or disable a user account.

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu SYSTEM, select the Users tab.

3 Click the check box of a user account. A \vee icon appears.

- 4 Click Edit.
- 5 Enter the User Name (see "3.6.2 Virtual Keyboard" on page 30 for details on using the virtual keyboard).

6 To prompt for password, select **Enable** in **Password Status**.

7 Enter the password in Password and Confirm.

8 After all settings are complete, click Apply.

9 When data saving is complete, click **OK**.

Authorizing Other Users

Only the administrator can grant access rights to users. To set the access rights, you must login using an administrator account, and then do the following:

- **1** In preview mode, right-click on the mouse to display the Pop-up menu.
- 2 Select Main Menu SYSTEM, select the Users tab.
- **3** Click the check box of a user account. A ν icon appears.
- 4 Click Permission.



5 Select the check box of the corresponding menu that you want to allow the user to access.

« TIP »

Click All to check all options or click Clear to deselect all options.

- **6** After all settings are complete, click **Apply**.
- 7 When data saving is complete, click **OK**.

4.7.3 View System Info

The Version page allows you to configure the device name and ID, as well as view the MAC address, firmware version and other system information.

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu SYSTEM, select the Info tab.



| Menu Item | Description |
|----------------------|--|
| Device Name | Enter desired name for the DVR. The name can be composed of alphanumeric characters. See "3.6.2 Virtual Keyboard" on page 30 for details on using the virtual keyboard. |
| Device ID | Enter desired ID for the DVR. The device ID, used to identify the DVR, can only be composed of numbers and cannot be the same with other IDs when multiple DVRs are connected in the same network. |
| Device Type | Displays the model type of the DVR. |
| Hardware Version | Displays the hardware version of the DVR. |
| Software Version | Displays the current software version of the DVR. |
| IE Client Version | Displays the current software version of the web client interface. |
| MAC Address | Displays the MAC address of the DVR. When multiple DVRs are connected to the same network, each DVR must have a unique MAC address to ensure that the DVR can connect to the network. |
| DVRID | Displays DVR ID of the DVR. This is also the QR code of this DVR. |

3 Modify the **Device Name** and **Device ID**, if necessary.

4 Click Apply to save the settings.

5 When data saving is complete, click **OK**.

4.8 Advanced Settings

The Maintain page allows you to set automatic system maintenance, load factory defaults, update the firmware settings, or reboot and power off the DVR manually.

4.8.1 Maintenance Settings

Manual Reboot and Power Off

To reboot or power off the DVR instantly, do the following:

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu -> ADVANCED.

| ADVANCED | | | | |
|----------|-----------------|---------------------------|--|--|
| Display | Maintain Events | | | |
| Record | Startup\//izard | Disable 🗸 | | |
| Search | Auto Maintain | | | |
| Network | Reboot | Every Week 💌 Sun. 💌 00:00 | | |
| 🧧 Alarm | Update Load | Default Reboot | | |
| Device | Shut Down Lo: | ad Settings Save Settings | | |
| System | | | | |
| Advanced | Default | Apply Exit | | |

3 Do one of the following:

- Click **Shut Down** to turn off the DVR.
- Click **Reboot** to reboot the DVR.

4 A message appears, click **OK** to confirm the operation.

| | ADVANCED | _ |
|---|--------------------------------|---|
| | Display Maintain Events | |
| | Record StartupWizard Disable - | |
| 0 | Sea Warning [–] | |
| | Net Are you sure to shut down? |] |
| | | |
| | Dev | |
| | System | |
| đ | Advanced Default Apply Exit | |

Note:

When turning off the DVR, wait for the message "Now you can unplug the power!" to appear on the screen, turn off the power switch (for 16-channel DVR only) and then unplug the power cord from the power outlet.

Disable Startup Wizard

To prevent the Wizard Setup screen appears every time the system reboots, please disable StartupWizard here.

- **1** In preview mode, right-click on the mouse to display the Pop-up menu.
- 2 Select Main Menu > ADVANCED.
- 3 Click Maintain tab.
- 4 Set StartupWizard to Disable.

| ADVANCED | | | | |
|----------|---------------------------------------|--|--|--|
| Display | Maintain Events | | | |
| Record | | | | |
| Search | Auto Maintain | | | |
| Network | Reboot Every Week Sun. V 00:00 | | | |
| 🦉 Alarm | Update Load Default Reboot | | | |
| Device | Shut Down Load Settings Save Settings | | | |
| System | | | | |
| Advanced | Default Apply Exit | | | |

5 Click Apply.

6 Click OK.

Set Auto Maintenance

Use this feature to automatically reboot the DVR on a specified schedule. When the DVR reboots, all settings and data are refreshed from the memory, which optimizes the DVR performance.

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > SYSTEM > MAINTAIN.

3 Set Auto Maintain to Enable.

4 In **Reboot**, select the frequency to reboot the DVR. Options are:

- **Everyday**: Reboots the DVR on a daily basis. If this option is selected, specify the time you want to reboot the DVR.
- Every Week: Reboots the DVR on a weekly basis. If this option is selected, specify the day of the week and the time to reboot the DVR.



• Every Month: Reboots the DVR on a monthly basis. If this option is selected, specify the date (1 to 31) and the time to reboot the DVR.

Note:

The illustration above is an example of auto reboot set to **Every Week**. The available fields vary depending on the selected **Reboot** options.

- **5** After all settings are complete, click **Apply**.
- **6** When data saving is complete, click **OK**.
« TIP »

To restore the maintenance schedule to default setting, click **Default** at the bottom of the screen.

Update System Firmware

Use this feature to update the firmware with the latest version.

- 1 Check for available updates and download the firmware folder named "dvrupgrade".
- **2** Save the "dvrupgrade" folder in a USB flash drive.
- **3** Insert the USB flash drive into a USB port of the DVR.
- **4** In preview mode, right-click on the mouse to display the Pop-up menu.
- **5** Select Main Menu > ADVANCED.
- 6 Click Update.
- **7** Follow the instructions on the screen to complete the update.

Warning:

Do not turn off the power or unplug from the power supply while updating.

Load Default Settings

Use this feature to restore the factory default settings of the DVR.

1 In preview mode, right-click on the mouse to display the Pop-up menu.

- 2 Select Main Menu -> ADVANCED.
- 3 Click Load Default.
- **4** Check the check box of the settings that you want to restore.



« TIP »

- To restore all settings, click All.
- To deselect all checked boxes, click Clear.
- To cancel, click Cancel.

5 After all settings are complete, click **Apply**.

6 A warning message appears, click **OK** to confirm.

7 When data saving is complete, click **OK**.

Save System Settings

Use this feature to save the DVR current settings.

- $\boldsymbol{1}$ Insert the USB flash drive into a USB port of the DVR.
- **2** In preview mode, right-click on the mouse to display the Pop-up menu.
- **3** Select Main Menu > ADVANCED.
- 4 Click Save Settings.
- **5** When data exporting is complete, click **OK**.



Note:

Do not remove the USB device while file transferring is in progress.

Load System Settings

Use this feature to import the settings stored in the USB flash drive.

- **1** Insert the USB flash drive into a USB port of the DVR.
- **2** In preview mode, right-click on the mouse to display the Pop-up menu.
- **3** Select Main Menu > ADVANCED.
- 4 Click Load Settings.
- **5** When data importing is complete, the system will automatically reboot.



4.8.2 Events Settings

The Events page allows you to define the type of events for the DVR to issue an alarm.

1 In preview mode, right-click on the mouse to display the Pop-up menu.

2 Select Main Menu > ADVANCED, select the Events tab.

| | ADVANCED |
|----------|-----------------------------|
| Display | Maintain Events |
| Record | Event Type Disk Full 🔽 |
| | Enable 🔽 |
| Search | AlarmOut Dwell Time 10S 🗸 |
| | Show Message 🔽 Buzzer 10S 💌 |
| | Send Email |
| Alarm | |
| Device | |
| System | |
| Advanced | Default Apply Exit |

3 Modify the necessary settings.

| Menu Item | Description |
|-----------------|---|
| Event Type | Select the event type. Options are: |
| | Disk Full: When HDD is full. Disk Error: If HDD is not detected properly. Video Loss: If camera is not detected properly. |
| Enable | Select Enable to issue a notification when the event type occurs. |
| AlarmOut | If an alarm device is connected, check the box to make the device sound the alarm when the event occurs. |
| Dwell Time | Select the alarm duration (10S/20S/40S/60S). |
| Show Message | Check the box to display a message on the screen when the event occurs. |
| Buzzer | Set the buzzer duration when the event occurs (Off/10 S/20 S/40 S/60 S). To disable buzzer, select Off . |
| Send Email | Check to enable email alarm notification. If the function is enabled, the system will send the alarm to the specified email address. See "4.4.3 Email Settings" on page 54. |

- 4 After all settings are complete, click Apply.
- **5** A warning message appears, click **OK** to confirm.
- **6** When data saving is complete, click **OK**.

Chapter 5: KGUARD Web Client

Use KGUARD Web Client to remotely access the DVR at anytime.

To access KGUARD Web Client you must ensure the following requirements are met:

- The Network settings of the DVR is properly configured. See "4.4 Setting the Network" on page 52.
- Your computer has a web browser, such as Internet Explorer or Safari, installed.

5.1 Login

KGUARD Web Client allows up to 3 simultaneous access. However, only one administrator account is allowed per access.

1 Open your computer web browser and enter the DVR IP address or domain name in the URL box. For example, see illustration below:



🖄 Don't know the IP Address of your DVR?

The IP address of the DVR vary depending on the network settings you configured in NETWORK menu (see "4.4 Setting the Network" on page 52).

- If your network type is DHCP, ask your network administrator for the IP address assigned to the DVR.
- If your network type is PPPoE, ask your Internet Service Provider (ISP) for the IP address assigned to the DVR.
- If your network type is Static IP, check the IP address you configured for IP ADDR in NETWORK menu.
- If the DVR is connected to a DDNS, check the Domain Name that you configured when you created the DDNS account and type the domain name in the URL box.

Note:

For MAC users, you may be prompted to install necessary plug-ins to access the KGUARD Web Client. Follow the on-screen instructions to complete the installation. When prompted for password entry, leave the password empty and select **Install**.

2 Enter the User Name and Password.



Note:

The default administrator **User Name** is "admin" and the password is 123456. We suggest you change the password to protect your privacy. To change the password, see "Changing the Password" on page 67.

3 If necessary, modify the **Client Port**, this should be the same port as configured in the Network Settings menu.

4 On Quality, select Record setup or Remote stream.

5 Click Login.

5.2 The Interface

After you login to KGUARD Web Client, the Live screen appears.

Note:

The number of channels displayed may vary depending on the DVR model. The illustration below is from a 16-channel DVR.



| No. | Item | Description |
|-----|------------------|--|
| | | Click a menu item to access. Options are: |
| | | • Live: Allows you to view the Live screen, control PTZ view, and manage recording and playback options. See "5.3 Live Viewing" on page 78. |
| 1 | Main Manu | • Playback : Allows you search, playback, and download recorded videos. See "5.4 Searching and Playing Recorded Videos" on page 82. |
| | | Remote Setting: Allows you to configure the DVR remotely. See "5.5 Remote Settings" on page 84. |
| | | • Local Setting: Allows you to specify the local disk drive location to save recorded videos, captured screen shots, and downloaded videos. |
| | | Logout: Click to logout from KGUARD Web Client. |
| 2 | Channel Controls | Lists all channels that can be connected to the DVR. The icons of each channel are used to manage the channel, see "5.3.2 Viewing and Recording" on page 80. |
| 3 | Display Screen | Displays the channels in grid mode or full screen mode. To manage the display screen, see "5.3.1 Switching Screen Modes" on page 78. |
| 4 | Display Controls | Controls for playback, recording and switching screen modes. |
| 5 | PTZ Controls | Manages the PTZ speed dome. See "5.3.3 Using PTZ Controls" on page 81. |

5.3 Live Viewing

From the Live screen, use the Display Controls to open or close the channels, adjust the volume, and switch between screen modes.



| No. | Item | | Description |
|-----|--------------------------------|-------------|---|
| 1 | Open All Channels | ſ | Click to open all channels for viewing. |
| 2 | Close All Channels | ß | Click to close all channels for viewing. |
| 3 | Previous | C. | Click to view the previous channels. |
| 4 | Next | Ŀ | Click to save the changes. |
| 5 | Full Screen | Ц | Click to view the channels in full screen. |
| 6 | Stretch | ×. | Click to stretch the screen. Click it again to return to the original proportions. |
| 7 | Display / Hide Screen Modes | | Click to display or hide the screen mode icons. |
| 8 | Screen Mode Icons | | Click a screen mode icon to switch the screen display. See "5.3.1 Switching Screen Modes" below. |
| 9 | PTZ Control | | The PTZ Control icon appears only in full screen mode. Click to turn the PTZ control on or off. This function is applicable only if using a PTZ camera. |
| 10 | Audio | ■ 0) | Turn off or turn on the audio. |

5.3.1 Switching Screen Modes

By default, a 9-channel grid display appears on the screen.

The Live screen can be viewed in different modes: 1-channel, 4-channel grid, 6-channel grid, 8-channel grid, 9-channel grid, 10-channel grid, 13-channel grid, 14-channel grid, 16-channel grid, and full screen.



Chapter 5: KGUARD Web Client



- To view in full screen, click 🛄.
- Double-click a channel to further view one channel in full screen.
- To exit full screen mode, click the right mouse button and select **Exit full screen**.

5.3.2 Viewing and Recording

From the Live screen, you can choose to view or hide a channel display, start manual recording, and capture screen shots of a channel.

Use the Channel Controls to manage individual channels and the Display Controls to manage all the channels at the same time. Click the volume bar to adjust the volume.

| CH01 | ► | 22, | ô' |
|------|---|-----|----------|
| CH02 | ► | 22, | ò. |
| СН03 | ► | 2 | Ô. |
| CH04 | ► | 22, | <u>o</u> |

Viewing or Hiding Channels

Click the view **b** icon next to a channel to show or hide the channel display. The view icon indicates the current status:

- **>** : The channel is displayed on the screen.

To display or hide all the channels, click the play 😼 or stop 🛜 icons on the Play Controls.

Recording Channels Manually

Click the recording **u** button next to a channel to start or stop manual recording. The recording icon indicates the current status:

- 🚨 : The channel is being recorded.
- 😫 : The channel is not being recorded.

Taking Snapshots

Click the snapshot controls to take a snapshot of the current screen. Snapshots are saved in a local directory path. To configure the local directory path, see "5.6 Local Settings" on page 106.

After taking a snapshot, a message appears on the screen to indicate where the snapshot is saved. Example as below:



5.3.3 Using PTZ Controls

Item

No.

If you are using a PTZ speed dome camera, use the PTZ Controls to adjust the viewing scope other PTZ settings.



| 1 | Pointer pan | Click the direction arrows to select the direction of the PTZ camera. Click the middle icon to switch to auto pan. |
|----|-------------|---|
| 2 | Speed | Drag the slider to adjust speed. |
| 3 | Zoom | Click the icons to adjust the zoom setting. |
| 4 | Focus | Click the icons to adjust the focus setting. |
| 5 | Iris | Click the icons to adjust the iris setting. |
| 6 | Cruise | Click 📥 to start cruise. Click 💻 to stop cruise. |
| 7 | Hue | Click on the bars to adjust the hue setting. |
| 8 | Brightness | Click on the bars to adjust the brightness setting. |
| 9 | Preset | Set the preset point, then click 📥 to go to the preset point. |
| 10 | Saturation | Click on the bars to adjust the saturation setting. |
| 11 | Contrast | Click on the bars to adjust the contrast setting. |
| 12 | Default | Click Default or I to restore the default PTZ camera settings. |

5.4 Searching and Playing Recorded Videos

You can remotely search, play, and download recorded videos.

5.4.1 Searching and Playing Videos

1 On the Main Menu, click **Playback**. The Playback screen appears.



- **2** Select a date from the calendar.
- **3** You can filter the search by recorded video type. Select the **Type**.
- **4** Check **Synchronous playback** to playback multiple channels at the same time.

Note:

You can only select up to 4 channels for simultaneous playback.

- **5** Select the channels that you want to search.
- **6** Click **Search**. Available recorded files are marked with green bars on the time line.



Drag to jump to a time line.

7 Click 🕑 to play the recorded videos simultaneously.

8 Use the on-screen controls to manage the recorded videos.

« TIP »

- To jump to a time slot or fast-forward or rewind the playback, drag the white line across the green bars.
- Use the playback control buttons to pause/play and stop the playback.
- Drag the volume slider to adjust the volume.
- Click the zoom icons to zoom in or zoom out the time line.
- Drag the speed slider to change the playback speed.

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- Click the screen mode icons to change to a 1-channel, 4-channel, or full screen display.
- Click the stop all controls icon then select an option. Options are: **Stop all playback**, **Stop all download**, **Stop all windows**.
- Click 🔟 to capture a screenshot of the playback screen of the highlighted channel.

5.4.2 Downloading Recorded Videos

1 Search and play the video you want to download, see "5.4 Searching and Playing Recorded Videos" on page 82.

2 If multiple channels are played simultaneously, click on the channel that you want to download.

3 Click

4 Select the box of the files that you want to download.

| Dow | mload file | СН01 | | | × |
|-----|------------|---------------------|---------------------|--------------|----|
| | Index | Start time | End time | State | Fi |
| Ē | 1 | 2012-04-09 13:56:05 | 2012-04-09 14:56:08 | 17% | 31 |
| |] 2 | 2012-04-09 14:56:06 | 2012-04-09 15:56:08 | Not download | 31 |
| | 3 | 2012-04-09 15:56:07 | 2012-04-09 16:00:12 | Not download | 21 |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| < | | | | | > |
| | | Start download | Stop downlo | ad | |

5 Click **Start Download** to download the video to your local hard disk. See "5.6 Local Settings" on page 106 for details on setting download path folder.

5.5 Remote Settings

Use the Remote Setting menu to remotely configure the DVR. However, some functions are only accessible if you login with an administrator account.

On the Main Menu, click **Remote Setting** to access the Remote Setting page.

| | Live | Playback Remote Setting | Local Setting Logout | KGUARD |
|-----------------------------|----------------------|------------------------------------|-----------------------------|-----------------|
| | Display | Live | Copy Refresh Savi | |
| | Live Privacy Zone | Channel Name Position | Сні Сні Імі | Settings screen |
| Left panel <u>—</u> menu | Network | Covert Show Time Report Time | Disable Enable Fnable | × × |
| | Alarm | | | |
| | System | | | |

The Remote Setting menu is divided into seven submenu options:

- **Display**: Allows you to customize how channels are displayed on the monitor screen. See "5.5.1 Setting the Display" below.
- **Record**: Allows you to customize the recording settings and schedule. See "5.5.3 Setting the Recording" on page 87.
- **Network**: Allows you to customize network settings, including email setup. See "5.5.4 Setting the Network Configuration" on page 90.
- Alarm: Allows you to customize alarms and set when and how you want to be notified. See "5.5.5 Setting the Alarm" on page 96.
- **Device**: Allows you to customize settings for the hard disk drive, PTZ speed dome, mobile, and motion detection. See "5.5.6 Setting the Device" on page 99.
- **System**: Allows you to setup user accounts and password, set the system date and time, and view the device information. See "5.5.7 Managing System Settings" on page 100.
- Advanced: Allows you to upgrade the firmware, restore default settings or configure events and maintenance options.

To access a submenu option, click an item from the left panel. The tree expands to show more options.

5.5.1 Setting the Display

Use the Display menu to remotely customize how you want the channels to be displayed on screen, enable live viewing and set the window position of a channel. You can also customize the channel name that is displayed on the screen.

1 On the Main Menu, click **Remote Setting**.

2 On the left panel, click **Display**.

3 Modify the necessary settings.

| Live | Playback Remote Setting | Local Setting | Logout | | KGUARD SECURITY |
|--------------|-------------------------|---------------|---------|----------|--------------------|
| | | | | | |
| | <u>.</u> | | | | |
| Display | Live | Сору | Refresh | Save | |
| Live | Channel | CH1 | | ~ | |
| Privacy Zone | Name | CH1 | | | |
| Record | Position | U-L | | ~ | |
| | Covert | Disable | | ~ | |
| Network | Show Time | Enable | | ~ | |
| | Record Time | Enable | | ~ | |
| Alarm | | | | | |
| Device | | | | | |
| System | | | | | |
| Advanced | | | | | |

| Item | Description |
|-------------|--|
| Channel | Select the channel that you want to configure. |
| Name | Enter the desired channel name to be displayed on the screen. |
| Position | Set the channel name location on the screen. Options are: |
| | U-L: Upper left D-L: Down left U-R: Upper right D-R : Down right Close: Select this option to hide the channel name. |
| Covert | Display or hide live view display of channel. Select Disable to view the channel. |
| Show Time | Enable/Disable live view time display. |
| Record Time | Enable/Disable record time display. |

4 To save the settings, click **Save**.

« TIP »

- To apply the same settings to other channels (except the channel name), click **Copy**. See "Copying Settings To Other Channels" below.
- To cancel any modifications and retain the existing settings, click **Refresh** at the bottom of the screen.

Copying Settings To Other Channels

The settings of one channel can be copied to another or to all channels. To do this, perform the following:

1 After modifying the settings, click **Copy**. The screen below appears.

| Please select the channel you want to copy |
|---|
| All Copy |
| 🗖 CH01 🗖 CH02 🗖 CH03 🗖 CH04 🗖 CH05 🗖 CH06 🗖 CH07 🗖 CH08 |
| 🗖 CH09 🗖 CH10 🗖 CH11 📕 CH12 🗖 CH13 📕 CH14 🗖 CH15 📕 CH16 |

2 Select the channels you want to copy the settings to. To copy to all channels, click **All**.

3 Click **Copy** to copy.

5.5.2 Privacy Zone Settings

You can mask up to 4 areas to hide it from being viewed on the screen.

- 1 On the Main Menu, click Remote Setting.
- **2** On the left panel, click **Display > Privacy Zone**.
- **3** Select the channel.
- 4 Check the Privacy Zone box to enable the function.



5 Click and drag the mouse to box an area on the screen to mask.

6 To mask more areas, repeat step 5. You can mask up to 4 areas.

Note:

- The above illustration is an example of two marked areas.
- Once the mouse button is released, you cannot resize the box anymore. To modify the masked area, click the box (yellow highlight), then click **Delete** to delete the masked area and then redo step 5 to create another mask.

7 When done, click Save.

- To apply the same settings to other channels, click **Copy**. See "Copying Settings To Other Channels" on page 85.
- To cancel any modifications and retain the existing settings, click Refresh.

5.5.3 Setting the Recording

Use the Record menu to remotely set the recording schedule and customize the recording settings, such as frame rate, quality, and resolution.

Setting the Recording Parameters

Use the recording parameters screen to recording file size, duration, etc.

- **1** On the Main Menu, click **Remote Setting**.
- **2** On the left panel, click **Record**.

3 Modify the necessary settings.

| Display | Rec Parameters | Сору | Refresh | Save |
|----------------|----------------|--------|---------|----------|
| | Channel | CH1 | | ~ |
| Record | Record | Enable | | × |
| Rec Parameters | Pack Duration | 60Min | | ✓ |
| Schedule | PreRecord | Enable | | ✓ |
| Record Setup | | | | , |
| Network | | | | |
| Alarm | | | | |
| Device | | | | |
| System | | | | |
| Advanced | | | | |
| | | | | |

| Item | Description |
|-----------|---|
| Channel | Select the channel that you want to configure. |
| Record | Enable/Disable recording. |
| Pack | Set the recording length for each video file (15/30/45/60 minutes). When the time |
| Duration | elapsed, the recording is saved to another file. |
| PreRecord | Enable/Disable recording prior to the set recording time. |

4 To save the settings, click **Save**.

- To apply the same recording settings to other channels, click **Copy**. See "Copying Settings To Other Channels" on page 85.
- To cancel any modifications and retain the existing settings, click Refresh.

Setting the Recording Schedule

To automatically record a channel at a specified time, do the following:

- **1** On the Main Menu, click **Remote Setting**.
- **2** On the left panel, click **Record > Schedule**. The Schedule screen appears.
- **3** On **Channel**, select the channel.
- 4 On Week, select the day of the week.

| Display | Schedule | Refresh | Save | | |
|----------------|----------|-------------------------|---------------------|--------------------------|--------------------|
| Record | Channel | CH1 Sun. | | | |
| Rec Parameters | | | 15 16 17 18 19 20 2 | 1 22 22 Time (24 hour fo | rmat) |
| Record Setup | | 0, 00 00 10 11 12 10 14 | | Slot for Normal | recordi |
| Network | | | | Slot for Motion | recordi ecordin |
| Alarm | Normal | Motion | No Record | (on 16-channel | DVR on |
| Device | Сору | Sun. 🔽 To | All | Сору | |
| System | Сору | СН1 💌 То | All 💌 C | Сору | |
| Advanced | | | | | |

- **5** Click a space on the grid to mark the schedule. The space changes color depending on the selected record type. Click as many spaces as desired.
 - Normal: To record the video within the specified time.
 - Motion: To record the video only when motion is detected.
 - Alarm: To record the video only when the alarm is triggered within the specified time. If the alarm is not triggered, the recording is not performed. See "5.5.5 Setting the Alarm" on page 96 for further details.

| Display | | Sch | iec | lui | e | | | | Refresh Sav | | | | | ave | • | | | | | | | | | |
|----------------|-------------|-------|------|------|-----|------|-----|------|-------------|-----|-------|-----|------|------|------|-----|----|----|----|----|------|----|----|----|
| Record | | Ch | anne | el | | | | | | | СН | | | | | | | | | | | | | |
| Rec Parameters | | We | ek | | | | | | | | Sun | | _ | _ | - | - | - | | | | | | | |
| Schedule | | 00 |) 01 | 02 | 03 | 04 | 05 | 06 0 | 17 | 08 | 09 1 | 0 1 | 1 12 | 2 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Record Setup | | | | | | | | | | | | | | | | | | | | | | | | |
| Network | | | | | | | | | | | | | | | | | | | | | | | | |
| Alarm | | | | | | Norm | nal | | | м | otion | | | A | larm | | | | No | Re | core | 1 | | |
| Device | | Co | ру | | | | | | | Sur | 1. | • | | То | | All | | 2 | • | | | Co | ру | |
| System | | Co | ру | | | | | | | СН | 1 | • |] | То | | All | | | | | [| Co | ру | |
| Advanced | | | | | | | | | | | | | | | | | | | | | | | | |
| | Normal reco | ordir | ng | is s | set | t | | | | | Ala | arı | n ı | ec | or | dir | ng | is | se | t | | | | |
| | Motion reco | ordir | ١g | is s | set | t | | | | | Nc |) s | ch | edi | ule | ed | re | со | rd | in | g | | | |

« TIP »

To copy the same schedule from one day to another, select the source day on the **Copy** field, then select the target day on the **To** field, then click **Copy**.

6 To save the schedule, click **Save**.

- To apply the same recording settings to other channels, click Copy. See "Copying Settings To Other Channels" on page 85.
- To cancel any modifications and retain the existing settings, click Refresh.

Record Setup Settings

To configure the record setup settings, do the following:

- **1** On the Main Menu, click **Remote Setting**.
- **2** On the left panel, click **Record > Record Setup**. The Record Setup screen appears.
- **3** Modify the necessary settings.

| Display | Record Setup | Сору | Refresh | Save |
|----------------|----------------|---------|---------|----------|
| Record | ResolutionMode | 960H | | • |
| Rec Parameters | Channel | Сн1 | | _ |
| Schedule | Resolution | WCIF | | |
| Record Setup | FPS | 25 | | |
| Network | Quality | Good | | - |
| Alarm | Audio | Disable | | • |
| Device | | | | |
| System | | | | |
| Advanced | | | | |

| Item | Description |
|------------|---|
| Resolution | Select the type of record mode. |
| Mode | Note: If the record mode setting is set to 960H, it is recommended to use a 600 TVL or higher resolution camera. |
| Channel | Select the channel that you want to configure. |
| Resolution | Set the recording resolution. |
| FPS | Select the frame rate value between 1 to 30. |
| Quality | Select the recording quality. |
| Audio | Enable/Disable recording with audio. |

4 To save the settings, click **Save**.

- « TIP »
 - To apply the same recording settings to other channels, click Copy. See "Copying Settings To Other Channels" on page 85.
 - To cancel any modifications and retain the existing settings, click Refresh.

5.5.4 Setting the Network Configuration

You can use the Network menu to setup how the DVR connects to the network. It provides 3 network connection options: Static IP, DHCP, and PPPoE.

Note:

Consult your network administrator or the Internet Service Provider (ISP) to determine the type of connection you are using and the required parameters to complete the setup.

Network Settings

To configure the network settings, do the following:

- **1** On the Main Menu, click **Remote Setting**.
- **2** On the left panel, click **Network > Network**. The Network screen appears.

| Display | Network | Refresh Save | Display | Network | Refresh Save |
|---|--|--|---|---|---|
| | Туре | DHCP | | Туре | IPPPoE |
| Record | Client Port | 9000 | Record | Client Port | 9000 |
| Network | HTTP Port | 80 | Network | HTTP Port | 80 |
| Network | Mobile Port | 18004 | Network | Mobile Port | 18004 |
| Remote Stream | IP Address | 10.0.100.187 | Remote Stream | IP Address | 10.0.100.187 |
| Email | Subnet Mask | 255.255.0.0 | Email | Subnet Mask | 255.255.0.0 |
| DDNS | Gateway | 10.0.0.254 | DDNS | Gateway | 10.0.0.254 |
| | DNS 1 | 10.0.0.251 | | User Name | |
| Alarm | DNS 2 | 0.0.0.0 | Alarm | Password | |
| Device | Auto Port Forwarding | Enable | Device | DNS 1 | 10.0.0.251 |
| | | | | DNS 2 | 0.0.0.0 |
| System | | | System | Auto Port Forwarding | Enable |
| A second | | | | <u> </u> | |
| Advanced | | | Advanced | | |
| DCHP: With Dy (DHCP) service an IP address t network. | ynamic Host (e, your router o your comp | Configuration Protocol will automatically assign uter connected to the | PPPoE: The Point-to-Point frames. This r be directly co | pint-to-Point etwork proto Protocol (PP network proto nnected using | Protocol over Ethernet col for encapsulating P) frames inside Ethernet ocol allows the device to g a DSL modem. |
| | | | | | |
| Display | Network | Refresh Save | | | |
| | Туре | Static | | | |
| Record | Client Port | 9000 | | | |
| Network | HTTP Port | 80 | | | |
| Network | Mobile Port | 18004 | | | |
| Remote Stream | IP Address | 10.0.100.187 | | | |
| Email | Subnet Mask | 255.255.0.0 | | | |
| DDNS | Gateway | 10.0.254 | | | |
| | DNS 1 | 10.0.251 | | | |
| Alarm | DNS 2 | 0.0.0.0 | | | |
| Device | Auto Port Forwarding | Enable | | | |
| System | | | | | |
| Static ID: This: | actwork prot | | 1 | | |
| | | | | | |
| configure the i | hetwork inter | tace using a fixed IP | | | |
| address. | | | | | |

3 Specify the **Client Port** and **HTTP Port** numbers.

- Client Port: Specify the port number that the device will use to send DVR command and video stream.
- HTTP Port: Specify the port number that you will use to log in to the device.

Note:

• Obtain these information from your network administrator or your Internet Service Provider (ISP).

Chapter 5: KGUARD Web Client

• If you cannot use the either of the two default ports, 80 or 9000, the specified port may be occupied by other programs or it is being blocked by your service provider. Enter other port number. In this case, you need to add the port number after the IP address. For example, if you set the **HTTP Port** as 85, you need to enter the IP address as "192.168.3.103:85".

4 Enter other parameter settings (if applicable).

- If your network connection is **Static**, specify the static IP address, Subnet Mask, Gateway, and DNS 1/DNS 2 IP addresses.
- If your network connection is **PPPoE**, enter the User Name and Password that you setup with your DSL service provider. Then, specify the DNS 1/DNS 2 IP addresses.

Note:

The system supports two DNS server input options: DNS Server1 for main server and DNS Server2 for sub server. Please contact your local ISP (Internet Service Provider) to obtain the correct DNS Server parameter.

5 To enable **Auto Port Forwarding (UPNP)** feature, select **Enable**.

Note:

Not all routers support the Auto Port Forwarding feature. If this function does not work, you must manually open the ports in your router.

6 After all settings are complete, click **Save**.

« TIP »

To cancel any modifications and retain the existing settings, click Refresh.

Setting the Remote Stream

To configure the remote stream settings, do the following:

- **1** On the Main Menu, click **Remote Setting**.
- **2** On the left panel, click **Network > Remote Stream**. The Remote Stream screen appears.
- **3** Modify the necessary settings.

| Display | Remote Stream | Сору | Refresh | Save |
|---------------|---------------|---------|---------|------|
| Record | Channel | СН1 | | |
| | Video | Enable | | - |
| Network | FPS | 5 | | |
| Network | Quality | Good | | |
| Remote Stream | Audio | Disable | | ▼ |
| Email | | | | |
| DDNS | | | | |
| E Alarm | | | | |
| Device | | | | |
| System | | | | |
| Advanced | | | | |

| Item | Description | | | |
|---|--|--|--|--|
| Channel | Select the channel that you want to configure. | | | |
| VideoEnable/Disable video display on the remote stream. | | | | |
| FPS | Select the frame rate value between 1 to 30. | | | |
| Quality | Select the stream quality. | | | |
| Audio | Enable/Disable remote stream with audio. | | | |

4 To save the settings, click **Save**.

- To apply the same settings to other channels, click **Copy**. See "Copying Settings To Other Channels" on page 85.
- To cancel any modifications and retain the existing settings, click **Refresh**.

Setting the Email

Use the Email menu to configure the sending and receiving email servers to send and receive email alarm notifications.

- **1** On the Main Menu, click **Remote Setting**.
- 2 On the left panel, click Network > Email.
- **3** Modify the necessary settings.



| Menu item | Description |
|----------------|--|
| Email | Enable/Disable email configuration. |
| Schedule | Implement the email schedule. |
| SSL | SSL (Secure Sockets Layer) protocol is used to secure your email account. Enable SSL if the email server needs the SSL verification. Check with your email service provider for the applicable setting. |
| SMTP Port | Enter the SMTP port of the email server that you want to use to send emails. Note: By default, the SMTP port is 25 for email without SSL verification. For Gmail server or for email that needs SSL verification, the SMTP port is 465, by default. Check with your email service provider for the correct setting. |
| SMTP Server | Enter the SMTP server of the email server that you want to use to send emails. |
| Sender Email | Enter the email address from where you want to send the email. |
| Sender Pwd | Enter the sender's email password. |
| Receiver Email | Enter the email address where you want to send the email alarm notification. |
| Interval | Select the interval time between sending of emails (1/3/5/10 Minute). |

4 After all settings are complete, click **Save**.

5 To test the configuration, click **Email Test**.

« TIP »

To cancel any modifications and retain the existing settings, click **Refresh**.

Email Schedule Setup

Set the email notification to be sent at the specified time. To configure email schedule setup, do the following:

- **1** On the Main Menu, click **Remote Setting**.
- 2 On the left panel, click Network > Email.
- 3 Click Schedule.
- **4** On **Channel**, select the channel you want to set the schedule.
- **5** On **Week**, select the days of the week to implement the schedule.
- **6** The number labels on top of the grid indicates the time of the day. Click a box to mark the schedule.



Note:

Alarm is only available for 16-channel only.

7 To remove a marked schedule, click the box again. The box turns gray.

8 After all settings are complete, click **Apply**.

« TIP »

- To copy the current settings to other days, select the day, then click **Copy**.
- To copy the current settings to other channels, select the channel, then click **Copy**.

9 After all settings are complete, click **Save**.

« TIP »

To cancel any modifications and retain the existing settings, click **Refresh**.

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Setting Up DDNS

DDNS (Dynamic DNS) is a service that registers a domain name and the floating IP address with a DDNS server so that the domain name can be routed to the IP address even if the IP is changed in a dynamic IP system.

To use this feature, you must have a DDNS account. Obtain the information from your Internet Service Provider (ISP) or create a free DDNS account with KGUARD.org server, visit the website http://www.kguard.org.

To setup DDNS, do the following:

- **1** On the Main Menu, click **Remote Setting**.
- 2 On the left panel, click **Network** > **DDNS**. The DDNS screen appears.

| Display | DDNS | Refresh Save | |
|---------------|-----------|--------------|---|
| 10 martine | DDNS | Enable | - |
| Record | Server | KGUARD.ORG | |
| Network | Host Name | | |
| Network | User Name | | |
| Remote Stream | Password | | |
| Email | | | |
| DDNS | DDNS Test | | |
| Alarm | | | |
| Device | | | |
| System | | | |
| Advanced | | | |

3 Enable DDNS.

4 On Server, select the DDNS server.

5 On Host Name, enter the domain name you registered on DDNS server.

Note:

If the registered domain name is 123ABC.KGUARD.ORG, the IP address you type on IE or Safari when you browse Kguard Web Client is http://123ABC.KGUARD.ORG.

6 Enter the DDNS User Name and Password.

7 After all settings are complete, click Save.

8 To test the configuration, click **DDNS Test**.

« TIP »

To cancel any modifications and retain the existing settings, click **Refresh**.

Note:

To apply for a free DDNS account on http://www.kguard.org.

5.5.5 Setting the Alarm

Use the Alarm menu to select when to trigger the alarm and choose the alarm notification, such as buzzer sound, email, or full screen notification.

Setting Motion Detection

- 1 On the Main Menu, click Remote Setting.
- **2** On the left panel, click **Alarm > Motion**. The Motion screen appears.

| Display | Motion | | | Сору | Refresh | Save |
|----------|---------------------|------------|-----|-----------|------------|------|
| | Channel | Сн | 1 | | | |
| Record | Enable | | | | | |
| Network | Sensitivity | 4 💌 | | | | |
| | Buzzer | DFF 👤 | | 10/28/202 | 2 16:02:55 | |
| | Full Screen | | CH1 | | | |
| Motion | Enable Record | | | | | |
| Device | Post Recording | 30S 💌 | | | | |
| | Record Channel | i Ali | | | | |
| System | 🗹 СН01 🗖 СН02 🗖 СН0 | 3 🔲 CH04 | | | | |
| Advanced | 🗖 СН05 🗖 СН06 🗖 СН0 | 7 🗖 CH08 | | | | |
| Automoto | 🔟 Show Message 🔟 S | Send Email | | | | |
| | | | | | | |
| | | | | C | lear All | |

- **3** On **Channel**, select the channel where you want to setup motion detection.
- 4 Check the Enable box to enable motion detection.
- **5** By default, the whole screen is marked for motion detection (red block).



6 To disable motion detection on an area, click a block and then drag the mouse to highlight the scope that you want to unmark (gray block). Or, click **Clear** to unmark all areas and then select a new area to mark for motion detection.



- Area is marked for motion detection
- Area is unmarked for motion detection

7 Modify the necessary settings:

| Menu item | Description |
|----------------|--|
| Sensitivity | Select the motion detection sensitivity rate. Options are : 1^{8} , wherein "8" is the most sensitive and "1" is the least sensitive. |
| Buzzer | Set the buzzer duration when motion is detected (Off/10 S/20 S/40 S/60 S). To disable buzzer, select Off . |
| Full Screen | Check the box to enable this function. If this function is enabled and the alarm is triggered, the corresponding channel will be displayed in full screen. |
| Enable Record | Check the box to enable recording when the motion is detected. |
| Post Recording | Select the post recording duration. Enable Record must be checked to use this function. |
| Record Channel | Check the box of Enable Record and then select the channels to record when the motion is detected. |
| Show Message | Check the box to display a message on screen when the alarm is triggered. |
| Send Email | Check to enable email alarm notification. If the function is enabled, the system will send the alarm images to the specified email address. |

8 To save the settings, click **Apply** at the bottom of the screen.

When motion detection is enabled on a channel, the motion detection icon M appears on the channel screen shown on the monitor connected to the DVR.

Setting the Alarm Notification (16-Channel only)

- **1** On the Main Menu, click **Remote Setting**.
- **2** On the left panel, click **Alarm > Alarm**. The Alarm screen appears.

| Display | Alarm | Сору | Refresh | Save |
|-----------|--------------------------|--------------------------|----------|------|
| | Alarm In | СН1 | | - |
| Record | Alarm Type | NO | | |
| Network | Buzzer | OFF | | |
| | Dwell Time | (105 | | • |
| Alarm | 🗾 Show Message 🖾 Send | I Email 🔲 Full Screen | | |
| Motion | Alarm Out | | | |
| Alarm | Enable Record | | | |
| Device | Post Recording | (30S | | • |
| | Record Channel | All | | |
| System | 🗹 CH01 🔲 CH02 🖬 CH03 🗐 🤇 | сно4 🔲 сно5 🗐 сно6 🔲 сно | 7 🗖 CH08 | |
| A strengt | 🖬 СН09 🖬 СН10 🖬 СН11 🖬 С | сн12 🔲 сн13 🗐 сн14 🗐 сн1 | 5 CH16 | |
| Advanced | | | | |

3 Modify the necessary settings:

| Menu item | Description |
|--------------|---|
| Alarm In | Select the channel that will trigger the alarm. |
| Alarm Type | Select the alarm type: NO (Normal-Open), NC (Normal-Close), or OFF . |
| Buzzer | Set the buzzer duration when alarm is triggered (Off/10 S/20 S/40 S/60 S). To disable the buzzer, select Off . |
| Dwell Time | Select the alarm sound duration of the I/O alarm device (10S/20S/40S/60S) then check to apply the setting to each alarm type. |
| Show Message | Check the box to display a message on screen when the alarm is triggered. |

| Send Email | Check to enable email alarm notification. If the function is enabled, the system will send the alarm images to the specified email address. See "4.4.3 Email Settings" on page 54. |
|----------------|--|
| Full Screen | Check the box to enable this function. If this function is enabled and the alarm is triggered, the corresponding channel will be displayed in full screen. Select the screen display duration (1 S/3 S/5 S/7 S/10 S) |
| Alarm Out | If an alarm device is connected, check the box to make the device sound the alarm when triggered. |
| Enable Record | Check the box to enable recording when the alarm is triggered. |
| Post Recording | Select the post-recording duration. Enable Record must be checked to use this function. |
| Record Channel | Check the box of Enable Record and then select the channels to record when the alarm is triggered. |

4 After all settings are complete, click **Save**.

- To apply the same recording settings to other channels, click **Copy**. See "Copying Settings To Other Channels" on page 85.
- To cancel any modifications and retain the existing settings, click **Refresh**.

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5.5.6 Setting the Device

Use the Device menu to view the hard disk information and setup PTZ.

HDD Setup

You can remotely view the hard disk information and select an overwrite option. To do this, perform the following:

- 1 On the Main Menu, click Remote Setting.
- 2 On the left panel, click **Device > HDD**. The HDD screen appears. The information about the installed hard disk(s) on the DVR are shown.

| Display | HDD | | l | Refresh | Save | |
|-----------------|-----------|-------|------|------------------|------|-----------|
| I Report | NO. | State | | Free / Total (G) | | Free Time |
| | 1 | ок | | 130G / 152G | | 24Hour |
| Network | | | | | | |
| 🦲 Alarm | Overwrite | | Auto | | | ¥. |
| Device | | ı | | | | |
| HDD | | | | | | |
| PTZ | | | | | | |
| System | | | | | | |
| Advanced | | | | | | |

- **3** To select an overwrite option, select the hard disk drive from the table (if more than one is installed).
- 4 On Overwrite, select an overwrite interval option (Close/Auto/1 Hour/3 Hours/1 Day/7 Days/30 Days/90 Days).

Note:

If **Overwrite** is set to Close, the recording will stop once the hard disk drive is full.

5 After all settings are complete, click **Save**.

« TIP »

To cancel any modifications and retain the existing settings, click **Refresh**.

PTZ Setup

When a PTZ camera is installed, use the PTZ Setup menu to customize its settings.

- 1 On the Main Menu, click Remote Setting.
- **2** On the left panel, click **Device** > **PTZ**. The PTZ screen appears.
- **3** On **Channel**, select the channel where the PTZ camera is installed.

| Display | PTZ | Copy Refres | h Save |
|----------|----------|-------------|----------|
| | Channel | CH1 | ~ |
| Record | Protocol | Pelco-D | ~ |
| Network | Baudrate | 9600 | ~ |
| | Data Bit | 8 | × |
| Alarm | Stop Bit | 1 | × |
| Device | Parity | None | × |
| | Cruise | Disable | × |
| | Address | 1 | ~ |
| | | | |
| System | | | |
| Advanced | | | |

4 Set the Protocol, Baudrate, Data Bits, Stop Bits, and Parity.

Note:

Check the PTZ camera specifications for the correct settings.

- 5 Enable or disable Cruise.
- 6 Set the Address.

7 After all settings are complete, click Save.

« TIP »

- To apply the same recording settings to other channels, click **Copy**. See "Copying Settings To Other Channels" on page 85.
- To cancel any modifications and retain the existing settings, click Refresh.

5.5.7 Managing System Settings

On the System Setup menu, you can modify the time zone and view the language used on the DVR and its signal source.

General Setup

1 On the Main Menu, click Remote Setting.

2 On the left panel, click **System > General**. The General screen appears.

| Display | | | |
|----------|---------------|-----------|--------------|
| | General | Refresh | Save |
| Record | System Time | 4/24/2013 | 11 : 45 : 26 |
| Network | Date Format | (MM/DD/YY | |
| | Time Format | (24Hour | |
| Alarm | | | |
| Device | Language | ENGLISH | * |
| | Video Format | INTSC | Ψ. |
| System | Menu Time Out | (1Min | |
| General | ● DST ● NTP | | |
| Users | | | |
| Info | | | |
| Advanced | | | |
| | | | |



3 Modify the necessary settings:

| Menu item | Description |
|---------------|---|
| System Time | Set the system date and time. |
| Date Format | Select the date format. |
| Time Format | Select the time format. |
| Language | Select the desired on-screen language. |
| Video Format | Select the video format in your location. Options are: NTSC or PAL. |
| Menu Time Out | Select the menu time out. |

4 After all settings are complete, click **Save**.

« TIP »

To cancel any modifications and retain the existing settings, click Refresh.

Administrator Account Setup

Use the Users menu to change the login password and grant user access rights to DVR settings. Only the administrator can authorize and grant access rights to users.

There is only one administrator account and six user accounts. By default, the administrator account's user name is "admin" and the password is 123456. We suggest you change the password to protect your privacy.

To change the administrator password, do the following:

1 On the Main Menu, click Remote Setting.

2 On the left panel, click System > User. The Users screen appears.

| Display | User | S | | Refresh | Save | | |
|----------|------|-----------|----------|---------|-----------|-------------|---|
| | NO. | User Name | Password | Active | User Name | admin | |
| Record | 1 | admin | Disable | Enable | | wommine the | _ |
| Natural | 2 | user1 | Disable | Disable | Password: | | |
| | 3 | user2 | Disable | Disable | Confirm: | | |
| Alarm | 4 | user3 | Disable | Disable | | Enable | |
| | 5 | user4 | Disable | Disable | Active: | Lilable | |
| Device | 6 | user5 | Disable | Disable | Password: | Disable | * |
| | 7 | user6 | Disable | Disable | | | |
| System | | | | | | | |
| General | | | | | | | |
| Users | | | | | | | |
| Info | | | | | | | |
| Advanced | | | | | | | |

3 Select the administrator account, named "admin" by default, from the table.

4 Enter the desired password on Password and Confirm.

Note:

- The password must be 6 numbers in length.
- The entered text on **Password** and **Confirm** must match.
- « TIP »

You can modify the administrator user name if desired. To do so, enter the desired name on the User Name field.

5 Enable Password.

6 After all settings are complete, click Save.

« TIP »

To cancel any modifications and retain the existing settings, click **Refresh**.

User Account Setup

To authorize user accounts, you must login with an administrator account and then do the following:

- **1** On the Main Menu, click **Remote Setting**.
- **2** On the left panel, click **System** > **User**. The Users screen appears.
- **3** Select the user account from the table.

| | lleen | _ | | | | 6 | | | | | |
|-----|--------------------|---|---------------------------------------|--|----------------------|---------|-------------------------|---------------------------------------|----------------------|--------------|---|
| | User | > | | - | | iresn | | Save | | | |
| d | NO. | User Nam | 18 | Password | | Active | | User Nam | e: | user1 | |
| | 1 | admin | | Enable | E | inable | | | | | |
| | 2 | user1 | | Disable | E | inable | | Password: | | | |
| | 3 | user2 | | Disable | 0 |)isable | | Confirm: | | | |
| | 4 | user3 | | Disable | 0 |)isable | | | | E 11 | |
| | 5 | user4 | | Disable | 0 |)isable | | Active: | | Enable | |
| | 6 | user5 | | Disable | C |)isable | | Password: | | Disable | |
| | 7 | user6 | | Disable | C |)isable | | | | | |
| ral | | Search 🗖 | Parame | ter 🔳 Mai | ntain | 0 | | | | | |
| | Disl | Search 🔎 k Manage I ckup | Parame ■ Remo | ter Mai te Login I | ntain ∎SEQ | Contro | 10 11 | anual Reco | rd | 15 | |
| | Log Disi Ba | I Search 🗖 k Manage 🛛 ckup I 2 3 | Parame Remo | eter IMai te Login I 5 6 7 | ntain ∎SEQ ′8 | Contro | II ■ Ma 10 11 | anual Reco | rd 14 | 15 1 | 6 |
| | Log Disi Ba | y Search 🔎 k Manage I ckup I 2 3 e | Parame Remo | ter Mai | ntain ∎SEQ ′8 | Contro | 11 Ma | anual Reco | rd | 15 1 | 6 |
| | | I Search K Manage ckup 2 3 e 2 3 | Parame Remo | ter Mai te Login 5 6 7 5 6 7 | ntain ■SEQ / 8 | Contro | I Ma | anual Reco | rd 14 | 15 1 | 6 |
| | Disl Disl Ba | I Search K Manage K Manage Ckup Ckup Ckup Ckup Ckup Ckup Ckup Ckup | Parame | ter Mai te Login 5 6 7 5 6 7 | ntain SEQ / 8 | Contro | 1 Ma | 12 13 | rd 14 | 15 1 | 6 |
| | | I Search k Manage ckup 2 3 e 2 3 IVback 2 3 | Parame ■ Remo 4 : 4 : | ter Mai te Login 5 6 7 5 6 7 | ntain SEQ 8 | Contro | 10 11 10 11 10 11 | anual Reco | rd 14 14 | 15 1 | 6 |
| | | I Search K Manage ckup 2 3 e 2 3 nyback 2 3 Z Control | Parame ■ Remo 4 : 4 : 4 : | ter ■ Mai te Login ■ 5 6 7 5 6 7 5 6 7 | ntain SEQ B | Contro | 10 11 10 11 10 11 | inual Reco 12 13 12 13 12 13 | rd 14 14 14 | 15 1 15 1 | 6 |

- 4 On User Name, enter the desired user name.
- **5** Enter the desired password on the **Password** and **Confirm** fields.
- 6 On Active, select Enable. The access rights table appears below.
- 7 Enable Password.
- **8** Check the settings that the user is allowed to access on the access rights table.
- **9** When all settings are complete, click **Save**.

System Information

Use the Information menu to view the device and firmware information.

- **1** On the Main Menu, click **Remote Setting**.
- **2** On the left panel, click **System > Info**. The Information screen appears.

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| Display |
|----------|
| Record |
| Network |
| Alarm |
| Device |
| System |
| General |
| Users |
| Info |
| Advanced |

| Info | Refresh |
|-------------------|-------------------|
| Device Name | DVR-16C |
| Device ID | 000000 |
| Device Type | BR1621 |
| Hardware version | DM-136 |
| Software Version | V4.1.0-20130416 |
| IE Client Version | V1.1.1162.0 |
| MAC Address | 00-23-63-50-79-5E |

5.5.8 Advanced Settings

The Advanced menu allows you to set automatic system maintenance, load factory defaults, update the firmware settings, or reboot and power off the DVR manually.

Firmware Update

Use this feature to update the firmware with the latest version.

- **1** Check for available updates and download the firmware update folder named "dvrupgrade".
- **2** Save the "dvrupgrade" folder in a USB flash drive.
- **3** Insert the USB flash drive into a USB port of the DVR.
- 4 On the Main Menu, click Remote Setting.
- **5** On the left panel, click **Advanced** > **Firmware Update**.

| Display | Firmware Update |
|-----------------|-------------------|
| Record | Upgrade file path |
| Network | |
| Alarm | Start Stop |
| Device | |
| System | |
| Advanced | |
| Firmware Update | |
| Load Default | |
| Events | |
| Maintain | |

6 Browse for the update file, then click **Start**.

7 Follow the instructions on the screen to complete the update.

Warning:

Do not turn off the power or unplug from the power supply while updating.

Load Default Settings

Use this feature to restore the factory default settings of the DVR.

- **1** On the Main Menu, click **Remote Setting**.
- **2** On the left panel, click **Advanced** > **Load Default**.

| Display | Load Default | Save | |
|-----------------|--------------|------|--|
| | Display | | |
| Record | Record | | |
| Network | Vetwork | | |
| | Alarm | | |
| Alarm | Device | | |
| Device | System | | |
| | Advanced | | |
| System | | | |
| Advanced | | | |
| Firmware Update | | | |
| Load Default | | | |
| Events | | | |
| Maintain | | | |

3 Check the menu settings that you want to restore to default values.

4 Click Save.

Events Settings

The Events page allows you to define the type of events for the DVR to issue an alarm.

1 On the Main Menu, click **Remote Setting**.

2 On the left panel, click **Advanced** > **Events**.

| | Events | Refresh Save | |
|------|------------------|---------------|---|
| | Event Type | Disk No Space | × |
| | 🗹 Enable | | |
| | Buzzer | 108 | ~ |
| | 🗹 Show Message 🗹 | Send Email | |
| | 🗹 Alarm Out | | |
| | Latch Time | 108 | ~ |
| | | | |
| | | | |
| า์ เ | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

3 Configure the necessary settings.

| Menu Item | Description | | | |
|------------|---|--|--|--|
| Event Type | Select the event type. Options are: | | | |
| | Disk No Space: When HDD is full. | | | |
| | • Disk Error: If HDD is not detected properly. | | | |
| | • Video Loss: If camera is not detected properly. | | | |

| Menu Item | Description |
|--------------|---|
| Enable | Select Enable to issue a notification when the event type occurs. |
| Buzzer | Set the buzzer duration when the event occurs (Off/10 S/20 S/40 S/60 S). To disable buzzer, select Off . |
| Show Message | Check the box to display a message on the screen when the event occurs. |
| Send Email | Check to enable email alarm notification. If the function is enabled, the system will send the alarm to the specified email address. See "4.4.3 Email Settings" on page 54. |
| Alarm Out | If an alarm device is connected, check the box to make the device sound the alarm when the event occurs. |
| Dwell Time | Select the alarm duration (10S/20S/40S/60S). |

4 After all settings are complete, click **Save**.

Set Auto Maintenance

Use this feature to automatically reboot the DVR on a specified schedule. When the DVR reboots, all settings and data are refreshed from the memory, which optimizes the DVR performance.

1 On the Main Menu, click Remote Setting.

2 On the left panel, click **Advanced** > **Maintain**.

| Display | Maintain | Refresh | Save | |
|-----------------|-------------|-----------------|-------------------|--|
| | Auto Reboot | Enable | ¥ | |
| | Reboot | Every Week 💌 Su | n. 💌 00 : 00 : 00 | |
| Network | | | | |
| Alarm | | | | |
| Device | | | | |
| System | | | | |
| Advanced | | | | |
| Firmware Update | | | | |
| Load Default | | | | |
| Events | | | | |
| Maintain | | | | |

3 Set Auto Maintain to Enable.

4 In Reboot, select the frequency to reboot the DVR. Options are:

- **Everyday**: Reboots the DVR on a daily basis. If this option is selected, specify the time you want to reboot the DVR.
- Every Week: Reboots the DVR on a weekly basis. If this option is selected, specify the day of the week and the time to reboot the DVR.
- Every Month: Reboots the DVR on a monthly basis. If this option is selected, specify the date (1 to 31) and the time to reboot the DVR.

Note:

The illustration above is an example of Auto Reboot set to Every Week. The available fields vary depending on the selected Reboot option.

5 After all settings are complete, click **Save**.

« TIP »

To restore the maintenance schedule to default setting, click **Refresh**.

5.6 Local Settings

Use the Local Setting menu to specify the local path directory to save downloaded videos, files, and snapshots.

To configure the local settings, do the following:

1 On the Main Menu, click **Local Setting**.

2 Click the corresponding browse button to modify the path.

| Live | Playback | Remote Setting | Local Setting | Logout | KGUA secu | RITY |
|------|----------|----------------|---------------|-----------------|--------------|------|
| | | | | | | |
| | | Lo | cal Setting | | | |
| | | R | Record Path | D:\DVR\Record | | |
| | | D | ownload Path | D:\DVR\DownLoad | | |
| | | s | inapshot Path | D:\DVR\Capture | | |
| | | F | ile type | 264 💌 Interval | 10 Min | |
| | | | | | Save | |

| Menu Item | Description |
|--|--|
| Record Path | All manual recording made from the Live screen are saved in this path. |
| Download Path | All downloaded videos from the Playback screen are saved in this path. |
| Snapshot Path All captured snapshots are saved in this path. | |
| File TypeSelect the file type. Options are: 264 (H.264 format) or avi. | |
| Interval | Set the interval time in minutes. |

3 Click Save.

Chapter 6: Using KView Series Software

The KView Series surveillance software provides real-time multi-channel viewing capabilities right on your smart phones, tablet PCs or on your desktop computer. The KView Series surveillance software includes:

- KViewQR: Use in Android Phones and iPhones (see below)
- KView Center: Use in Windows-based computers (see "6.2 KView Center" on page 108)

6.1 KViewQR

KViewQR is a software application specially designed for DVR with easy network setup functionality. You can instantly view the connected DVR in real-time through your smart phone/pad by simply scanning the QR code, without the hassle of complicated network configuration.

1 Make sure your mobile phone is connected to WIFI, to the same Router as DVR.

- 2 Open the Play Store or App Store application.
- 3 On the search bar, enter the keyword "kviewqr" to search and download KViewQR.

4 Select to download KViewQR.



- 6 Tap + to add a DVR.
- **7** Tap **Scan** to scan the QR code sticker on the top of the DVR. To manually enter the QR code , enter the DVR ID as shown on sticker.

Note:

To scan the QR code, place the barcode inside the viewfinder rectangle.



9 After all settings are complete, tap **OK**.

Note:

- The QR code is shown on the sticker on the top of the DVR.
- Be sure to install Barcode Scanner application before scanning the QR code.
- The above illustrations using an Android smartphone.

| Add Can | nera | 36 1 10:12 |
|----------------|--------|--------------------|
| Device Set | ting | |
| UID: | | |
| | Scan | Search |
| Security Code: | | |
| Name: | Camera | |
| | | |
| | | |
| OK | | Canaal |

6.2 KView Center

KView Center is a software application tool designed for computers running Windows OS.

Note:

To ensure optimum performance, make sure the OS of your computer is Windows 7 or Windows XP.

To install KView Center on your computer, perform the following steps:

- **1** Browse the CD that came with your DVR and double-click on "KViewCenterSetup.exe".
- 2 When the security warning appears, click Run.

3 The KViewCenter Setup screen appears. Click **Next** to continue.







4 Select Full and then click Next to continue.
Chapter 6: Mobile Device Access



6 When the installation is complete, click **Close**.

The **KView Center** shortcut icon appears on the desktop.

5 Browse for desired path to save the software, and then click **Install**.

7 Double-click to open KView Center.

Note: To login to KView Center, please enter the default user name and password.
 User Name: admin
 Password: 1234

6.3 KView Series Specifications

| Surveillance Software | KViewQR | | KViewCenter | |
|----------------------------|--------------|--------------|---------------------------------|--|
| Operating System | Android | iOS | Windows | |
| OS Version | 3.0 or above | 5.0 or above | XP/7/8 (32/64bit) | |
| Resolution | Monitor | Monitor | Monitor | |
| Max. Live View Channel | 1 | 1 | 64 | |
| Channel Layout | 1 | 1 | 1/4/9/16/25/36/49/64 | |
| PTZ Control | YES | YES | YES | |
| Digital Zoom | YES | YES | _ | |
| Live Snapshot | YES | YES | YES | |
| Live Record | — | YES | _ | |
| Password Protection | — | — | YES | |
| Event List | — | — | YES | |
| Remote Playback | YES | YES | YES | |
| Remote Playback Digit Zoom | — | YES | — | |
| Remote Playback Snapshot | — | YES | — | |
| Remote Playback Record | — | YES | _ | |
| Local Playback | — | YES | YES | |
| Remote Backup | — | — | Up to 8 Channels Simultaneously | |
| Schedule (Remote) | | | YES | |
| E-Map | _ | _ | YES | |
| Launch IE Browser | _ | _ | YES | |

Chapter 7: Troubleshooting & FAQ

7.1 Troubleshooting

If you experience any problems in using the DVR, try the following solutions to these common problems before calling for service. If problems persist, contact the customer service in your area.

| Problem | Possible Solution | | |
|--|--|--|--|
| The DVR does not turn on and the indicators are not lit. | Check if the power adapter is properly connected. Plug the power cord to another power outlet, the current outlet may be damaged. The power cord may be damaged, contact the dealer to purchase a new one. | | |
| Some channels have no video signal. | Check if the camera is properly connected. Check if the camera is supplied with power. Set the correct video format used in your country (NTSC/PAL). See "4.7 System Settings" on page 65. The camera cable may be damaged, replace with a new one. | | |
| An "H" is displayed on the screen and the DVR cannot detect the HDD. | Check if the HDD data and power cables are properly connected. For new HDDs, format the HDD first. See "Formatting HDD" on page 60. If all the above procedures do not work, contact Customer Service for further support. | | |
| I have changed the administrator password but I cannot remember it. | To obtain the factory default password, contact your retailer or directly send an email to KGUARD at support@kguardsecurity.com. | | |
| The remote control is not working but the front panel buttons are. | Make sure nothing is blocking the remote control and the DVR sensor. Aim the remote control at a proper distance. Check the remote control batteries. | | |
| I cannot control the PTZ camera. | Make sure the protocol, baud rate, address code and other settings on the camera match the settings you have configured on the DVR. See "4.6.2 PTZ Setup" on page 61. Check if the cables are properly connected. | | |
| The buzzer keeps on sounding. | Check the alarm settings. Motion detection may be detected. Check the HDD capacity and the video connections, which may be triggering the alarm. Disable buzzer on the DVR settings. See "4.5 Setting Alarms" on page 57. | | |
| I cannot find the PTZ Control menu. | • The DVR may be on Cruise mode, disable stop cruise mode first. See "3.6.4 Pop-up Menu" on page 31. | | |
| I connected an external storage device to the DVR but it cannot be recognized. | • The external storage device may not be compatible with the DVR. Try connecting other storage devices. See the Support Manual in the enclosed CD. | | |
| I cannot access the web client. | Check if the network cable is properly connected to the DVR. Check if the network settings are properly configured. See"4.4 Setting the Network" on page 52. Ensure that you have Internet Explorer 6 or above. | | |

| Problem | Possible Solution | | |
|---|---|--|--|
| I cannot access the DVR through my mobile phone. | Check if the network cable is properly connected to the DVR. Check if the network settings are properly configured. See "4.4 Setting the Network" on page 52. Make sure the mobile device utility is properly installed on your mobile phone. | | |

7.2 Frequently Asked Questions

| FAQ | Answer |
|--|--|
| How to check the DVR QR code? | Go to Main Menu > SYSTEM and select the Info tab. The QR code is displayed in DVRID. |
| What does "H" displayed on the screen mean? | • This means that the HDD cannot be detected or it is incorrectly formatted. |
| The DVR is hot to the touch, will this cause any problems? | • For sustained performance and reliability, ensure adequate ventilation around the unit and keep the DVR away from direct sunlight or heat sources. |
| Can the HDD be upgraded with a standard PC hard drive? | Yes, a 3.5" HDD with SATA connection can be used. However, for sustained reliability, a CCTV/AV hard drive is recommended. |
| Is it possible to simultaneously record and playback previously recorded files? | Yes, by entering the Playback menu, existing recordings can be played while recording is still in progress. |
| Is it possible to delete individual recordings from the unit? | No, you can only delete all recordings at the same time. If you wish to delete the recordings, you need to format the HDD. Marning: Formatting the HDD will erase all existing recordings! Make sure you back up the files before performing this action. |
| Is it possible to view the system on Mac or Linux? | Yes. The system can be used on a mobile phone or via Safari / Windows[®] Internet Explorer. |

Appendix: Specifications

| Model | | EL421 EL821 | | EL1621 | | |
|-------------------------|--|---|--|--|--|--|
| No. of Channel | | 4 Channels 8 Channels | | 16 Channels | | |
| Cloud | | | | | | |
| Cloud Storage | | | Yes | | | |
| Storage Mode | | | | Schedule / Motion Detection | 1 | |
| Video | | | | | | |
| Video Format | | | NTSC or PAL | | | |
| Video Input | | | 4 BNC Inputs | 8 BNC Inputs | 16 BNC Inputs | |
| Video Output | | | 1 VGA, 1 BNC, 1 HDMI Outputs | | | |
| Video Output Resolution | | VGA: 800x600, 1024x768, 1280x1024, 1440x900, 1920x1080 HDMI: 1080p | | | | |
| Audio | | | | | | |
| Audio Input | | | 2 RCA Inputs | | 4 RCA Inputs | |
| Audio Output | | | 1 RCA Output | | | |
| Recording | | | | | | |
| Video Compressio | on | | H.264 | | | |
| Frame Rate 9 | | NTSC | 120fps@CIF (360×240), 120fps@HD1 (720x240), 120fps@D1 (720x480) | 240fps@CIF (360×240), 240fps@HD1 (720x240), 240fps@D1 (720x480) | 480fps@CIF (360×240), 240fps@HD1 (720x240), 240fps@D1 (720x480) | |
| | | PAL | 100fps@CIF (360×288), 100fps@HD1 (720x288), 100fps@D1 (720x576) | 200fps@CIF (360×288), 200fps@HD1 (720x288), 200fps@D1 (720x576) | 400fps@CIF (360×288), 192fps@HD1 (720x288), 192fps@D1 (720x576) | |
| | | NTSC | 120fps@WCIF (480×240), 120fps@WHD1 (960×240), 120fps@WD1 (960×480) | 240fps@WCIF (480×240), 88fps@WHD1 (960×240), 88fps@WD1 (960×480) | 480fps@WCIF (480×240), 176fps@WHD1 (960×240), 176fps@WD1 (960×480) | |
| | 960H | PAL | 100fps@WCIF (480×288), 100fps@WHD1 (960×288), 100fps@WD1 (960×576) | 200fps@WCIF (480×288), 72fps@WHD1 (960×288), 72fps@WD1 (960×576) | 400fps@WCIF (480×288), 144fps@WHD1 (960×288), 144fps@WD1 (960×576) | |
| Recording Mode | Always / Manual / Motion Detection / Schedule De | | Always / Manual / Motion Detection / Schedule / Sensor / Alarm | | | |
| HDD Interface | | | | 1 SATA | | |
| HDD Support | | | Up to 2TB | | | |
| Network | | | | | | |
| Network Interface | 2 | | RJ45, 10M/100M | | | |
| Network Function | 1 | | DHCP, PPPoE, Static IP | | | |
| Playback | | | | | | |
| Local Playback | | Max. 4 Channels Simultaneously | Max. 8 Channels Simultaneously | Max. 16 Channels Simultaneously | | |
| Playback Search | | | Date & Time / Event List / Time Bar | | | |
| Playback Mode | | Play, Fast Forward, Fast Rewind, Slow Motion, Zoom | | | | |

Appendix: Specifications

| Model | EL421 | EL821 | EL1621 | |
|--|--|-------|-------------------|--|
| General | | | | |
| PTZ Control | RS485 Built-In, supports PELCO-P & PELCO-D | | | |
| Sensor & Alarm I/O Port | No | | Yes | |
| IR Extender Port | No | | Yes | |
| Backup Method | HDD, USB, Network | | | |
| Power Supply | 12V/2A | | 12V/2A | |
| Operating Temperature (without HDD) | -10°C to 50°C (14°F to 122°F) | | | |
| Storage Temperature | -20°C to 70°C (-4°F to 158°F) | | | |
| Working Humidity | 10% ~ 90% | | | |
| Dimension (W x D x H) | 250 x 230 x 45 mm | | 300 x 220 x 50 mm | |

* Specifications are subject to change without notice.



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Customer Support

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