# Contents

## CHAPTER 1 FUNCTIONAL DESCRIPTIONS AND FEATURES .......................... 1

## CHAPTER 2 OVERVIEW OF DVR......................................................... 2

2.1 DVR FRONT PANEL (FOR REFERENCE ONLY) ............................................. 2
2.2 DVR REAR PANEL .................................................................................... 3
  2.2.1 4/8 channel (For reference only) ................................................................. 3
  2.2.2 16 channel (For reference only) ................................................................. 4
2.3 REMOTE CONTROLLER (FOR REFERENCE ONLY) ................................. 5

## CHAPTER 3 DVR CONNECTION............................................................ 6

3.1 HDD INSTALLATION .................................................................................. 6
3.2 IP CAMERA AND MONITOR CONNECTION ................................................. 6
3.3 POWER SUPPLY CONNECTION ................................................................. 6

## CHAPTER 4 DVR BOOT UP................................................................. 6

4.1 SYSTEM INITIALIZATION ......................................................................... 6
4.2 START-UP WIZARD .................................................................................... 7
4.3 MAIN INTERFACE ....................................................................................... 8

## CHAPTER 5 DVR MENU ......................................................................... 9

5.1 MAIN MENU GUIDE .................................................................................. 10
5.2 MAIN MENU ............................................................................................. 11
  5.2.1 PARAMETER ............................................................................................ 11
  5.2.2 RECORD SEARCH .................................................................................. 13
  5.2.3 DEVICE .................................................................................................. 20
  5.2.4 PTZ AND CLOUD STORAGE ................................................................. 21
  5.2.5 SYSTEM ................................................................................................. 22
  5.2.6 ADVANCED ............................................................................................ 25
  5.2.7 SHUTDOWN ............................................................................................ 26
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.3 <strong>Menu Lock</strong></td>
<td>27</td>
</tr>
<tr>
<td>5.4 <strong>Split Mode</strong></td>
<td>27</td>
</tr>
<tr>
<td>5.5 <strong>Record Search</strong></td>
<td>27</td>
</tr>
<tr>
<td>5.6 <strong>Mute</strong></td>
<td>27</td>
</tr>
<tr>
<td>5.7 <strong>Start Sequence</strong></td>
<td>27</td>
</tr>
<tr>
<td><strong>CHAPTER 6 WEB APPLICATION MANAGER</strong></td>
<td>27</td>
</tr>
<tr>
<td>6.1 <strong>ActiveX Control Download and Installation</strong></td>
<td>29</td>
</tr>
<tr>
<td>6.2 <strong>Web Application Manager Login</strong></td>
<td>30</td>
</tr>
<tr>
<td>6.3 <strong>Live Interface</strong></td>
<td>30</td>
</tr>
<tr>
<td>6.3.1 <strong>Menu Bar</strong></td>
<td>31</td>
</tr>
<tr>
<td>6.3.2 <strong>Playback</strong></td>
<td>32</td>
</tr>
<tr>
<td>6.3.3 <strong>Remote Setting</strong></td>
<td>36</td>
</tr>
<tr>
<td>6.3.4 <strong>Network</strong></td>
<td>42</td>
</tr>
<tr>
<td>6.3.5 <strong>Alarm</strong></td>
<td>44</td>
</tr>
<tr>
<td>6.3.6 <strong>Device</strong></td>
<td>45</td>
</tr>
<tr>
<td>6.3.7 <strong>System</strong></td>
<td>47</td>
</tr>
<tr>
<td>6.3.8 <strong>Advanced</strong></td>
<td>49</td>
</tr>
<tr>
<td>6.3.9 <strong>Local Setting</strong></td>
<td>51</td>
</tr>
<tr>
<td>6.3.10 <strong>Logout</strong></td>
<td>51</td>
</tr>
<tr>
<td><strong>CHAPTER 7 APPENDIX</strong></td>
<td>52</td>
</tr>
<tr>
<td>7.1 <strong>Troubleshooting</strong></td>
<td>52</td>
</tr>
<tr>
<td>7.2 <strong>Usage Maintenance</strong></td>
<td>52</td>
</tr>
<tr>
<td><strong>CHAPTER 8 WARRANTY</strong></td>
<td>54</td>
</tr>
<tr>
<td>8.1 <strong>Limited Warranty</strong></td>
<td>54</td>
</tr>
<tr>
<td>8.2 <strong>Warranty Period</strong></td>
<td>54</td>
</tr>
<tr>
<td>8.3 <strong>Warranty Exclusions</strong></td>
<td>54</td>
</tr>
<tr>
<td>8.4 <strong>Warranty Claims and Validation</strong></td>
<td>55</td>
</tr>
<tr>
<td>8.5 <strong>Limitation of Liability</strong></td>
<td>56</td>
</tr>
</tbody>
</table>
8.6 MISCELLANEOUS PROVISIONS ........................................................................................ 56
8.7 STANDARD WARRANTY CONDITIONS........................................................................... 56
8.8 REPAIR/REPLACEMENT PROCEDURE ......................................................................... 56
SAFETY INSTRUCTION

Please carefully read the following safety instruction to avoid personal injuries and prevent the equipment and other connection devices from being damaged.

1. **Power sources (note: please use the power supply attached or specified by the manufacturer)**
   - Never operate the equipment by using an unspecified power supply.

2. **Never push objects of any kind through openings of DVR**
   - Never push objects of any kind through openings of DVR to avoid electric shock or other accidents.

3. **Do not expose the equipment to dust**
   - Clean around the device regularly to prevent overheating and damage

4. **Do not place the equipment in a wet or humid environment**
   - Do not place the equipment in damp or humid conditions like basements. If the equipment is accidentally in contact with water, please unplug the power cable and immediately contact your local dealer.

5. **Keep the surface of the equipment clean and dry**
   - Use soft damp cloth to clean the outer case of DVR (do not use liquid aerosol cleaners)

6. **Do not operate if any problems are found**
   - If there are any strange smell or sound from DVR, unplug the power cable and contact the authorized dealer or service center.

7. **Do not try to remove the upper cover during operation**
   - **Warning:** Do not remove the cap of DVR to avoid electric shock.

8. **Handle with care**
   - If DVR does not work normally because of fall damage or hitting a hard object, please contact the authorized dealer for repair or replacement.

9. **Use standard lithium battery (Note: Use the batteries attached or specified by the manufacturer)**
   - After cutting off the power supply, if the system clock cannot continue to work, please replace the standard 3V lithium battery on the main board.
   - **Warning:** Turn off DVR before replacing the batteries, or you may suffer from serious electric shock. Please properly dispose of the used batteries.

10. **Place the equipment in a place with good ventilation**
    - The DVR system includes HDD, which produces large amount of heat during operation. Thus, do not block the ventilation openings (on the top, bottom, both sides and the reverse side) for cooling the system during operation. Install or put the equipment in the place with good ventilation.

11. **The attached power adapter can only be used for a single DVR**
    - Do not connect additional equipment, or DVR may be restarted repeatedly because of insufficient power

12. **Keep away from water at all times**
    - Do not place objects containing water, such as flower vase, on or near the equipment.
# Chapter 1 Functional Descriptions and Features

<table>
<thead>
<tr>
<th>Function</th>
<th>Brief Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Real time monitoring</td>
<td>Supports output by monitor via VGA and HDMI, supports real-time monitoring by web application manager and mobile phone, and supports electronic amplifier, multi-screen sequence and PIP display.</td>
</tr>
<tr>
<td>Recording</td>
<td>Supports video compression standard of H.264. The video quality, resolution of each channel and video frame rate are adjustable. Supports many recording modes, such as start-up recording, timing recording, manual recording, alarm recording, motion detection recording, remote recording, etc.</td>
</tr>
<tr>
<td>Record storage</td>
<td>Supports high capacity HDD with internal SATA port. The recordings can be stored immediately to HDD.</td>
</tr>
<tr>
<td>Record playback</td>
<td>Support single-channel or multi-channel search and playback by DVR or network.</td>
</tr>
<tr>
<td>Record backup</td>
<td>Backup recordings from DVR to USB flash disk, mobile HDD and disk burner; or from network to HDD. Support alarm management of HDD and video input and the signal input from external alarm apparatus.</td>
</tr>
<tr>
<td>Alarm setting</td>
<td>Support alarm management of HDD and video input and the signal input from external alarm apparatus.</td>
</tr>
<tr>
<td>Network operation</td>
<td>Support authorized accessing of remote client to ensure the system security.</td>
</tr>
<tr>
<td>Mouse operation</td>
<td>Support USB mouse operation to set system parameters conveniently and efficiently.</td>
</tr>
<tr>
<td>PTZ control</td>
<td>Support PTZ decoder communicated through RS485. It can expand two kinds of decoding protocol to realize PTZ and dome camera control. Support PTZ preset auto cruise function.</td>
</tr>
</tbody>
</table>

Table 1-1

- H.264 video compression format, support 960H display resolution
- G.711 audio compression format
- Windows style graphic user interface and embedded real-time Linux 2.6 operation system
- Warm menu prompt
- Full real-time six functions (preview, recording, playback, backup, network monitoring, and mobile phone monitoring)
- Support for dual-stream network transmission
- Support for smart phone video monitoring
- Support for electronic amplifying and channel sequence display
- Video packaging time is adjustable
- Multiple alarm modes
- USB2.0 port, support backup, burning, software upgrading, mouse operation, etc.
- Support for infra-red remote control
- Support for multi-language
- Support for automatic system maintenance
Chapter 2 Overview of DVR

2.1 DVR Front Panel (For reference only)

<table>
<thead>
<tr>
<th>SN</th>
<th>Type</th>
<th>Key or indicator</th>
<th>Identification</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IR port</td>
<td></td>
<td></td>
<td>Receive IR signal from Remote Controller.</td>
</tr>
<tr>
<td>2</td>
<td>Status lamp</td>
<td>Power indicator</td>
<td>PWR</td>
<td>If the “Green” indicator is on, DVR is getting power normally.</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>HDD indicator</td>
<td>HDD</td>
<td>If the “Red” indicator flashes, the hard drive is being read or written to.</td>
</tr>
<tr>
<td>4</td>
<td>USB</td>
<td></td>
<td></td>
<td>USB port</td>
</tr>
</tbody>
</table>
2.2 DVR Rear Panel

2.2.1 4/8 channel (For reference only)

<table>
<thead>
<tr>
<th>SN</th>
<th>Physical Interface</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Audio output</td>
<td>Audio signal output, RCA port.</td>
</tr>
<tr>
<td>2</td>
<td>Video input</td>
<td>Connect with CH1-4 video input device, standard BNC port</td>
</tr>
<tr>
<td>3</td>
<td>Audio input</td>
<td>Connect with CH1-4 audio input signals, RCA port</td>
</tr>
<tr>
<td>4</td>
<td>HDMI output</td>
<td>Connect with HDMI display devices, such as PC monitor, TV, etc.</td>
</tr>
<tr>
<td>5</td>
<td>VGA port</td>
<td>Connect with VGA display devices, such as PC monitor</td>
</tr>
<tr>
<td>6</td>
<td>LAN: Network port</td>
<td>Connect with LAN, Ethernet and RJ45 port.</td>
</tr>
<tr>
<td>7</td>
<td>USB port</td>
<td>Connect with USB drive, mouse, disk burner, or USB storage device</td>
</tr>
<tr>
<td>8</td>
<td>Sensor/Alarm</td>
<td>Sensor/Alarm port. Connect by referring to the interface definition below</td>
</tr>
<tr>
<td>9</td>
<td>RS485 port</td>
<td>RS485 port. Connect by referring to the interface definition below</td>
</tr>
<tr>
<td>10</td>
<td>Power port</td>
<td>Connect with the power supply, provided with the machine</td>
</tr>
<tr>
<td>11</td>
<td>Power switch</td>
<td>Turn on /off power supply</td>
</tr>
</tbody>
</table>
2.2.2 16 channel (For reference only)

The following diagram shows example of the interface definition of sensor input / alarm output /RS485:

<table>
<thead>
<tr>
<th>SN</th>
<th>Physical Interface</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Video input</td>
<td>Connect with CH1-16 video input device, standard BNC port</td>
</tr>
<tr>
<td>2</td>
<td>Audio input</td>
<td>Connect with CH9-16 audio input</td>
</tr>
<tr>
<td>3</td>
<td>Audio input</td>
<td>Connect with CH1-8 audio signal input, RCA port</td>
</tr>
<tr>
<td>4</td>
<td>Audio output</td>
<td>Connect with audio signal output, RCA port</td>
</tr>
<tr>
<td>5</td>
<td>VGA port</td>
<td>Connect with VGA display devices, such as PC monitor</td>
</tr>
<tr>
<td>6</td>
<td>HDMI port</td>
<td>HDMI high definition port</td>
</tr>
<tr>
<td>7</td>
<td>RS485 port</td>
<td>RS485 port. Connect by referring to the interface definition below</td>
</tr>
<tr>
<td>8</td>
<td>LAN: Network port</td>
<td>Connect with LAN, Ethernet and RJ45 port.</td>
</tr>
<tr>
<td>9</td>
<td>USB port</td>
<td>Connect with USB drive, mouse, disk burner, or other USB storage device</td>
</tr>
<tr>
<td>10</td>
<td>Sensor/Alarm</td>
<td>Sensor/Alarm port. Connect by referring to the interface definition below</td>
</tr>
<tr>
<td>11</td>
<td>Power port</td>
<td>Connect with the power supply DC12V 5A, attached with the machine</td>
</tr>
<tr>
<td>12</td>
<td>Power switch</td>
<td>Turn on/off power supply</td>
</tr>
<tr>
<td>13</td>
<td>IR Extender port</td>
<td>Connect IR Extender device for remote control</td>
</tr>
</tbody>
</table>

**Alarm input:** Check your purchased alarm device and connect a G (GND) foot to the port marked with “-” and connect the alarm channel to the port marked with “+”.

**Alarm output:** Two ports marked with OUT.

**PTZ port:** Check your purchased PTZ and connect to the two ports (+ -) marked with RS 485.
### 2.3 Remote Controller (For reference only)

Table 2-3 Operation of remote controller

<table>
<thead>
<tr>
<th>Item</th>
<th>Key title</th>
<th>Key function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1-8</td>
<td>Channel select 1-8; Numeric key</td>
</tr>
<tr>
<td>2</td>
<td>9、0</td>
<td>Numeric key</td>
</tr>
<tr>
<td>3</td>
<td>ALL</td>
<td>Multiple display mode</td>
</tr>
<tr>
<td>4</td>
<td>Menu</td>
<td>Enter Main menu/Exit</td>
</tr>
<tr>
<td>5</td>
<td>Mute</td>
<td>Mute On/off</td>
</tr>
<tr>
<td>6</td>
<td>Submenu</td>
<td>Go to submenu</td>
</tr>
<tr>
<td>7</td>
<td>▲</td>
<td>Up arrow key, volume increase</td>
</tr>
<tr>
<td>8</td>
<td>SEL</td>
<td>Select key/Edit key</td>
</tr>
<tr>
<td>9</td>
<td>◀▶</td>
<td>Left/Right key; Decrease/increase parameter value of control bar.</td>
</tr>
<tr>
<td>10</td>
<td>▼</td>
<td>Down arrow key, Volume decrease</td>
</tr>
<tr>
<td>11</td>
<td>◀▶</td>
<td>Rewind key</td>
</tr>
<tr>
<td>12</td>
<td>▶▶</td>
<td>Forward key</td>
</tr>
<tr>
<td>13</td>
<td>▶</td>
<td>Enter record search menu / Play key</td>
</tr>
<tr>
<td>14</td>
<td>•</td>
<td>Record key</td>
</tr>
<tr>
<td>15</td>
<td>■</td>
<td>Stop manual record; stop playing</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>Pause/Sequence key</td>
</tr>
</tbody>
</table>
Chapter 3 DVR Connection

3.1 HDD Installation

Caution: Please do not take out the hard drive when DVR is running or connected to power!

HDD Installation:
(1) Cut power firstly, and then remove screws on both sides and rear panel and open DVR upper cover.
(2) Connect HDD data line and power line to the main board. Install the HDD to fix it on the bracket and then connect the HDD power line and the data line.
(3) Put the upper cover back carefully

Note: If the user requires higher performance HDD, it is strongly recommended to use a special hard drive for security and protection.

3.2 IP Camera and Monitor Connection

DVR video output signals are transmitted to VGA monitor or HDMI monitor by VGA or HDMI cable, and DVR video can be monitored (Refer to section 1.2 Rear Panel). Refer to Chapter 6 System Connection Diagram.

3.3 Power Supply Connection

Please use attached power adapter to connect DVR. Before power on, make sure the cables on the audio and video I/O ports and network port are well connected. For audio ports, please use a microphone and other audio devices together with BNC connecting a line to input or output audio signals.

Chapter 4 DVR Boot up

4.1 System Initialization

After connecting the power cable of DVR to a wall outlet and pressing the power button, you will enter the DVR system initializing screen shown as Picture 4-1.

Note: The illustration in the user manual may not be the same as the menu interface in your monitor. All the illustrations are only for users’ reference.
4.2 Start-up Wizard

After DVR startup is completed, the startup wizard will be displayed. If you do not want to make any setting, you may click “Don’t show this window next time” to cancel, as shown in Picture 4-2. Wizard setting menu includes: Homepage, Network setup, Record Schedule and HDD.

1. Homepage and network setup. In network setup page, user may set the network environment of DVR, as shown in Picture 4-3

![Picture 4-2](Picture 4-2)

![Picture 4-3](Picture 4-3)

2. Record Schedule (Picture 4-4). It can set recording time and scheduled recording of DVR.

![Picture 4-4](Picture 4-4)
3. HDD Management (Picture 4-5). It supports HDD format and overwrite type.

4.3 Main Interface

Note: When internal HDD is not connected to DVR, the character “H” will appear on the lower part of the main interface and accompany buzzer alarm. If you want to disable the buzzer alarm, please enter [Event→Alarm] to disable HDD loss alarm, HDD space insufficiency alarm and set alarm output to “off”.
Chapter 5 DVR Menu

Popup Menu

After finishing system initialization, use the mouse to click right on preview interface or slide the mouse to the bottom of the screen to enter Pop-up Menu. Now you could perform parameter setting and operate on Main Menu, Multi-screen, Auto Cruise, Record Search, Sequence, Volume setting and Brightness setting, shown as Picture 5-1.

The options in the pop-up menu may be varied slightly per different parameter settings and application environment, and they are explained in detail in the following chapters.

![Picture 5-1](image-url)
5.1 Main Menu Guide
5.2 Main Menu

On LIVE mode, click the mouse button, or [Menu] button on the remote controller, or click [ ] icon on the toolbar to enter the main menu screen, as shown in Picture 5-2.

If system interface is locked, refer to section 5.3 to unlock by inputting password.

In Main Menu mode, you can make settings for Parameter, Record Search, Device, System, Advanced and Shutdown.

5.2.1 Parameter

1. Analog Channels

Go to “Main Menu” → “Parameter” → “Analog Channel”. As shown in picture 5-3, can increase or decrease the number of analogue channels. System will need to reboot to correct configuration parameters.

2. IP Channels

As shown in Picture 5-3, Picture 5-4.
- **Channel**: IPC camera channel
- **Edit**: Modify the name and location of channels, change other IPC or protocols, etc., as shown in Picture 5-5
- **State**: Display IPC on-line state
- **IP address**: Modify IP address of IPC camera.
- **IP Address/Domain**: IP address of the IPC connected of the channel
- **Subnet Mask**: IPC camera subnet mask
- **Port**: Connection port number of the currently set IPC.
- **Manufacturer**: Manufacturer for different IPC
- **Device type**: Add IPC with different protocols.
- **Protocol**: The selected access protocol for IPC to connect to NVR
- **MAC Address**: Physical address for device
- **Software**: Display current version of IPC.
5.2.2 Record Search

1. General

Go to “Main Menu” → “Record Search” → “Record Search” to enter the interface shown as Picture 5-29.

- **Channel**: Select the channel you want to search.
- **Type**: Select the type the playback record. There are two options, i.e. Normal and Alarm.
- **Start Time/End Time**: Select the specific period. The default setting is from 0:00 to 24:00.
- **Playback Channel**: Click a date and select corresponding channel in Playback Channel. The selected channels shall not be more than 16, as shown in Picture 5-30.
- **Playback**: Select the desired year and month and click “Search”. If there are any recordings, a yellow corner mark which shows the recording at specific date will appear at the down-right corner of the date sheet. Select the date checkbox and select playback channel and click Playback to enter the interface.
- **Playback interface**: You can use the Playback Control bar to operate the Fast Forward (X2, X4, X8 and X16), Rewind (X2, X4, X8 and X16), Slow play (1/2, 1/4 and 1/8 speed), Play, Pause/Frame. You can click or drag the volume control bar to adjust volume. When playback ends, DVR will remain in the playback interface, as shown in Picture 5-25.
Time Axis setup, file clip and zoom in/out

1) The DVR supports the processing control bar function when playing back record files (See Picture 5-31 and 5-32)

![Picture 5-31](image1) ![Picture 5-32](image2)

Time Axis zoom: Default value is 24 hours. Allows the user to select 2 hours, 1 hour, 30 minutes or user-defined.

- **Detailed Operation:**

  Fixed time axis: If you select [2h] option, that means the processing control bar cover two-hour video content. The time range refers to 1 hour before and after the middle point.

2) Record clip and backup function and playback zoom in/out function.

![Picture 5-33](image3) ![Picture 5-34](image4)

- **Clip and backup:** When it is under single channel playback, the [ ] icon will appear in the Play Control bar shown as Picture 5-28. Click the icon to start video clip function, click the icon again to end the function and pop up the dialog shown as Picture 5-34. Now, you may save the clipped video file.

- **Zoom out:** When it is under single channel playback, the [ ] icon will appear in the Play Control bar. Click the icon to zoom in certain area of the playback screen and right click mouse to return the Playback page (See Picture 5-34)
2. Events
Go to “Main Menu” → “Record Search” → “Events” to enter the interface shown as Picture 5-35.

In this page, the user may search details by date, time, channel and record type. The relevant operations are as follows:

Picture 5-35

- Previous page; Click this button to go to the previous page when viewing events (except the first page). When on the first page, click this button to display the event list in the first page.
- Next page; Click this button to go to the next page when viewing events (except the last page). When on the last page, click this button to display the event list in the last page.
- Jump; Input the desired record event page in the input box and click the arrow button to jump to the input page.

Two types of backup: Quick Backup and Backup
If you want to back up a recording in the detailed file list, you can tick the checkbox left of the recording (“√” means it has been selected) and click “Backup” to enter “Select backup type” (Make sure U disk or another portable storage device are connected), as shown in Picture 5-36.

Picture 5-36

If you want to back up with USB/ESATA, select USB/ESATA and click OK to start processing and you may see the backup progress shown as Picture 5-36.
3. Play Backup Files

1. Copy backup files to the computer.

2. Open playback player and click “+” or “New Tab”. For example, if you want to choose *.264, add backup file and select a file to play, as shown in Picture 5-38 and 5-39.
Play: Click to play file
Pause: Click to pause.
Stop: Click to stop playback.
Next: Click to play next file.
Previous: Click to play previous file
Slow Playing: click to play at 1/2, 1/4, 1/8, 1/16 speed.
Fast Playing: click to play at 2×, 4×, 8×, 16× speed.
Open file
Full screen display
Never on top
Always on top
On top during playing
Screenshot: Save path: installation directory\Video Client\Capture
Adjust volume
Add folder or file.
Delete file in the list.
Delete all files in the list.
Expand/pack up the list.
Advanced configuration: Set the save path for the captured pictures and set the display language of player, as shown in picture 5-40.

4. Picture

Go to "Main Menu" → "Parameter" → "Picture 5-41"
Support search picture for 5000pcs each time. If the picture number greater than this value, please adjust the date (time) of the current search and search again.
Go to “Main Menu” → “Record Search” → “picture” to enter the interface shown as Picture5-42. In this page, user may search details by date, time, channel and record type. The relevant operations are as follows:

Previous page: Click the button to go to previous page when viewing events (except the first page). When viewing the first page, click this button to display the event list in the first page.

Next page: Click the button to go to next page when viewing events (except the last page). When viewing the last page, click this button to display the event list in the last page.

Jump: Input the desired record event page in the input box and click arrow button to jump to the input page.

Two types of backup: Quick Backup and Backup

Picture 5-42

Play

Backward Play

Stop

Forward one frame

Backward one frame

Single, Quarter, Nine window display.
5.2.3 Device

1. HDD

Go to “Main Menu” → “Device” → “HDD” to enter the interface shown as Picture 5-43.

When the HDD is connected, the system will automatically detect if it is normal or not; if the HDD needs to be formatted, status will be shown as “Not formatted”. In this case, select the HDD and format it. If the system detects HDD is normal state, the HDD status will be shown as “Normal”. See Picture 5-44

- **No.**: Number of HDD connected to system.
- **Status**: It shows the status of HDD. It will be available only when HDD is “Normal”.
- **Free/Total Space**: Remaining or total space of HDD
- **Free Time**: Remaining time for HDD recording per currently set “Resolution”, “Encoding Rate” and “Frame Rate” of image.
- **Auto-overwrite**: When set to ENABLE, the NVR will overwrite the oldest files on the hard drive if hard drive space is full. When set to DISABLE, the DVR will stop recording if hard drive space is full. Overwrite time: 1 day, 3 days, 7 days, 14 days, 30 days and 90 days. It means the longest storage time of recordings in HDD. If the time is over, the recordings will be deleted. For example, if the time is set as 3 hours and the data in HDD includes 12:00-20:00, then data from 17:00 – 20:00 will be saved and data from 12:00 – 16:59 will be overwritten and deleted.
- **Format HDD**: Format HDD for the first use.

**Note**: Recording can only be performed when HDD is in “Normal” state.
5.2.4 PTZ and Cloud Storage

1. PTZ
   Go to “Main Menu” → “Device” → “PTZ” to enter the interface shown as Picture 5-45.

   Select a PTZ channel and set PTZ protocol (Pelco-D, Pelco-P), Baud rate (1200, 2400, 4800, 9600), DataBit (8, 7, 6, 5), StopBit (1, 2), Parity (None, Odd, Even, Mark Space), Address and Cruise.

   Parameter setting for above channels must be the same as that of PTZ so that PTZ can be controlled. The protocol, baud rate and PTZ address must be set.

2. Cloud Storage

   Cloud: Cloud Space (Network HDD). It can upload the DVR periodically captured pictures and motion detection captured pictures to Dropbox

   1) Register at the Dropbox website, Address: https://www.dropbox.com/
   2) Configure network to ensure the normal operation of DVR network.
   3) Configure Cloud: Enable Cloud and set the channel and interval for DVR periodically captured pictures; Enable Motion Detection to get captured pictures for motion detection.
   4) DriName refers to the name created in the folder of Dropbox and the name can be defined by the user, e.g. CloudDVR000. The folder is to store the DVR periodically captured pictures (See Picture 5-46).
   5) Click [Advanced E-mail Setup] to set the Email box. User shall input his Email. (See Picture 5-47)
6) Click [Active Cloud] to activate Cloud and Email will receive the URL related to Cloud
   User input the registered user name to visit the above website and the following interface will
   be popped up.

7) Click the icon at the upper-left to view the folder (CloudDVR000) made in the 4th step.

8) Enter the folder to view the DVR captured pictures.

5.2.5 System

1. General
   Go to “Main Menu” → “System” → “General” → “General” to enter the interface shown as Picture 5-48

   ![Picture 5-48]

   User may set Date, Time, Date Format, Time Format, Language, Video Format, Menu Timeouts and Show Wizard in this page.

2. DST
   Go to “Main Menu” → “System” → “General” → “DST” to enter the interface shown as Picture 5-49

   ![Picture 5-49]

   Enter the interface shown as Picture 5-49 to set DST, Time Offset, Start Time and End Time.
3. NTP
Go to “Main Menu” → “System” → “General” → “NTP” to enter the interface shown as Picture 5-50.

- **NTP service**: Enable/Disable NTP function.
- **Server Address**: Select NTP server (time.windows.com, time.nist.gov, pool.ntp.org).
- **Time Zone**: Corresponding time zones for various nations or regions.
- **Update Time**: Enable NTP function and save parameters and click Update Time to calibrate the system time.

**Note**: When NTP function is set to “Enable”, system will calibrate the system time at every 00:07:50 and every start-up.

4. Users
Go to “Main Menu” → “System” → “Users” to enter the User interface shown as Picture 5-51.

It supports up to seven users, including one administrator and six users. Click [Edit] button to enter the [User Edit] interface to input user name and password, as shown in Picture 5-46

User Name consists of 8 characters and password is composed by number 0-9 with max length of 8 numbers

Set user password. Admin is authorized to set user common user’s authority, as shown in Picture 5-52

- **Log Search**: allow you check all the system logs.
- **Parameter**: allow you set all the parameters.
- **Maintain**: allow you update version, recover ex-factory value, device reboot and shut down.
- **Disk Management**: allow you manage and control the HDD and USB drive.
- **Remote Login**: allow you remotely login DVR.
- **SEQ Control**: allow you sequence live screens for all the channels.
- **Manual Record**: allow you manually start/stop record.
- **Backup**: Tick-select the ENABLE “√” option and select channel for backup, the user can back up the recording in the selected channel.
- **Live**: Tick-select the ENABLE “√” option and select a channel and the user can view all the live images in the selected channel.
- **Playback**: Tick-select the ENABLE “√” option of Playback and the common user can playback the selected recording in the channel.
5. User Edit

User may enable or disable the function or set password (See Picture 5-53)

![Picture 5-53]

6. Info

Go to "Main Menu" → "System" → "Info" to enter the interface shown as Picture 5-54.

![Picture 5-54]
7. Log

Go to “Main Menu” → “System” → “Log”, as shown in Picture 5-55.

![Picture 5-55]

User may search log information in different periods. Click “Backup” to save all the log information, as shown in Picture 5-55.

5.2.6 Advanced

1. Maintain

Go to “Main Menu” → “Advanced” → “Maintain” to enter the interface shown as Picture 5-56.

- **Auto Reboot**: Enable the auto maintenance function to reboot system regularly at every day/week/month. When Auto Reboot is enabled, DVR should be in the main interface and no user operation.
- **Update**: Click Update to enter the Device interface and select the updating file in USB to execute.

![Picture 5-56]

- **Load Default**: If [Load Default] is selected, you can initialize the system to the ex-factory default. Click “Load Default” and select items to be restored.
- **IPC Upgrade**: Support upgrade connected IPC.
- **Load Settings**: Load parameters in the removable storage device to DVR.
- **Save Settings**: Save the set parameters of user’s DVR to the removable storage device.

**Note**: Do not take out the USB memory or cut off the power during upgrading. When the update is done, system will be automatically restarted. After about 5 minutes, the upgrading will be finished. It is recommended to **load ex-factory default** after upgrading. The auto maintain
function can be effective only when DVR returns back to Preview mode with no any operation within the set auto maintain time.

2. Events

Go to “Main Menu” → “Advance” → “Events” to enter the interface shown as Picture 5-57.

- **Event Type**: Support three abnormal types: Disk Full, Disk Error and Video Loss.
- **Enable**: Active alarms for abnormal situations.
- **Alarm Out**: Enable or disable alarms
- **Latch Time**: How long the buzzer will sound when external sensor alarm is detected (10s, 20s, 40s, and 60s).
- **Show Message**: You can set show message on the screen when sensor alarm is detected.
- **Buzzer**: How long the buzzer will sound (10s, 20s, 40s, and 60s).
- **Send Email**: Select to send Email to specified Email address when abnormal events appear.

5.2.7 Shutdown

- Go to “Main Menu” → “Shutdown” to enter the interface shown as Picture 5-58.
5.3 Menu Lock

In consideration of system safety, user may click the icon on the toolbar when they go away from DVR and the system interface will be locked. User must input Device ID, User Name and Password on the login interface to unlock (Default: User Name: admin, Password: blank). The login interface is as shown in Picture 5-59.

![Login Interface](image)

Note: Administrator has all authorization of menu operation and users have limitations for authorization and must get authorization from administrator.

5.4 Split Mode

There are many display modes in video channel, including single channel display, SEQ display and split mode.

5.5 Record Search

Click icon on the toolbar to enter the Record Search interface to search and playback. Refer to former section for specific operating method.

5.6 Mute

Click icon on the toolbar or Mute button on the panel or remote controller to control the mute of NVR.

5.7 Start Sequence

After set channel sequence time, click Start Sequence icon on the toolbar to start sequence.
5.8 Adding an IP Camera

To connect an IP camera (IPC) to the DVR please use the following steps:

1. Locate the IP Channel on the main ‘Live View’ screen (note you may need to change the layout to view the additional channels). If you have selected the right channel you should see a button with the ‘+’ symbol as well as a red outline around the channel. *(See Picture 5-60)*

2. Select the + button which will bring up a new menu.

3. The ‘Quick Add’ menu will now appear and will show the IPCs available within your network. *(See Picture 5-61)* Should the device does not appear first time please click the ‘Search’ button.

4. Select the IPC which will populate the details on the right-hand side of the ‘Quick Add’ menu. *(See Picture 5-62)*

5. Enter in the password for the camera and click enter. Please note the default password for the IPC will be set as “admin”. *(See Picture 5-63)*

6. Select ‘Add’. The menu will now disappear and you will be back to the main ‘Live View’ screen.

7. You should now be connected to the IP camera. Should the camera not show an image you may need to connect the camera to your network. Please see ‘Connecting a camera to the network’ for more details.
Chapter 6 Web Application Manager

6.1 ActiveX control download and installation

Open your web browser and input the IP address and Web port number of DVR, such as: http://172.18.6.202:8080/. If your computer is connected to internet, it will download and install “ActiveX” plug-in automatically. If you use Windows Vista or Windows 7 and unable to backup or record during remote operation, please check the user authorization.

WIN7:

Note: If the ActiveX control is not downloaded successfully, please check if your browser’s safety level or firewall setting is set too high. Please open IE browser → [Menu Bar]Tools → Internet options → Security → Internet → Custom Level → Enable the options (Refer to the Picture 6-1-1 and Picture 6-1-2).

If the web application runs for the first time, please wait for about one minute to finish downloading. If you want to use the undated ActiveX control at a computer which you have already logged in before, please delete the original control and click [Start → Run] and then input the command characters: “regsvr32/u HiDvrOcx.ocx”. Press OK. When you log in at the next time, new ActiveX control will be automatically downloaded. Please wait.
6.2 Web Application Manager Login

After ActiveX controls installation, please input user name and password, select Main Stream or Sub Stream (In general, select main stream for intranet and sub stream for outer net), and input web port number and select language in the interface (See picture 6-2). There is an option for opening all channel preview, select it to open all live pictures. Press Login to log in client and remotely visit DVR. The default password is blank and admin is authorized to modify the password. Set password as per introductions of user management in system setting.

![User login](image)

**Picture 6-2**

After successfully log in, it will enter the real-time monitoring interface and connect video automatically, as shown in Picture 6-2.

6.3 Live Interface

Log in and enter the live interface, as shown in Picture 6-3.

![Live Interface](image)

**Picture 6-3**
6.3.1 Menu Bar

Menu Bar: Live, Replay, Configuration, Local Setting and Logout.

1. Live Display

Log in the Web Application Manager, system will be defaulted to enter <Live> interface shown as Picture 6-3. You can click [Play] button to Open/close live images, on-spot record, capture, and many live display modes.

**Buttons on a single live interface:**

- : Volume switch
- : Record switch: the remote record switch of client. Record will be automatically saved to a specified position on PC after the function is enabled.
- : Snapshot: Capture the selected live image and save it to a specified position on PC. The image is saved as *.bmp format.
- : Open or close the images on Live window.

Or **click the right key of mouse on each <Live> window** to pop up channel operation menu as shown in Picture 6-4

**Show bit rate:** Tick Show Bit rate to show IPC bit rate in current window.

- : Switch display mode in channel window
- : Open all the Live channels.
- : Close all the Live channels
- : Display previous group of channels
- : Display next group of channels
- : Click to maximize the current window to full screen. Right click to popup menu option and select Exit Full Screen.

2. Video Control
6.3.2 Playback

Click to enter Playback interface to remotely view the recordings in DVR HDD, as shown in Picture 6-6.

![Picture 6-6](image)

It supports 1 to 4 channel record playbacks.
1. Record Search

Record playback procedure:
Firstly, select the date you want to check and tick 1 to 4 channels. Any record files in current channel at current date will be displayed in the status bar of the interface. (See Picture 6-7)

Secondly, select record type (Normal record, Alarm record and All) and channels, and then click "Search", and time axis panel will display specific time quantum, as shown in Picture 6-8. On the time axis, red part stands for alarm record, yellow stands for normal record and original part stands for no record during this period.

Before playback, choose to enable playback 4 channels synchronously. If you tick-select "Synchronous playback", that means the selected channel will playback synchronously; otherwise, you could separately control the channels playback.

Click \(\text{Play} \) to start recording playback. When mouse cursor is moving on the time axis, the time point of current position will be displayed on the time axis screen. Click to locate the record. Click the icon \(\text{Zoom in} \) or \(\text{Zoom out} \) to zoom in/out the time bar display ratio, as shown in Picture 6-8.
2. Playback Control

Playback control bar, as shown in picture 6-9.

![Picture 6-9](image)

Detailed brief description is shown as below list

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Play" /></td>
<td>Play</td>
<td><img src="image" alt="Pause" /></td>
<td>Pause</td>
</tr>
<tr>
<td><img src="image" alt="Stop" /></td>
<td>Stop 1/2, 1/4, 1/8, Slow playing 1/2, 1/4, Fast playing 1/2/4/8</td>
<td><img src="image" alt="By frame" /></td>
<td>By frame Stop playing all the files</td>
</tr>
<tr>
<td><img src="image" alt="Record Clip" /></td>
<td>Record Clip Single channel mode</td>
<td><img src="image" alt="Snap" /></td>
<td>Snap Quad mode</td>
</tr>
<tr>
<td><img src="image" alt="Download" /></td>
<td>Download Full Screen</td>
<td><img src="image" alt="Open all the playback channels" /></td>
<td>Open all the playback Stop playing all the playback</td>
</tr>
</tbody>
</table>

**Table 6-1**

**Record file clip**

After opening playback, click ![Record Clip](image) icon to clip the selected file; and click again to stop the clip function. Then playback clip is successfully done. Record clip file will be saved as *.264 format.
Snapshot function

Move the mouse cursor to the channel you want to capture, and click the icon to capture the live images remotely. After capturing the images successfully, a path prompt box will be popped up, as shown in Picture 6-10.

![Path to Save Screen Shots](image)

Picture 6-10

The captured file will be saved as .bmp format.

Record file download

Click download icon "[ ]" on the control bar to display all the matched record file per the search conditions of channels, as shown in picture 6-11.

![Download file Playback window](image)

Picture 6-11

Tick-select the record file you want to download and click [Start download]. System will download the record file in sequence and save to local PC. The downloading file will be displayed in percentage form. After downloading finishes, “Complete” will be displayed on the status bar.
6.3.3 Remote Setting

Click Remote Setting to enter the interface shown as Picture 6-12, including Display, Record, Network, Alarm, Device, System and Advance.

1. Display

1) Analog Channels: Analog channel setting
2) IP Channels: Digital (IP) channel setting

Picture 6-14

3) Live:

Picture 6-14-1

Channel: Select analog channel or digital channel.
Channel Name: Define a camera name for the camera.
Show Name: Enable or Disable display camera name.
Record Time: When enable, the time will be recorded on your video.
Date Format: Set IPC date format.
Time Format: Set IPC time format.
Refresh Rate: Set IPC refresh rate.
OSD Position: Set IPC date and time display position.
Color: Set channel color.
Covert: Enable or Disable video covert.
Show Time: Enable or Disable time display.
4) Privacy Zone: Each channel can set 4 privacy zones, as shown in Picture 6-14. The relevant parameters should be consistent with DVR local setting. Select zones to be deleted and click “Delete” and click “Save” at up-right corner.

2. Record
Click <Record> option to unfold its sub-options: Record parameter and Schedule.

1) Record Parameters. The parameters should be consistent with DVR local setting, as shown in Picture 6-15.
2) Record Schedule. The parameters should be consistent with DVR local setting, as shown in Picture 6-16.

![Picture 6-16](image)

Green stands for Normal record; Yellow stands for Motion detection; Red stands for I/O trigger record.

3) Mainstream: User may set Mainstream, as shown in Picture 6-17. The relevant parameters should be consistent with DVR local setting.

![Picture 6-17](image)
1) Substream:

- **Channel**: Select analog channel or digital channel.
- **Resolution**: Select recording resolution.
- **FPS**: Select recording frame rate.
- **Bitrate Mode**: Select default or custom bit rate.
- **Bitrate**: Select recording bit rate.

![Picture 6-17-1](image1)

2) Mobile stream:

- **Channel**: Select analog channel or digital channel.
- **Resolution**: Select recording resolution.
- **FPS**: Select recording frame rate.
- **Bitrate Mode**: Select default or custom bit rate.
- **Bitrate**: Select recording bit rate.

![Picture 6-17-2](image2)
3) Capture:

- **Channel**: Select analog channel or digital channel.
- **Auto Capture**: Enable/Disable auto capture
- **Stream Mode**: Select main stream or sub stream of capture.
- **Alarm Interval**: Select interval time of alarm capture
- **Manual Capture**: Enable/Disable manual capture

![Capture Interface](Picture 6-17-3)

4) Capture Schedule:

- **Channel**: Select analog channel or digital channel
- **Normal**: Conventional capture setting
- **Motion**: Motion detect capture setting
- **Alarm**: Alarm capture setting

![Capture Schedule Interface](Picture 6-17-4)
6.3.4 Network

Unfold <Network> to show its sub-options: Network, Email, and DDNS configuration, as shown in Picture 6-18.

1. LAN setting

DVR supports Static/DHCP/PPPOE modes. System default network type is <Static>. User can set parameters as required. After the network parameters are modified successfully, DVR will automatically restart to make the setting effective.

[Image: Picture 6-18]

2. Email

Email: Set DVR alarm Email configuration parameters, including Email address, SSL, Email Enable, Interval and Email Schedule, etc. Detailed parameters should be consistent with DVR local setting. Refer to Picture 6-20.

[Image: Picture 6-20]
4. DDNS
DDNS: After user applies for DDNS service, you could enable <DDNS> function under any one network type mode (Static, DHCP and PPPoE). And you may remotely visit the NVR through domain name (http://domain name: Web port number.). When visiting DVR by using DDNS, user should make sure port and current IP can be normally connected in public network. Details settings, including server address, host, user, and password, should be consistent with NVR local setting. Please refer to Picture 6-21.

5. RTSP
Refer to Picture 6-22. The relevant parameters should be consistent with DVR local setting.

6. FTP
Refer to Picture 6-23. The relevant parameters should be consistent with DVR local setting.
6.3.5 Alarm

Alarm setting includes Motion Detection and I/O Alarm Parameters.

1. Motion Detection

Configure Sensitivity, Alarm out, Alarm Record and Alarm Capture, etc. Detailed setting should be consistent with DVR local setting (See Picture 6-24).

![Picture 6-24]

2. I/O Alarm

Set parameters for I/O Alarm, Alarm Out, Alarm Record, Send Email, etc. Detailed setting should be consistent with DVR local setting (See Picture 6-25).

![Picture 6-25]
6.3.6 Device

Click <Device> to unfold its sub-options: HDD and PTZ

1. HDD

User may check HDD status of DVR and overwritten time. Detail setting should be consistent with DVR local setting. Please refer to Picture 6-26.

![Picture 6-26](image)

2. PTZ

User may set the relevant parameters of PTZ. Detail setting should be consistent with DVR local setting. Please refer to Picture 6-27.

![Picture 6-27](image)
3. Cloud Storage

User may set the relevant parameters of Cloud Storage. Detail setting should be consistent with DVR local setting. Please refer to Picture 6-28-1 and 6-28-2.

![Picture 6-28-1]

![Picture 6-28-2]
6.3.7 System

Click <System> option to unfold its sub-options: General, Users and Information.

1. General

User may check DVR language and video system and set system time, date/time format, menu display time, DST and NTP parameters shown as Picture 6-29. Detailed setting should be consistent with DVR local setting.

![Picture 6-29]

2. Users

User may configure user name and password and detailed setting should be consistent with DVR local setting. Please refer to Picture 6-30.

![Picture 6-30]
3. Information
User may search device name, device number, device type, MAC address, software version, IE version and hardware version of DVR shown as Picture 6-31.

4. Channel Info
Displays all channels camera relevant information
5. Channel Info

![Channel Info](image)

Picture 6-31
Displays all channels camera relevant information

6.3.8 Advanced

Click Advance to unfold its sub-options: Firmware Update, Load default, Events and Maintain.

1. Firmware Update

User may remotely update DVR system, as shown in Picture 6-32.

![Firmware Update](image)

Picture 6-32
Updating procedure:
Firstly, select the update file path. The file format is .sw. Please refer to Picture 6-33.

Secondly, click “Start” to start updating. The updating progress can be seen on the screen.

2. Load Default
User may remotely restore default parameters of DVR, with same setting method as that of DVR, shown as Picture 6-34.

3. Events
User may configure Event Type, Buzzer, Send Email, Show Message and other parameters shown as Picture 6-35. Detailed setting should be consistent with DVR local setting.
4. Maintain
Allow you remotely set auto maintain time for DVR shown as Picture 6-36. Detailed setting should be consistent with DVR local setting.

![Picture 6-36](image)

6.3.9 Local Setting
User may set Record Path (save Live record and Playback clip file), Download Path for remote file, Snapshot Path for captured pictures, Interval for switching record files (Packaging time), and File type (H264 and AVI) shown as Picture 6-40.

![Picture 6-40](image)

6.3.10 Logout
Click **Logout** to log out and return to the login interface.
Chapter 7 Appendix

7.1 Troubleshooting

1. **Q:** What can I do if the system does not detect the HDD?
   **A:** Check if the power supply system is properly connected and data cord and power cables are securely connected and if something wrong with the HDD interface. Or you may check if your HDD is supported by referring to the specifications or descriptions.

2. **Q:** I have changed the password but forget the new password, how can I access the system?
   **A:** If you forget system password, please consult with our technical personnel. We strongly suggest that the user set a password that is easy to remember and relatively safe. If you have safety requirement, please do not set a very simple password, such as 000000.

3. **Q:** We see abnormal video signal or even no video signal by connecting the DVR and camera together. Power supply for both devices is OK. What is wrong?
   **A:** Check network cable at DVR side to see if the cable is firmly connected and if it is worn out and needs to be replaced, or to check if NTSC or PAL is selected consistently.

4. **Q:** How to prevent DVR from being influenced by heat?
   **A:** The DVR needs to dissipate heat while it is running. Please place the DVR in a place with good air circulation and away from heat sources to ensure stability and life of the DVR.

5. **Q:** The remote controller of DVR doesn't work while the monitor screen is OK and panel keys are functional. Why?
   **A:** Operate again by aiming the remote controller at the IR receiver on the front panel. If it still doesn’t work, please check if the batteries in the remote controller are dying. If not, check if the remote controller is broken.

6. **Q:** I want to take out HDD from my PC and install it in DVR. Can it work?
   **A:** All HDDs supported by the system can be used. But remember, once DVR runs, the data on your HDD will be lost.

7. **Q:** Can I playback while recording?
   **A:** Yes. The system supports the function of playing while recording.

8. **Q:** Can I clear some recordings on HDD of DVR?
   **A:** In consideration of the file security, you may not clear part of recordings. If you want to remove all the recordings, you can format HDD. Alternatively, you can enable overwrite mode.

9. **Q:** Why can’t I log in DVR client?
   **A:** Please check if the network connection settings are correct and RJ-45 port is with good contact. And check if your account and password are correctly input.

10. **Q:** Why can’t I find any recordings during playback?
    **A:** Please check if the data line connection for HDD is OK and system time is properly adjusted. Try a few times and restart. If it still doesn’t work, check if the HDD is broken.

11. **Q:** Why can’t I use the DVR to control the PTZ?
    **A:** Please check if:
    1. PTZ in the front side has malfunctioned.
    2. The setting, connection and installation of PTZ decoder are not correct.
    3. PTZ setting of DVR is not correct.
    4. Protocol of PTZ decoder does not match that of DVR.
5. Address of PTZ decoder does not match that of DVR.
6. If many decoders are connected, the farthest side of AB line of PTZ decoder should be added 120Ω resistance to realise reflection suppression and impedance matching. Otherwise, PTZ control will be unstable.
12. Q: Why doesn't motion detection work?
   A: Please check if the motion detection time and motion detection regional setting are correct and if the sensitivity is set too low.
13. Q: Why doesn't alarm work?
   A: Please check if the alarm setting, alarm connection and alarm input signals are correct.
14. Q: Why does the DVR keep beeping?
   A: Please check the alarm setting, check if motion detection function is enabled and object motion is detected all the time and if I/O alarm is set to Always Off. Besides, refer to corresponding HDD alarm setting.
15. Q: Why can’t I stop recording by pressing “STOP” button or click “Stop Recording” in the context menu?
   A: Pressing Stop or Stop Recording can only stop manual record. If you want to stop Scheduled recording in certain time, please change the setting to No Record. To stop Startup recording, please change record mode to scheduled recording or manual recording. Then you may stop recording by the prescribed methods. And another way of stopping recording is to set the channel as off status in record setting.

7.2 Usage Maintenance
1. To shut down DVR, please firstly shut down the system and then turn off the power. Do not turn off the power directly or HDD data may be lost or damaged.
2. Please keep DVR away from heat sources or places.
3. Clean the internal dust regularly. Make sure the proper ventilation of DVR to ensure the good heat dissipation.
4. Please do not hot wire audio and video cables, or cables connected to ports like RS-232 or RS-485. Otherwise, the ports will be damaged, and warranty voided.
5. Please check the HDD cable and data cable regularly to see if they are ageing.
6. Please prevent the audio and video signals of DVR from being intervened by other electronic devices, and avoid the HDD from being damaged by static electricity and induced voltage.
7. If the network cable is frequently plugged/unplugged, it is suggested to replace connecting line regularly, or the input signal may be unstable.
8. This is ‘A class’ product, and as such, it can cause wireless interference during operation. In these situations, the user will need to take measures to work around it.
Chapter 8 Warranty

Thank you for purchasing MaxxOne products. To protect your rights and interests, please read the following Warranty Policy carefully.

8.1 Limited Warranty

This document sets out the standard MaxxOne warranty policy for MaxxOne products. MaxxOne provides limited warranty to all MaxxOne products purchased within the European Economic Area. The warranty covers the main device, antenna and external power supply for any material or workmanship defects during the Warranty Period (defined below). Packaging, various cables, software products, technical data and other accessories are not covered under this warranty. The maximum liability of MaxxOne is equal to or no higher than the product's purchased price.

MaxxOne will not refund the defective products. If covered by the terms of this warranty MaxxOne will repair or replace the defective product at MaxxOne's discretion. If the returned product is discontinued, and a repair is not economically possible, MaxxOne will replace it with an equivalent product.

The purchaser is responsible for any carriage costs for sending products to and from their authorised service centre, details are laid out in the Normal Replacement Procedure.

Note: Internal hard drives installed post-production into our digital video recorders are not installed by MaxxOne and are also not covered under this warranty, please refer to the hard drive manufacturer’s own warranty terms or contact the original place of purchase for assistance.

8.2 Warranty Period

The warranty period for this product is 2 years. The ‘Warranty Period’ duration is from the date of purchase by the original end-user customer, if the Equipment has been repaired or replaced under warranty, the warranty applies until the end of the original Warranty Period, or three (3) months from the date of such repair/replacement, whichever is longer.

8.3 Warranty Exclusions

Conditions disqualifying a product from Warranty include but are not limited to the following:

- Any defect caused by misuse, improper installation or maintenance that is not required by MaxxOne;
• Any defect caused by software, virus or improper use of self-made and non-public software;
• Any product beyond the limited free replacement and repair period;
• Any equipment where the manufacturer’s serial number has been altered, deleted, removed, or made illegible;
• Any discrepancy between the product type and barcode or warranty card;
• Any unauthorised modification to the supporting setting files or any authorized disassembly and repair;
• Any defect caused by improper use in the working conditions beyond those stated in the literature (for example: working conditions that are too hot/cold, wet/dry; high altitude; instable electric current and voltage and so on)
• Any defect caused by personal disaster or improper maintenance, such as mechanical damage, serious oxidation and rusting, animal damage, over exertion and so on;
• Any defect caused by transportation or loading during returning voyage;
• Any defect caused by natural disaster such as earthquake, fire, flood, thunder strike and so on;
• Any other defects that are not caused by workmanship, technique, product quality and the like;
• Any consumable parts
• Any equipment which has been adjusted or adapted without MaxxOne’s prior written consent, including (but not limited to): cutting/altering cables (internal or external), upgrading the Equipment beyond specifications or features described in the instruction manual, or modifications to the Equipment to conform it to national or local technical or safety standards in countries other than those for which the Equipment was specifically designed and manufactured.*

Conditions that Disqualify Product from Warranty in the external power supply include:

• The returned power supply has obvious damage, fissure, broken pins, severe deformation;
• The returned power cord is broken, has naked core and damages like this.

*Installation of a hard disk drive to a bare bones unit is an accepted modification and is allowed under this policy under the condition that no other internal parts are affected.

**8.4 Warranty Claims and Validation**

Warranty claims are subject to:

• The purchaser presenting to MaxxOne (either via the properly authorized MaxxOne distribution partner from whom the product was purchased or by contacting MaxxOne directly, see Normal Replacement Procedure stated below) the original sales invoice (indicating the date of purchase by the original end-user customer, serial number and the original dealer’s name) together with the defective Equipment within the Warranty Period; and
• Inspection by MaxxOne (or its authorized service agent) disclosing to the satisfaction of MaxxOne that the defect in the Equipment has arisen from defects in workmanship or materials during the Warranty Period;
• none of the exclusions apply.

8.5 Limitation of Liability

The express warranty above shall be the full extent of MaxxOne’s liability. Accordingly, MaxxOne disclaims all other liability for loss or damage howsoever caused (except for death or personal injury resulting from proved negligence) arising out of the purchase, possession, sale or use of the equipment and all other terms, conditions, and warranties express or implied, arising out of trade usage or otherwise are hereby excluded. In no event shall MaxxOne be liable for any special, incidental or consequential damages including, but not limited to the infringement of any intellectual property rights, delays, or inaccurate information or advice. Notwithstanding the foregoing the customer’s statutory rights (if any) are not affected.

8.6 Miscellaneous Provisions

• No person, including any distributor, dealer, agent or representative of MaxxOne is authorised to assume for MaxxOne any liability on its behalf or in its name.
• The purchaser is not entitled to rely on any representations made either orally or in writing by or on behalf of MaxxOne save for those made fraudulently.

8.7 Standard Warranty Conditions

Customer Data on media:

MaxxOne has no liability to the owner of the Data or any third party for any loss, damage or corruption to any data, information or footage (together "Data") stored on any media passed to MaxxOne. In the event that the media contains Data, the destruction of which would lead to the owner suffering loss, MaxxOne therefore recommends that the owner of such Data, makes suitable copies of all such Data before the media is supplied to MaxxOne, and/or obtains adequate insurance to protect themselves from such loss.

8.8 Repair/Replacement Procedure

Please refer to http://www.maxxone.com/warranty for the latest information on our repair and replacement procedure.
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- Our products are under continual improvement and we reserve the right to make changes without notice. No guarantee is given as to accuracy of its contents.
- We do not undertake any responsibility for the harm caused by using our product.
- The product picture may differ from actual product, and is only for your reference. The accessories contained may differ by region. For details of accessories, please refer to your local distributor.

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