Regulatory information

FCC information

FCC compliance: This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial and residential environment. FCC conditions

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.

EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.

2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information, see: www.recyclethis.info.

2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.
Precautions and Declaration Tips

Before connecting and operating your NVR, please be advised of the following tips:

Precautions
• Please place NVRs within the permissible range of temperature and humidity.
• Do not install the NVRs in a damp, dusty or sooty place.
• Place the product horizontally and take care to prevent it from falling.
• Install in a well-ventilated place and do not block the vent.
• Do not place containers filled with liquid on the device.
• Do not place other equipment above the product.
• Do not disassemble this product.
• Please select the hard disk recommended by manufacturers which is suitable for the requirements of the NVR.

Declaration
• The manual is for reference only.
• This manual may contain inaccurate data or printing errors.
• The products described in this manual may be updated at any time.
Trademarks and Registered Trademarks

- Windows and Windows mark are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- HDMI, HDMI mark and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- The products contained in this manual are authorized by HDMI Licensing LLC with the usage rights of the HDMI technology.

VGA is the trademark of IBM.

UPnP™ is a certification mark of the UPnP™ Implementers Corporation.

Other names of companies and product contained in this manual may be trademarks or registered trademarks of their respective owners.
Product Introduction

Product Overview
This product is designed specifically for the field of video surveillance and adopts H.265 video compression, hard disk recording, TCP/IP transmission and a Linux based OS in addition to advanced technology in the information technology industry. This enables reliable and high picture quality. This product complies with standards of GB 20815-2006《video security surveillance digital video recording》promulgated by the State. At the same time, the product supports the ONVIF protocol(base on 《ONVIF ™ Core Specification》Version 2.2) and is compatible with the network cameras which supports ONVIF protocol. This product can realize the switching of NVR mode or mixed mode (Mixed mode can both connect with analog channels and network cameras when the NVR modes only connect with network cameras) ,recording, playback, monitoring, synchronization of audio and video. Besides, the products support advanced control technology and strong network data transmission capacity.

Feature
Real-time monitoring
● Has a composite video signal interface
● Support TV, VGA or HDMI output simultaneously

Compression function
● Use H.265 video compression standard
● G.711 audio compression standard
● Has high definition, low code rate of the video coding and storage.

Recording function
● Supports timing, linkage alarm, motion detection, SATA hard and local hard disk
● NVR data backup
● Network backup

Video playback function
● Achieve searching videos by a variety of conditions, playback in local and network.
● Support multiple videos playback, fast playing, slow playing and frame-by-frame playback.
● Video playback can display the exact time of the incident.
● Provide timeline retrieving page for quick searching.

Camera control and alarm
● Can control camera remotely
● Can equip many alarm input interfaces.
● Can be connected to various types of alarm devices.
● Dynamic detection, video loss, video block, multiple alarm output
● Scene lighting control can be realized.
Communication Interface
- Equipped with USB 2.0 high-speed interface or ESATA interface;
- Allow many backup devices;
- Equipped with standard Ethernet interface;
- Plug and play in a variety of network conditions;

Network functions
- Support TCP / IP, UDP, RTP / RTSP, DHCP, PPPOE, DDNS, NTP etc.
- Support real-time network monitoring, video playback;
- Control and management functions;
- Built-in WEB Server, directly accessible through a browser;

Mode of operation
- You can operate using the front panel or the mouse;
- Equipped with a simple, intuitive graphical interface;
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Chapter 1  Introduction

1.1  The Front Panel

Figure 1.1 Front Panel of 8/16ch

Table 1.1 Description of Front Panel

<table>
<thead>
<tr>
<th>Index</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IR</td>
<td>Receive the remote control signal.</td>
</tr>
<tr>
<td>2</td>
<td>USB</td>
<td>Connect the mouse and HDD.</td>
</tr>
<tr>
<td>3</td>
<td>PWR Lights</td>
<td>Power ON/OFF</td>
</tr>
<tr>
<td>4</td>
<td>HDD Lights</td>
<td>HDD directions</td>
</tr>
<tr>
<td>5</td>
<td>NET Lights</td>
<td>Net connect directions</td>
</tr>
</tbody>
</table>

1.2  The Rear Panel

Figure 1.2 Front Panel of 8/16ch

Table 1.2 Description of Rear Panel

<table>
<thead>
<tr>
<th>Index</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Audio in/out</td>
<td>The input/output interface of the audio signal</td>
</tr>
<tr>
<td>2</td>
<td>HDMI</td>
<td>The output interface of the HDMI video signal</td>
</tr>
<tr>
<td>3</td>
<td>VGA</td>
<td>The output interface of the VGA video signal</td>
</tr>
<tr>
<td>5</td>
<td>Network Interface</td>
<td>The RJ-45 network interface</td>
</tr>
<tr>
<td>6</td>
<td>USB Port</td>
<td>The USB 2.0 interface</td>
</tr>
<tr>
<td>7</td>
<td>Power Supply</td>
<td>110~230V power supply.</td>
</tr>
<tr>
<td>8</td>
<td>Power Switch</td>
<td>Switch for turning on/off the device.</td>
</tr>
<tr>
<td>9</td>
<td>Network Interfaces</td>
<td>Network interface for the cameras, provides power</td>
</tr>
<tr>
<td></td>
<td>with Poe Function</td>
<td>over Ethernet</td>
</tr>
</tbody>
</table>
Chapter 2  Basic Operations Guide

2.1  Power on and Off

2.1.1  Power On

Correctly install and power on the NVR. When the power indicator lights up, The NVR will automatically detect the hardware state of the device. The booting process will continue for about 45 seconds. After boot, the equipment enters multi-screen real-time video surveillance.

2.1.2  Power Off

Steps:
There are two proper ways to shutdown the NVR. To shutdown the NVR:

• OPTION 1: Standard shutdown
  1. Enter the Shutdown menu.
     Menu > Shutdown
     
     ![Figure 2.1 Shutdown menu](image)

     2. Select the Shutdown button.
     3. Click the Yes button.
     4. Turn off the power switch on the rear panel when the message box appears.

• OPTION 2: By operating the front panel
  1. Enter the administrator’s username and password in the dialog box for authentication.
  2. Select the Shutdown button and Click the Yes button.
2.2 Preview and Login

2.2.1 Preview

After the device is turned on, you will enter the real-time monitoring interface. Right click and the following interface will pop up.

![Live view](image)

Figure 2.2 Live view

2.2.2 Login In

Click the image above with [main menu], and then input the user name and the password of the NVR to complete the login.

*Note:* default user name and password *admin, 123456*

![Login interface](image)

Figure 2.3 Login

2.3 PTZ Control

When connecting with a network ball, right click the corresponding network channel and select [PTZ] to enter the PTZ interface. If accessing to a simulated ball machine, enter [Main Menu] -
[PTZ] to modify the PTZ protocol, the baud rate and address bits. Then right click the corresponding channel and select [PTZ]. The PTZ control interface is shown as the following interface.

![PTZ Control Interface](image)

Figure 2.3 PTZ Control interface

Click to enter the PTZ configuration page.

![PTZ Configuration](image)

Figure 2.4 PTZ Configuration

Refer to 4.2 for more details.

### 2.3.1 PTZ configuration

The direction of PTZ, steps, zoom, focusing, iris, preset points, cruising between points, patrols, sweeping the boundary, calling an auxiliary switch, light switch, horizontal rotation are controlled with the usage of the arrow keys.

The [Step] is mainly used to control directions. The figure can be set from 1 to 8. Directly click or to adjust zooming, sharpness and brightness. PTZ supports eight directions.

### 2.3.2 Quick location

Quick location: <SIT> is in the middle of the direction arrows. Make sure that the protocol supports this function. PTZ will turn to the clicked point and move it to the center of the screen. It also supports zooming. Drag the mouse in the quick location page. The dragged box supports 4 to 16 times zooming. Hold the mouse and drag it up to complete zoom of the box. Drag it down
to narrow the box.

2.4 Playback

In the real-time monitoring screen, right click and select 【PLAYBACK】 to enter the searching interface.

![Playback interface]

Figure 2. 5 Playback interface

<table>
<thead>
<tr>
<th>Index</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Calendar</td>
<td>Date and time</td>
</tr>
<tr>
<td>2</td>
<td>Choose the time</td>
<td>Check the date and time of records searched.</td>
</tr>
<tr>
<td>3</td>
<td>Playback control</td>
<td>It can achieve a full screen, circle playback, stopping / playing, pausing, fast playing, slow playing and the previous/next frame on a suspended state.</td>
</tr>
<tr>
<td>4</td>
<td>Recoding mode</td>
<td>There is alarm recording and regular recording.</td>
</tr>
<tr>
<td>5</td>
<td>Select channels to query</td>
<td>Choose the channels for querying.</td>
</tr>
<tr>
<td>6</td>
<td>Playback controls</td>
<td>It can achieve a full screen and circle playback.</td>
</tr>
<tr>
<td>7</td>
<td>Search</td>
<td>Click the button to search.</td>
</tr>
<tr>
<td>8</td>
<td>Backup</td>
<td>Choose files and click “ ” to backup. Then select a storage device and recording files.</td>
</tr>
<tr>
<td>9</td>
<td>The list of records</td>
<td>128 video records are shown in the list. Type: R—normal record, A—alarm record, M—motion detection record.</td>
</tr>
<tr>
<td>10</td>
<td>The channel for playback</td>
<td>Choose a channel for playback.</td>
</tr>
</tbody>
</table>
2.5 Record

In the real-time monitoring screen, right click and select 【Manual record】 to enter the interface.

![Manual Record interface](image)

【Manual】 It has the highest priority and selected channels will record continuously.
【Schedule】 Record according to recording configuration.
【Stop】 Stop recording.

2.6 Alarm

2.6.1 Alarm Configuration

- Detect
  Enter [main menu]-[detect].

![Alarm Detect interface](image)

Table 2. 2 Description of Alarm Detect

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>[Channel]</td>
<td>Select the channel</td>
</tr>
<tr>
<td>2</td>
<td>[Alarm type]</td>
<td>Dynamic monitoring, video loss and video blind can be selected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Check the enable switch</td>
</tr>
<tr>
<td>4</td>
<td>[Sensitivity]</td>
<td>Set sensitivity of the network channels</td>
</tr>
<tr>
<td>5</td>
<td>[Set area]</td>
<td>It should be set in the IPC</td>
</tr>
<tr>
<td>6</td>
<td>[Process]</td>
<td>Click the button to set the alarm time, linkage and the handling method.</td>
</tr>
</tbody>
</table>

![Record Interface](image)

Figure 2.8 Record interface

[Linkage Set] When creating an alarm, you can activate the linkage of records, PTZ, touring and capturing.

![Motion Detect-Link Interface](image)

Figure 2.9 Motion Detect-Link interface

### 2.6.2 Alarm Status

If you select [Show Message] in linkage settings, the following message will pop up when the alarm occurs.
2.7 The Input Method

In the input box, you can select figures, symbols, English capitalization and the input of Chinese keyboard. Click the mouse to complete the input.”←“ represents backspace and “_” represents a space.

Figure 2. 11 English figures interface

Figure 2. 12 Chinese figures interface
Chapter 3 Parameter Settings

3.1 Introduction of Main Menu

The main menu is shown in the following interface

![Main Menu Interface](image1)

Figure 3.1 Main Menu interface

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>【Playback】</td>
<td>Search records by types, channels, time and playback records</td>
</tr>
<tr>
<td>2</td>
<td>【Backup】</td>
<td>Backup video</td>
</tr>
<tr>
<td>4</td>
<td>【Configuration】</td>
<td>Set Net channel,Record,Schedule,PTZ,Alarm,RS-232</td>
</tr>
<tr>
<td>5</td>
<td>【APP Center】</td>
<td>Set DDNS,EMAIL,P2P, CLOUD STORAGE, PUSH</td>
</tr>
<tr>
<td>7</td>
<td>【System】</td>
<td>Set basic, display, storage, abnormality, status, maintain, account, Network</td>
</tr>
<tr>
<td>8</td>
<td>【shutdown】</td>
<td>Includes logout, shutdown and restart of the system</td>
</tr>
</tbody>
</table>

3.2 Backup

Connect an External USB device with the USB port to backup in the “Record Backup” menu.

![Backup Interface](image2)

Figure 3.2 Backup interface
### Table 3.2 Description of Backup

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>【Refresh】</td>
<td>Identify external USB device and display the device information</td>
</tr>
<tr>
<td>2</td>
<td>【Backup】</td>
<td>Select the external device and click 【Backup】 to enter the backup menu. Select the record start-stop time.</td>
</tr>
<tr>
<td>3</td>
<td>【Add】</td>
<td>Add files in list. Select the record you want and click 【Start】 to backup and display time remaining</td>
</tr>
<tr>
<td>4</td>
<td>【Delete】</td>
<td>delete all data in USB backup device</td>
</tr>
</tbody>
</table>

**Note:** this operation may cause permanent data loss

### 3.3 Configuration

This menu contains the net channel, record, schedule, PTZ, alarm, RS-232.

#### 3.3.1 Net channel

Use the network channel management page to add or delete equipment and set the front-end configuration.

There are three ways to login **[NET channel]**

1. Live preview, click the left mouse button [+ ] and login **[NET channel]**
2. Live preview, click the button below [NET channel]
3. [Main Menu] - [Configuration] - [NET channel]

Network channel management in the following page

![Network Channel Interface](image)

**Figure 3.3 Net Channel interface**

[Check box] Click the channel, double click to deselect the checked channel, Click the title bar to select all, and double click to deselect all.

[Serial number] Display the network channel number to add equipment serial number

[add, delete] click [ ] to delete the current network equipment. Click [+] to add the network equipment.

[www.laviewsecurity.com](http://www.laviewsecurity.com)
[status] Show the current channel connection status: Connection is normal, ID or Password is wrong, the equipment is offline, User is locked.

[IP address/domain name] Display the equipment’s IP address/domain name.

[Port] Display the port number

[Web Port] Display the web port number.

[Agreement] Display the connection agreement.

[Edit] Configure the channel information. shown in 6.3.6

[The front-end configuration] Configuration of front camera’s parameters

We provide three ways to add device: automatically, searching, manually add the device.

Automatically add

No configuration, the device is automatically added.

[Main Menu]-[Configuration]-[NET channel Management]-[Open UPNP]

⚠️ Note: The device should support UPNP and should be in the same LAN.

Searching Added

Search all the IPC via internet and then choose to add.
Enter [NET channel Management]
Click [Filter] to choose protocol
Click [Search]
Click + to add device or Right click [Add to] to choose the channel you want or check the devices you want to add, then click [Batch Add]

3.3.2 RECORD

![Video interface]

Table 3. 3 Description of Video

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>【Channel】</td>
<td>Select the desired channel</td>
</tr>
<tr>
<td>2</td>
<td>【Compression】</td>
<td>H.264</td>
</tr>
<tr>
<td>3</td>
<td>【Resolution】</td>
<td>The resolution of main stream can be 720P. Different channels to different resolutions. Frame rate can also be different. The</td>
</tr>
</tbody>
</table>
channel extension stream resolution can support D1/CIF / QCIF

| 4 | **[Bit Rate]** | Constant Bit rate or Variable Bitrates. Bit rate can be set in Constant Bit rate. There are 6 levels for image quality in Variable Bit rate, 6 is the best but it is fixed in Constant Bit rate |
| 5 | **[Audio]** | Choose sound recording on or off on your channels |

**Note:** Resolution and frame rate are vary depending on NVR model.  

### 3.3.3 Schedule

![Record Plan interface](image)

**Figure 3. 5 Record Plan interface**

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>[Channel]</strong></td>
<td>Select a channel. Green, yellow and red show motion detection, alarm and regular record correspondingly</td>
</tr>
<tr>
<td>2</td>
<td><strong>[Copy]</strong></td>
<td>Copy the settings to other channels</td>
</tr>
</tbody>
</table>

Click the set button to enter the following interface.
Table 3.5 Description of Record Plan

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Time</strong></td>
<td>Recording time. 6 periods can be set every day</td>
</tr>
<tr>
<td>2</td>
<td><strong>Regular</strong></td>
<td>Continuous recording mode</td>
</tr>
<tr>
<td>3</td>
<td><strong>Motion Detection</strong></td>
<td>Motion detection mode</td>
</tr>
<tr>
<td>4</td>
<td><strong>Alarm</strong></td>
<td>Alarm record</td>
</tr>
</tbody>
</table>

3.3.4 PTZ

Table 3.6 Description of PTZ Configuration

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Channel</strong></td>
<td>Select the channel</td>
</tr>
<tr>
<td>2</td>
<td><strong>Protocol</strong></td>
<td>Select an associated protocol (e.g. PELCOD)</td>
</tr>
</tbody>
</table>
| 3     | **Address**  | Set address. Default: 1  
Note: this address has to correspond with dome address. |
| 4     | **Baud Rate**| Select the baud rate. Default is 9600                                        |
| 5     | **Data Bits**| default: 8                                                                   |
| 6     | **Stop Bits**| default: 1                                                                   |
| 7     | **Parity**   | default: None                                                                |
3.3.5 RS232

![Figure 3.8 RS232 interface](image)

Table 3. 7 Description of RS232

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>【Function】</td>
<td>Select the function type</td>
</tr>
<tr>
<td>2</td>
<td>【Baud Rate】</td>
<td>Set baud rate</td>
</tr>
<tr>
<td>3</td>
<td>【Data Bit】</td>
<td>Default: 8</td>
</tr>
<tr>
<td>4</td>
<td>【Stop Bit】</td>
<td>Default: 1</td>
</tr>
</tbody>
</table>

*Note:* Some models are without an RS-232 port, please see Specifications.

3.4 APP Center

3.4.1 DDNS

**Summary**
Dynamic DNS is a kind of system which points internet domain names to dynamic IP addresses. A domain name must be associated with a fixed IP address.

**FNT DDNS**
FNT DDNS is a built-in professional dynamic DNS service in our network NVR. You can register directly in the device. Specific steps are as following.

- **[Main menu]-[Network]-[Application]-[DDNS]**, choose FNT DDNS

![Figure 3.9 DDNS interface](image)

[www.laviewsecurity.com](http://www.laviewsecurity.com)
1: Select FNT DDNS and enable it.
2: Input one user name and a domain name will be generated auto. Domain name = user name.faceaip.net.
3: Input the password
4: Click “Register” button. If the domain name is not registered, it has a message that connect DDNS server successfully otherwise it will prompt that the registration is failed.
Suggestion: change the DNS server in basic configuration to the router’s DNS server
5: Click the “ok” button to complete the settings.

**No-IP DDNS**

**Register**

Register new account at www.no-ip.com

**Embedded NVR/NVR Setting**

Open [Main Menu]-[APP Centre]-[DDNS], choose NO-IP DDNS.

Refer to the following configuration:

<table>
<thead>
<tr>
<th>Name</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDNS type</td>
<td>NO-IP DDNS</td>
</tr>
<tr>
<td>Host IP</td>
<td>dynupdate.no-ip.com</td>
</tr>
<tr>
<td>port</td>
<td>80</td>
</tr>
<tr>
<td>Domain name</td>
<td>xxx.xxx.org (xxx: domain name created)</td>
</tr>
<tr>
<td>User name</td>
<td>xxx (user name registered)</td>
</tr>
<tr>
<td>password</td>
<td>xxxxxx (password registered)</td>
</tr>
</tbody>
</table>

**DynDNS DDNS**

**Register**

Register new account at www.dyndns.com

**Embedded NVR/NVR Setting**

Open [Main Menu]-[APP Centre]-[DDNS], choose NO-IP DDNS.

Refer to the following configuration:

<table>
<thead>
<tr>
<th>Name</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDNS type</td>
<td>DynDNS DDNS</td>
</tr>
<tr>
<td>Host IP</td>
<td>Members.dyndns.org</td>
</tr>
<tr>
<td>port</td>
<td>80</td>
</tr>
<tr>
<td>Domain name</td>
<td>xxx.xxx.com (xxx: domain name created)</td>
</tr>
<tr>
<td>User name</td>
<td>xxx (user name registered)</td>
</tr>
<tr>
<td>password</td>
<td>xxxxxx (password registered)</td>
</tr>
</tbody>
</table>

**3.4.2 Email**

Email configuration interface is as following:
Configure the SMTP server, IP address, ports, user name, password and the email address of the sender, SSL encrypt the email. The title of the email can support English and numbers, the maximum input is 32 characters.

### 3.4.3 P2P

![P2P interface](image)

- **[Enable]** Open/Close P2P function
- **[Transfer Mode]** Network transfer strategy, choose Quality priority or Fluency priority
- **[Account Reuse]** will allow multiple users to log in on the same device
- **[Device ID]** display device ID
- **[Password]** device password
- **[Local Port]** set local port
- **[P2P Server URL]** P2P server URL
- **[State]** current connection state

### 3.4.4 Cloud storage

Choose Dropbox, Google Drive, etc from the list.
Support motion detection, video occlusions, local alarm (face/perimeter) alarm and other alarm types.
Can upload the captured pictures to other channels

3.4.5 Push

Server push configuration interface as following:

- **[Send message]** Turn on close the mobile phone alerts
- **[Image attachment]** Enable image attachment.
- **[Time Lag]** set the time lag for alerts, 60s/90s/120s are the options.
- **[Test]** Click Send to test the message sending function
- **[Event]** Turn on event notifications for external alarm, face detection, parameter intrusion detection.
- **[Device exception]** Enable device exception alerts including device startup, no hard disk, hard disk error, start recording/stop recording.
- **[Urgency Degree]** the message urgency level can be categorized as High/Medium/Low level.
3.5 System

3.5.1 Basic

![Basic interface](image)

**Table 3.8 Description of System Basic**

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>【System Time】</td>
<td>Set the current time</td>
</tr>
<tr>
<td>2</td>
<td>【Daylight Saving Time (DST)】</td>
<td>Click “DST” to enable the function, and enter the local DST starting and ending time</td>
</tr>
<tr>
<td>3</td>
<td>【Date Format】</td>
<td>Modify the date display format</td>
</tr>
<tr>
<td>4</td>
<td>【Date Separator】</td>
<td>Select the separator for date</td>
</tr>
<tr>
<td>5</td>
<td>【Time Format】</td>
<td>24 hr or 12 hr display mode</td>
</tr>
<tr>
<td>6</td>
<td>【Language】</td>
<td>Select language</td>
</tr>
<tr>
<td>7</td>
<td>【NVR No.】</td>
<td>For multiple NVRs, click “Ad” button on remote control and input a number to select the corresponding NVR to operate</td>
</tr>
<tr>
<td>8</td>
<td>【Video Standard】</td>
<td>PAL/NTSC</td>
</tr>
<tr>
<td>9</td>
<td>【Auto Logout】</td>
<td>This ranges from 0-60 minutes. 0 means no setting. NVR will automatically log out after standby.</td>
</tr>
<tr>
<td>10</td>
<td>【Channel mode】</td>
<td>The selection of local channels and network channels</td>
</tr>
</tbody>
</table>

3.5.2 Display

- Output mode
Table 3. 9 Description of Output mode

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>【Menu Transparency】</td>
<td>Adjust transparency</td>
</tr>
<tr>
<td>2</td>
<td>【VGA Output】</td>
<td>Select VGA resolution. The default is 1024×768@60Hz</td>
</tr>
</tbody>
</table>

- **Tour configuration**
  Setting tour mode and interval between rotation, the time is within 5-120s. The mode include single screen, four-, eight-, nine-, sixteen-screen.

Table 3. 10 Description of Tour configuration

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>【Motion Tour Type】</td>
<td>Set the motion detection tour mode</td>
</tr>
<tr>
<td>2</td>
<td>【Alarm Tour Type】</td>
<td>Set the alarm tour mode</td>
</tr>
</tbody>
</table>

*Note:* Shortcut: click the button at the top right corner of the picture or press the Shift Key control the tour.
3.5.3 Storage

- **HDD Management**

![Storage Interface](image1)

**Figure 3.17 Storage interface**

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>【Format】</td>
<td>Format an individual HDD</td>
</tr>
<tr>
<td>2</td>
<td>【Set】</td>
<td>Set HDD as read-write, read only or redundancy mode. In read only mode, video data cannot be overwritten.</td>
</tr>
</tbody>
</table>

*Note:* Hard disk format operation result in the loss of video data

- **HDD Record**

![HDD Record Interface](image2)

**Figure 3.18 HDD Record interface**
3.5.4 Exception

Table 3. 12 Description of Abnormity

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>【Disk low Space】</td>
<td>Alarm when hard disk capacity is lower than setting</td>
</tr>
<tr>
<td>2</td>
<td>【No Disk】</td>
<td>Alarm when HDD is not present or cannot be detected</td>
</tr>
<tr>
<td>3</td>
<td>【Network Failure】</td>
<td>Alarm when network is not connected</td>
</tr>
<tr>
<td>4</td>
<td>【Process Mode】</td>
<td>includes【Alarm Output】，【Display On Screen】 and 【Send Email】，【pushed to phone】 and recording linkage</td>
</tr>
<tr>
<td>5</td>
<td>【IP Conflict】</td>
<td>Alarm when IP address conflict</td>
</tr>
<tr>
<td>6</td>
<td>【Process Mode】</td>
<td>is same as 【No Disk】’s 【Process Mode】</td>
</tr>
<tr>
<td>7</td>
<td>【Disk Error】</td>
<td>Alarm when there is error in reading and writing hard disk</td>
</tr>
<tr>
<td>8</td>
<td>【Process】</td>
<td>includes:【Alarm Output】，【show message】，【Send Email】，【linkage record】，【snapshot】and 【buzzer】</td>
</tr>
</tbody>
</table>

3.5.5 Status

See the BSP and online users.

3.5.6 Maintain

See logs of the system, product information, default settings and maintain information in the following interfaces.
3.5.7 Account

Table 3.13 Description of Account

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>【Add users】</td>
<td>add group member information and set authorities.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Default users are: “admin”, “user” and hidden “default”, the password of first two username is 123456. “admin” has advanced authorities; “user” only has surveillance and playback authority. Hidden default: operate in password-less login mode, cannot delete, NVR will login with this name automatically if “no user login”, user can revise limits of power without login. Enter 【Add users】 input username, password and select group and reusable options. Reusable allows the account to be used by multiple logins. A user can only belong to one group. User rights cannot exceed group rights.</td>
</tr>
<tr>
<td>2</td>
<td>【Modify users】</td>
<td>modify existing group member information and authority</td>
</tr>
<tr>
<td>3</td>
<td>【Add group】</td>
<td>add group and set group authorities. Set a group and authorize 60 actions including control panel, shut down, live view, playback, record, record</td>
</tr>
</tbody>
</table>
backup, PTZ control, account, system information, alarm in / out setting, system configuration, search log, log delete, upgrade, operation authority, etc.

4  
【 Modify group 】 modify existing group information

5  
【 Modify Password 】 change password. Select a user name, input the old password and new password twice. Click 【Save】 to confirm. Password can be in 1-6 numbers, letters or symbol; blank in beginning and end is invalid. The account with management authority could change others’ password.

**Note:** Group and user names can be from 1-6 characters in length. Valid characters include letter, numbers, and limited symbols: underline, subtraction sign, dot, you may not use a space as a leading or ending character.

There is no limit to the number of groups or users. By default there are two different group levels: admin and user. User management determined upon two levels: the group and the user level.

Group and user names cannot be duplicated, and each user can only belong to one group.

### 3.5.8 Network

![Network Interface](image)

**Figure 3.22 Network interface**

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>【DHCP】</td>
<td>Enable the NVR to obtain an IP address automatically. If enabled, the NVR will reboot and search for a DHCP server, and then assign a dynamic IP address. The dynamic IP address will be displayed in the menu. Enter a static IP address if there is no DHCP service available. If you are using the advanced feature PPPOE, then the IP/mask/gateway and DHCP are unable to be changed.</td>
</tr>
<tr>
<td>Index</td>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>1</td>
<td>TCP</td>
<td>default: 8000, variable</td>
</tr>
<tr>
<td>2</td>
<td>HTTP</td>
<td>default: 80</td>
</tr>
<tr>
<td>3</td>
<td>UDP</td>
<td>default: 8001</td>
</tr>
<tr>
<td>4</td>
<td>Multicast</td>
<td>Check ‘Multicast’ and set a group in ‘Set’, IP address should be set as in the example, port number is not limited.</td>
</tr>
</tbody>
</table>

**Advance**

![Network Advance Interface](image)

Figure 3. 23 Network advance interface

**Other Settings**

![Other Settings Interface](image)
Table 3. 16 Description of Network apply

<table>
<thead>
<tr>
<th>Index</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>
| 3     | **FTP**    | Choose to upload recordings or images.  
Set FTP server’s IP address and port (Default:21) .  
Create an account in File Zilla Server in the computer.  
Fill in the user name, password and remote. Set file length, channel, and time for recording, type and date. Check alarm, motion and general recordings or images to upload. |
| 4     | **NTP**    | On/Off NTP. The network time protocol allows the NVR to sync with NTP server time automatically.  
Server IP: Input IP of NTP server.  
Port: The default port is 123.  
Update cycle: The interval time is between 1 to 65535 min |
| 5     | **IP Filter** | NVR authority management. If you enable the white list, only the entered IP addresses can be connected. This system supports a max of 64 IPs. |
| 6     | **Transmission** | Transfer modes and the number of network connections, downloads |