Network Video Recorder(NVR) Quick Setup Guide

Precautions

Fully understand this document before using this device, and strictly observe rules in this document when using this device. If you install this device in public places, provide the tip “You have entered the area of electronic surveillance” in an eye-catching manner.

**WARNING**
- It alerts you to moderate dangers which, if not avoided, may cause minor or moderate injuries.
- It alerts you about risks. Neglect of these risks may cause device damage, data loss, device performance deterioration, or unpredictable results.

**CAUTION**
- Strictly observe installation requirements when installing the device. The manufacturer shall not be liable for device damage caused by users' non-conformance to these requirements.
- Strictly conform to local electrical safety standards and use power adapters that are marked with the LPS standard when installing and using this device. Otherwise, this device may be damaged.
- Use accessories delivered with this device. The voltage must meet input voltage requirements for this device.
- If this device is installed in places with unsteady voltage, ground this device to discharge high energy such as electrical surges in order to prevent the power supply from burning out.
- When this device is in use, ensure that no water or any liquid flows into the device. If water or liquid unexpectedly flows into the device, immediately power off the device and disconnect all cables (such as power cables and network cables) from this device.
- If this device is installed in places where thunder and lightning frequently occur, ground the device nearby to discharge high energy such as thunder strikes in order to prevent device damage.

**CAUTION**
- Avoid heavy loads, intensive shakes, and soaking to prevent damages during transportation and storage. The warranty does not cover any device damage that is caused during secondary packaging and transportation after the original packaging is taken apart.
- Protect this device from fall-down and intensive strikes, keep the device away from magnetic field interference, and do not install the device in places with shaking surfaces or under shocks.
- Clean the device with a soft dry cloth. For stubborn dirt, dip the cloth into slight neutral cleanser, gently wipe the dirt with the cloth, and then dry the device.
- Do not jam the ventilation opening. Follow the installation instructions provided in this document when installing the device.
- Keep the device away from heat sources such as radiators, electric heaters, or other heat equipment.
- Keep the device away from moist, dusty, extremely hot or cold places.
- If the device is installed outdoors, take insect- and moisture-proof measures to avoid circuit board corrosion that can affect performance.
- Remove the power plug if the device is idle for a long time.
- When unpacking, please first confirm whether fragile label is made damage to fragile labels.
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Special Announcement

**WARNING**
- It provides additional information.

**CAUTION**
- It provides additional information.

**NOTE**
- For more information, please refer to our website.

Open Package Examination

Open the package, check the appearance of product for no obvious damage, and confirm the item list for table 1-1 is consistent.

Table 1-1 Packing list

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network video recording</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Quick Setup Guide</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Mouse</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Green female wiring terminal</td>
<td>2(8)</td>
<td></td>
</tr>
<tr>
<td>Power Cord</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Hanger</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Countersunk head black screws</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Countersunk head imperial white screws</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

Device Structure

2.1 Device Ports

Different devices may have different ports and multi-head cables; Please refer to the actual product.

Table 2-1 Front panel description

<table>
<thead>
<tr>
<th>Port Name</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWR</td>
<td>Indicator</td>
<td></td>
</tr>
<tr>
<td>HDD</td>
<td>Indicator</td>
<td></td>
</tr>
<tr>
<td>PoE</td>
<td>Indicator</td>
<td></td>
</tr>
<tr>
<td>USB 2.0</td>
<td>Port</td>
<td></td>
</tr>
</tbody>
</table>

Table 2-2 Rear panel description

<table>
<thead>
<tr>
<th>Port Name</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>PoE Port</td>
<td>Port interfaces, connect cameras by ports.</td>
<td></td>
</tr>
<tr>
<td>WAN</td>
<td>RJ 1000 Mbps adaptive Ethernet interface, connect to internet</td>
<td></td>
</tr>
<tr>
<td>LAN</td>
<td>RJ 1000 Mbps adaptive Ethernet interface, connect to intranet, or access to webs of PoE cameras</td>
<td></td>
</tr>
<tr>
<td>Audio in/ Audio out</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VGA</td>
<td>Video output interface. If the Auxiliary Screen is enabled, HDMI’s output is main screen, VGA’s output is auxiliary screen</td>
<td></td>
</tr>
<tr>
<td>HDMI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e SATA</td>
<td>External hard disk interface.</td>
<td></td>
</tr>
<tr>
<td>USB 3.0</td>
<td>Support connected to 3.0 U disk.</td>
<td></td>
</tr>
<tr>
<td>RS232</td>
<td>Standard Rs232 serial communication interface of the device.</td>
<td></td>
</tr>
<tr>
<td>ALARM I/O</td>
<td>Alarm input and alarm output. A is RS 485+, B is RS485-</td>
<td></td>
</tr>
<tr>
<td>RS 485</td>
<td>Safe ground screw of the device.</td>
<td></td>
</tr>
<tr>
<td>Power switch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC 110V/220V power input interface</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Device Installation

The hard disk of the NVR must be provided by the user. Take the following steps to install the hard disks:

Step 1 Remove the screws for fixing the cover and take down the cover.
Step 2 Put the hard disk under the hard disk bracket, hold the hard disk with one hand and aim the hard disk hole at the bracket hole, then fix the screws for hard disk(install the hard disk near the fan first).

For more information, please refer to the actual product.
4 Device Operation

4.1 Startup

Before starting NVR, ensure that the NVR is connected to a power supply properly and a monitor is connected to the HDMI or VGA interface of the NVR correctly. After starting the NVR, there is no login window located in the center, as shown in figure 4-1. In some environments, if the power supply is abnormal, the NVR may not work properly. In severe cases, the NVR may be damaged. In these environments, it is recommended to use regulated power supply.

4.2 Topology of the NVR

The POE-type NVR supports direct access to POE cameras and automatically manages and assigns IP addresses. The POE Web end can be accessed over a LAN. Figure 4-3 shows the network topology of the NVR.

4.3 Special Function

Some functions are applicable for some special cameras, such as Microphone, Human thermometer, Smart, and Intelligent Analysis, Advanced Intelligent Analysis, please refer to actual camera channels.

4.4 Power off

Enter the Main > System > Maintenance > Shutdown to power off the NVR. Or turn off the power switch.

4.4 Quick menu

Put the mouse arrow on bottom of live video interface, the quick menu will be showing. You can set layout to view live video, switch to the main interface, and close immediately. For configuration details please refer to main menu.

4.5 Quick Configuration

Plug in power to access the NVR user page. The wizard window would show at first time, users can configure quickly or close immediately. For configuration details please refer to main menu.

Right-click on the main interface at any where to access the main menu. Main menu comprises Channel, Record, Alarm, Network and System settings, as shown in figure 5-1.

5 5.1 Channel

Channel settings contain Camera, Encode, Image, OSD, Privacy Zone, ROI (region of interest), Microphone, Human thermometer, Smart, and Intelligent tracking.

Camera: Users can add cameras automatically by clicking Add, and add cameras by clicking Add, click cameras then click Delete to delete cameras. Users can batch update software.

Encoder: Users can set stream, encode type, resolution, frame rate, bit rate type, bit rate and so on.

Sensor setting: Adjust image parameters and users can set sensor parameter.

OSD: Customize time and channel name displaying in the live video page.

Privacy Zone: Set a privacy zone by clicking and dragging cursor and double-click an exist private area to delete it. Support up to 4 zones.

Some of these settings can be copied to other channels by clicking Copy button.

Microphone, Human Thermometer, Smart, and Intelligent Tracking are the special functions for some models, not applicable for all cameras.

5.2 Record

Record settings contain Record Schedule, Disk, Storage, RAID, S.M.A.R.T. Disk Detection, Disk Calculation and FTP.

Record Schedule: Set record schedule and storage strategy. ANR is auto network recording, if the camera is plugged SD card and enabled record, the connected, when the connection is recovered, NVR will copy the recording of the lost videos.

Enter S.M.A.R.T. Interface to view the state of disks. Disk detection can detect the disks.

RAID: If users install more than four disks and want to keep the data safety, it is recommended to build RAID.

Disk Detection: Check the disk health status.

Disk Calculation: Two methods to calculate.

FTP: File Transfer Protocol, set the FTP path to save the alarm information if linkage to FTP.

NOTE

Format the disk and all data on disk will be lost, please be careful to do this.

Before replacing the hard disk, the power must be turned off. Some functions of building RAID should be enterprise level, and the capacities are better at the same.

For the safety of disks, please make sure the stabilization of power on.

5.3 Alarm

Alarm settings contain General, Motion Detection, Video Loss, Advanced Intelligent Analysis, Intelligent Analysis, Alarm in, Abnormal Alarm, Alarm out and Local intelligent analysis, as shown in figure 5-2.

5.4 Network

Network settings contain Network, 802.1X, DDNS, E-mail, Port Mapping, P2P, IF Filter, SNMP, 3G/4G, PPoE, Network Traffic and Platform Access, as shown in figure 5-3.

5.5 System

System settings contain Information, General, User Account, Security Center, Platform Access, Logs, Maintenance and Auto Reboot, as shown in figure 5-4.

NOTE

The user name and password are the same as the UI interface.