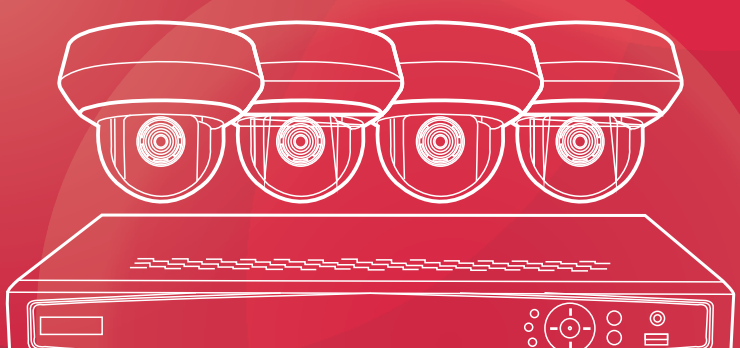
ANPVIZ SECURITY

Network Video Recorder User Manual

H-Series



EN Version 1.0

EN

Thank you very much for choosing ANPVIZ.

Our products are supported by the world's first video monitoring manufacturers.

and they have adopted military level of protection.

It is our top priority to ensure your data safety and offer you a satisfactory service.

We strongly recommend that you set up an appropriate password for your device and save it also set up security questions and reserved email to ensure you can reset password by yourself.

If you have any questions, please feel free to email us at **support@anpvizsecurity.com**

Or visit **https://www.anpvizsecurity.com/download**

Search: **H Series**

Please download Client software and user manuals from our download center

https://www.anpvizsecurity.com/downloadcenter.html

About this Manual

The Manual includes instructions for using and managing the product Picture, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website. Please use this user manual under the guidance of professionals.

Legal Disclaimer

Regarding To The Product With Internet Access, The Use Of Product Shall Be Wholly At Your Own Risks. Our Company Shall Not Take Any Responsibilites For Abnormal Operation, Privacy Leakage Or Other Damages Resulting From Cyber Atock, Hacker Attack Virus Inspection, Or Other Internet Security Risks However, Our Company Will Provide Tim Ely Tech Nic Al Support If Required. Surveillance Laws Vary By Jurisdiction. Please Check All Relevant Laws In Your Jurisdiction Before Using This Product In Order To Ensure That Your Use Conforms The Applicable Law. Our Company Shall Not Be Liable In The Event That This Product Is Used With Illegitimate Purposes.in The Event Of Any Conflicts Between This Manual Andthe Applicable Law, Th E Later Prevails.

Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the users authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver Is connected.
—Consult the dealer or an experienced radio/TV technician for help.

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 2015/35/EU, the EMC Directive 2014/30/EU, 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, please 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, please see: www.recyclethis.info.

■ Safety Instruction

These instructions are Intended to ensure that user can use the product correctly to avoid danger or property loss. The precaution measure is divided into “Warnings” and "Cautions"

Warnings: Serious Injury or death may occur if any of the warnings are neglected.
Cautions: Injury or equipment damage may occur if any of the cautions are neglected.

Warnings: Follow these safeguards to prevent serious injury or death.	**Cautions:** Follow these precautions to prevent potential injury or material damage.

Warnings

• Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
• In the use of the product you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
• In put voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100~240 SC or 12 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
• Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
• Please make sure that the plug is firmly connected to the power socket
• If smog odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

Cautions

• Make sure the power supply voltage Is correct before using the camera.
• Do not drop the camera or subject it to physical shock,
• Do not touch senor modules with fingers. If cleaning Is necessary, use clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period, replace the lens cap to protect the sensor from d lit
• Do not aim the camera at the sun or extra bright places. Blooming or smearing may occur otherwise (which Is not a malfunction), and affect the endurance of sensor at the same time.
• The sensor may be burned out by a Laser beam, so when any Laser equipment is in using, make sure that the surface of sensor will not be exposed to the laser beam.

Applicable Model

This manual is applicable to the following models.
NVR7608Q18P
NVR7616Q216P
NVR7616K216P
NVR7732I416P
NVR7732K416P
NVR108MH-P8
NVR216MH-P16

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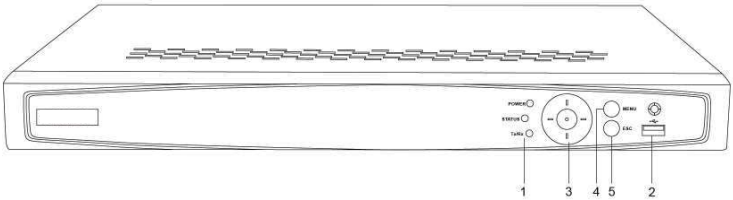
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Introduction

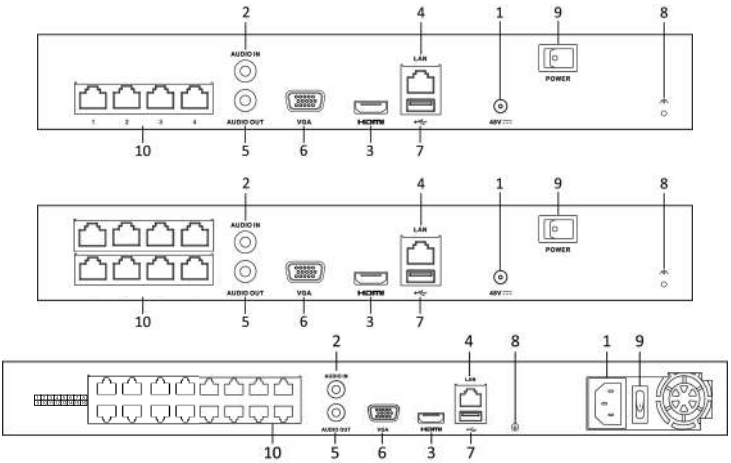
Front Panel



No.	Name		Description
1	Status Indicator	Power	Power indicator turns yellow when system is running.
		Status	Status indicator blinks red when data is being read from or written to HDD.
		Tx/Rx	Tx/Rx indicator blinks yellow when network connection is functioning properly.
2	USB Interface		Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
3	Control Buttons	DIRECTION	In menu mode, the direction buttons are used to navigate between different fields and items and select setting parameters.
			In playback mode, the Up and Down buttons are used to speed up and slow down record playing, and the Left and Right buttons are used to move the recording 30s forwards or backwards.
			In the image setting interface, the up and down button can adjust the level bar of the image parameters. In live view mode, these buttons can be used to switch channels.
			The Enter button is used to confirm selection in menu mode; or used to check check box fields and ON/OFF switch.
		ENTER	In playback mode, it can be used to play or pause the video.
			In single-frame play mode, pressing the Enter button will play the video by a single frame.
			In auto sequence view mode, the buttons can be used to pause or resume auto sequence.
4	MENU		Press the button will help you return to the Main menu (after successful login).
			In Playback mode, it is used to show/hide the control interface.
5	ESC		Back to the previous menu.
			Press for Arming/disarming the device in Live View mode.

Rear Panel

The rear panel are various according to different models.



No.	Item	Description
1	Power Supply	48V DC power supply or AC 100~240V
2	Audio In	RCA connector for audio input.
3	HDMI Interface	HDMI video output connector.
4	LAN Network Interface	1 10 /100 /1000 Mbps self-adaptive Ethernet interface
5	Audio Out	RCA connector for audio output.
6	VGA Interface	DB15 connector for VGA output. Display local video output and menu.
7	USB Interface	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
8	Ground	Ground (needs to be connected when NVR starts up).
9	Power Switch	Switch for turning on/off the device.
10	Network Interfaces with PoE function	Network interfaces for the cameras and to provide power over Ethernet.

Hard Disk Installation

After the hard disk is installed, the NVR can perform functions such as recording and playback. Without the HDD, you can only preview the current live monitoring video.

Note: Before installing a hard disk drive (HDD), please make sure the power is disconnected from the NVR. A factory recommended HDD should be used for this installation..One or two SATA hard disks can be installed depending on different models.

Tools Required: Screwdriver.

Steps:

1.Remove the cover from the NVR by unfastening the screws on the back and side.



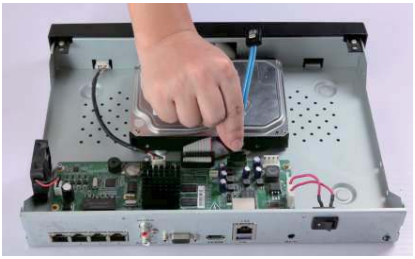
2.Find out the power cable and data cable of the hard disk from the NVR accessories box, and prepare a hard disk and the hard disk screw. See in the picture on the left hand side, three-colour power cable is on the left and the blue data cable is on the right.



3.Connect one end of the power cable to the motherboard of NVR.



4.Connect one end of the data cable to the motherboard of NVR.



5.Connect the date cable and the power cable to the HDD.



6.Place the HDD on the bottom of the device and then fasten the screws on the bottom to fix the HDD.



7.Re-install the cover of the NVR and fasten screws.

NVR Installation





Power Adapter



USB Mouse



Post sale service card



Network Cable



User's Manual



HDD Power Cable



HDD Data Cable



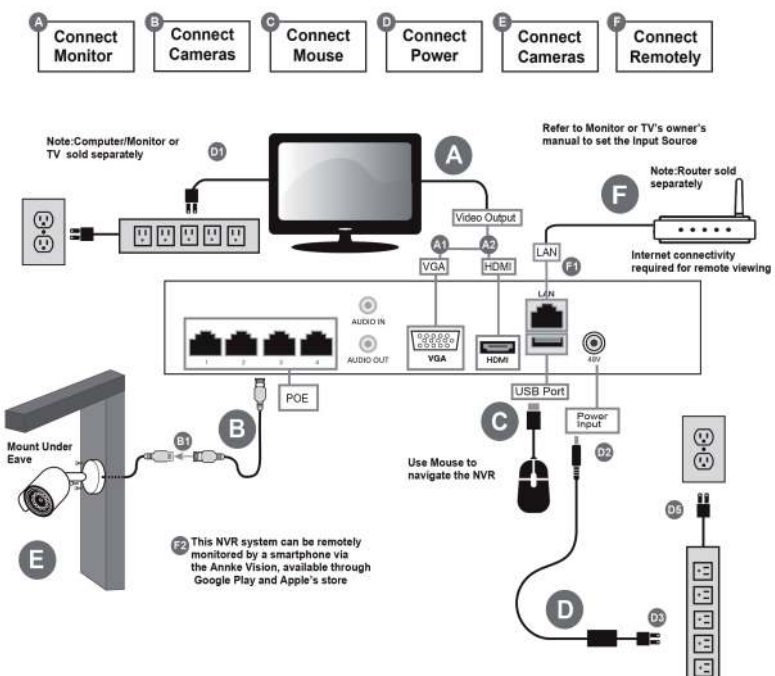
Remote Control



HDMI Cable

Steps:

1.Connect the monitor's VGA cable or HDMI cable to the NVR's VGA cable or HDMI port.
2.Connect the camera by network cable to the NVR's POE port.
3.Connect the mouse to the NVR's USB port.
4.Connect the NVR's RJ-45 port to the router's LAN by network cable .
5.Connect the NVR's power adapter.



HDD Storage Calculation Chart

The following chart shows an estimation of storage space used based on recording at one channel for an hour at a fixed bit rate.

Bit Rate	Storage Used
96K	42M
128K	56M
160K	70M
192K	84M
224K	98M
256K	112M
320K	140M
384K	168M
448K	196M
512K	225M
640K	281M
768K	337M
896K	393M
1024K	450M
1280K	562M
1536K	675M
1792K	787M
2048K	900M
4096K	1.8G
8192K	3.6G
16384K	7.2G

Please note that supplied values for storage space used is just for reference. The storage values in the chart are estimated by formulas and may have some deviation from actual value.

Chapter 1 Startup

1.1 Activate Your Device

For the first-time access, you need to activate the video recorder by setting an admin password. No operation is allowed before activation. You can also activate the video recorder via web browser, SADP or client software.

Before You Start

Power on your device.

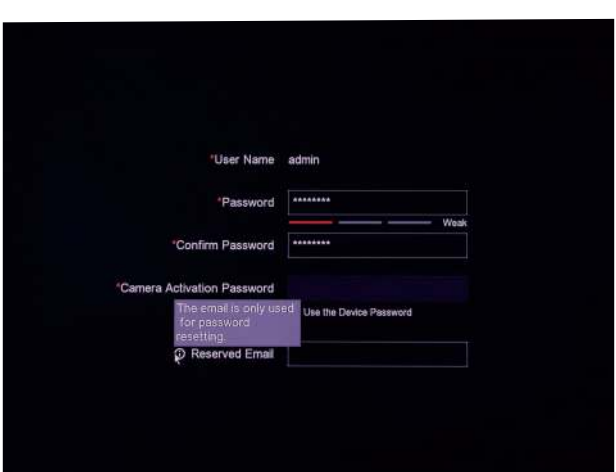
Steps

1. Select a language.
2. Click Apply.
3. Input the same password in Password and Confirm Password.

> **Warning**
>
> Strong Password recommended-We highly recommend you create a strong password of your own choosing (Using a minimum of 8 characters, including at least three of the following categories: upper case letters, lower case letters, numbers, and special characters.) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Activate network camera(s) connected to the device.
   - Check **Use the Device Password** to use the device password to activate the inactive network camera(s).
   - Enter a password in **Camera Activation Password** to activate network camera(s).

5. Click **Activate.**



What to do next

Follow the wizard to set basic parameters.

- When you forget your password, there are three methods to reset it, including password resetting email, Guarding Vision, and security questions. You have to configure at least one password resetting method. Refer to **Set Password Resetting Email** and **Guarding Vision** for details.
- For unlock pattern. Refer to **Set Unlock Pattern** for details.
- For general system parameters. Refer to **General** for details.
- For general network parameters. Refer to **General** for details.
- For storage device configuration. Refer to **Storage Device** for details.
- For adding network cameras. Refer to **Network Camera** for details.
- For platform configuration. Refer **Guarding Vision** to for details.

1.2 Login

1.2.1 Set Unlock Pattern

Admin user can use the unlock pattern to login. You can configure the unlock pattern after the device is activated.

Steps

1. Use the mouse to draw a pattern among the 9 dots on the screen. Release the mouse when the pattern is done.

Note

- **The pattern shall have 4 dots at least.**
- **Each dot can be connected for once only.**

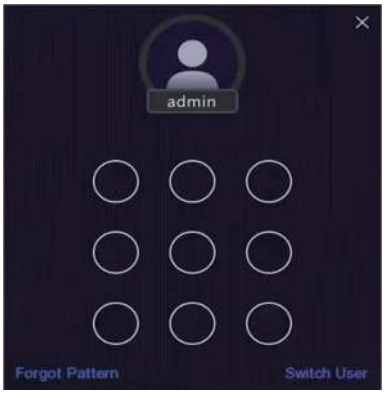
2. Draw the same pattern again to confirm it.



When the two patterns match, the pattern is configured successfully.

1.2.2 Log in via Unlock Pattern

1. Right click the mouse on live view



2. Draw the pre-defined pattern to enter the menu operation.

Note

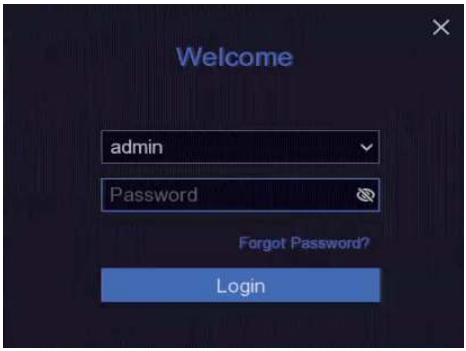
- If you have forgotten your pattern, you click Forgot My Pattern or Switch User to log in via password.
- If you have drawn the wrong pattern for more than 5 times, the system will switch to the normal login mode automatically.

1.2.3 Log in via Password

If your video recorder has logged out, you must login before operating the menu and other functions.

Steps

1. Select **User Name.**



2. Input password.
3. Click **Login.**

Note

- When you forget the password of the admin, you can click Forgot Password to reset the password.
- If you enter the wrong password 7 times, the current user account will be locked for 60 seconds.

Chapter 2 Live View

2.1 Configure General Parameters

You can configure the output interface, mute or turning on the audio, event output interface, etc.

Steps

1. Go to **Configuration → System → Live View → General .**



2. Configure the Live View parameters.

Window Division
Select the live view window division.
Auto Switch Interval
The time to dwell in a camera before switching to next camera when auto-switch in live view is enabled.
Alarm Pop-up Output
Select the output to show alarm video.
Alarm Pop-up Delay
Set the time to show alarm event image.
Audio
Turn on/off audio output for the selected video output.
Volume
Adjust the live view, playback, and two-way audio volume for the selected video output interface.
3. Click **Apply.**

2.2 Configure Live View Layout

Step

1. Go to **Configuration → System → Live View → View .**
2. Set Output Interface.
3. Select a window, and double click a camera the list you would like to display. means no camera is displayed on the window.
4. Optional: Click or to start or stop live view of all cameras.
5. Click Apply.

Configure Channel-Zero Encoding

Enable the channel-zero encoding when you need to get a remote view of many channels in real time from a web browser or CMS (Client Management System) software, in order to decrease the bandwidth requirement without affecting the image quality.

Step

1. Go to **Configuration → System → Live View → General .**
2. Set **Video Output Interface as Channel-Zero.**
3. Go to **Configuration → System → Live View → Channel-Zero .**



4. Turn on **Enable.**
5. Configure **Frame Rate, Max. Bitrate Mode**, and **Max. Bitrate**. The higher frame rate and bitrate require higher bandwidth requirement.
6. Click **Apply.**

Chapter 3 System Configuration

3.1 General

Steps: Go to **Configuration → System → General .**



3.2 User

There is a default account: Administrator. The administrator user name is admin. Administrator has the permission to add, delete, and edit user. Guest user only has live view, playback, and log search permission.

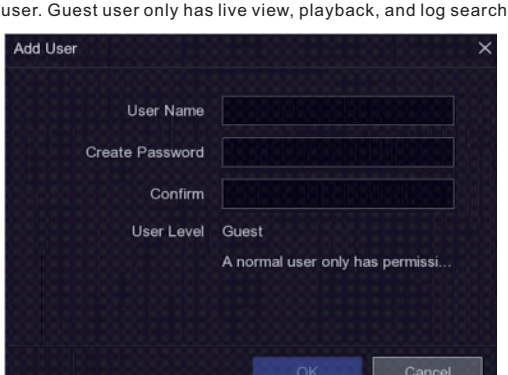
Steps: (1).Go to **Configuration → System → User .**

(2).Click Add and confirm your admin password.

(3). Enter user name.

(4). Enter the same password in Password and Confirm.

(5) Click OK.

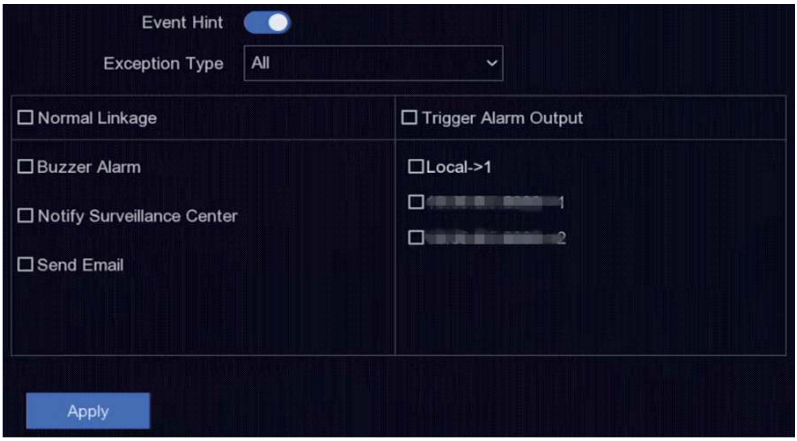


3.3 Exception

You can receive exception events hint in alarm center, and set exception linkage actions.

Steps

1. Go to **Configuration → System → Exception .**
2. Optional: Configure event hint. When the set events occur, you will receive hints in alarm center.
   (1) Enable Event Hint.
   (2) Click at the upper-right corner of local menu to enter alarm center.
   (3) Select an event type.
   (4) Click Set to select events to hint.
3. Set Exception Type
4. Select Normal Linkage and Trigger Alarm Output type for exception linkage actions.



5. Click Apply.

Chapter 4 Network Configuration

4.1 General

You shall properly configure the network settings before operating the device over network.

Steps: ①.Go to **Configuration → Network → General**



②. Set network parameters.

DHCP

If the DHCP server is available, you can enable DHCP to automatically obtain an IP address and other network settings from that server.

Auto Obtain DNS

If DHCP is enabled. You can enable Auto Obtain DNS to automatically obtain Preferred DNS Server and Alternate DNS Server.

③. Click Apply.

4.2. Guarding Vision

Guarding Vision provides mobile phone application and platform service to access and manage your connected devices, which enables you to get a convenient remote access to the surveillance system.

①. Go to **Configuration → Network → Guarding Vision .**



②. Turn on Enable. The service terms will pop up.

(1) Scan the QR code to read the service terms and privacy statement

(2) Check I have read and agree to Service Terms and Privacy Statement. if you agree with the service terms and privacy statement..

(3) Click OK.

③. Click to set verification code.

④. Optional: Enable Platform Time Sync, the device will sync time with the platform server instead of NTP server.

⑤. Optional: Check Stream Encryption. It requires to enter verification code in remote access and live view after this function is enabled.

⑥. Optional: Edit Server IP.

⑦. Bind your device with a Guarding Vision account.

1) Use a smart phone to scan the QR code, and download Guarding Vision app.

2) Open Guarding Vision, and scan the QR code to add your video recorder. Refer to Guarding Vision Mobile Client User Manual for details of adding the video recorder to Guarding Vision and more operation instructions.

• If the device is already bound with an account, you can click Unbind to unbind with the current account.

You can also use the QR code in at the upper-left corner to download Guarding Vision and bind your device.

⑧. Click Apply.

Result

• If your device is connected with Guarding Vision platform, Connection Status will be Online.

• If your device is bound with a Guarding Vision account, Bind Status will be Yes.

What to do next

You can access your video recorder via Guarding Vision.

4.3. Email

Set an email account to receive event notification.

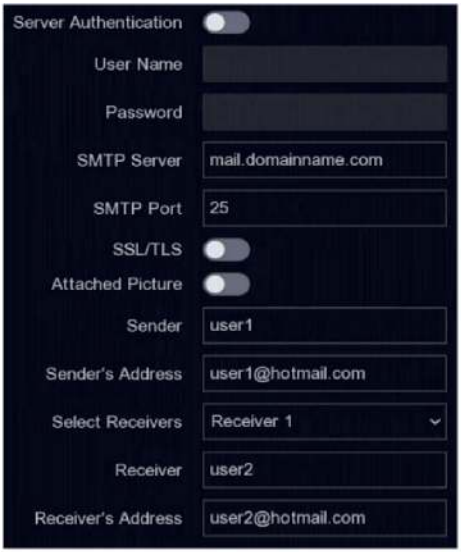
Before You Start

• Ensure SMTP service is available for your email.

• Configure your network parameters. Refer to General for details.

Steps

①. Go to **Configuration → Network → Email .**



②. Set email parameters

Server Authentication

Check it to enable the server authentication feature.

User Name: The user account of email sender for SMTP server authentication.

Password: The password of email sender for SMTP server authentication.

SSL/TLS: (Optional) Enable SSL/TLS if it is required by the SMTP server.

Attached Picture: (Optional) If events are triggered, it will send images as email attachment.

Sender: The sender name.

Sender's Address: The sender's email address.

Select Receiver: Select a receiver. Up to 3 receivers are available.

Receiver: The receiver name.

Receiver's Address: The receiver's email address.

Note For network cameras, the event images are directly sent as the email attachment. One network camera only sends one picture.

③. Optional: Click Test to send a test email.

④. Click Apply.

Chapter 5 Camera Management

5.1 Add Network Camera by Device Password

Suit for Hikvision Camera or Anpviz H Series Cameras

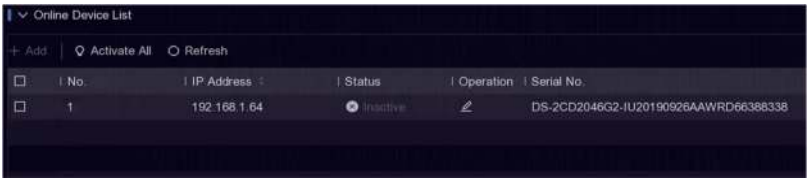
If you are using Hikvision poe cameras or Anpviz H Series poe cameras, Add network cameras which the password is the same as your video recorder.

Before You Start

- Ensure your network camera is on the same network segment with your video recorder.
- Ensure the network connection is valid and correct. Refer to General for details.
- Ensure the network camera password is the same as your video recorder.

Steps

1. Go to **Configuration** → **Camera** → **IP Camera** . The online cameras on the same network segment with your video recorder are displayed in Online Device List.



2. Select a desired network camera.
3. Click + to add the camera.

Note If the camera is inactive, the device will activate it automatically with the password you have set during device activation.

5.2 Add Network Camera Manually - Other protocol

Adding 3rd Party Onvif Camera, Not plug and Play

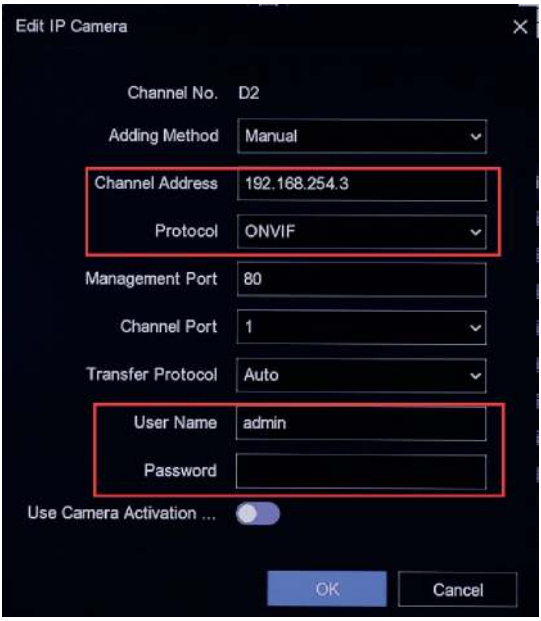
Our device support 3rd Party onvif ip cameras input. please follow the steps to make it working.

Before You Start

- Modifified the IP address of your cameras to the same network segment 192.168.254.XX of thisNetwork recorder , using the the software of your camera. Please refer to the User Manual for the cameras.
- Ensure the network connection is valid and correct.
- Ensure the network camera is activated.

Steps

1. Go to **Configuration → Camera → IP Camera .**
2. If the camera was already connected to NVR Channel.Click to edit the selected camera.
3. The online cameras with same network segment will be detected and displayed in the camera list.
4. NVR will automatically assigned IP address to IP cameras. For example, there is an IP camera support ONVIF, it's IP address is 192.168.0.47. We need to modify the ip address of the camera to 192.168.254.XX firstly. we choose to use D8 channel to Edit it. You can change ^Adding Method" to Manual, edit the IP address to 192.168.254.8 for example, change "Protocol" to ONVIF, the management port will change automatic, then click "OK" to add.



Note

If you are adding the 3rd party onvif camera, please firstly modify the ip address of your camera to nvr's network segment 192.168.254.XX. This is very important. You could watch video guide from Anpviz Security Youtube Channel: Playlist: How to use- H Series

5.3 Sort Channel Order

Channel layout windows are ordered by channel number. You can change the camera linked channel number by dragging windows.

Steps

1. Go to **Configuration → Camera → Camera .**
2. Click **Sort Channel**.
3. Drag a channel window to the channel number as your desire.
4. Click **Apply.**

Note | After sorting channels, the device will reconnect to network cameras.

5.4 Upgrade Network Camera

The Network camera can be remotely upgraded through the device.

Before You Start

- Ensure you have inserted the USB flash drive to the device, and it contains the network camera upgrade firmware.
- Ensure your network camera is on the same network segment with your video recorder.
- Ensure the network connection is valid and correct.

Steps

1. Go to **Configuration → Camera → IP Camera** .
2. Click .
3. Click Yes to confirm.
4. Select the camera upgrade firmware from your storage device.
5. Click **Upgrade** to start upgrading. The camera will restarted automatically after upgrade completed.

5.5 Configure Advanced Camera Parameters

You can configure advanced camera parameters like camera IP address, camera password, etc.

Before You Start

- Ensure your network camera is on the same network segment with your video recorder.
- Ensure the network connection is valid and correct.

Steps

1. Go to **Configuration → Camera → IP Camera .**
2. Click .
3. Set camera parameters like IP address, camera password, etc.
4. Click **Apply.**

Chapter 6 OSD Settings

Configure OSD (On-Screen Display) settings for the camera, including date format, camera name,etc.

Steps

①. Go to **Configuration → Camera → OSD .**

②. Select a camera.



③. Set parameters as your desire.

④. Drag the text frames on the preview window to adjust the OSD position.

⑤. Click Apply.

Chapter 7 Event

7.1 Motion Detection

Motion detection enables the video recorder to detect the moving objects in the monitored area and trigger alarms.

Steps

①. Go to **Configuration → Camera → Event → Motion Detection .**



②. Select a camera.

③. Turn on Enable.

④. Set the motion detection area.

- Click Draw Area or Clear to draw or clear areas. The first area is set as full screen by default.
- Click Full Screen to set the motion detection area as full screen. You can drag on the preview window to draw motion detection areas.

⑤. Adjust Sensitivity. Sensitivity allows you to calibrate how easily movement could trigger the alarm. A higher value results in the more readily to triggers motion detection.

⑥. Optional: Set Target Detection as Human or Vehicle to discard alarms which are not triggered by human body or vehicle. Only certain camera models support this function.

⑦. Set the arming schedule. Refer to Configure Arming Schedule for details.

⑧. Set the linkage actions. Refer to Configure Alarm Linkage Action for details.

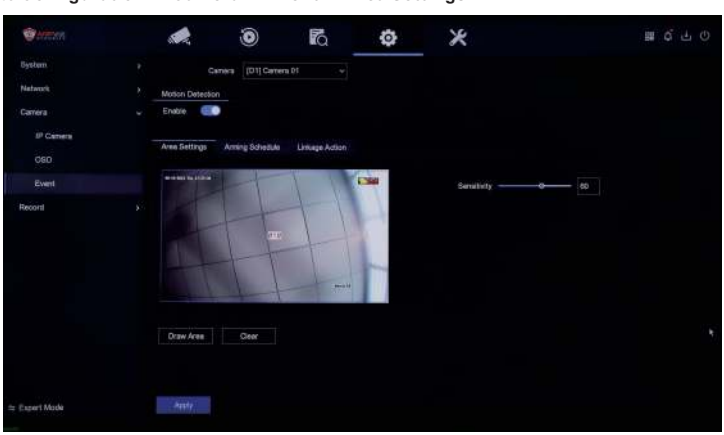
⑨. Click Apply.

7.2 Area Settings

Region entrance detection detects objects that enter a predefined virtual region.

Steps

①. Go to **Configuration → Camera → Event → Area Settings**



②. Select a camera.

③. Turn on Enable.

④. Set detection rules and detection areas.

(1) **Set Arming Area**. Up to 4 arming areas are selectable.

(2) **Set Sensitivity**. The higher the value is, the easier the detection alarm can be triggered. Its range is [1-100].

(3) **Optional:** Set Target Detection as Human or Vehicle to discard alarms which are not triggered by human body or vehicle.

(4) **Click Draw Area** to draw a quadrilateral detection region.

⑤. Set the arming schedule. Refer to for Configure Arming Schedule for details.

⑥. Set the linkage actions. Refer to Configure Alarm Linkage Action for details.

⑦. Click Apply.

7.3 Configure Arming Schedule

Steps

①. Select Arming Schedule.

②. Choose one day of a week and set the time segment. Up to eight time periods can be set within each day.

Note | Time periods shall not be repeated or overlapped.



③. Click Apply.

7.4 Configure Alarm Linkage Action

Alarm linkage actions will be activated when an alarm or exception occurs.

Steps

①. Click Linkage Action.

②. Set normal linkage actions, alarm output linkage actions, trigger channel, etc.

Alarm Pop-up Window

The local monitor will pop up the alarming channel image when an alarm is triggered. It requires to select the alarming channel(s) in Trigger Channel.

Buzzer Alarm

It will trigger a buzzer beep when an alarm is triggered.

Notify Surveillance Center

The device will send an exception or alarm signal to the remote client software when an alarm is triggered.

Send Email

It will send an email with alarm information when an alarm is triggered.

PTZ Linkage

It will trigger PTZ actions (e.g., call preset/patrol/pattern) when smart events occur.

Audio and Light Alarm Linkage

For certain network cameras, you can set the alarm linkage action as audio alarm or light alarm.

Note

- Ensure your camera supports audio and light alarm linkage.
- Ensure the audio output and volume are properly configured.
- If you require to set audio and light parameters, please log into the network camera via web browser to configure them.

③. Click Apply.

④. Recording Management

Chapter 8 Recording Management

8.1 Storage Device

Initialize HDD

A newly installed hard disk drive (HDD) must be initialized before it can be used to save videos and information.

Before You Start

Install at least an HDD to your video recorder. For detailed steps, refer to Quick Start Guide.

Steps

①. Go to **Configuration → Record → Storage .**

②. Select an HDD.

③. Click Init.

Repair Database

Repair an HDD that with error in database. Please operate it with the help of professional technical support.



8.2 Add Network Disk

You can add the allocated NAS or IP SAN disk to the video recorder, and use it as a network HDD. Up to 8 network disks can be added.

Steps

①. Go to **Configuration → Record → Storage .**

②. Click Add.

③. Select NetHDD.

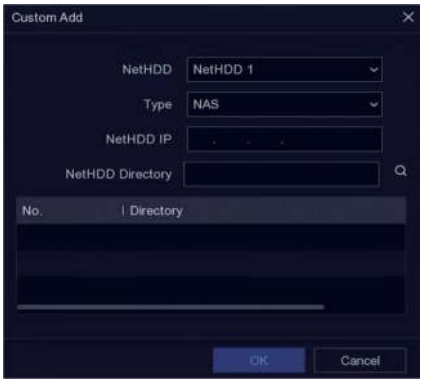
④. Set Type as NAS or IP SAN.

⑤. Enter NetHDD IP address.

⑥. Click to search the available disks.

⑦. Select NAS disk from the list, or manually enter the directory in NetHDD Directory.

⑧. Click OK. The added NetHDD will be displayed in the storage device list.



8.3 Configure Recording Schedule

You can configure the recording triggered by the motion detection, line crossing detection, and intrusion detection.

Steps

①. Go to **Configuration → Event → Smart Event .**

②. Configure the event detection and select the channels to trigger the recording when an event occurs. Refer to Event for details.

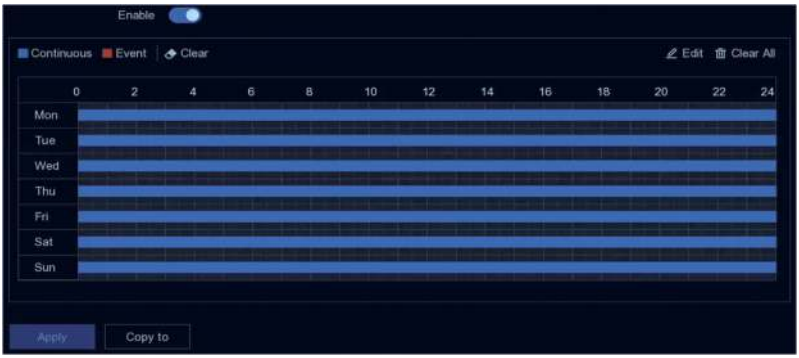
③. Go to **Configuration → Record → Parameter .**
Go to **Configuration → Record → Schedule .**

④. Select recording type as Event. Refer to Edit Schedule for details

8.4 Edit Schedule

Steps

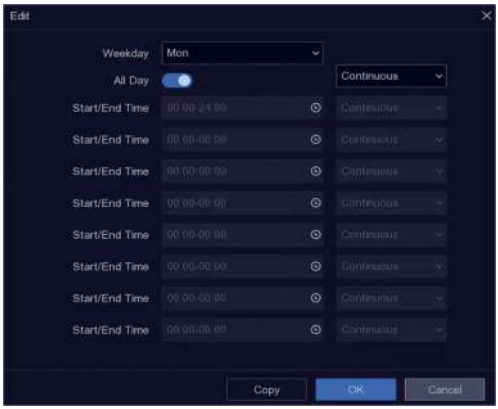
①. Go to **Configuration → Record → Schedule .**



Continuous
Continuous recording.
Event
1.Recording is triggered by events.
2. Select a camera in Camera No..
3. Turn on Enable.
4. Configure the recording schedule.
Edit
Schedule
a. Click Edit.
b. Select a day to configure in Weekday.
c. To set an all-day recording schedule, check All Day and select schedule type.
d. To set other schedules, uncheck All Day, and set Start/End Time and schedule type.

Note Up to 8 periods can be configured for each day. And the time periods cannot be overlapped with each other.

e. Click OK to save the settings and go back to upper level menu.



Draw
Schedule
a. Click to select schedule type as Continuous or Event.
b. On the table, drag the mouse on the desired period to draw a colored bar.
5. Click Apply.

8.5 Configure Recording Parameter

Steps

1.Go to **Configuration → Record → Parameter .**
2. Configure recording parameters.

Main Stream

Main stream refers to the primary stream that affects data recorded to the hard disk drive and will directly determine your video quality and image size. Comparing with the substream, the main stream provides a higher quality video with higher resolution and frame rate.

Sub-Stream

Sub-stream is a second codec that runs alongside the mainstream. It allows you to reduce the outgoing internet bandwidth without sacrificing your direct recording quality. Sub-stream is often exclusively used by smartphone applications to view live video. Users with limited internet speeds may benefit most from this setting.

Frame Rate

Frame rate refers to how many frames are captured each second. A higher frame rate is advantageous when there is movement in the video stream, as it maintains image quality throughout.

Resolution

Image resolution is a measure of how much detail a digital image can hold: the greater the resolution, the greater the level of detail. Resolution can be specified as the number of pixelcolumns (width) by the number of pixel-rows (height), e.g.,1024×768.

Bitrate

The bit rate (in kbit/s or Mbit/s) is often referred to as speed, but actually defines the number of bits/time unit and not distance/time unit.

Note

Higher resolution, frame rate, and bitrate provide you better video quality, but it also requires more internet bandwidth and uses more storage space on the hard disk drive.

3.Click Apply.

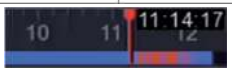
Chapter 9 Playback

9.1 GUI Introduction

Go to **Playback .**



Button	Operation	Button	Operation
	30 s reverse.		30 s forward.
	Full screen.		Start playback.
	Speed down.		Speed up.
X1	Speed.		



- Position the cursor on the timeline, drag the timeline to position to a certain time.
- Period marked with blue bar contains video. Red bar indicates the video in the period is event video.
- Scroll up/down to zoom out/in timeline.

9.2 Normal Playback

Play back normal videos.

Steps

1. Go to Playback .
2. Select a camera from the camera list.
3. Select a date on the calendar for playback.

Note The blue triangle at the calendar date corner indicates there are available videos. For example, means video is available means no video.

4. Optional: Position the cursor on playback window to show control bar.



Button	Description	Button	Description
1 4 8 9 16	Window division, group the channels and play.		Zoom in/out playback image.
	Turn on/off audio.		Add tag.
	Lock/unlock video.		Clip video.
	Show videos that contain human.		Show videos that contain vehicle.
Skip Normal Videos	If you have clicked / , the device will hide other videos, and only show and play videos that contain human or vehicle during playback.		

9.3 Event Playback

When you select the event playback mode, the system will analyze and mark videos that contain the motion detection, line crossing detection, or intrusion detection information, .

Before You Start

- Ensure the camera has enabled **Dual-VCA**. You can enable it via the camera web browser interface in **Configuration → Video/Audio → Display Info. on Stream .**
- Ensure your video recorder has enabled **Save VCA Data**. You can enable it in **Configuration →Record → Advanced .**

Steps

1. Go to **Playback .**
2. Click **Event**.
3. Select a camera.

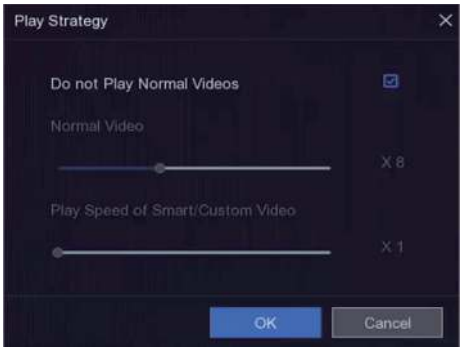


4. Position the cursor on playback window to show control bar.

Button	Description	Button	Description
	Add tag.		Zoom in/out playback image.
	Clip video.		Lock/unlock video.
	Configure detection area.		Turn on/off audio.

5. Click to set detection areas of line crossing detection, intrusion detection, or motiondetection.
6. Click to search videos. Videos meet the detection rule requirement will be marked in red.
7. Click to configure the play strategy.

Do not Play Normal Videos
If it is enabled, videos without smart information will not be played.
Normal Video
Set normal video playback speed. The option is only valid when Do not Play Normal Videos is unchecked.
Play Speed of Smart/Custom Video
Set playback speed of videos with smart information. The option is only valid when **Do not Play Normal** Videos is enabled.



9.4 Back up Clip

You can clip videos during playback. Video clips can be exported to the backup device (USB flash drive, etc.).

Before You Start

Connect a backup device to your video recorder.

Steps

1. Start playback. Refer to **Normal Playback** for details.
2. Click .
3. Set the start and end time. You can also adjust cursors on the time bar to set the time period.
4. Click **Save**.
5. Select the backup device and folder.
6. Click **Save** to export the clip to backup device.

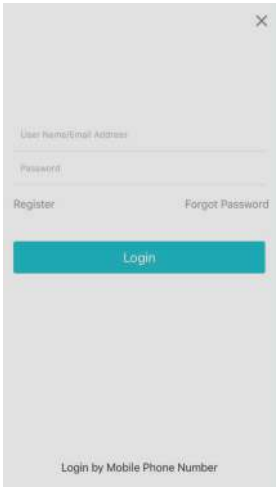
Chapter 10 Remote Control

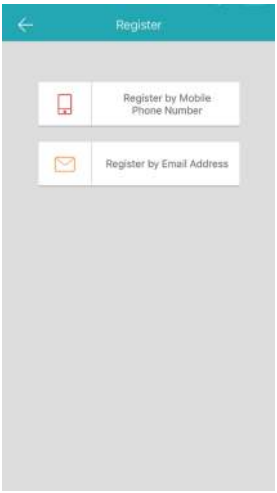
10.1 Accessing by mobile

Before you start to remote control, please make sure that the status of P2P shows **"Online"**, which means your network status is in good condition, then you can watch the video normally on your mobile phone and PC.

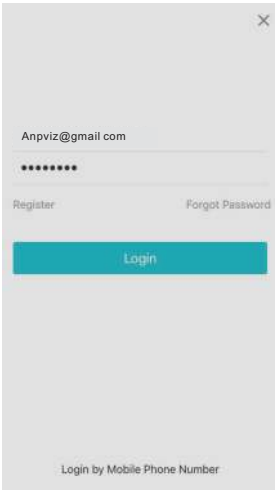
1.Open up your **"GuardingVision"** APP from Google Play or Apple Store , click **"Register"** to sign up for an account by your mobile phone number or email address, please click "Login" after you registered successfully.

Note: Please select the correct country / region when you register an account, it cannot be changed once selected.

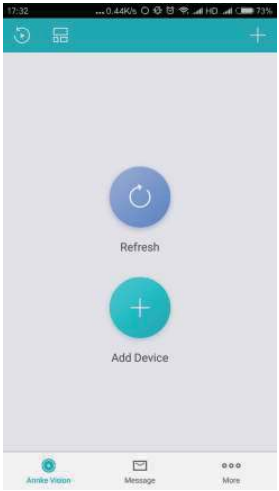






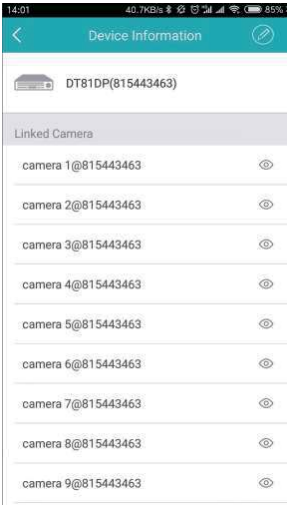


2.Select " " or click the icon " " in the upper right corner to add a device. You can also scan the QR code at the bottom of the device to add or go to "Menu"→"Configuration"→ "Network" interface to get the QR code.



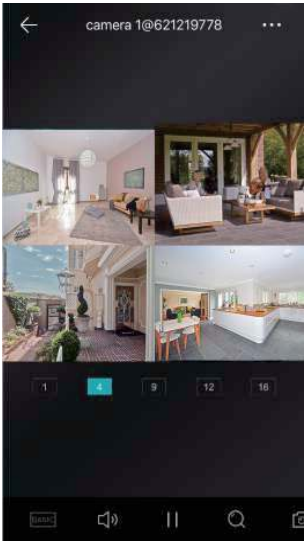


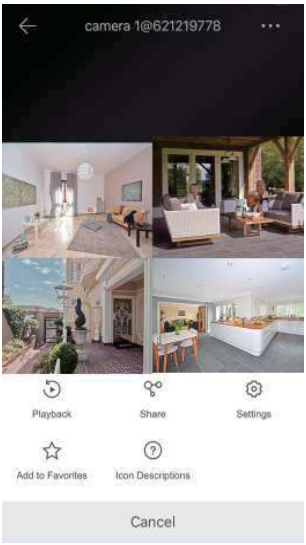


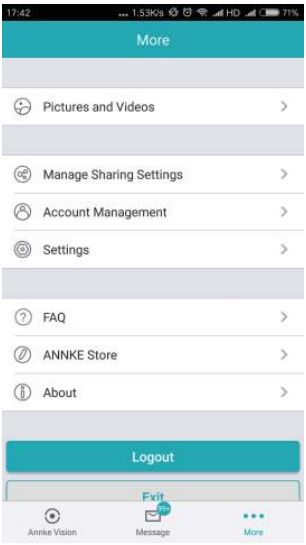


3. Select the device to get real-time preview, click the icon " " in the upper right corner to enter into the interface of function, you can playback, change settings and other functions. click "More" to check more information.









NOTE: For your security, an SN can only be added by one account. But an account can be used on multiple mobile phones.

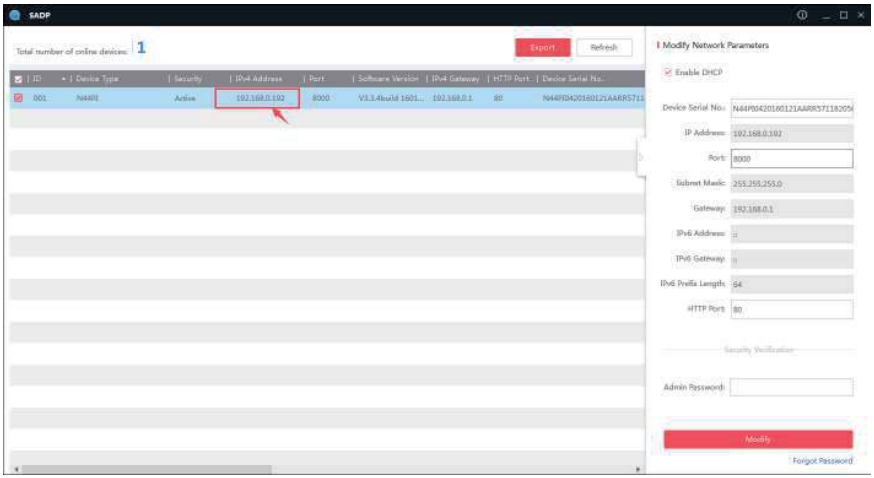
Chapter 11 Web Operation

You can get access to the video recorder via web browser.
You may use one of the following listed web browsers: Internet Explorer 6.0 to 11.0, Apple Safari, Mozilla Firefox, and Google Chrome. The supported resolutions include 1024×768 and above.

When you are at home or the device only works within LAN, you can login on IE browser through device's IP address. You can find the IP address of the device by **SADP** or just go to NVR's **Main Menu > Configuration > Network > General**. You can find the SADP software in the CD or download from our website: **https://www.anpvizsecurity.com/software-tools-hk-series-a00062a1.html**

Steps:

1.Run the SADP software to search online devices, then double click IP address to web browser.Or just input it into web browser if you know the IP address.



Note If you have changed HTTP port, enter http://IP address:HTTP port in address bar. E.g., http://192.168.1.64:81.

2. Enter the user name "admin" and password in the login interface, and click the **Login** button.



3.Once you entered the home page, you can see the list of devices that has been added, and choose a device to start live view.



4.Reopen IE and login, then choose the channel you want to watch the live video.

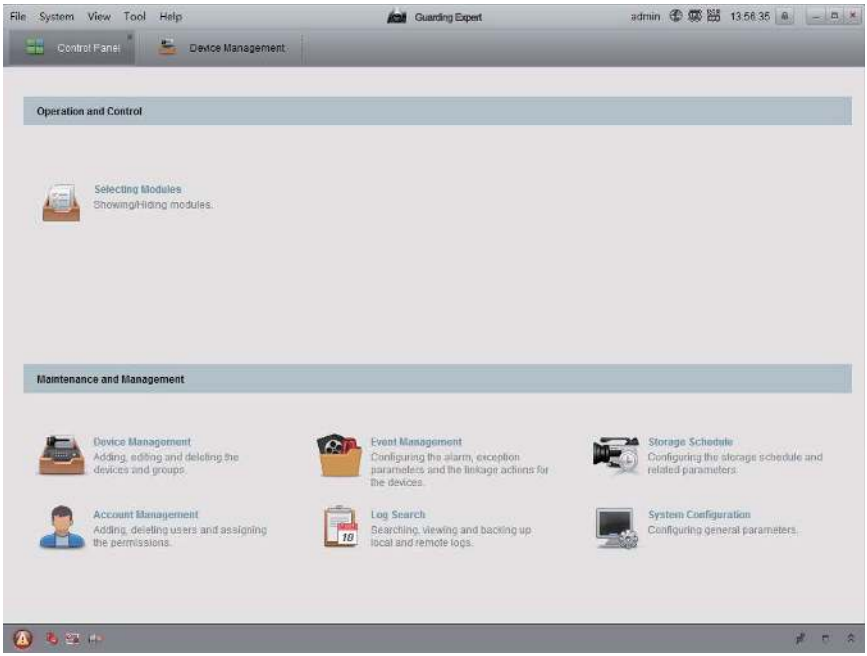


5. Click **Configuration** to enter configuration interface.



Chapter 12 Accessing by Client

You can view the live video and manage the camera with the client software **IVMS4200**. Please find the software from the CD , or download it from our official website **https://www.anpvizsecurity.com/download/h-series_c0037**
Please follow the installation prompts to install the software.
The control panel and live view interface of **IVMS4200** are shown below.



Steps:

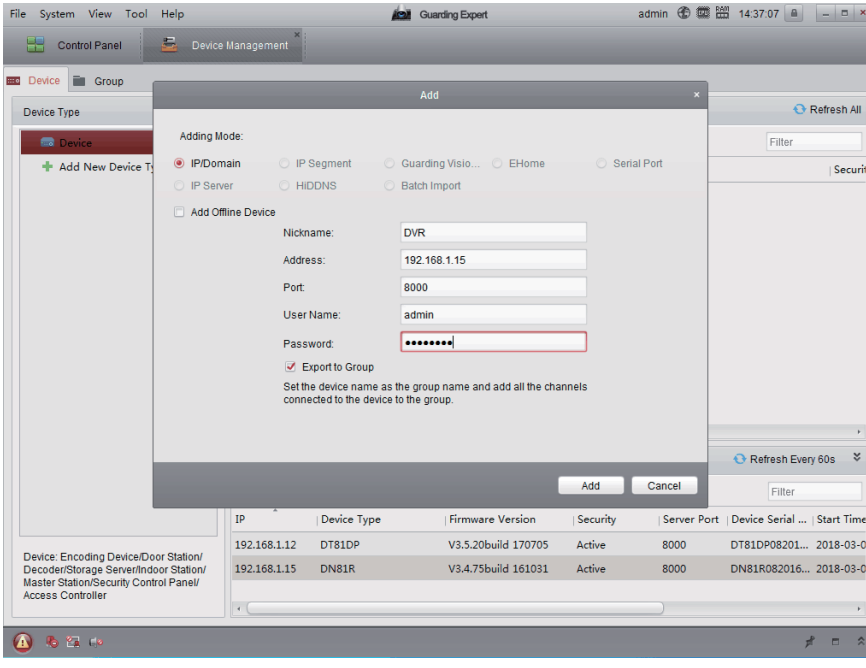
1.Activate device

If your device have been activated you can go to Step 2 directly.

Go to Control Panel-Device Management, on the bottom of the screen in the Online Devices section the screen will display all devices on the network. The **"Security"** will display whether the DVR/NVR is active or not. If the NVR is **"Inactive"** highlight the NVR and press the Activate button to display the **"Activation"** window, then enter a new password into the **"Password"** field, retype the password into the **"Confirm Password"** field, press the OK button, and then it will be activated.

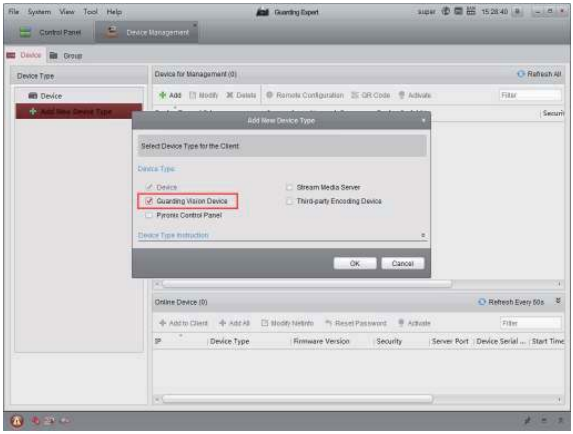
2. Add device

Choose **"Device type"> "Device"**, click **"Add to Client"**, it will shown **"Add"** window, you need to input Nickname, user name, password (the password is same as your activated password), then click add to add the device to client, as shown in the figure below.

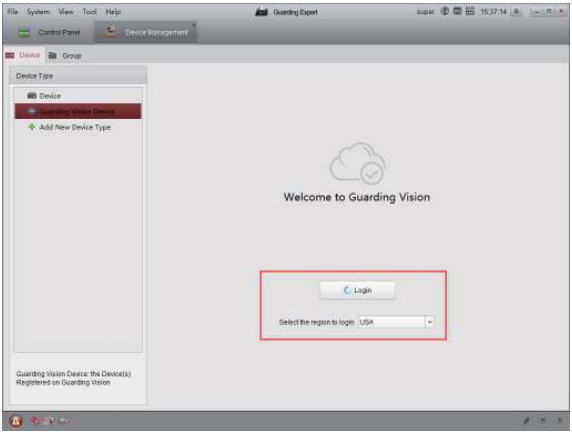


3.Remote View

If you want to access the device remotely by CMS, please click “Add New Device Type” in the device management interface, then check "Guarding Vision Device" and click “OK”.



Click “Login” to login your cloud account and see live view.



4. Live view

Go to **Control Panel—Main View**, you can choose view screen,16 channel in one screen maximum, and if you have added IPC, you can get a live view in the screen, as shown in the figure below.



For more information, please press **F1** to get user manual.

Chapter 13 Software Download and FAQ

13.1 Software Download

If your PC do not have a CD-ROM drive,you can download the software and manual via Internet.

1.Visit https://www.anpvizsecurity.com/download/h-series_c0037
2.Search H Series
3.Click the "Downloads" to choose and get what you want in the list .

13.2 FAQ

1. What should I do if I forgot the NVR's password?

(1) If you forgot your password, please click "Forgot Password" in the lower left corner of the login interface;



(2)You can use the three preset security questions or use the GUID files to set a new password and reactivate the device.

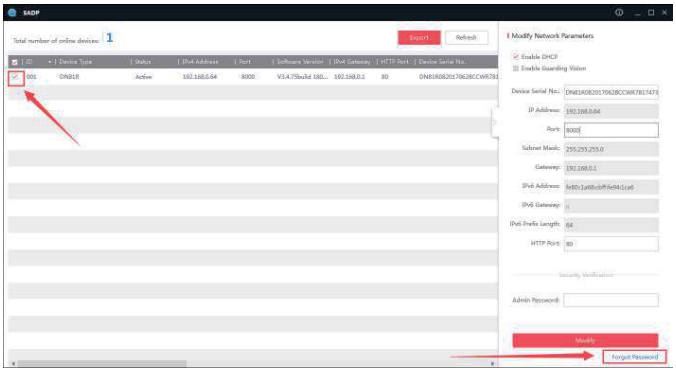




(3)If you forget the answers for the questions and don't have GUID files, please use SADP to export the configuration files to reset the password.

a.Download SADP from the CD or the website below:
https://www.anpvizsecurity.com/download/h-series_c0037
and install it on your computer. Make sure your computer and your device are in the same network.

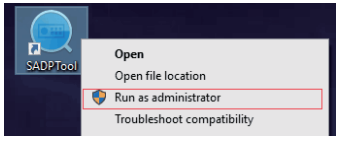
b.Open SADP and check the target device, click "Forgot Password" to enter the Reset Password interface.



C.Click "Export" to download the key request file, and set the file path in the pop-up window.



Click "Select Folder" to save the device's key request file on your PC. The exported key request file is a XML file which is named in the form of "Device Serial No.-System Time".
Note: If your exporting fails, please right-click on SADP and run it as an administrator;



d. As the file has a valid period, please send an email to Support@anpvizsecurity.com immediately after exporting the file, and let us know that you have forgotten the password. Our technical engineer will send you a keyfile back. Please don't restart the DVR after the file is exported, otherwise the file will immediately becomeinvalid.
e. Select "Import File" as the resetting method. Click the file icon to select the received key file (XML file) andclick "Open". Input a new password twice, and the system will evaluate the password strength automatically.We highly recommend you to use a strong password to ensure your data security. Lastly, click "Confirm" tofinish your resetting.



2.What should I do when Mobile phone can not watch the video online ?

Please go to the "Main Menu" > "Configuration" > "Network"**> Platform Access"** to check the status of your network. If the NVR's P2P status is displayed online, you can add a device to "**GuardingVision**" APP to view it remotely. If you can not view it, please check the following steps:
(1). Please check the NVR's P2P status is offline or not, if it is offline:
a. Please confirm whether the network cable is correctly connected to the router, or replace the network cable.
b. If DHCP is enabled on the router, check whether DHCP is enabled on the NVR and whether the IP address of the same network segment as the router is obtained. If the router is set to a static IP address, fix the IP address of the NVR manually and pay attention to the DNS Address can not be empty
(2). If it is not the problem of NVR offline, please check your mobile phone network is Normal or not.

3. **What should I do when I add the device to the phone, but the device has already been added ?**

For your security, a device can only be added by one account, if you forget to register an account and password of mailbox, please take a photo of label at the bottom of the device and e-mail it to Support@anpvizsecurity.com to unbind, and then you can rebind to the new account.

4.What should I do when NVR shows no picture in single or multiple camera channels?

Please make sure NVR, power supplies, cables, cameras and any part or parts is damaged or not may result in NVR shows no picture. Please use the replacement method to check which part is the cause of the problem:
(1). Please check all parts of the connection, whether it is loose or poor contact caused by no picture;
(2). Please replace the camera to see if the picture can be displayed;
(3). Please replace the cable to see if the picture can be displayed;
(4). Please replace the power to see if the picture can be displayed;
(5). Please replace the NVR channel to see if the picture can be displayed

5. What should I do if the interface of the NVR monitor can not be operated?

The default resolution of the NVR output to the monitor is 1024 * 768, and it can also be adjusted to 1920 * 1080 resolution. If the resolution of the monitor is too low or is not a standard monitor, the interface may not be displayed properly.
(1). Adjust the display screen ratio to see if it is normal after adjustment, and check the maximum resolution of the monitor;
(2). If the monitor supports adjusting the margins, you can move the picture down until you can control the main menu, then you can enter the **"Main menu" > "Configuration" > "General" > "VGA/HDMI Resolution"** change to the appropriate resolution and save the setting;
(3). Connect the NVR and your computer to the same router, download and follow the IP search tool to login to the device by IP address and go to **"Configuration">"System settings" > "Menu Output" > "VGA / HDMI Resolution"** to change to the appropriate resolution and save the setting.

Installation Video Guide or Trouble Shoot Video Guide



For more instruction, please download the detailed user manual from https://www.anpvizsecurity.com/download/h-series_c0026



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