AVYCON

Network Video Recorder Quick Start Guide

Note: Please read this instruction carefully for correct use of the product and preserve it for reference purposes. All the examples and pictures used here are for reference only. There may be several technically incorrect places or printing errors in this manual. The updates will be added into the new version of this manual. The contents of this manual are subject to change without notice.This device should be operated only from the type of power source indicatedon the marking label. The voltage of the power must be verified before using the same.

1. HDD Installation

This series of the product supports 1 SATA hard drive. Please make sure that the device is powered off before the installation. The pictures of the installation are only for reference, please take the real object as the standard.

1. Loosen the screws to open the cover.

2. Screw two screws into the holes of HDD but not tighten them.

3. Put the HDD onto the bottom of the device.

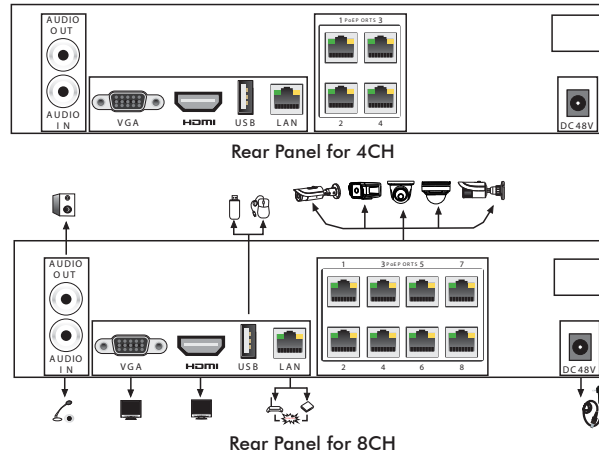4. Connect the power and data cables.

5. Turn over the machine and secure the HDD with the screws.

6. Install back the cover and secure it with the screws.

2. Rear Panel Installation

Rear Panel for 4CH

Rear Panel for 8CH

The interfaces of the rear panel are for reference only.
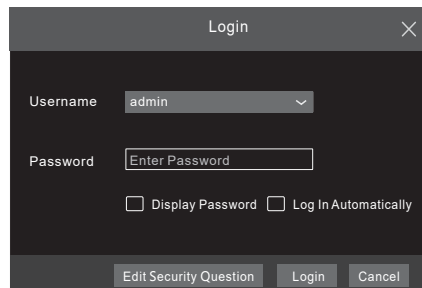
3. Startup & Shutdown

• Startup
1. Connect the monitor and the power.
2. The device will boot and the power indicator will display blue.
3. A wizard window will pop up.

• Shutdown
Go to "Main Menu" and then select "Shutdown" icon. This will bring up a shutdown window. The device will shut down by clicking "OK" button. Then disconnect the power.

4. Login

For our HN500 series NVRs, the **default username is admin** and the **default password is 123456**. When starting HN500 series NVR for the first time, you will see a prompt to begin a startup wizard. You can skip this wizard if you would like, but it will help you configure basic settings for your NVR. The wizard may allow you to also change the default password for better security. If you decide to skip the wizard, to access the live view and start using your NVR click on the Start button in the bottom left of the menu bar on the bottom of the screen and then click on Login and enter in the default password.

Login	×
Username	admin ∨
Password	Enter Password

☐ Display Password ☐ Log In Automatically

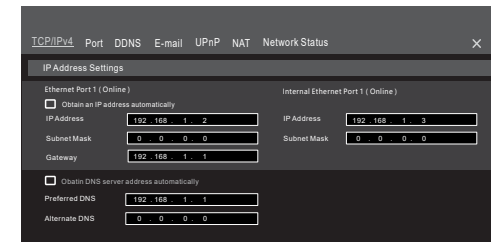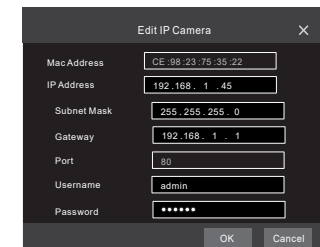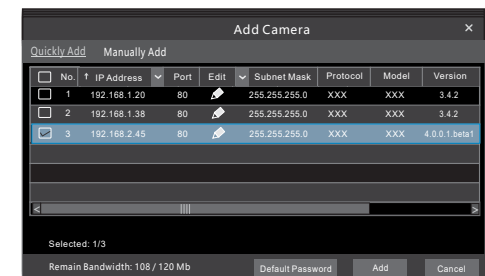Edit Security Question | Login | Cancel

5. Network Configuration

After you finish adding IP cameras, you can see the live images through the monitor of the NVR. The following will mainly introduce how to add the IP cameras via LAN/WAN.
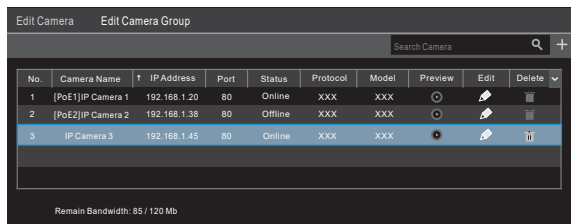
• LAN

1. Set the network of the NVR. Go to Start → Settings → Network → TCP/IPv4. Input IP address, subnet mask, gateway, etc. If using DHCP, please enable DHCP in both the NVR and the router.
2. Go to Start → Settings → Network → Port. Input HTTP port (the default value is 80), server port (the default port is 6036).
3. The internal ethernet port is the port which connects all the PoE ports with the NVR system. The PoE ports are available if the internal ethernet port is online; if it is offline, all the PoE ports will be unavailable. The IP address and subnet mask of the internal ethernet port can be changed to make the port in the same network segment with the IP cameras which directly connect to the PoE ports of the NVR.

TCP/IPv4	Port	DDNS	E-mail	UPnP	NAT	Network Status	×

IP Address Settings

Ethernet Port 1 (Online)
☐ Obtain an IP address automatically
IP Address   192.168.1.2
Subnet Mask   0.0.0.0
Gateway   192.168.1.1

Internal Ethernet Port 1 (Online)
IP Address   192.168.1.3
Subnet Mask   0.0.0.0

☐ Obtain DNS server address automatically
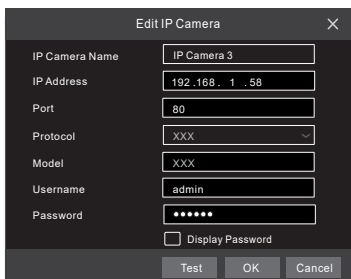Preferred DNS   192.168.1.1
Alternate DNS   0.0.0.0

4. Go to Start → Settings → Camera → Add Camera. The NVR will automatically refresh the cameras searched. The IPC which supports the Onvif protocol may be added manually. If the IPC searched is not in the same local network as the NVR, you should select the device and click ▣ to modify the IP address.

Add Camera							×
Quickly Add	Manually Add						
☐ No. ↑	IP Address ∨	Port	Edit ∨	Subnet Mask	Protocol	Model	Version
☐ 1	192.168.1.20	80	✎	255.255.255.0	XXX	XXX	3.4.2
☐ 2	192.168.1.38	80	✎	255.255.255.0	XXX	XXX	3.4.2
☑ 3	192.168.2.45	80	✎	255.255.255.0	XXX	XXX	4.0.0.1.beta1

Selected: 1/3
Remain Bandwidth: 108 / 120 Mb | Default Password | Add | Cancel

Edit IP Camera	×
Mac Address	CE :98 :23 :75 :35 :22
IP Address	192.168.1.45
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
Port	80
Username	admin
Password	••••••

OK | Cancel

5. Edit Camera"Checkmark the device you want to add and then click "Add" button. The NVR will automatically refresh the cameras and return to interface. The IP cameras (with PoE function) which directly connectto the PoE port of the NVR will be displayed automatically in the camera list. The IP camera which connects to the PoE port cannot be deleted from the camera list manually. "Online" status means connecting the device successfully and you will see the live image.

No.	Camera Name	↑	IP Address	Port	Status	Protocol	Model	Preview	Edit	Delete	∨
1	[PoE1]IP Camera 1		192.168.1.20	80	Online	XXX	XXX	◉	🖉	🗑	
2	[PoE2]IP Camera 2		192.168.1.38	80	Offline	XXX	XXX	◉	🖉	🗑	
3	IP Camera 3		192.168.1.45	80	Online	XXX	XXX	●	🖉	🗑	

Remain Bandwidth: 85 / 120 Mb

You may select the added device and click ▣ button to modify channel, IP address, ect.

Edit IP Camera ✕

IP Camera Name	IP Camera 3
IP Address	192.168. 1 .58
Port	80
Protocol	XXX ∨
Model	XXX
Username	admin
Password	●●●●●●

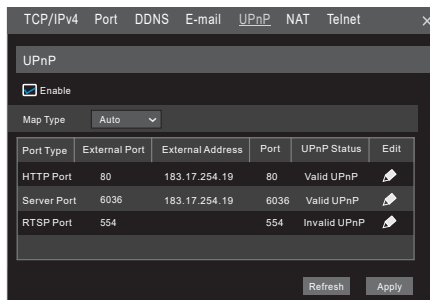☐ Display Password

Test   OK   Cancel

• WAN

1. Set the network of the NVR. Go to Start → Settings → Network → TCP/IPv4. Input static IP address or enable PPPoE and then input the user name and password received from your ISP.

2. Go to Start → Settings → Camera. Click "Add Camera" or ⊞ behind the column of the search camera and select "Manually Add" to add the IP cameras. Input IP address, server port, username and password of the IP camera. The IP camera must be connected over WAN. And here the IP address of the IP camera must be a WAN IP address.

6. UPnP

You can use the UPnP function to enable the fast connection of the device to WAN via a router without port mapping.
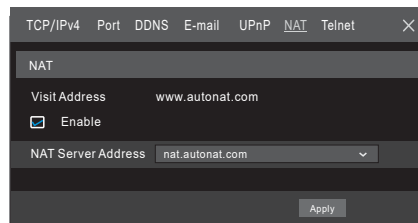
1. Go to Start → Settings → Network → UPnP, and enable UPnP and then click "Apply" button to save.
2. Enable the UPnP function in the router.
3. Click "Refresh" button to refresh the UPnP status. If the UPnP status were still "Invalid UPnP" after refreshing it for several times, the port would be wrong. Please change the mapping type to "Manual" and then click ▣ to modify the port until the UPnP status turns to "valid UPnP".

TCP/IPv4	Port	DDNS	E-mail	UPnP	NAT	Telnet	✕

UPnP

☐ Enable

Map Type   Auto ∨

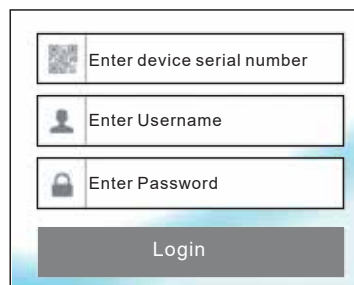| Port Type	External Port	External Address	Port	UPnP Status	Edit
HTTP Port	80	183.17.254.19	80	Valid UPnP	🖉
Server Port	6036	183.17.254.19	6036	Valid UPnP	🖉
RTSP Port	554		554	Invalid UPnP	🖉

Refresh   Apply

7. NAT

• NAT Setting

1. The NVR shall be powered on and connected to the network.

2. Go to Start → Settings → Network → TCP/IPv4. You can obtain the IP address, subnet mask and gateway automatically. You can also manually enter them according to the actual network situation. Please make sure the network segment is the same as that of the network which is used.

3. Set the preferred or alternative DNS Server. Click "Apply" to save the parameters.

4. Go to Start → Settings → Network → NAT tab. Enable NAT and select the NAT Server Address (The default NAT Server Address is nat.autonat.com). Click "Apply" to save the parameters.

TCP/IPv4	Port	DDNS	E-mail	UPnP	NAT	Telnet	✕

NAT

Visit Address   www.autonat.com

☑ Enable

NAT Server Address   nat.autonat.com ∨

Apply

• NAT Access

After finishing the NAT settings, you can input www.autonat.com in the IE address bar and then press enter to go to the following interface. If you are the first time to access the NAT, you shall download and install the ActiveX according to the popup tips. After installing ActiveX successfully, it will pop the login box.

▦	Enter device serial number
👤	Enter Username
🔒	Enter Password

Login

Device Serial Number: Click ▦ on the menu bar at the bottom of the live interface to check the serial number or go to Start → Settings → Network → Network Status to check the serial number of the DVR).
Username: The username of the NVR. The default username is **admin.**
Password: The password of the NVR. The password is set by yourself when you configure the wizard for the first time.

9. Manual Recording

Before recording, please install and format a HDD. In the live interface you can see the menu toolbar. Click ▦ button to start recording. Click it again to stop recording. You can also click ▦ to check the status of the recording.

10. Playback

• Instant Playback

Click "Instant Playback" in the right-click menu of the camera's preview window to select or drag the playback progress bar to change the playback time to play back the record.

• General Playback

Click ◉ on the tool bar at the bottom of the live preview interface or click Start → Playback to go to the playback interface as shown below. You can also add the playback cameras manually. Click ⊞ in the playback window to pop up the "Add Camera" window. Check the cameras in the window and then click "Add" to add playback camera. The record files of the added playback camera will be played in the playback interface.