



USER'S MANUAL

WIRELESS SECURITY CAMERA SYSTEMS



Preface

Thank you for choosing xmartO products! By purchasing a Night Owl product, you receive a one (1) year warranty covering manufacturing defects in material and workmanship.

This user manual is to introduce the operations of xmartO wireless camera systems in more details. If there is any other question which is not covered in this user manual, please contact xmartO support at support@xmarto.com.

Statement

- Though we apply all efforts to make the manual complete and accurate, there could still be some discrepancies due to products' timely update.
- The products and manual are subject to change without previous notification.
- The content in this manual is only for users' reference. We don't promise it's exactly the same with the products you purchase. Detailed information is in accordance with the final products.
- The accessories and parts mentioned in this manual are only for product using guide purpose and not necessarily to be included in your purchased item.

Special Statement

Please comply with local laws and regulations when you use the surveillance devices.

About default settings

- The default username for NVR is admin (admin is the super administrator ID)
- The default password for account admin is empty, means no password.
- The default IPv4 address of NVR is: 192.168.1.114
- The default setting of NVR is to overwrite oldest recorded videos when hard drive is full.
- The device will start Setup Wizard by default when NVR is powered on.
- The default NVR resolution is 1280 x 1024.

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1. Safety Instructions

- **Use the provided power adapter.**
Do not use this product with a power source that applies more than the specified voltage.
- **Never insert metal into the NVR case or its openings.**
Inserting metal into the NVR case may cause electric shock.
- **Do not operate in wet or dusty areas.**
Avoid placing the NVR in areas such as a damp basement or dusty attic.
- **Do not expose the NVR to rain or use near water.**
If the NVR accidentally gets wet, unplug it and contact technical support immediately.
- **Keep product surfaces clean and dry.**
To clean the outside case of the NVR, use a lightly dampened cloth. Do not use cleaning solutions or solvents.
- **Do not install near any heat sources.**
Do not install the NVR near any heat sources such as stoves, heat registers, radiators or electronics (including amplifiers) that produce heat.
- **Unplug the NVR when moving it.**
Make sure that the NVR is unplugged before you move it. When moving this device, be sure to handle it with care.
- **Make sure there is good air circulation around the NVR.**
This NVR uses an internal hard drive, which generates heat during operation for video storage. Do not block vents on the NVR, as these vents reduce the generated heat while the system is running. Place this product in well-ventilated area.
- **Do not attempt to remove the top cover.**
If you observe any abnormal operation, unplug the NVR immediately and contact technical support. Do not attempt to open the NVR to diagnose the cause of the problem.
- **Handle the NVR carefully.**
If you drop the NVR on any hard surface, it may damage the device. If the NVR doesn't work properly due to physical damage, contact an authorized dealer for repair.

* It is recommended to use your NVR with an uninterruptible power supply (UPS). Connecting your NVR and cameras to a UPS allows continuous operation even during power outages. The run-time duration will depend on the rating of the UPS used.

2. Product Overview

2.1 Introduction

The xmartO WNV series network video recorder is our new generation of NVR. It supports wireless WiFi network video input, real time live view, video playback, and video backup. The NVR system can be widely used for surveillance of home, business, office, villa, etc.

2.2 System Requirements

Please be sure that your PC/MAC® complies with the following specifications:

- PC Operating System: Windows® 7, Windows® 8/8.1 and Windows® 10
- PC Browser: IE® 8 and above
- MAC Operating System: MAC OS X® 10.7 and above

Please be sure that your mobile device complies with the following specifications:

- Android™: 4.0 and above
- iOS®: 7.1 and above

2.3 Specifications

NVR Specifications

4CH NVR (WNV14)

AV(audio/video)input

Operating System: Embedded Linux OS
Network Video: 4CH
Network video input broadband: 20Mbps
Audio Bitrate: 64Kbps

AV (audio/video) output

HDMI input:
1ch, resolution: 1024x768, 1366x768, 1440x900, 1920x1080p
VGA output:
1ch, resolution: 1024x768, 1366x768, 1440x900, 1920x1080p

AV CODEC Specification

Video Resolution: 960p
synch-playback: 4CH

Video Control

Video/Capture mode: Manual, Time, Motion, Alarm
Playback mode: Real time, Routine, Event
Backup: USB backup

Hard Disk

Type: 1*SATA interface
Max Capacity: 4TB Maximum

External Interface

Network Interface:
1 adaptable RJ45 10M/100M, 1 WiFi interface
USB Interface: 2 USB 2.0

Network Control

Protocol: UPnP/ SMTP/ PPPoE/ P2P/ DHCP etc.

Others

Power Supply: DC12V 3A
Power Consumption (W): ≤5W (Without HDD)
Operate Temperature (°C): -10°C(14°F)~55°C(131°F)
Working Humidity (%) RH: 10%~90%
Size: 257mm(W) * 210mm(V) * 45mm(H)
Weight (excluding HDD): ≤1kg

8CH NVR (WNV18)

AV(audio/video)input

Operating System: Embedded Linux OS
Network Video: 8CH
Network video input broadband: Wireless input
72Mbps/ Wired input 100Mbps
Audio Bitrate: 64Kbps

AV (audio/video) output

HDMI input:
1ch, resolution: 1024x768, 1366x768, 1440x900, 1920x1080p
VGA output:
1ch, resolution: 1024x768, 1366x768, 1440x900, 1920x1080p

AV CODEC Specification

Video Resolution: 960p
synch-playback: 4CH

Video Control

Video/Capture mode: Manual, Time, Motion, Alarm
Playback mode: Real time, Routine, Event
Backup: USB backup

Hard Disk

Type: 1*SATA interface
Max Capacity: 4TB Maximum

External Interface

Network Interface:
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Network Control

Protocol: UPnP/ SMTP/ PPPoE/ P2P/ DHCP etc.

Others

Power Supply: DC12V 3A
Power Consumption (W): ≤5W (Without HDD)
Operate Temperature (°C): -10°C(14°F)~55°C(131°F)
Working Humidity (%) RH: 10%~90%
Size: 257mm(W) * 210mm(V) * 45mm(H)
Weight (excluding HDD): ≤1kg

Camera Specifications

Bullet Camera

Technical Parameters

Sensor: 1/3" Progressive Scan Sensor
Resolution: 1280 x 960 High Definition
Minimum illumination: Color: 0.1 Lux; B/W: 0.01 Lux
Shutter: 1/25s to 1/25,000s
Lens: 4mm/6mm
OSD: Date Time & Title
White Balance: Auto
Day&Night: Auto / Color / BW
3D-DNR: Auto
Mirror/Flip: On / Off
Frame Specification:
Dual Streaming Simultaneously:
H.264 1280x960@25fps or below
H.264 640x480@30fps or below
Interface: RJ45 / WiFi 802.11b/g/n

General Specification

Anti-thunder Level: Standard IEC61000-4-5
Working Temperature/Humidity
-20°C(-4°F) to +60°C(140°F) / 20% to 90% RH
Power Input: DC12V-1A
Power consumption: ≤6W
Size: 205(L)×70(W)×55 (H)mm
Weight: 500g
Level of Protection: IP66

Dome Camera

Technical Parameters

Sensor: 1/3" Progressive Scan Sensor
Resolution: 1280 x 960 High Definition
Minimum illumination: Color: 0.1 Lux; B/W: 0.01 Lux
Shutter: 1/25s to 1/25,000s
Lens: 4mm
OSD: Date Time & Title
White Balance: Auto
Day&Night: Auto / Color / BW
3D-DNR: Auto
Mirror/Flip: On / Off
Frame Specification:
Dual Streaming Simultaneously:
H.264 1280x960@25fps or below
H.264 640x480@30fps or below
Interface: RJ45 / WiFi 802.11b/g/n

General Specification

Anti-thunder Level: Standard IEC61000-4-5
Working Temperature/Humidity
-10°C(14°F) to +50°C(122°F) / 30% to 80% RH
Power Input: DC12V-1A
Power consumption: ≤6W
Size: 125(L)×125(W)×99 (H)mm
Weight: 500g

2.4 Product Key Features

- **Auto-Pair, Plug and Play:** NVR and cameras are paired well in default, once you connect NVR to monitor/TV, plug them to power, you see cameras video on monitor/TV in minutes.
- **NVR Built-in WiFi Router:** The NVR has a built-in router, providing WiFi for the HD cameras, so the system won't use your home network bandwidth. You can use the system to live view, record, playback and backup even without Internet.
- **Dream Liner WiFi Relay:** The xmartO Dream Liner technology uses cameras in middle as repeaters. That way, further cameras connect to closer cameras 1st, and then to the NVR as a group. This theoretically doubles/ triples the current WiFi distance.
- **Full Series High Definition:** We have 720p/ 960p/ 1080p HD full series wireless systems for your choice.
- **Easy Remote Access:** Supports live view, playback videos remotely from our free mobile apps.

(app for Android devices and iOS devices are available)

- **Multiple Recording Modes:** Supports manual, continuous, time-scheduled, and motion detection recording
- **VGA and HDMI Video Outputs:** Supports connecting to any standalone VGA or HDMI monitor, or TV.
- **Motion Alerts:** Supports email alerts with snapshots and mobile push notifications when motion is detected
- **80ft IR and IP66 Weatherproof:** Each camera is equipped with 3 infrared LED arrays which allows the camera to see up to 80ft at night. Camera works indoor and outdoor.

3. Operation Instructions

3.1 NVR Diagram



Front View

1. **Power Indicator**
2. **HDD Indicator**
3. **Connection Status Indicator**



Rear View

(Images used are for reference only. Your product may vary slightly.)

1. **VGA Video Output** - Connect the VGA cable from the VGA output port on the NVR to the VGA input port on your TV/Monitor. (VGA cable not included)
2. **HDMI Video Output** - Connect the HDMI cable from the HDMI output port on the NVR to the HDMI input port on your TV/Monitor. (HDMI cable not included)
3. **RJ-45 (Ethernet) Port** - The RJ-45 port will be used to connect the Wireless NVR to your modem/router for remote viewing. Please note that your Wireless NVR comes with built-in Wi-Fi for the cameras to transmit to the NVR. However, you will need to manually connect the NVR to your modem/router to remotely view on a smart device or PC/Mac®. (If you need to add camera to the system, or repair camera to NVR, you can also use this Ethernet port to pair camera to NVR.)
4. **USB Ports** - USB ports allow for the connection of a USB mouse and/or a USB flash drive. You will connect the included USB mouse to assist you in navigating the NVR's menu interface. You will connect a USB flash drive to download video files from the NVR for long term storage or sharing.
5. **Power Input** - Power input is used to connect the included 12V DC power supply.
6. **NVR Antenna Mount** - For installation of two included NVR antennas.

NOTE: The maximum number of cameras you can connect to your wireless NVR will be determined by the number of channels.

3.2 Camera Diagram



1. **Infrared LEDs** - Cameras see up to 80ft at night
2. **Lens** - Different lens gives you different viewing angle
3. **Image Sensor** - 720p/ 960p/ 1080p
4. **Infrared PIR Sensor** – Detects infrared light
5. **Antenna** – Receives wifi signals from NVR
6. **Camera Mount** – Mount the camera
7. **RJ-45 Ethernet Port** – Pair camera to NVR
8. **Audio In** – Connect external microphone to camera to record audio
9. **Power In** – Connect included 12V 1A DC power adapter

NOTE: xmartO cameras with the audio jack support audio. Your camera may not have audio jack depending on when and where it was shipped.

3.3 Mouse Operation

Live Viewing:

Double-click the left button on any camera view in split-screen mode to bring it to full screen display.

Double-click again to return to split-screen mode.

Right-click to show the NVR main menu.

Right-clicking again will hide the NVR main menu.

In Setting:

Left-click to make a selection.

Right-click to cancel setting or return to previous screen.

To Enter Values:

Move the cursor to a blank field and click the mouse. A virtual keyboard will appear which supports numbers, letters and symbols. The Shift function will access symbols in addition to upper case letters.

3.4 Input Method

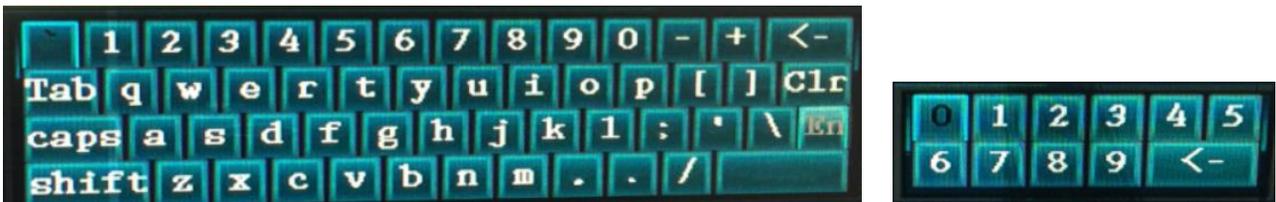


Image 3

Name	Buttons	Function
Number	0~9	Type in number 0~9
Character	a ~ z	Type in letters a ~ z
Symbols	- / . _ * # @	Type in symbols
Caps	caps	Switch capital and small letter
Back space	←	Delete the character ahead of cursor

3.5 Frequently Used Buttons

OK		Save the setting and exit this window (Save and Exit)
Cancel		Cancel the setting
Apply		Save the setting and stay at the window (Save and Continue)
Copy to		Copy the settings of this channel to other channels or all

4. Installation & Connection

4.1 Installation Precautions

Please refer to below tips while install and use the device:

1. To extend the life of the device, please keep the device away from water, high temperature, and dust. Use it in a well-ventilated place.
2. Please use SATA hard drive, USB devices and mouse purchased from authentic channels.
3. Before use, please ensure the NVR has correct ground connection. Power source should not exceed the indicated normal working voltage range in the specs sheet.
4. Do not place near high voltage wires or other sources of electrical interference. Electrical interference will degrade the quality of the signal.

4.2 Camera Installation

4.2.1 Power the cameras

NOTE: Connect all cameras locally before final placement to ensure that all components function properly.

1. Locate the antenna included with each camera.
2. Fasten the antenna to the camera.
3. Locate the camera power adapter included and connect it to a surge protector, UPS or wall outlet.
4. Connect the camera power adapter to camera's power port.
5. Repeat for each camera.



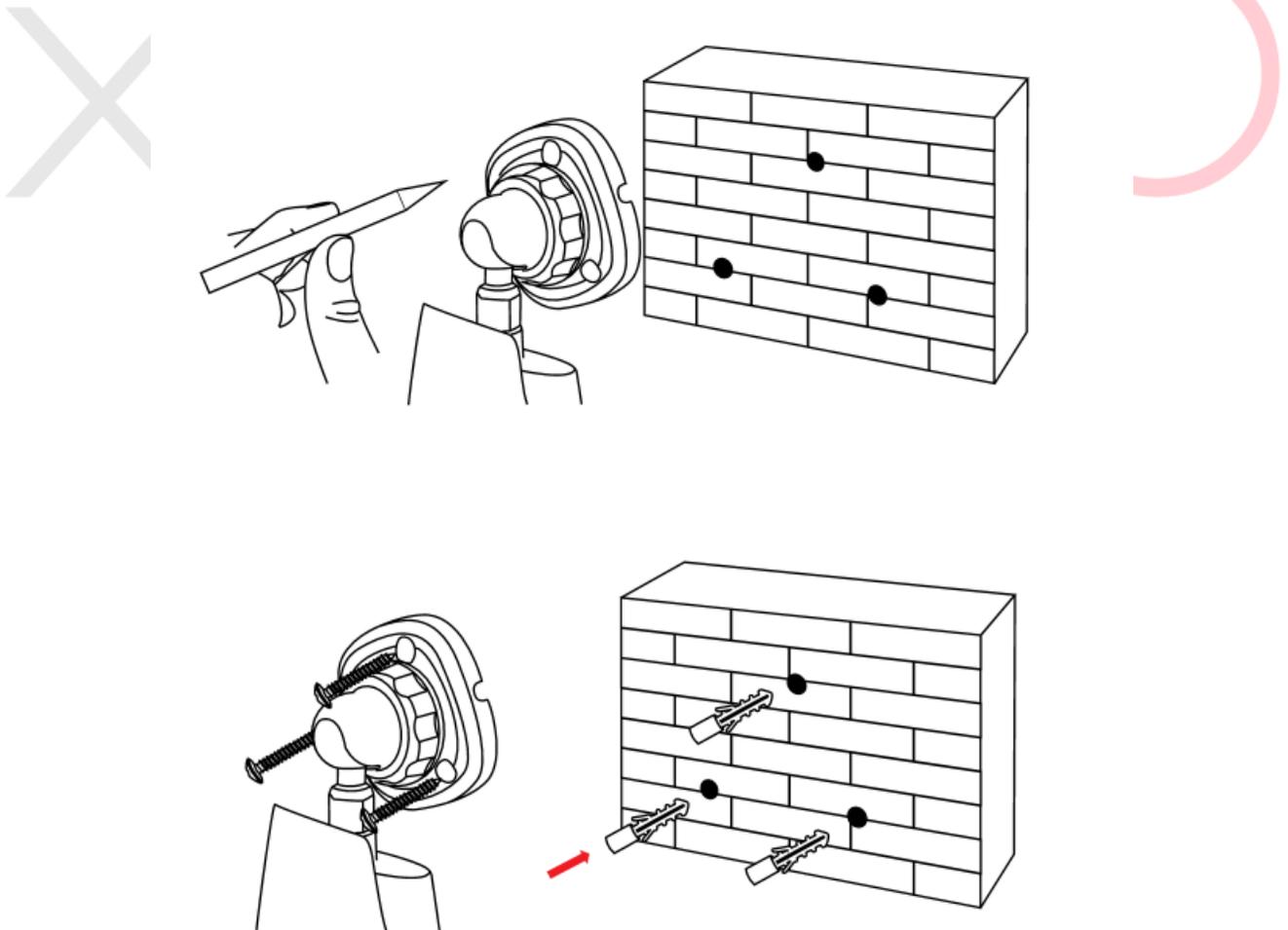
4.2.2 Mount the cameras

- Camera distance from NVR. Your wireless IP cameras will reach up to 3-400ft. wirelessly. Therefore, proper placement of the wireless NVR in your home will help ensure you achieve

maximum coverage.

- Do not place near high voltage wires or other sources of electrical interference. Electrical interference will degrade the quality of the signal.
- Place camera out of reach to avoid vandalism.
- Avoid direct exposure to weather. Do not place the camera where rain or snow will hit the lens directly nor should the camera be placed so that the sun or bright light shines directly into the lens. Your camera is weatherproof, but it will not work when submerged in water. Ensure that all power and video connections are not directly exposed to water and are protected from the elements.
- The mounting surface must hold at least four times the camera's total weight.

1. Locate a camera and choose a location where you would like to mount the camera.
2. Indicate screw positions by marking three holes on the surface where you plan to mount the camera, using the holes in the camera base as a guide.
3. Using a drill bit slightly smaller than the included screw anchors, drill into the mounting surface using the guide marks you placed in the previous step.
4. Insert the screw anchors.
5. Line up the camera base holes with the screw anchors. Holding the base in place, insert screws and tighten until secure.
6. Once the base is screwed in place, make sure that the camera is securely mounted by placing gentle pressure on the mount.
7. Adjust the camera housing to point in the direction of the area you would like to monitor.



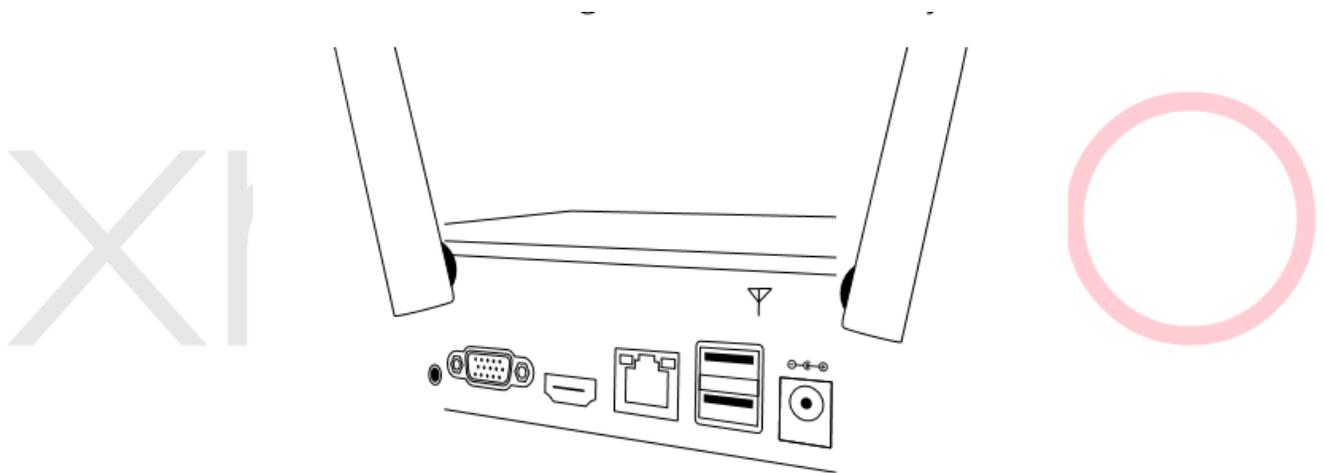
4.3 NVR Installation

4.3.1 Connect your wireless NVR

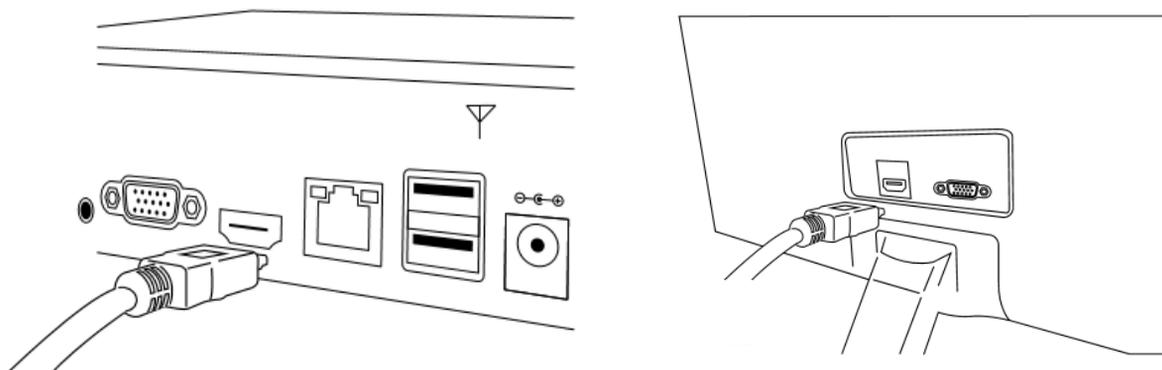
1. Connect the two included antennas to your wireless NVR. This will ensure you achieve the maximum wireless range for transmission from your wireless cameras.
2. Connect NVR to a standalone PC monitor or TV using VGA or HDMI cable (VGA & HDMI cable not included).
3. Plug one end of the included Ethernet cable into the WAN port on the back of the Wireless NVR.
4. Plug the other end of the Ethernet cable into a port on the back of your router.
5. Connect the Wireless NVR to power using included 12V 3A DC power adapter.

You should see each camera appear on your TV/Monitor. You may now proceed to install your Wireless NVR cameras in the desired location.

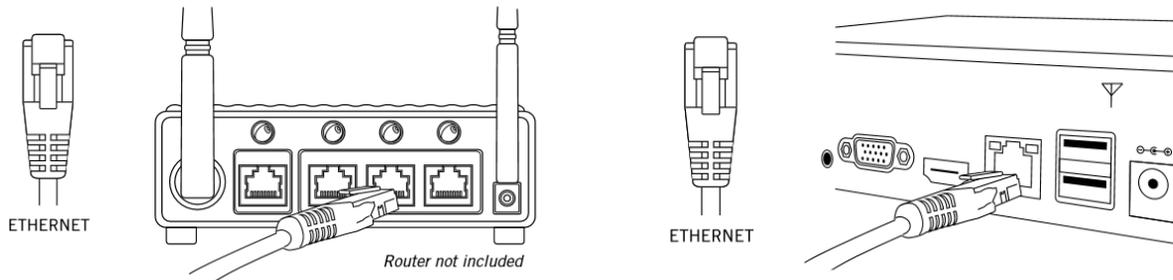
If you do not see cameras appear on your TV/monitor, you must have a NVR resolution compatibility issue. Please contact xmartO support at support@xmarto.com for help.



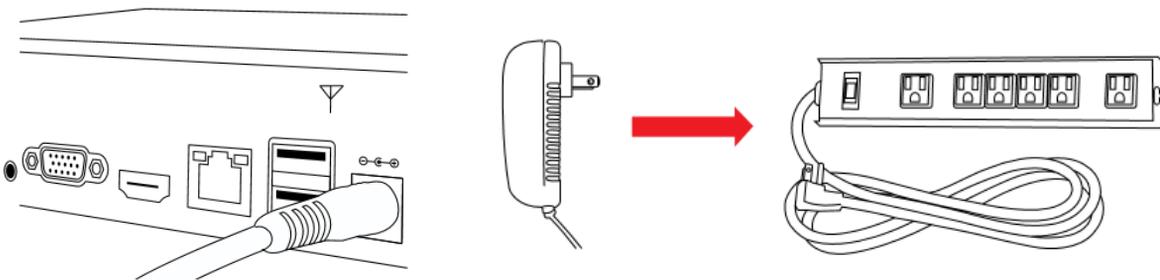
Install Antennas for NVR



Connect NVR to monitor/TV



Connect NVR to router for remote access



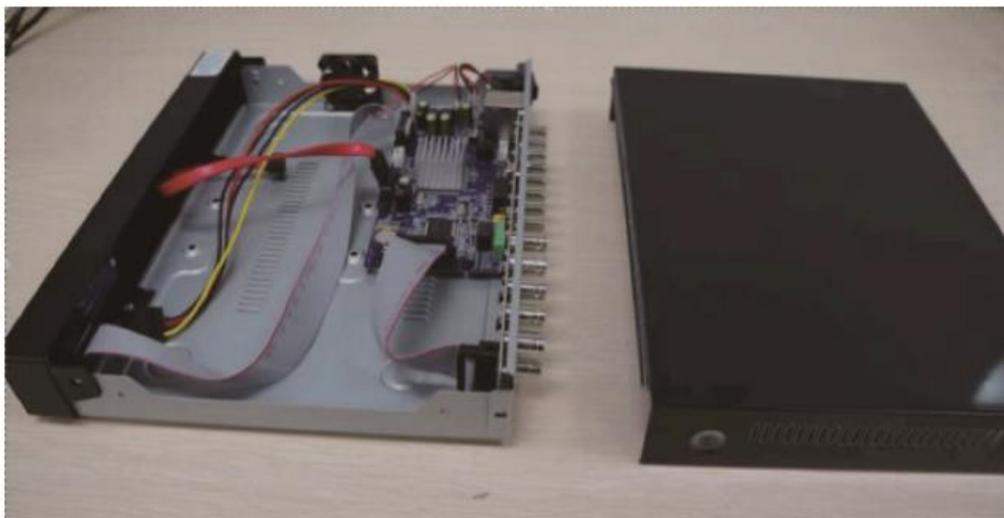
Connect NVR to power

4.4 Install Hard Drive

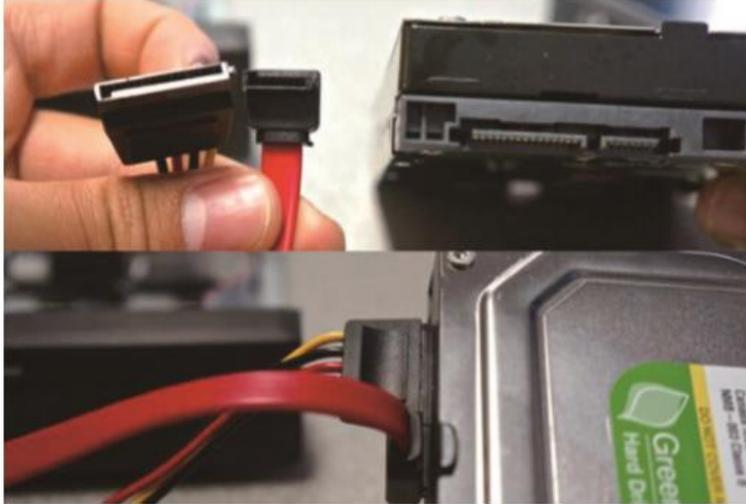
You'll need to add a SATA HDD to the wireless NVR and format it to start recording.

If your system comes with hard drive pre-installed, then you only need to format the hard drive to start recording.

1. Unplug your wireless NVR from power, unscrew and remove the NVR top cover.



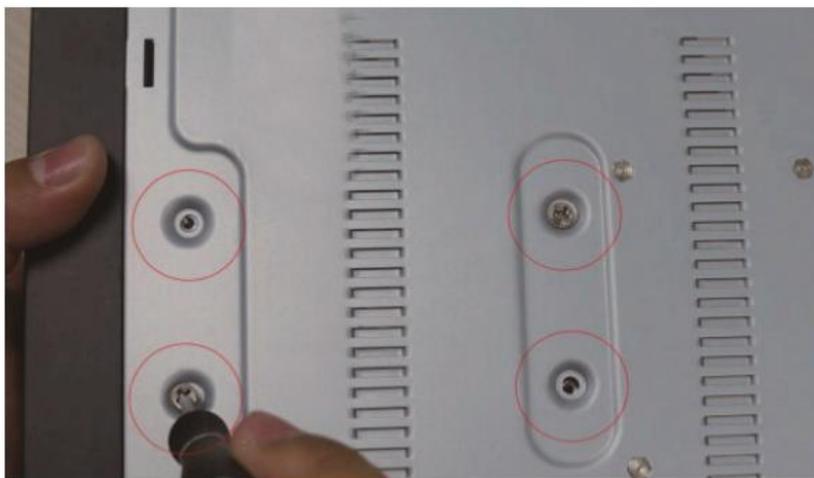
2. Connect the SATA power and data cables from NVR to the corresponding ports on your hard drive.



3. Place the hard drive into the NVR. Any cables should cross up over the HDD.



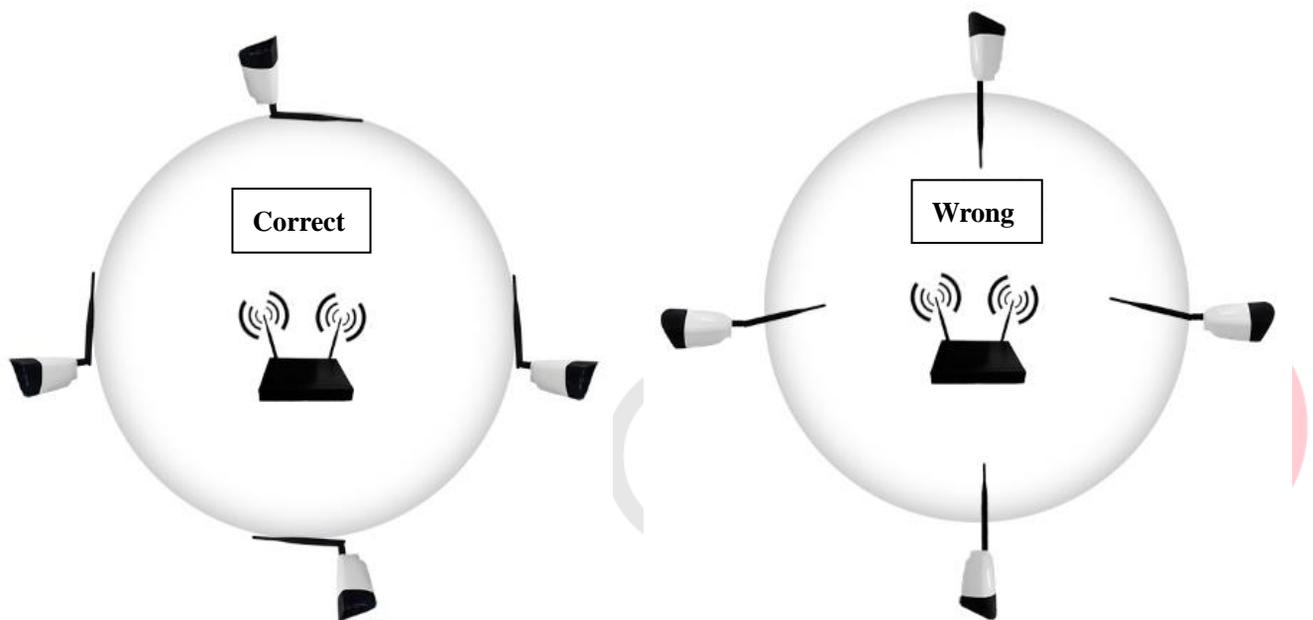
4. Holding the hard drive and NVR, gently turn it over and line up the holes on the hard drive with the holes on the NVR. Using a screwdriver, screw the provided screws into the holes. Assemble the cover.



4.5 Camera Mounting Spots

1. Mount the cameras anywhere within the Wi-Fi range, plug them to power with included power adapters (smaller ones are for cameras).
2. The cameras should start to stream videos to NVR within 1 minute.
3. If it does not display video on the NVR's screen, the distance should be too long or there are too many obstacles. Please move the cameras closer to the NVR.

4.6 Antenna Mounting Tips



The NVR's antennas radiate signals to all around. The signal pick-up is best while antennas are on same height and parallel. If the cameras cannot be at same height with NVR, please keep their antennas parallel.

Suggestions to get better WiFi connection between cameras and NVR:

<http://www.xmarto.com/helpcenter/?/article/1>

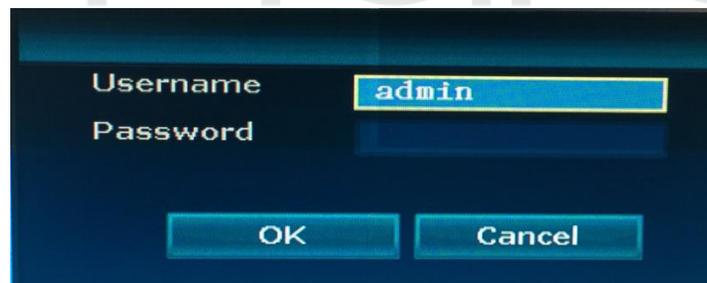
5. Getting Started

When your NVR is powered on it will display the xmartO logo while initializing.



5.1 Login

After initialization, the system will pop out below login interface. Users must login to do further operations.



Default Username: admin

Default Password: empty, means no password, leave it blank

5.2 Setup Guide

After login the system, it will enter Setup Guide automatically, and guide you to do basic settings. You can also right click your mouse or click "Cancel" to skip it.



If you don't want to go through Setup Guide once again when system reboots, please keep "Enable Setup Guide When System Reboot" unchecked.

5.2.1 General setting

Allow the user to set up NVR's time zone, date and time, language, and keypad type. Click "Next" to continue after finish your settings.



5.2.2 Networking

Allows users to connect the NVR to Internet for remote access.

Users can either check DHCP to allow NVR obtain IP address from router automatically, or manually set an IP address for the NVR.

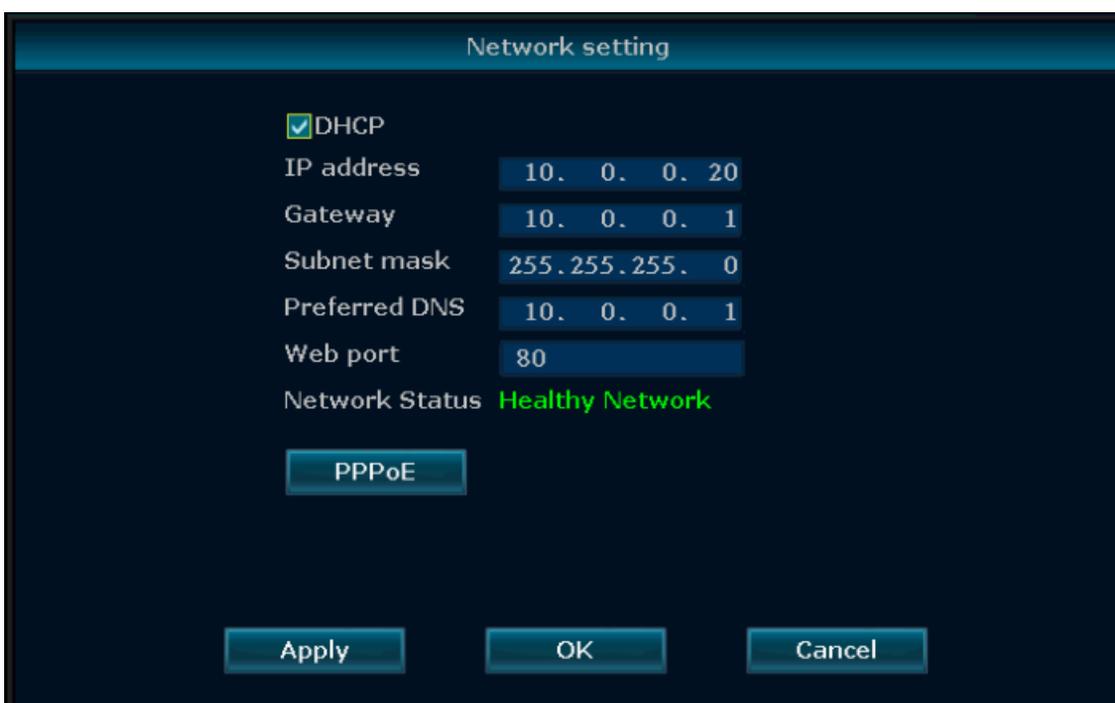
Auto Setup:

Click Auto Setup, NVR will obtain IP address from router automatically and connect to Internet. Once the Device ID shows Online and Network Status shows Healthy Network, your NVR is connected to Internet and is available for remote access.



Manual Setup:

Click Manual Setup, you'll be directed to below Network setting interface, where allows you to set an IP address for the NVR, as well as other network parameters. To setup NVR network settings manually, you need to uncheck DHCP first. Remember to click Apply or OK to save the setting after complete it.



5.2.3 HDD Setting

It displays information of current hard drive installed, including the hard drive model, capacity, used, status and format status.

Hard drive needs to be formatted to start recording.

To format the hard drive, select it and click “Format”. It will take some seconds to format the hard drive.

When hard drive is successfully formatted, the status will show ‘Formatted’. (You will lose all data on the hard drive if you format it. So please make sure to back up the data before formatting your hard drive.)



5.3 Startup/ Login/ Logout/ Reboot/ Close screen display/ Shutdown

5.3.1 Startup

Note:

- Please ensure the power input voltage fit the NVR’s requirements and the NVR has correct ground connection.
- Unstable power source may cause unstable working status or even damage the NVR. If you have unstable power source in your area, please use voltage-stabilized power source.

Tips:

- Before power on the NVR, please connect the NVR to a monitor or TV using VGA or HDMI cable.

Steps of startup the system:

1. Connect NVR to a standalone monitor/TV via VGA or HDMI. (Laptop cannot be used as a monitor.)
2. Plug NVR to power using included 12V 3A DC power adapter, you'll hear a beep and the power indicator light on NVR front panel will light up.
3. If monitor is getting video output from NVR, you should see the starting page with xmartO logo. If not, please check connection.

NOTE: If you cannot get any display on TV, you have resolution incompatibility issue. The NVR's default resolution is 1280 x 1024, which does not work with some of screens. You need another screen to display cameras, or change NVR's resolution online to match with your current screen.

Here is how to change NVR resolution online:

<http://www.xmarto.com/helpcenter/?/article/10>

5.3.2 Logout

If you want to log out while using the system, right click your NVR mouse to pop out NVR main menu, then click "Exit System", and choose "Logout".



If you want the system to auto logout, please go to "System setting" – "General setting", enable the "Auto Logout", click "Apply" to save this setting. System will auto logout if there is no operation within 1 minute. Username and password will be required for next login.

5.3.3 Reboot

If you want to reboot the system while using it, right click your NVR mouse to pop out NVR main menu, then click “Exit System”, and choose “Reboot”. System will reboot immediately.

5.3.4 Close screen display

If you want to close the screen display while using it, please right click your NVR mouse to pop out NVR main menu, then click “Exit System”, and choose “Close screen display”. System will stop displaying camera videos on screen. Double click the left button of your mouse will get it back.

5.3.5 Shutdown

If you want to shut down the system, please right click your NVR mouse to pop out NVR main menu, then click “Exit System”, and choose “Shutdown”. System will release power and pop out message “Now you can power off the device”. Unplug your NVR from power, and the system will shut down completely.

5.4 Device Manage

Manage your cameras’ connections with the NVR. In Device Manage interface, you can add new cameras to NVR, re-pair cameras that lost connection to NVR again, delete cameras from their current channels and re-pair.

5.4.1 Add Device (Pair Camera to NVR)

Pair new add-on camera to NVR, repair lost camera to NVR, pair camera to work wired when they are installed out of NVR’s WiFi range....

5.4.1.1 Add new camera to NVR (Match Code)

Function: Pair the camera to NVR to work wirelessly.

The main function of “Match Code” is to pair the IP cameras to NVR, transmit NVR’s WiFi hotspot and password to IP cameras, thus IP cameras connect to NVR automatically and transmit the video signals to NVR wirelessly.

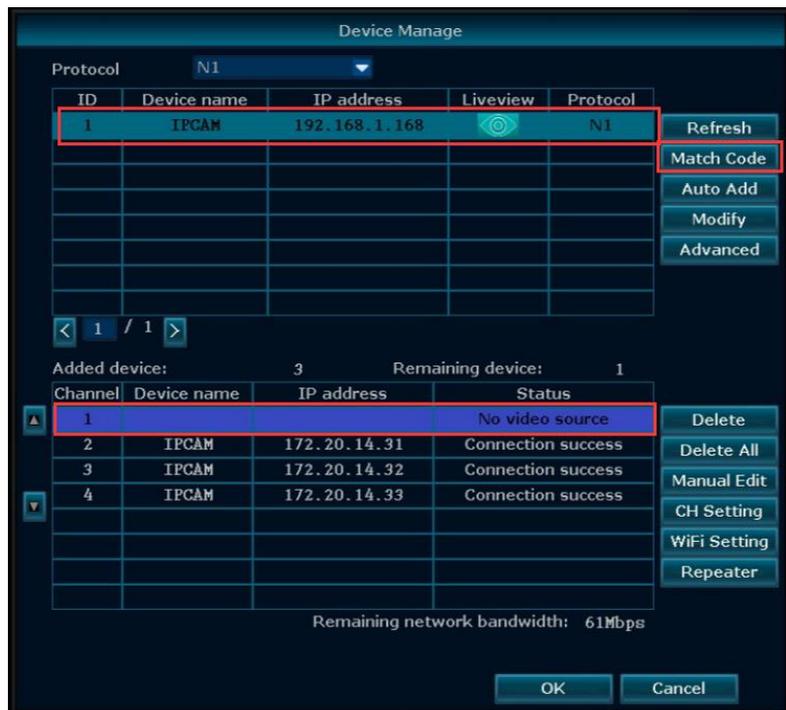
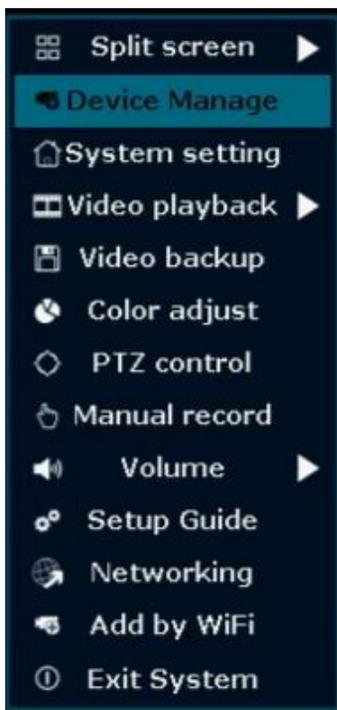
Applies to the situations that add new add-on camera to your system, replace old camera in your system, and repair lost camera to NVR.

Detailed Instructions: <http://www.xmarto.com/helpcenter/?/article/9>

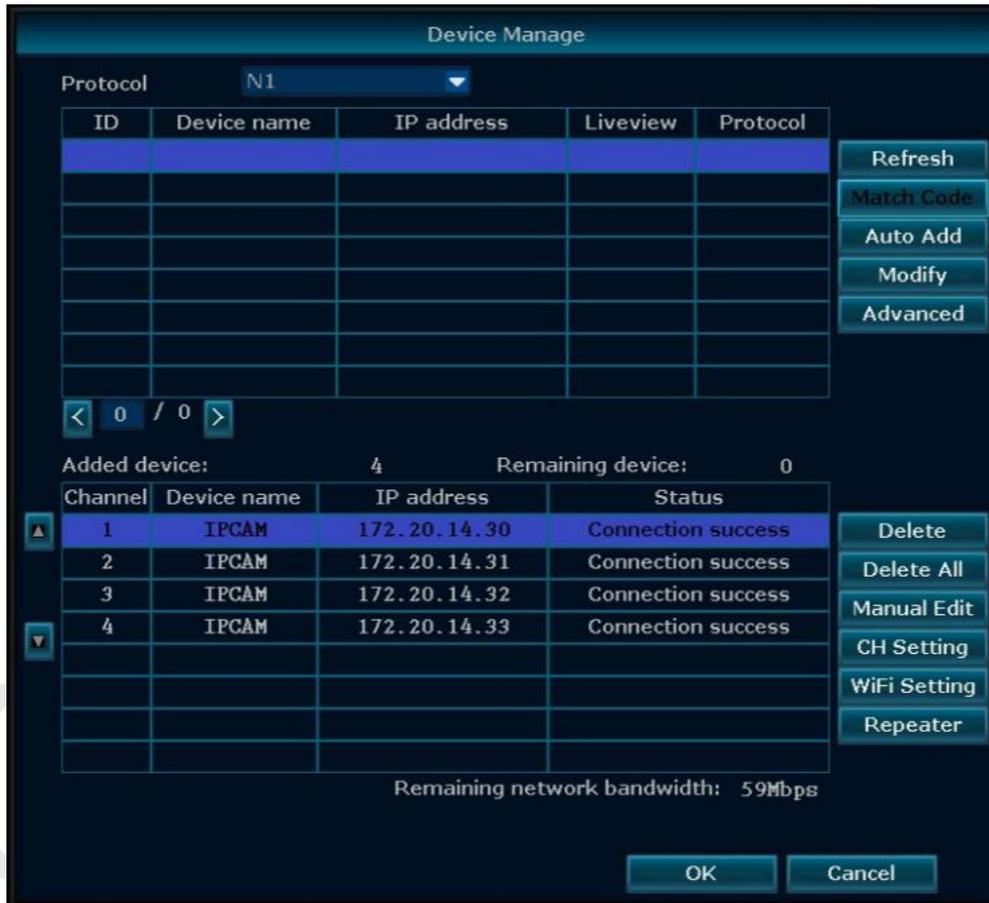
- 1) Connect the camera to your NVR's Ethernet port with a network cable. Plug the camera to power. The Ethernet port on the camera cable end will light up.



- 2) Right click your NVR mouse to pop out NVR main menu, then click Device Manage. Click "Refresh" on upper right and wait for a moment, you'll see the camera displays in upper box, with IP address 192.168.1.168. (192.168.1.xxx is camera's wired IP address, so when you connect the camera to NVR using network cable, you see the camera show in upper box with this wired IP address.)



- 3) Select the camera in upper box, and select an unoccupied channel from bottom box, click “**Match Code**”. Wait for them to pair, once finish, you shall see the camera display video on monitor, and the channel status changes to Connect Success, with assigned IP address 172.20.14. xx. (172.20.14. xx is camera’s wireless IP address, when it is paired to work wirelessly with NVR, it will be assigned with a wireless IP address 172.20.14.xx.)



- 4) You can then disconnect the camera from NVR and move it to anywhere you want. When it gets power, it will automatically connect to NVR and display video on monitor. (Camera needs to be in the NVR’s Wi-Fi range)

More details can be found here: <http://www.xmarto.com/helpcenter/?/article/9>

Channel Status:

- **Connect Success:** Camera is paired to NVR successfully; you should be able to see the camera video on your monitor.
- **No Video Source:** Unoccupied channel, no camera is paired to this channel, you can pair a new camera to this channel.
- **IPC Disconnect:** Camera is paired to NVR but not connected successfully. The reasons vary, please contact xmartO support for solution.

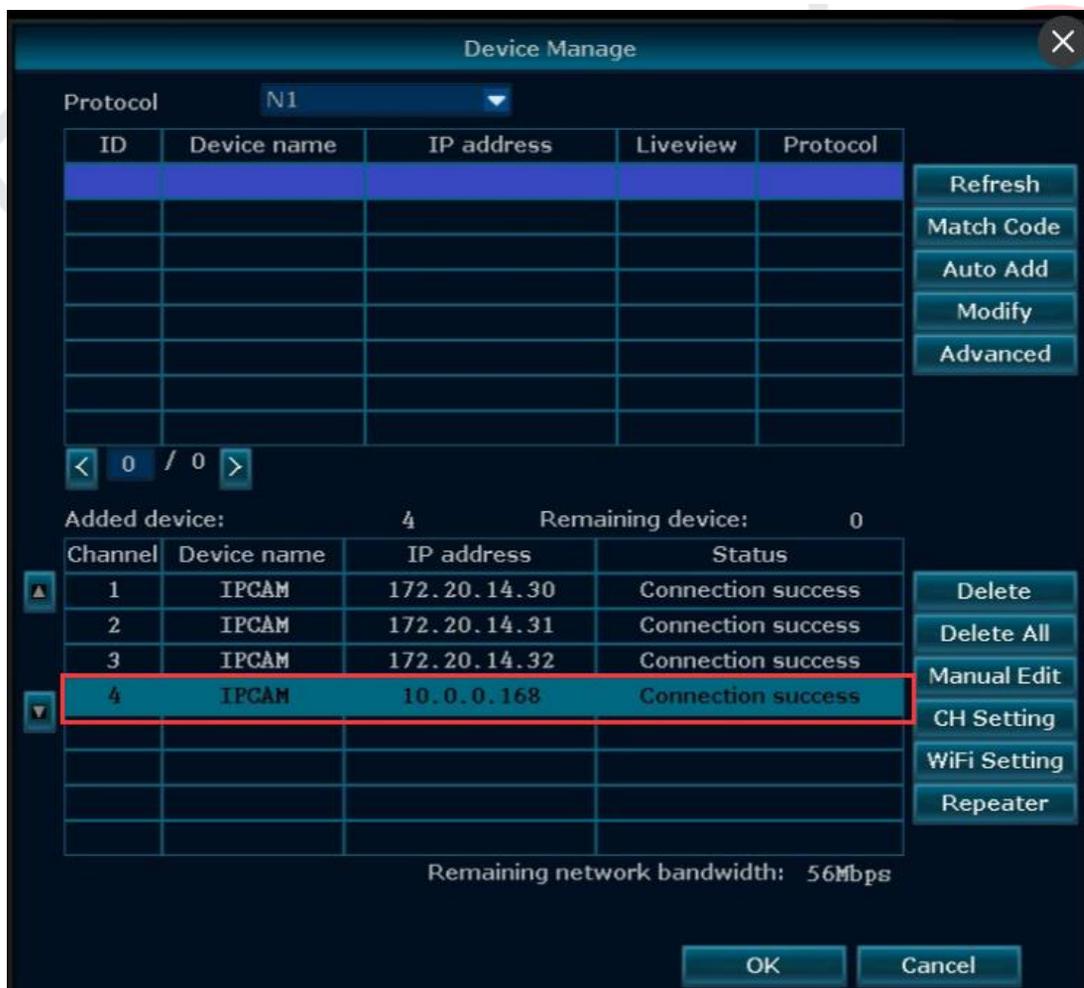
5.4.1.2 Configure Camera to work Wired

Function: If any of your cameras need to be mounted out of NVR’s WiFi range, you can hard wire cameras to router with network cables, and pair them to NVR to work wired.

- 1) Right click your NVR mouse to pop out NVR main menu, then click Device Manage. Select the channel that you want to hard wire from bottom box and click Delete. The channel will become unoccupied, with status No Video Source.
- 2) Connect the camera to your router's LAN port with a network cable. Plug the camera to power. The Ethernet port on the camera cable end will light up.
- 3) Go to Device Manage interface, click "Refresh" on upper right, you'll see the camera show in upper box.
- 4) Select the unoccupied channel from bottom box, then double click the camera in upper box. This will add the camera to NVR. And once finish pairing, you shall see the camera display video on monitor, and the channel status change to Connect Success.
- 5) Now the camera is working wired, please keep the camera hard wired to router to get it work.

NOTE: Since the camera is paired to work wired, it needs to be keep hard wired to router with network cable to work. And the channel IP address is different from other wireless channels. Usually the channel IP address for wired camera is 192.168.1.xx or 10.0.0.xx, which is in the same network segment of your router.

More details can be found here: <http://www.xmarto.com/helpcenter/?/article/14>



5.4.1.3 Auto Add

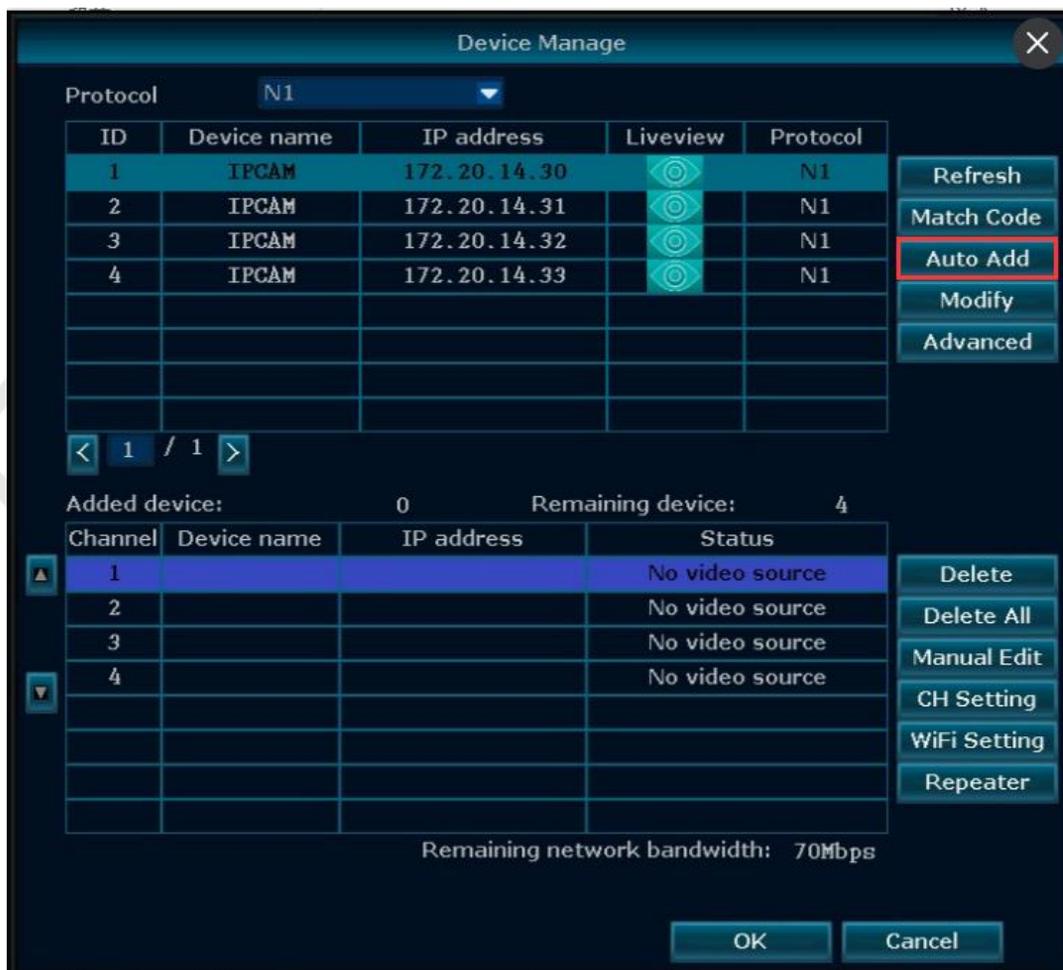
Function: Find all cameras back quickly after upgrading NVR firmware

Auto Add allows you to add all cameras back with only one click.

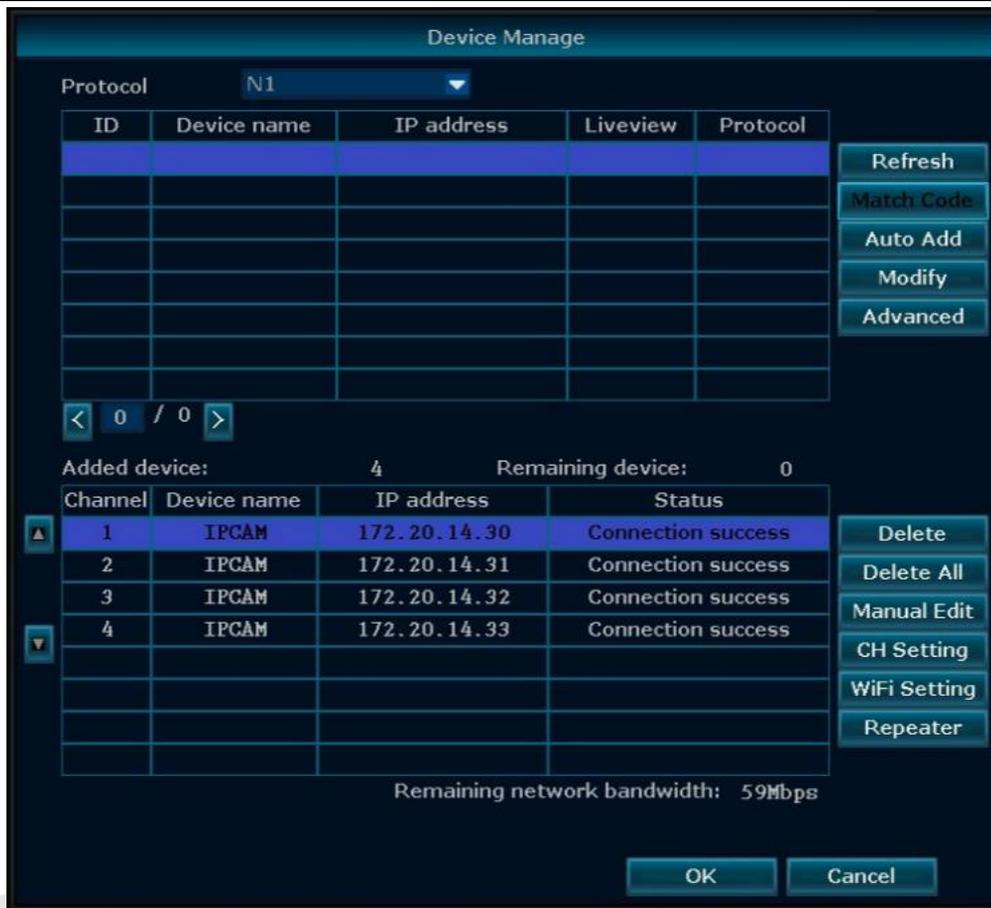
If cameras do not come back automatically after upgrading NVR firmware, or cameras lost connection with NVR but their pairing relationship are still existed, you can go to Device Manage and click Auto Add to find all cameras back easily.

Detailed instructions:

- 1) Right click your NVR mouse to pop out NVR main menu, then click “Device Manage”. You’ll see all cameras show in upper box, with IP address 172.20.14. xx. And all channels are showing No Video Source, as shown in below picture.



- 2) Click “Auto Add”, you’ll then see all cameras are added to NVR channels and all of them are displaying video on monitor.



NOTE: Our latest NVR firmware supports finding cameras back automatically after upgrading firmware. So usually after upgrading NVR firmware, cameras will come back automatically after reboot, no need to do any settings to add them back.

5.4.2 Modify Device

Function: Modify camera information.

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click Device Manage to enter the interface. Select a camera in upper box and click Modify. You'll see below interface.



2) You can set the camera information here. Click OK to save the settings and exit.

5.4.3 Advanced

Function: Supports multiple network segment search, allows for repeated add and intelligent add.

Operation Steps:

1) Right click the mouse to pop out NVR main menu, then click Device Manage – Advanced. You’ll see below interface.



Tips:

- Enable “Multiple Network Segment”, system can search wireless IP cameras that are in different segment as NVR.
- Enable “Repeated Add”, system will allow users to add one camera to multiple channels.
- Enable “Intelligent Add”, system will assign a new valid IP address for the camera if it finds that the camera’s current IP address is abnormal (IP address conflicts or camera’s IP address is not in the same segment as NVR).

5.4.4 Delete Device

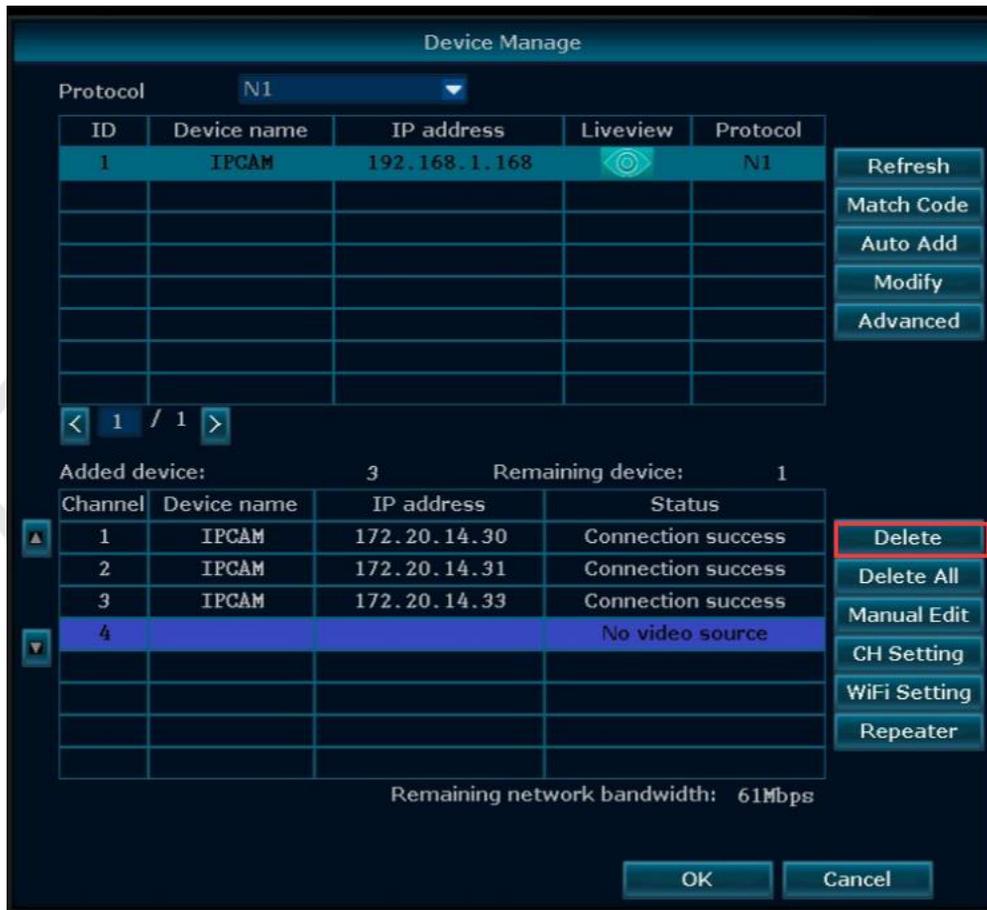
Function: Delete camera from its current NVR channel.

“Delete” allows you to delete one channel at a time.

“Delete All” allows you to delete all channels at once.

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click “Device Manage” to enter device manage interface.
- 2) Select one channel from bottom box and click “Delete”. The camera will be deleted from this channel, and you shall no longer see the camera video on your monitor. This channel will become unoccupied, and show No Video Source under Status.



NOTE:

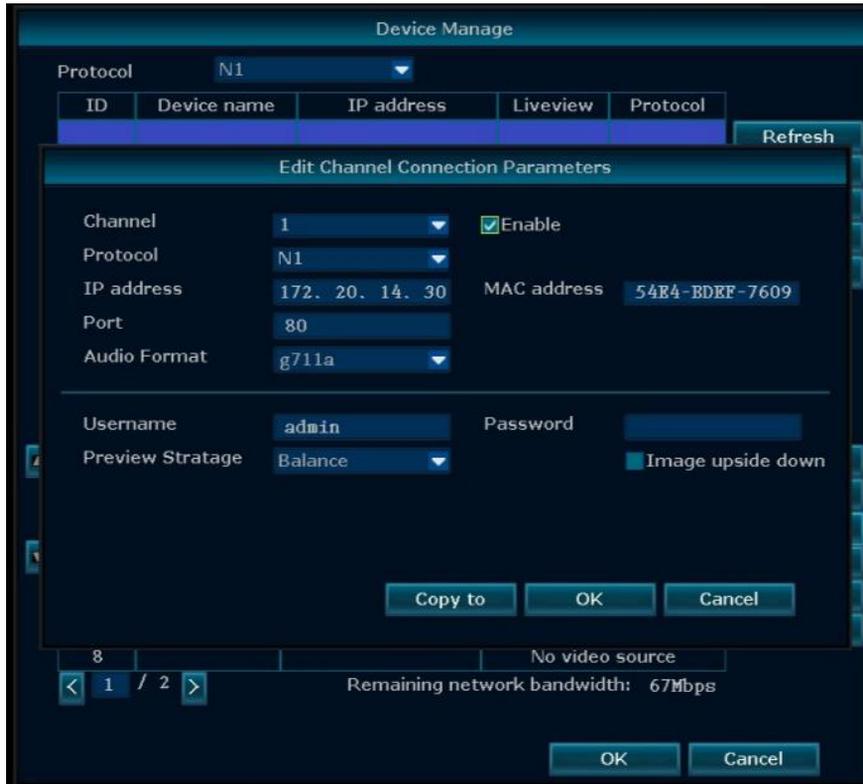
Click “Delete All” button will delete all the IP Cameras that are added to the NVR. We suggest users use this button cautiously, because after deleting all cameras from the NVR, you need to hard wire them to NVR to repair them manually, which is not easy.

5.4.5 Manual Edit

Function: Edit channel information, including protocols, IP address, port number, username, password, and stream type.

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click “Device Manage” to enter device manage interface.
- 2) Select one channel and click “Manual Edit”, you shall then see below Interface. Check Enable, you’ll be able to change the channel information here.



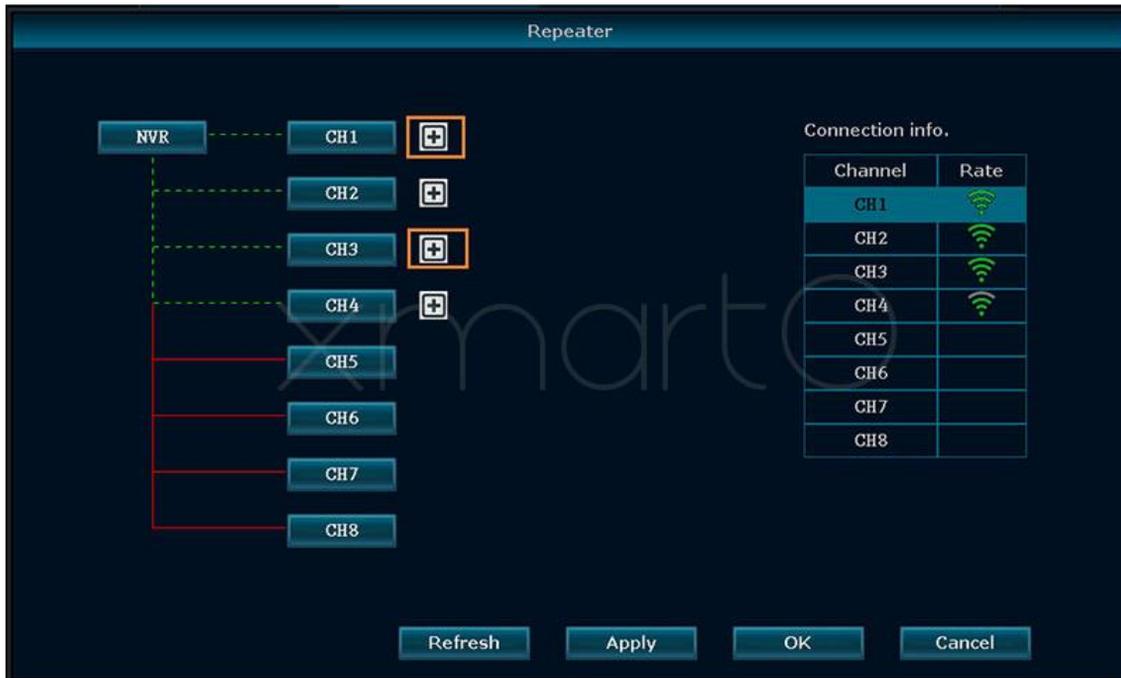
5.4.6 Repeater

Function: Setup Dream Liner feature to boost the wifi signal of xmartO system.

The xmartO Dream Liner technology uses cameras in middle as repeaters. That way, further cameras connect to closer cameras 1st, and then to the NVR as a group. This theoretically doubles/ triples the current WiFi distance.

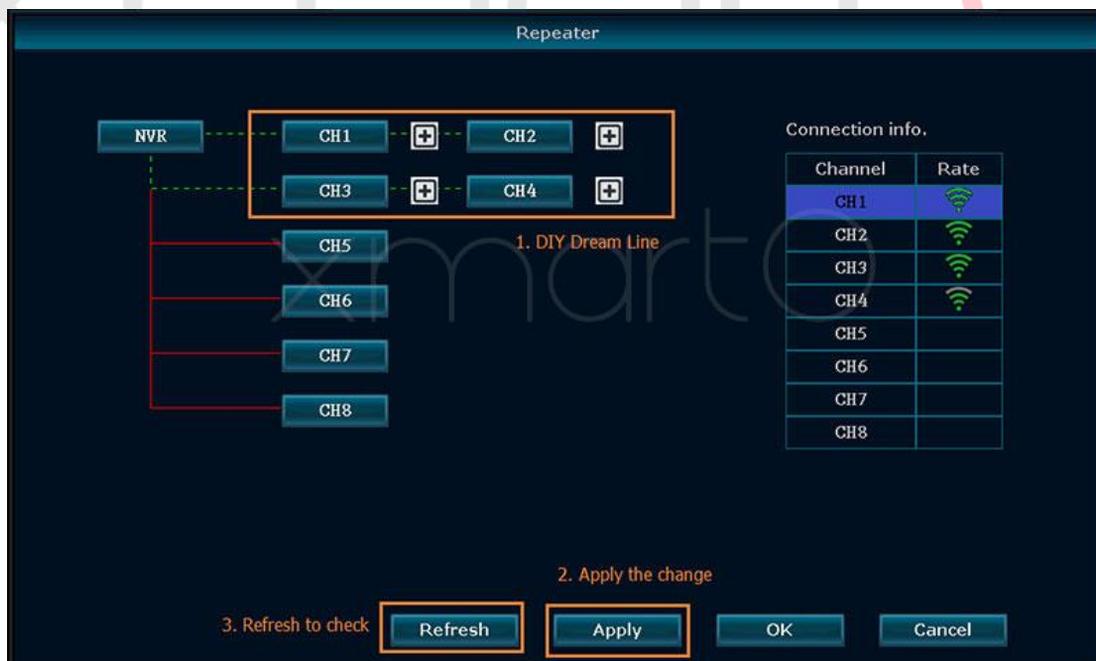
Operation Steps:

- 1) Right click your NVR mouse to pop out NVR main menu, click Device Manage and then click Repeater. You’ll enter the repeater interface to setup Dream Liner.



2) Click “+” behind the channel that you plan to use it as repeater, and add the channel that has weak Wi-Fi signal to this one.

For example, click “+” behind CH1, add CH2 to connect to CH1, CH1 and CH2 will lose connection for some seconds and connect back automatically. Click "Refresh" to check if the Dream Line is successfully built.



NOTE:

- If you have multiple lines to build, try build one each time to avoid system freeze up. If it happens your system freezes up during Dream Line building, wait patiently till it goes back to operable status. If it stays freezing, unplug power and enter the repeater setting page again.
- Cameras and NVR stay connected to constant power.

- NVR needs to stay ONLINE.
- Move cameras to the same room with NVR, or close enough to ensure they receive data and command from NVR constantly. This will ensure you setup repeater successfully.
- In Repeater interface, only channels with green dotted lines are available for repeater setup, channels in red dotted lines are not.
- Dream Liner only works for wireless cameras. Wired cameras can't be used as repeaters.
- Need more information about Dream Liner? Check here: <http://www.xmarto.com/dreamliner>

5.5 Channel Setting (CH Setting)

5.5.1 Encode Setting

Function: Set the IP Camera information, including stream, resolution, rate, frame rate, frame rate interval, H.264 coding grade, etc.

Operation Steps:

1) Right click the mouse to pop out NVR main menu, then click Device Manage – CH Setting, you'll see below interface.



2) Switch the channel, and you can check all channels' information here.

Tips:

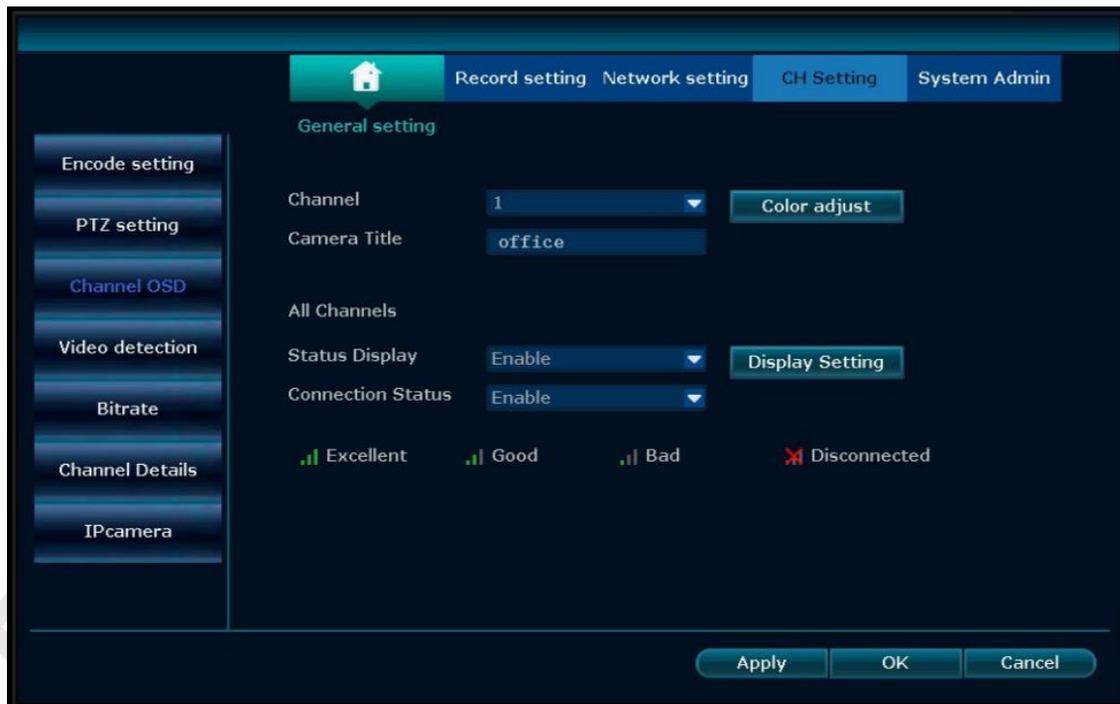
- Users are not allowed to edit the channel information here.

5.5.2 Channel OSD

Function: Adjust the cameras' color, change the cameras' name, enable system status display and cameras' connection status, and where to place status icons.

Operation Steps:

- 1) Right click the mouse, then click System setting – CH Setting – Channel OSD, you'll see below interface.



- 2) Click “Color adjust”, users will be directed to the interface to adjust your cameras' color, including hue, brightness, saturation and contrast.
- 3) Camera title allows users to change the camera name of each channel.
- 4) Enable “Status Display” and “Connection Status”, the system status and cameras' connection status will be displayed on the monitor.
- 5) Display setting allows users to decide where to place the status icons.

Tips:

- When change camera name, please keep in mind that no space and no special symbols are allowed in the name. Keep only one word for the camera name. For example, you can not name the camera as home camera, instead, you need to name it as homecamera or home.

5.5.3 Bitrate

Function: Check the cameras' bitrate information.

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click System setting – CH Setting - Bitrate. You'll see below interface.



5.5.4 Channel Details

Function: Check the cameras' name, resolution, bitrate, frame rate and firmware version.

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click System setting – CH Setting – Channel Details, you'll see below interface.



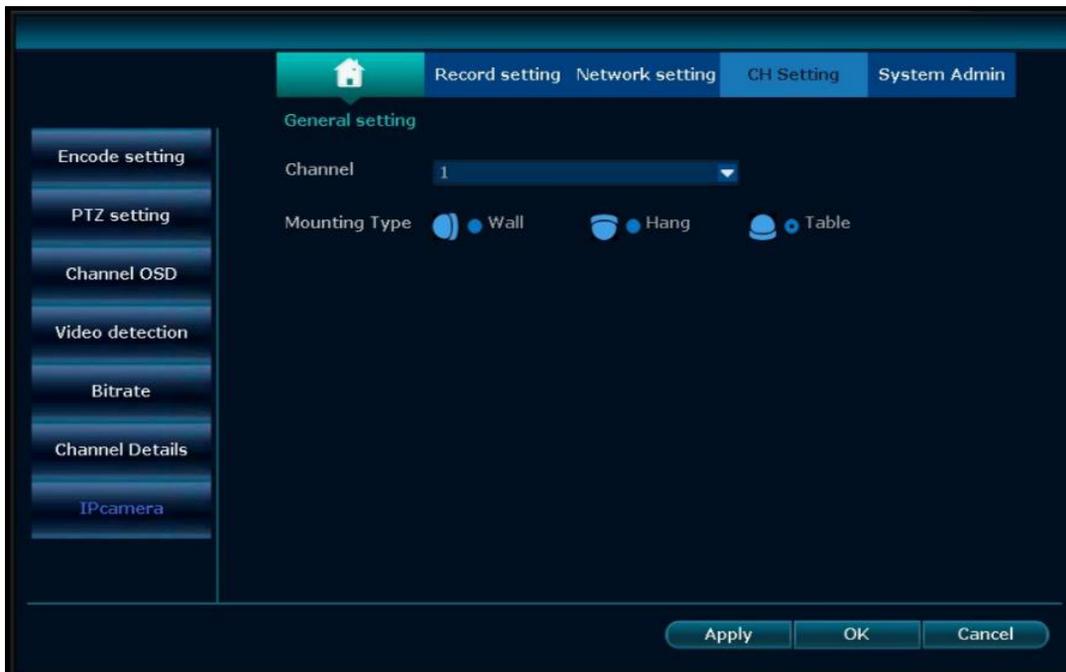
2) Click Refresh, it will search and show all cameras that connected to the NVR.

5.5.5 IP Camera

Function: Set the mounting type for panoramic camera.

Operation Steps:

Right click the mouse to pop out NVR main menu, then click System setting – CH Setting – IP camera, you'll see below interface.



Tips:

- The mounting type option only works for panoramic cameras.
- It supports panoramic cameras that support N1 protocol.

5.6 Network Setting

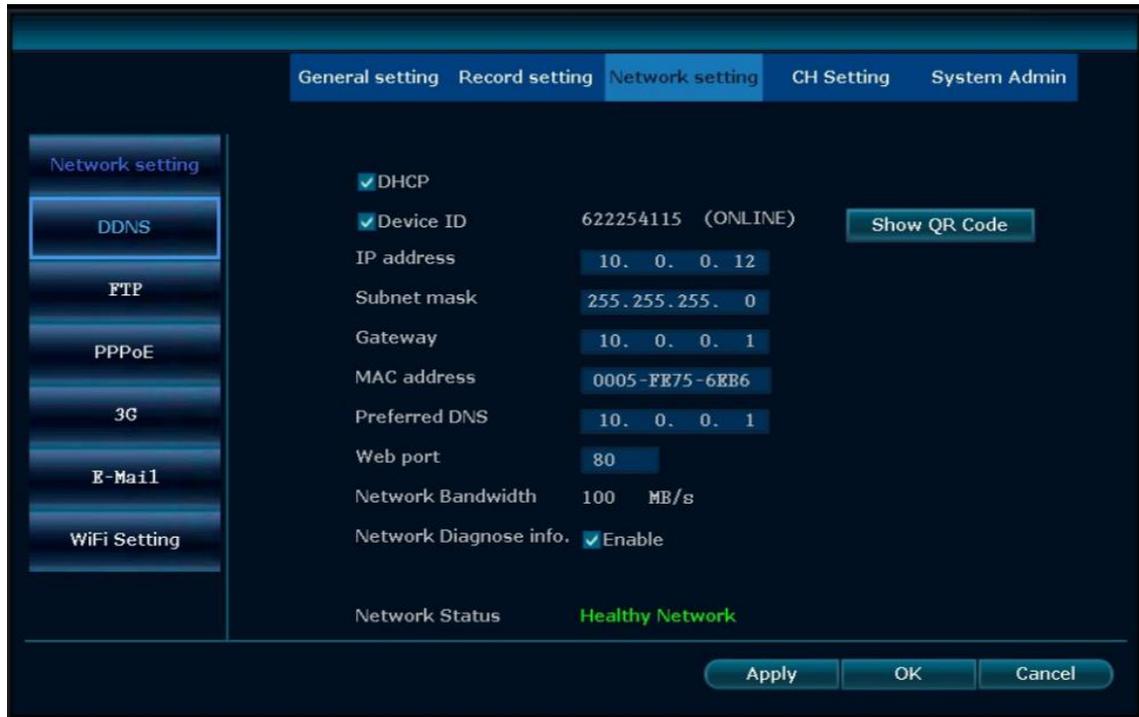
5.6.1 Network Setting

Declaration: To remote access your cameras from computer and smartphone, you need to connect the NVR's WAN port to your router's LAN port with a network cable. After doing this, your NVR will get online. Only when the NVR is online, you can remote access your cameras.

Default NVR IP address: 192.168.1.114

Operation Steps:

- 1) Connect the NVR's WAN port to your router's LAN port with a network cable.
- 2) Right click the mouse to pop out NVR main menu, then click System setting – Network setting, you'll see below interface.



- 3) Check “DHCP”, your NVR will obtain IP address from router directly.
- 4) Click “Apply” to save the settings, and click “OK” to exit.

Tips:

- DHCP is usually checked in default.
- If your NVR is connected to Internet, the “Network Status” will show “Healthy Network”.
- If check DHCP cannot get your NVR online, you can uncheck it and manually set the IP address for NVR to get it online.

Detailed Feature List:

Name	Function Description	Note
IP Address	Set NVR’s IP address, user can set the IP address manually	Uncheck DHCP, user will be able to set IP address for NVR
Subnet Mask	Set the Subnet Mask	
Gateway	Set the Gateway	
MAC Address	Set the MAC Address	Avoid using same MAC Address in LAN
Web Port	Transmit video signal and other control signals, default is 80	Port 80 is used for web, PC client and Mobile
DHCP	Check DHCP, NVR will obtain IP address from NVR automatically	When DHCP is checked, user can not set NVR IP address manually

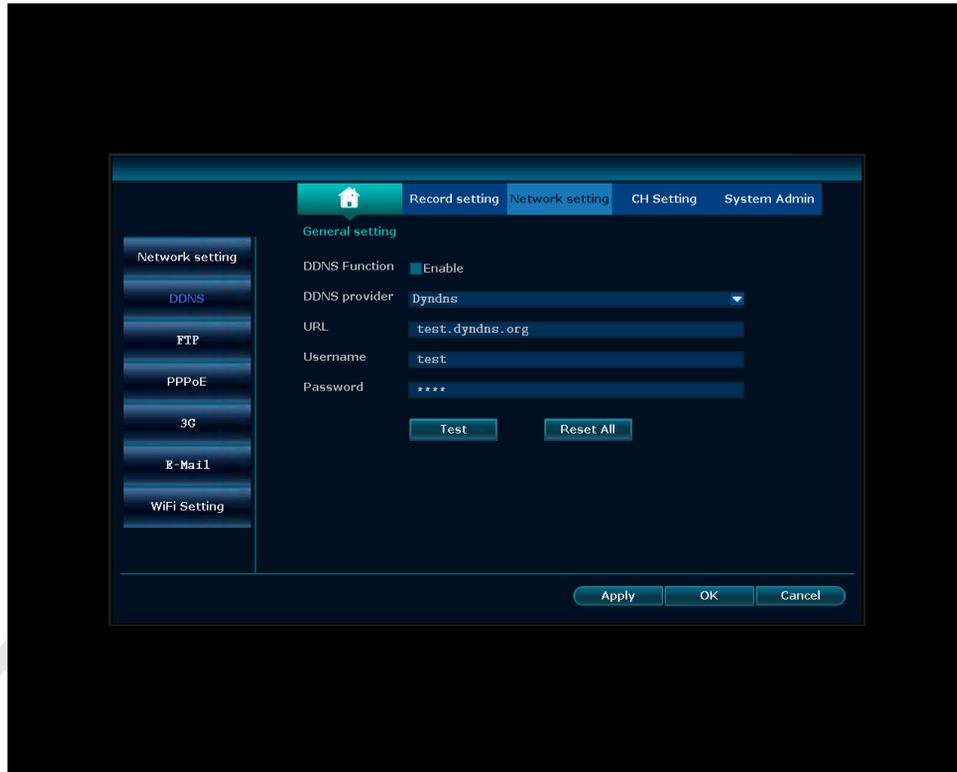
5.6.2 DDNS

Function: If you don’t have a static IP, using DDNS (Dynamic DNS) to access your device via domain name can effectively solve the problem caused by dynamic IP.

Tips: this is only necessary when you are not satisfied with the Cloud Device ID method. DDNS does not rely on Cloud streaming so it may give you smoother remote connection.

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click System setting – Network setting – DDNS, you’ll then see below interface.



- 2) Check “Enable” to enable DDNS function.
- 3) Enter the Domain Name, Username and Password. Click “Test” to test your settings.
- 4) Click “Apply” to save the settings, and click “OK” to exit.

Tips:

- Currently supports domain providers: popdvr, 3322, changeip, no-ip, dyndns. Please apply for your own DDNS from these providers before you use it.
- Domain Name information cannot be edited if “Enable” is unchecked.

5.6.3 E-Mail

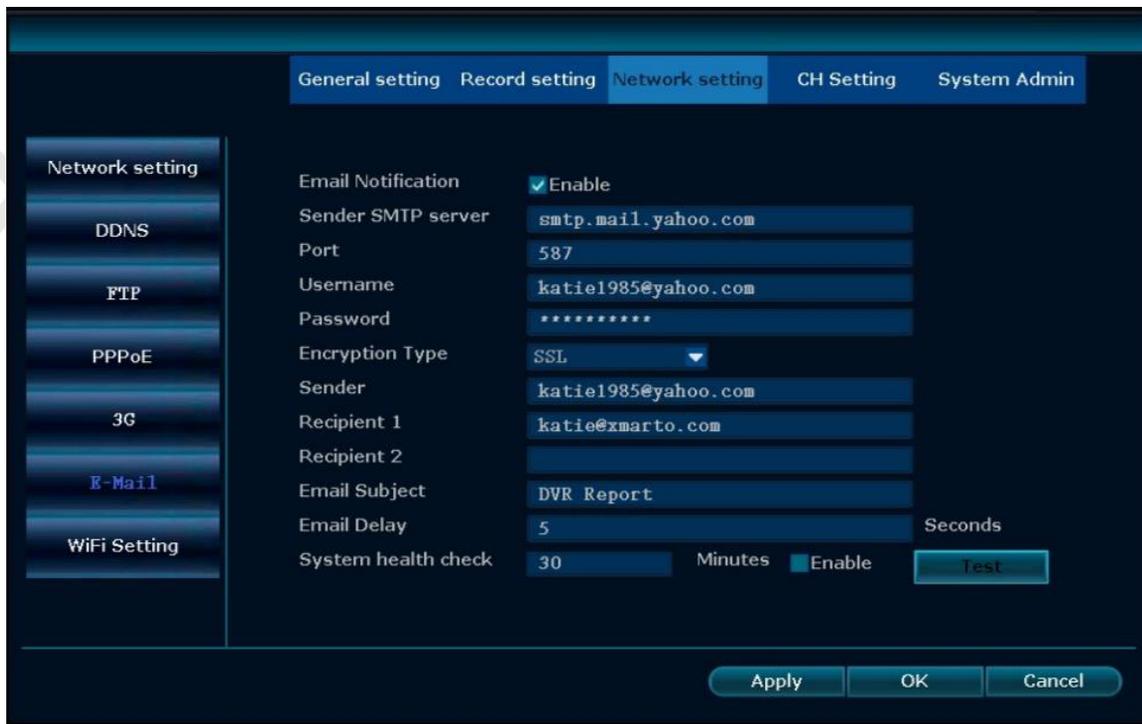
Function: Set up motion detection email alerts.

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click System setting – Network setting – E-Mail, you’ll see below interface.



- 2) Check “Enable” to enable the email notification function.
- 3) Enter the information of SMTP Server, Port, Username, Password, Sender, Recipient, etc., as shown in below screenshot.



- 4) Click “Test” to see if it is set successfully, if yes, click “Apply” to save settings, and click “OK” to exit.

Detailed Feature List:

Function Name	Function Description
SMTP Server	The SMTP server of your sender email account, correct format: smtp.mail.yahoo.com
Port	The port number of the SMTP server
User Name	Username of your sender email account

Password	Password of your sender email account
Encryption Type	Leave it blank in default, if failed on test, then change to SSL
Sender	Full email address of sender email account
Recipient	Full email address of receiver email account, you can set up to two recipients
Delay	The time delay on receiving email alerts
Health Message Interval	The frequency of receiving email in normal running/operation

Tips:

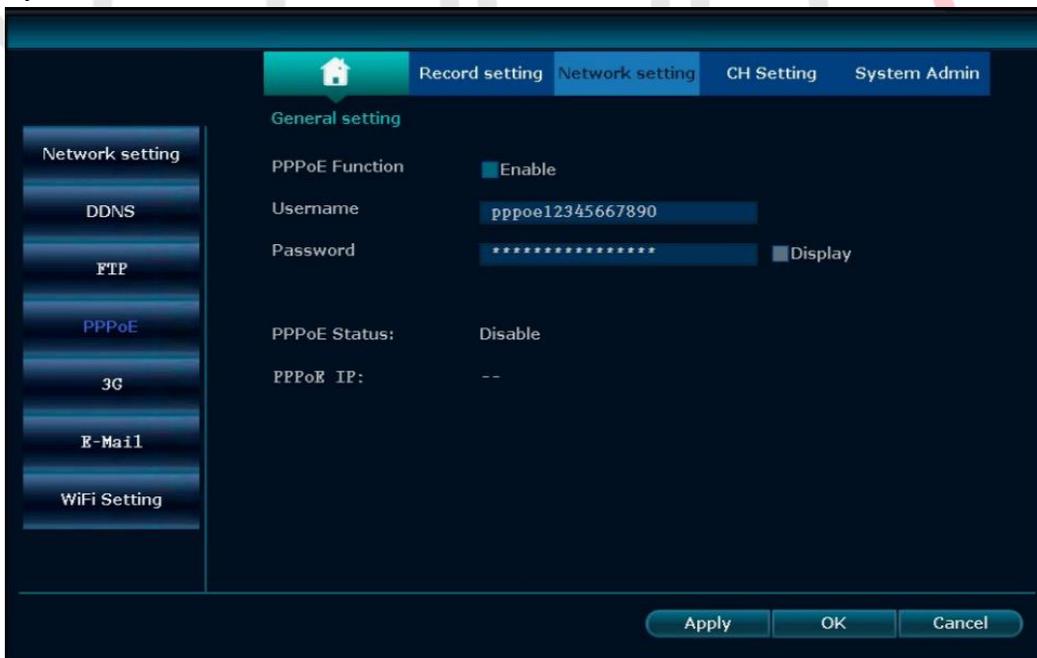
- To receive email alerts, you need to check “E-Mail Notification” under Video Detection also.
- Health Message Interval only takes effect when you check “Enable”.
- If failed to pass the test email, please assure that you’ve enabled SMTP service for your email account.
- Please refer to <http://www.xmarto.com/helpcenter/?/article/2> for a more detailed email setup guide.

5.6.4 PPPoE

Function: Supports access internet via dial-up

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click System setting – Network setting – PPPoE, you’ll see below interface.



- 2) Check “Enable”, enter the Username and Password provided by ISP.
- 3) Click “Apply” to save the settings, and click “OK” to exit.

Tips:

- PPPoE Function: for enable PPPoE, allowing access internet via dail-up; for disable PPPoE

5.6.5 3G

Function: This is to enable users who don't have Internet service to use USB data stick to connect the NVR to Internet.

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click System setting – Network setting – 3G, you'll see below interface.



- 2) Check “Enable” to enable 3G Module.
- 3) Enter the information of Dial-Number, APN, PIN, Username, Password, etc.
- 4) Click “Apply” to save settings, and click “OK” to exit.

5.6.6 WiFi Setting

Function: This enables users to change settings of the NVR's Wi-Fi hotspot and password; and some other router related settings.

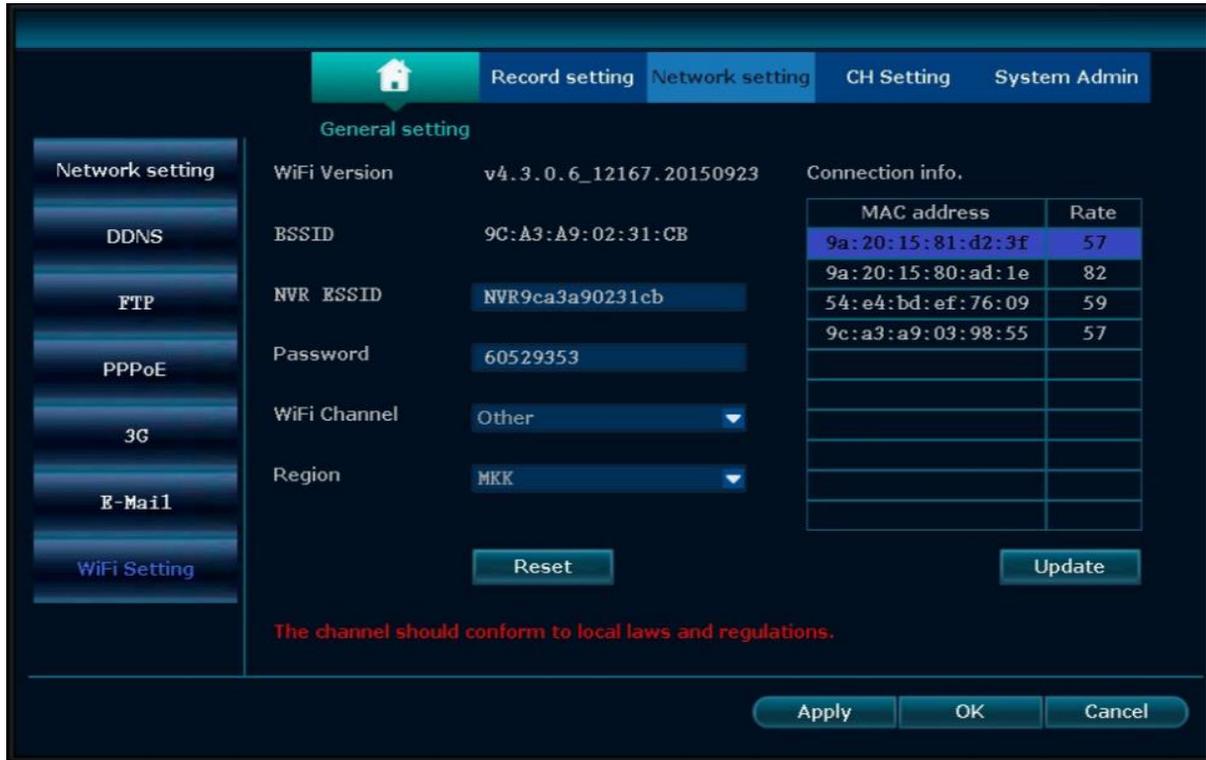
ESSID: The default Wi-Fi hotspot name of the NVR.

Password: The default password of the Wi-Fi hotspot; auto generated by the system.

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click System setting – Network setting –

WiFi setting, you'll see below interface.



Tips:

- Change the hotspot name or the password will cause losing connection with cameras; please restore to factory settings if you lose camera connections; or follow 4.3.2 to add cameras to the NVR.
- If you plan to install two systems in the same room, you can try to change the WiFi channel to avoid interference.
- On right of WiFi setting interface, the rate indicates cameras' connection strength. If rate is above 30, it's considered to be good connection, while if rate is under 25, it's considered to be weak connection.

5.6.7 PTZ Setting

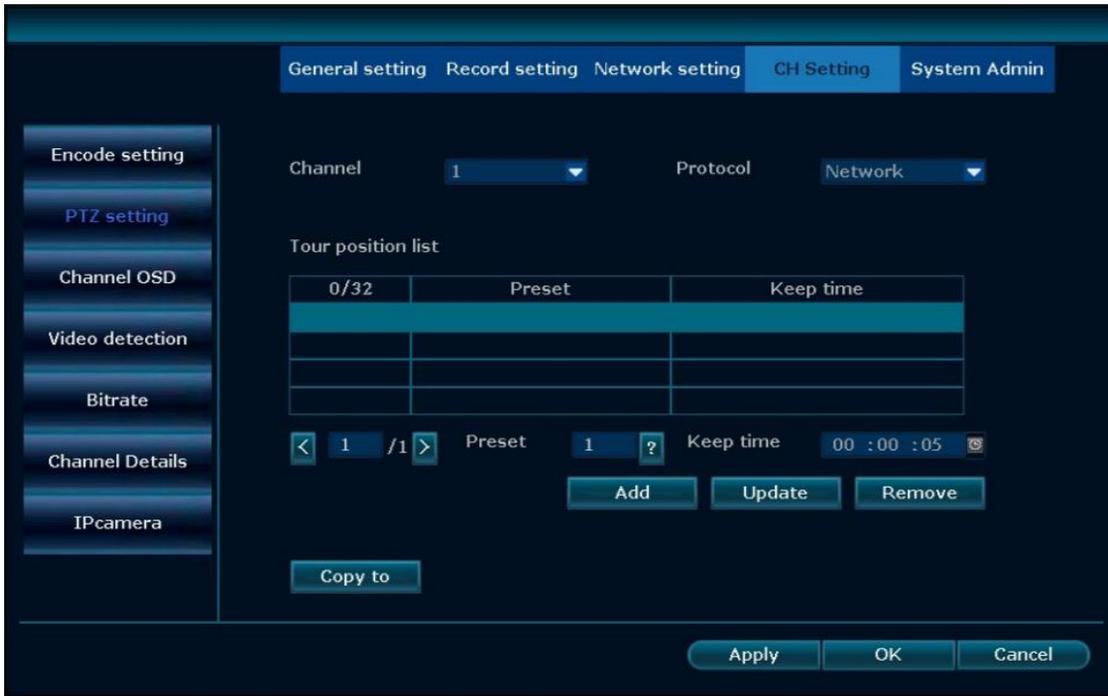
5.6.7.1 PTZ Parameter Setting

Prerequisites:

Before trying to control the speed dome or PTZ, you need to make sure that the decoder of this PTZ has already connected to NVR, and you need to set the parameters for the PTZ in NVR.

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click System setting – CH Setting – PTZ setting, you'll see below interface, as shown in below image.



Operation Guide as below:

Operation Target	Function Description
Channel	Choose the channel you want to set PTZ
Protocol	Choose the correct protocol of this PTZ
Device Address	Enter the specified decoder address
Baud Rate	Choose the right baud rate to match with this PTZ's baud rate
Copy to	Choose the channel you want to copy the settings and click "Copy to" to apply current channel's settings to other channels

5.6.7.2 PTZ Control Operations

Operation Steps:

- 1) Double click the channel you want to set in main preview screen.
- 2) Right click mouse in that channel's preview interface and choose the PTZ control, you'll then see below image, as shown in below image.

Operation Explanation:

: Control the PTZ to rotate upward

: Control the PTZ to rotate downward

: Control the PTZ to rotate leftward

: Control the PTZ to rotate rightward

: Control the PTZ to rotate 360 degrees automatically

+: Adjust Zoom+, Focus+, Iris+.

-: Adjust Zoom-, Focus-, Iris-.



5.6.7.3 PTZ Auto Cruise Setup

Operation Steps:

- 1) Right click the mouse to pop out NVR main menu, then click System setting – CH Setting – PTZ setting.
- 2) Click “?” at the right of “Preset” to enter the control interface to set presets.
- 3) Choose presets and set rotation direction.
- 4) Right click mouse to back to the setup interface, set the “Keep time”.
- 5) Click “Add” to finish setting this preset.
- 6) Repeat above 2-5 steps to add other presets.
- 7) Setup complete, check “Tour Start” to modify the rotation speed accordingly, as shown in image 40.
- 8) Right click mouse to back to setup interface, click “Apply” to save settings.

Tips:

- Presets are the tour spots, the PTZ tour from small to large spots automatically.
- Keep time is the time length that the PTZ will stay at a preset.
- Speed is the rotation speed that the PTZ tour from one preset to another preset.

5.7 Record Setting

5.7.1 Manual Record

Function: Manual recording allows users to turn on/off recording easily and quickly.

Operation Steps:

- 1) Right click the NVR mouse to pop out NVR main menu, choose “Manual record”.

- 2) Select the channels you want to record.
- 3) If you want all the channels to record, then check “All” or click “All ON”.
- 4) If you want to disable manual record for all channels, click “All OFF”.
- 5) Click “OK” to finish the manual record setup. As shown in below image.



Tips:

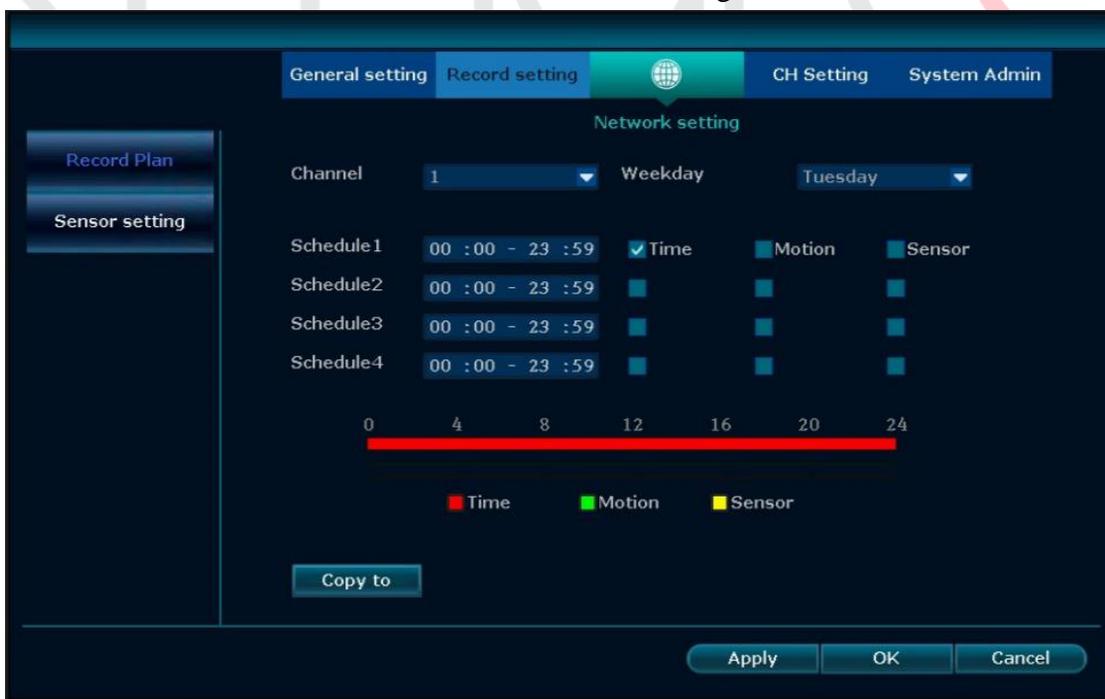
- Recording Priority: Alarm Recording > Motion Detection Recording > Manual Recording > Time Scheduled Recording

5.7.2 Time-scheduled Recording

Function: Time scheduled recording enables the NVR to record 24/7 continuously or record in specified time periods only.

Operation Steps:

- 1) Right click mouse to pop out NVR main menu, then click System setting – Record setting – Record Plan. You’ll see below interface, as shown in below image.

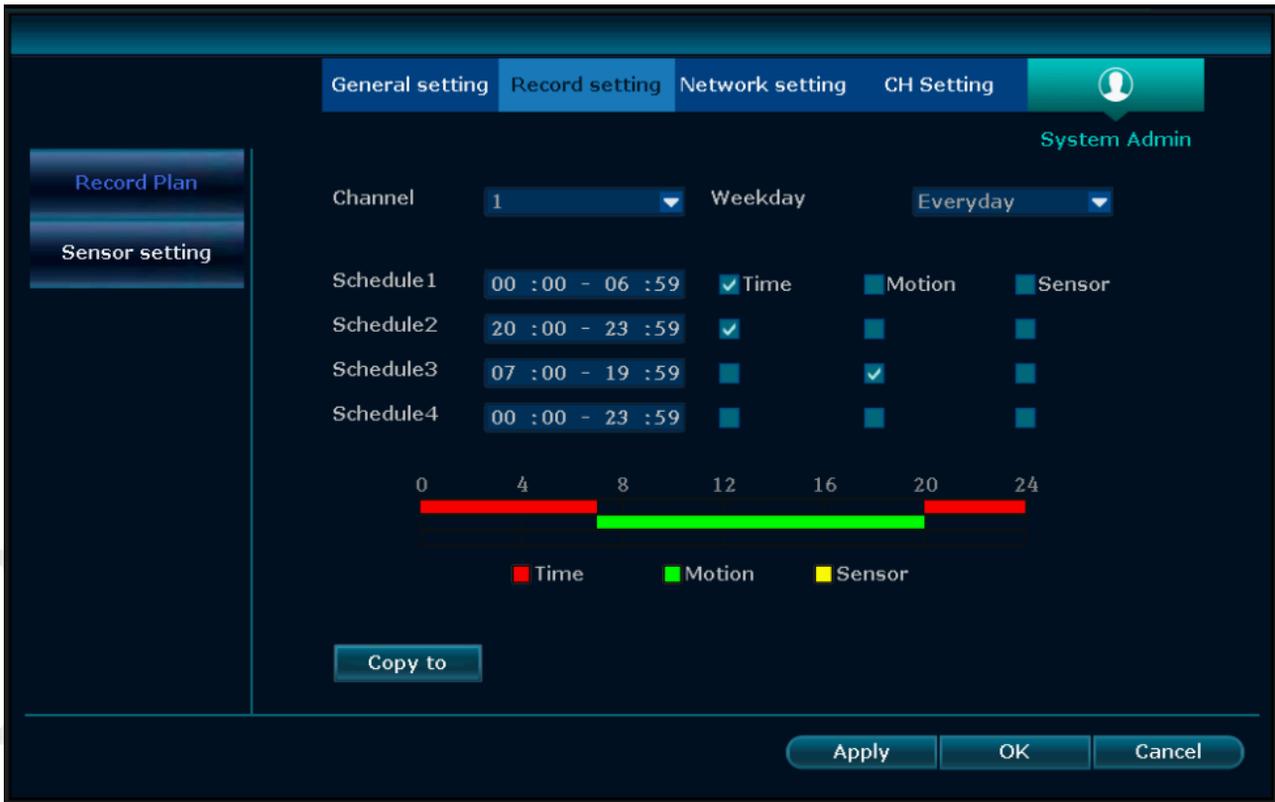


- 2) Choose the Channel and set Weekday from drop-down list.
- 3) Schedule the times period, and check “Time”. You can set 4 times periods for each channel.
- 4) Click “Copy to” if you want to apply the settings to other channel or all channels.

5) Click “Apply” to save the settings and click “OK” to exit.

Tips:

- You can set up to 4 times periods for each channel per your specific recording needs.
- If you want the NVR to record 24 hours continuously, then you only need to set 1 time period, from 0:00 - 23:59, and keep the other schedules blank.
- Different time periods will show in different color for easy differentiation.
- You can combine the various recording modes on each channel. As shown in below image.

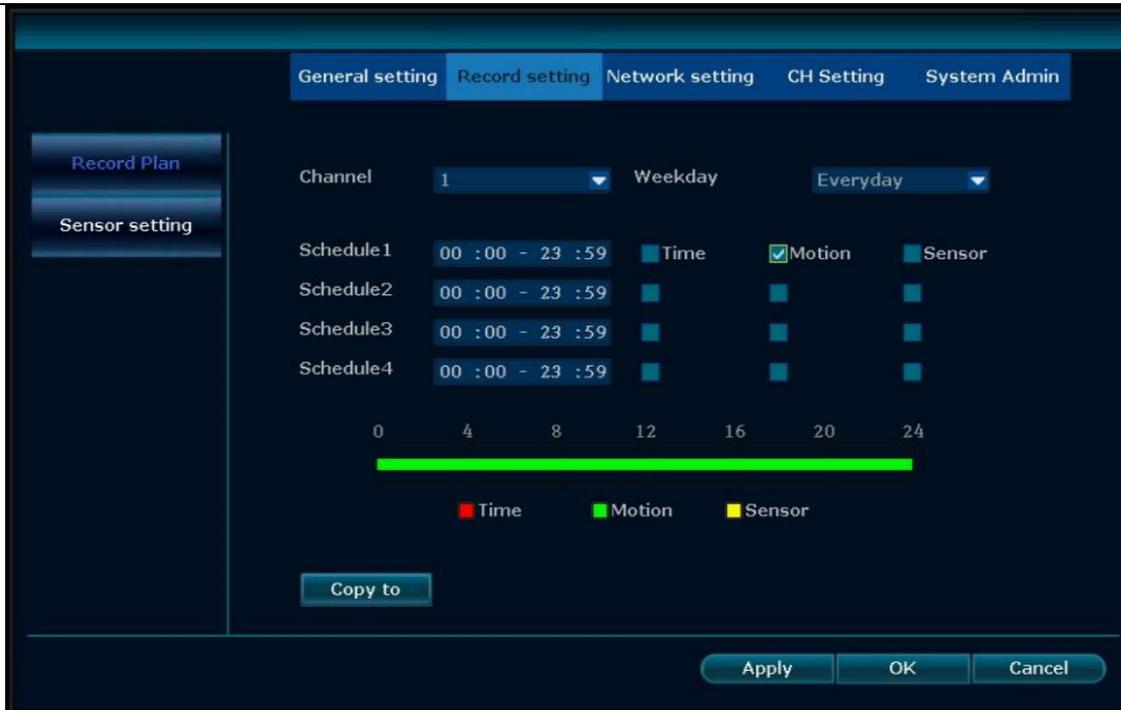


5.7.3 Motion Detection Recording

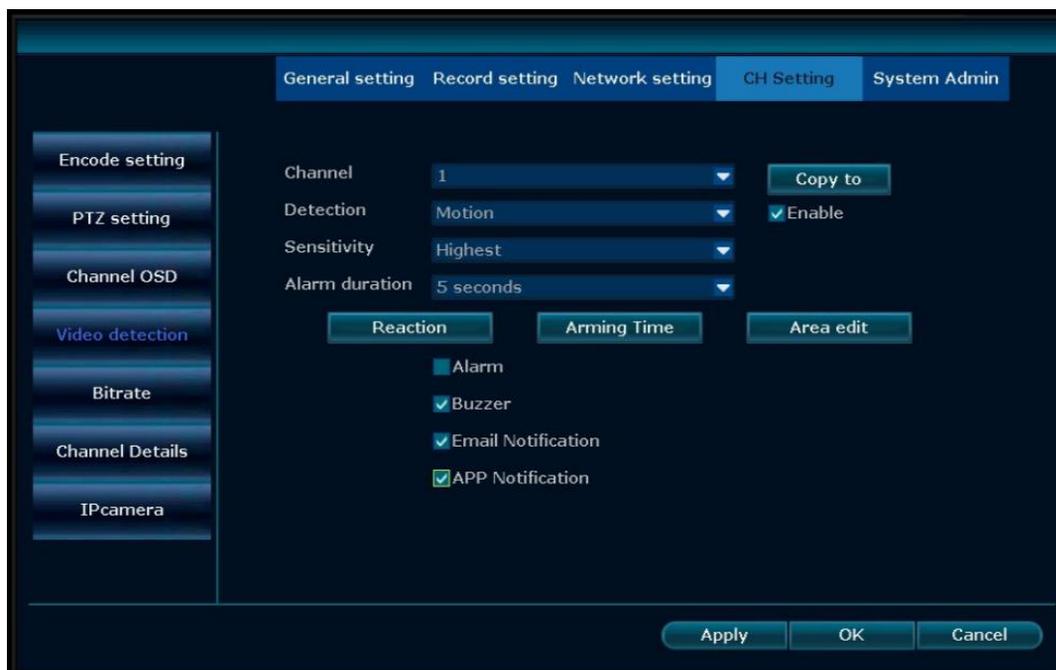
Function: Motion detection recording enables NVR to record only when motion or movement is detected.

Operation Steps:

- 1) Right click mouse on monitor to pop out NVR main menu, then click System setting – Record setting – Record Plan. You’ll see below interface, as shown in below image.
- 2) Set the Channel and Weekday from drop-down menu.
- 3) Keep the default schedule 1 time period and check “Motion”.



- 4) Set the motion area and sensitivity, detailed operation steps as below:
- a. Go to System setting – CH Setting – Video Detection, you’ll see below interface, as shown in below image.
 - b. Select the channel you want to set as motion detection recording from the “Channel” drop-down menu.
 - c. Choose “Motion” under “Detection”, and set the motion sensitivity.
 - d. Choose the motion alerts type from Alarm, Buzzer, Email Notification, APP Notification.
 - e. Click “Area Edit” to set up the motion detection area.
 - f. Click “Apply” to save settings and click “OK” to exit.



Tips:

- If you want to set motion detection recording for other channels, repeat above steps, or click

“Copy to All”.

- There are four motion alarm types:

Alarm: Check Alarm, you’ll see the prompt error message on monitor when motion is detected.

Buzzer: Check Buzzer, the NVR will buzz when motion is detected.

Email Notification: Check Email Notification, you’ll receive email alerts with snapshots when motion is detected.

APP Notification: Check APP Notification, you’ll receive mobile push notifications when motion is detected.

- For more information about “Area Edit” setting, check here:

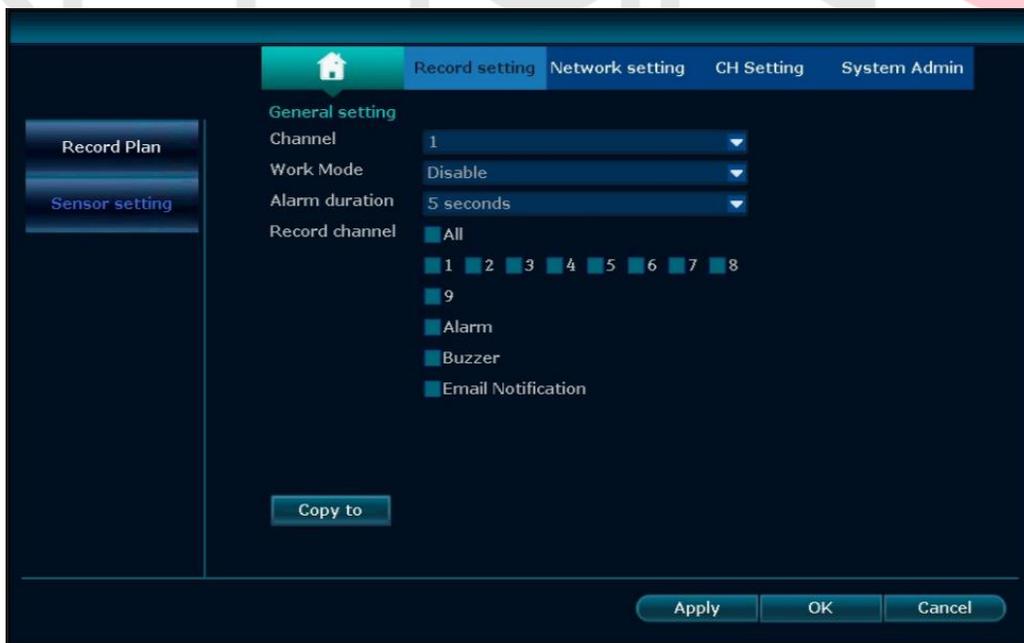
<http://www.xmarto.com/helpcenter/?/article/5>

5.7.4 Alarm-triggered Recording (Sensor Recording)

Function: Alarm-triggered recording allows the NVR to start recording when any alarm/sensor input is detected. It works only when NVR is connected with external alarms and sensors.

Operation Steps:

- 1) Right click mouse to pop out NVR main menu, then click System setting – Record setting – Record Plan.
- 2) Set the Channel and Weekday from drop-down menu. Keep the default schedule 1 time period and check “Sensor”.
- 3) Go to “Sensor setup”, as shown in below image, select the channel you want to set as Alarm-triggered Recording from “Channel” drop-down menu, set work Mode as “Enable”.



- 4) Select the “Record channel”.
- 5) Click “OK” to save the settings and click “OK” to exit.

Tips:

- Repeat above steps to set other channels to be Alarm-triggered Recording.
- If other channels' Alarm-triggered Recording settings are the same to this channel, click "Copy to All" to apply current channel's settings to all channels.

5.8 Video Playback

5.8.1 Fast Playback

Function Description: Fast playback allows users to playback recent recorded videos quickly.

Operation Steps:

- 1) Right click your NVR mouse to pop out NVR main menu, then click Video Playback.
- 2) Choose to playback videos of past 5 minutes, 10 minutes or 30 minutes. Fast playback allows you to playback videos of one channel each time.



Tips:

- Before playback, please make sure that you've installed a hard drive in the NVR, and you've formatted the hard drive.
HDD information can be found at: System setting – General setting – HDD setting

5.8.2 Manual Playback

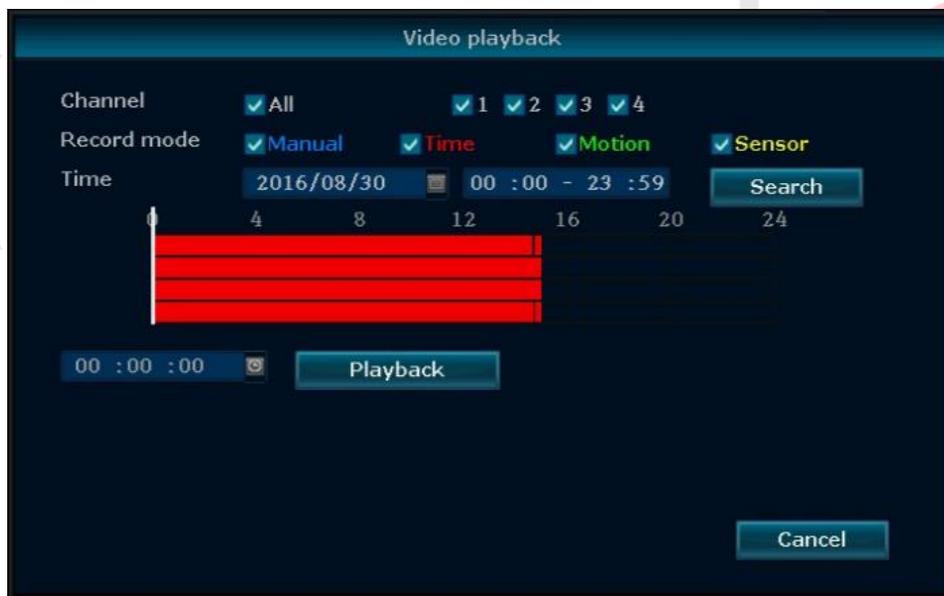
Function: Manual playback allows you to playback videos based on your search conditions.

Operation Steps:

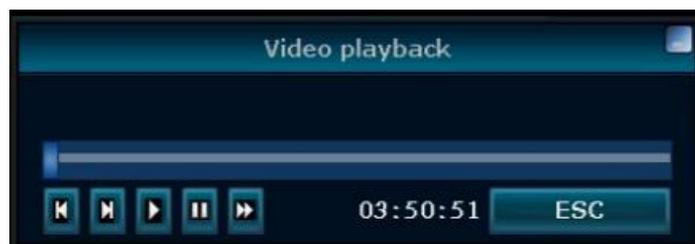
- 1) Right click your NVR mouse to pop out NVR main menu, then click Video Playback – Search, you'll see below interface, as shown in below image.



- 2) Select the Channel and Record mode.
- 3) Set the “Search time” and click “Search”.
- 4) Wait for about 30 seconds and you will see a video list based on your search conditions.



- 5) Click on time bar to choose a time and click “Playback” to start playing back videos. Playback progress bar as shown in below image.



Video Playback Operation Steps

Button	Function	Button	Function	Button	Function	Button	Function	Button	Function
	Hold		Stop		Fast Forward		Last Frame		Next Frame

Tips:

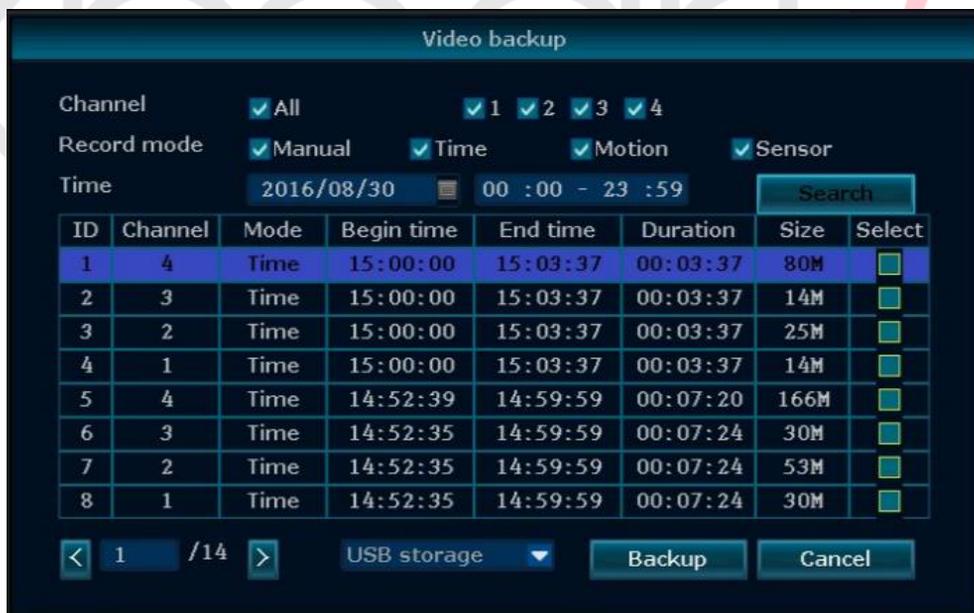
- Playback can be controlled through the playback progress bar.
- Supports 2x/ 4x/ 8x/ 16x /32x speed playback.
- You can playback videos of 4 channels simultaneously.

5.9 Video Backup

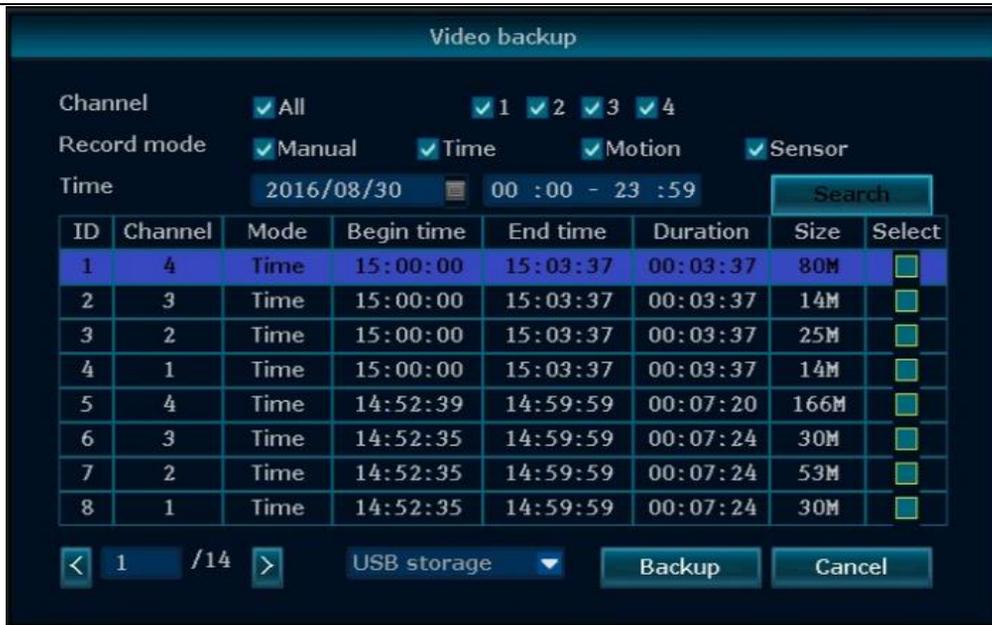
Function: Backup the videos stored in hard drive to USB flash disk.

Operation Steps:

1. Plug the USB flash disk to NVR's USB port.
2. Right click mouse to pop out NVR main menu, then click Video Backup, you'll see below interface, as shown in below image.



3. Select the Channel and Record mode.
4. Set the Time and click Search.
5. Wait for about 30 seconds and you'll see a video list based on your search conditions.
6. Select the videos you want to backup, choose "USB Storage", and click "Backup", as shown in below image.



Tips:

- In video search results list, users can see the Channel, Mode, Begin time, End time, Duration and Size of the video.
- To ensure successful backup of the videos, please make sure that the USB flash disk have enough storage space, and is formatted to Fat32 format.

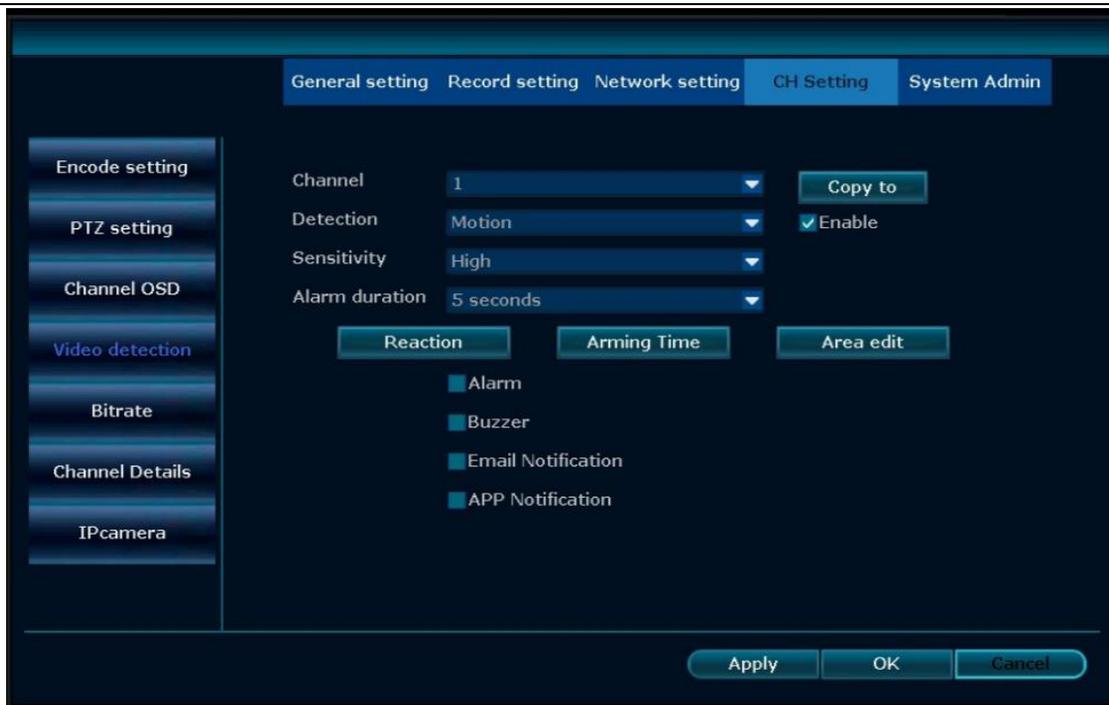
5.10 Alarm

5.10.1 Motion Detection Alarm

Function: When system detects motion detection in the selected area, it will trigger alarm and send alerts.

Operation Steps:

1. Right click your mouse to pop out NVR main menu, then click System setting – CH Setting – Video Detection, you’ll see below interface, as shown in below image.



3. Set the Sensitivity of motion detection.
4. Detection is set to be “Motion”, choose the Alarm duration time and select the alarm type.
5. Set the stream type, detailed operation steps as below:
 - 1) Choose “System setup” - “Channel Setup” - “Video Manage” - “Edit Channel”.
 - 2) Choose “Video Alarm” in the drop-down menu of stream type.
 - 3) Click “Save” to save settings.
6. Click “Apply” to save settings.
7. Area edit allows users to exclude certain areas such as a frequently moving tree.

Tips:

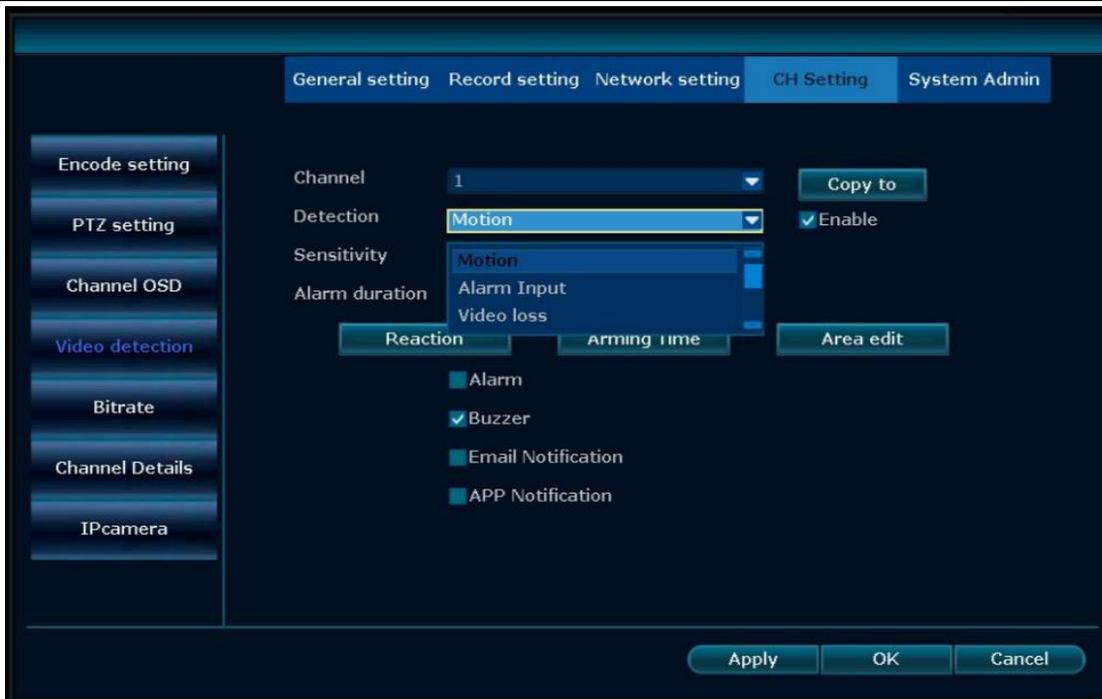
- There are five grades of sensitivity: Highest, Higher, Moderate, Lower, Lowest. The higher the sensitivity, the easier the moving object be detected.
- There are four types of motion detection alarm: Alarm, Buzzer, E-Mail Notice, FTP Upload.
- If choose Alarm as motion detection type, then you’ll need to go to “Record Setup” - “Sensor Setup” to set the operation mode as “Normally Open”.
- If you set certain areas to be excluded from the detection areas, but still get alarm (such as buzzer), it could be triggered by other channels. (channel 2, channel 3, channel 4...)

5.10.2 Video Loss Alarm

Function Description: Enable video loss alarm will allow users to get alarms when some of the channels lost video.

Operation Steps:

1. Right click your mouse, to pop out NVR main menu, then click System setting – CH Setting – Video Detection.
2. Choose “Video Loss” for Detection from drop-down box, as shown in below image.



3. Set the Alarm duration time and select alarm type.
4. Click “Apply” to save settings.

Tips:

- Click “Copy to” to copy settings of current channel to other channel or all channels.

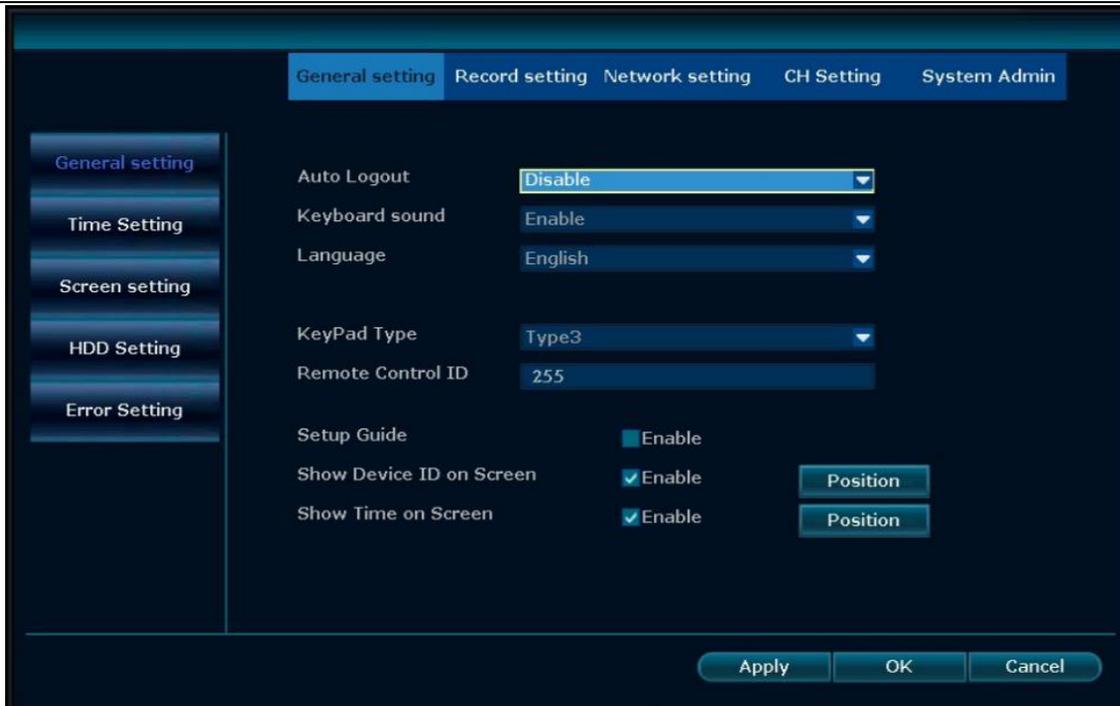
5.11 General setting

5.11.1 General setting

Function: Basic settings and parameters.

Operation Steps:

1. Right click your mouse to pop out NVR main menu, then click System setting – General setting, you’ll see below interface, as shown in below image.



Detailed Operation Explanations:

Operation Object	Explanation
Auto Logout	Enable/disable the auto logout of system
Keyboard Sound	Enable/disable the keyboard sound
Language	Change the system language
KeyPad Type	Choose the Keyboard type
Remote Control ID	Enable/disable remote control of the system with IR Remote Controller
Setup Guide	Enable/disable Setup Guide of your system
Show Device ID on Screen	Enable to display your NVR’s Device ID on screen, Position allows you to change the place of where to display the Device ID.
Show Time on Screen	Enable to display your NVR’s time on screen, Position allows you to change the place of where to display the NVR time

5.11.2 Time Setting

Function: Set Time Zone, System Date and System Time.

Operation Steps: Right click the mouse to pop out NVR main menu, then click System setting - General setting - Time setting. You’ll see below interface, as shown in below image.

Time Zone: Set your local time zone from drop-down list.

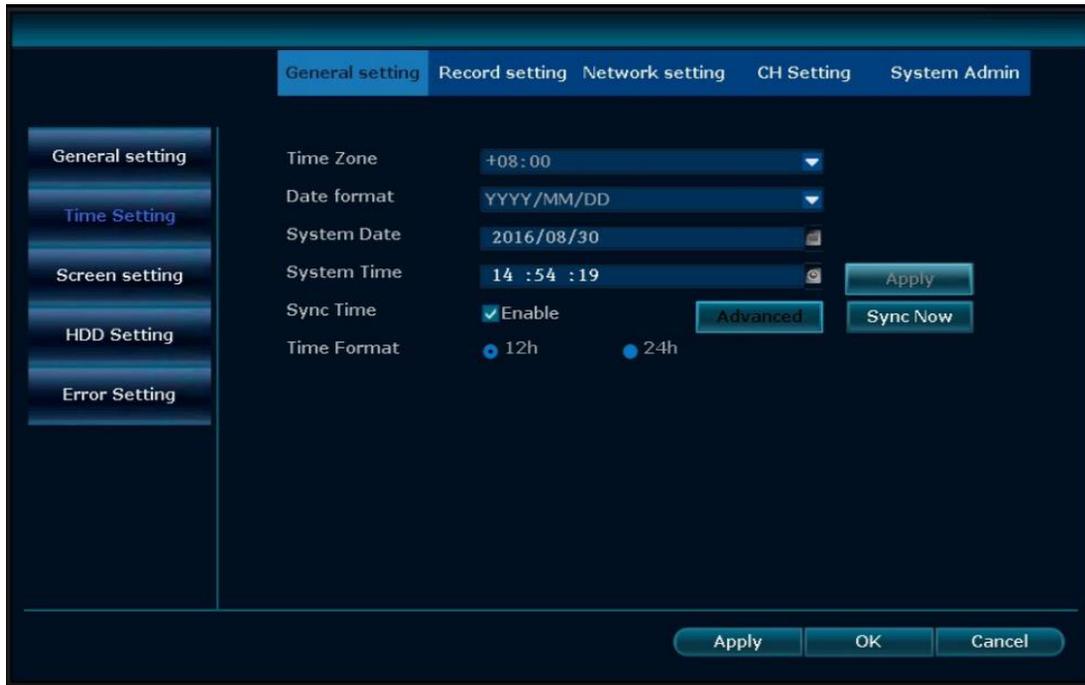
Date format: Choose your system’s date display format.

System Date: Set your system’s date.

System Time: Set your system’s time.

Sync Time: Check “Enable”, system will synchronize with your local date and time; uncheck “Enable”, you’ll be able to edit the system date and time manually.

Time Format: Set your system's time display format.



5.11.3 Screen setting

Function: Set the screen parameters.

Operation Steps: Right click the mouse to pop out NVR main menu, then click System setting – General setting – Screen setting. You'll see below interface, as shown in below image.



Operation Instructions:

Title	Description
OSD Transparency	Set the transparency of your system OSD
VGA resolution	Change the NVR resolution to match with different screens
Auto Switch	Enable to turn on auto switch of channels

Tips:

- Skip video loss means system will skip channels that do not display videos during auto switch.
- Choose x1 view or x4 view to set how many channels be displayed at a time during auto switch, 1 means display only one channel at a time, and 4 means display 4 channels at a time.
- VGA resolution should match with your screen resolution. Default NVR resolution is 1280 x 1024.

If your NVR outputs different resolution that your screen takes, you may not get display on the screen. If in this case, please connect the NVR to a higher or lower resolution screen and set it to the correct resolution and then connect back to your primary screen.

5.11.4 HDD Setting

Function: Allows users to check hard drive information and format hard drive.

Operation Steps:

1. Right click the mouse to pop out NVR main menu, then click System setting – General setting – HDD setting, you’ll see below interface, as shown in below image.



2. Check hard drive information here, including Model, Capacity, Used Storage, HD Status, and Format Status.
3. Check “Overwrite” to enable auto overwrite when hard drive is full.
4. Select the hard drive and click “Format” to format the hard drive if needed.
5. Select “Customize” in drop-down menu and set the days (auto delete files of how many days before) if you want to enable auto delete old files.
6. Click “Apply” to save the settings.

Tips:

- Enable auto overwrite means hard drive will automatically overwrite earliest video files when it is full.
- When click “Format”, system will pop up a dialog box, reading “All data files will be deleted after formatting, click OK to confirm”, click “OK” to start formatting.
- Auto delete old files: Select “Customize” and set the days (auto delete files of how many days before) with a digital keyboard, you can set up to 255 days. Select “Disable” to disable this function.

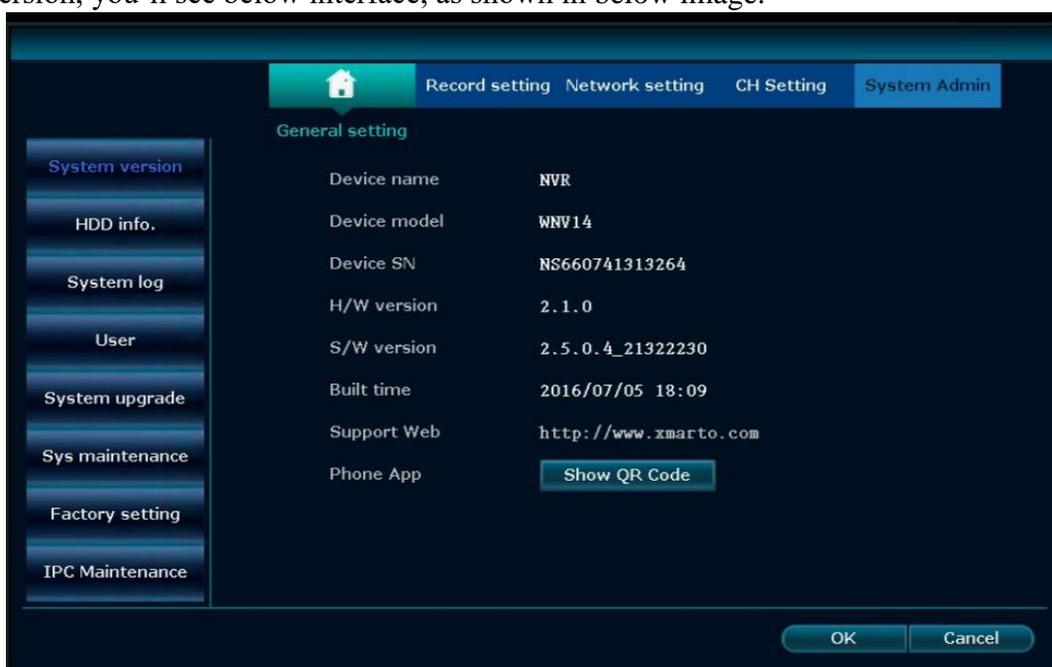
5.12 System Admin

5.12.1 System Version

Function: Allow users to check the device’s information, including Device name, Device model, Device SN, H/W version, S/W version, Built time, Wireless Module and Support Web.

Operation Steps:

Right click the mouse to pop out NVR main menu, then click System setting – System Admin – System version, you’ll see below interface, as shown in below image.



Tips:

- System version is very important for future maintenance; customers might be required to provide the device's version information when maintenance is needed.

5.12.2 HDD Info.

Function: Allow users to check the hard drive's information, including Model, Capacity, Used Storage and Status.

Operation Steps:

Right click your mouse to pop out NVR main menu, then click System setting – System Admin – HDD info., you'll see below interface, as shown in below image.

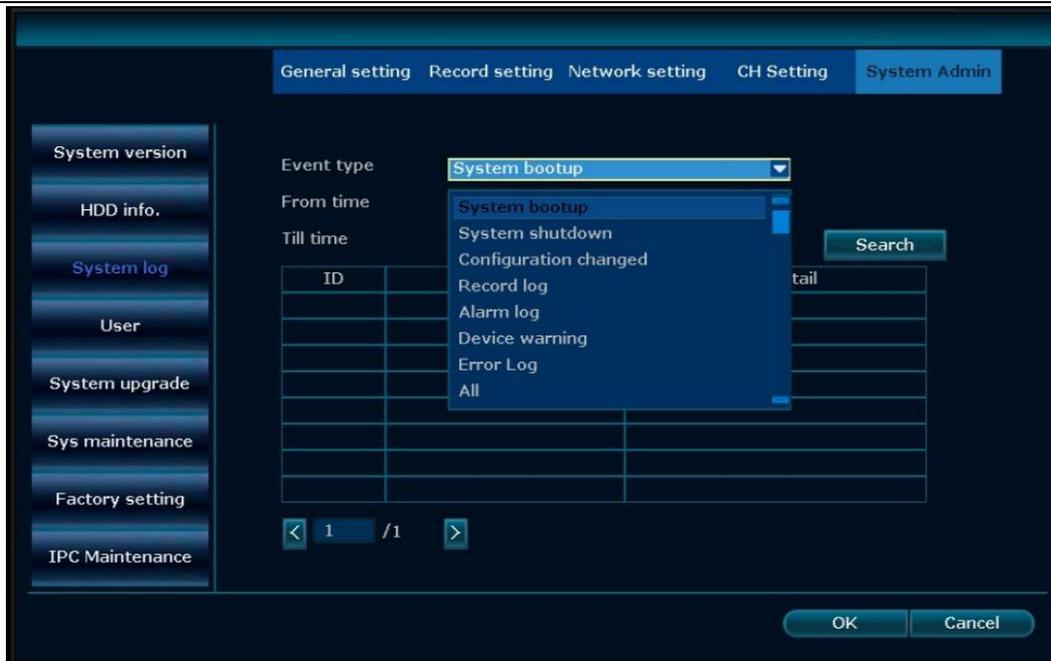


5.12.3 System Log

Function: Allow users to search and check the log records of the system.

Operation Steps:

1. Right click your mouse to pop out NVR main menu, then click System setting – System Admin – System log, you'll see below interface, as shown in below image.
2. Select the event type from drop-down box. Set the time range, and click search.
3. Log information will be displayed in below box based on your search conditions.



Tips:

- Click left and right arrow to read previous and next page’s log information.
- Log information are saved in the hard drive, formatting hard drive will delete all log information.
- Event type can be set as: System bootup, System shutdown, Configuration is changed, Record log, Alarm log, Device warning and All.

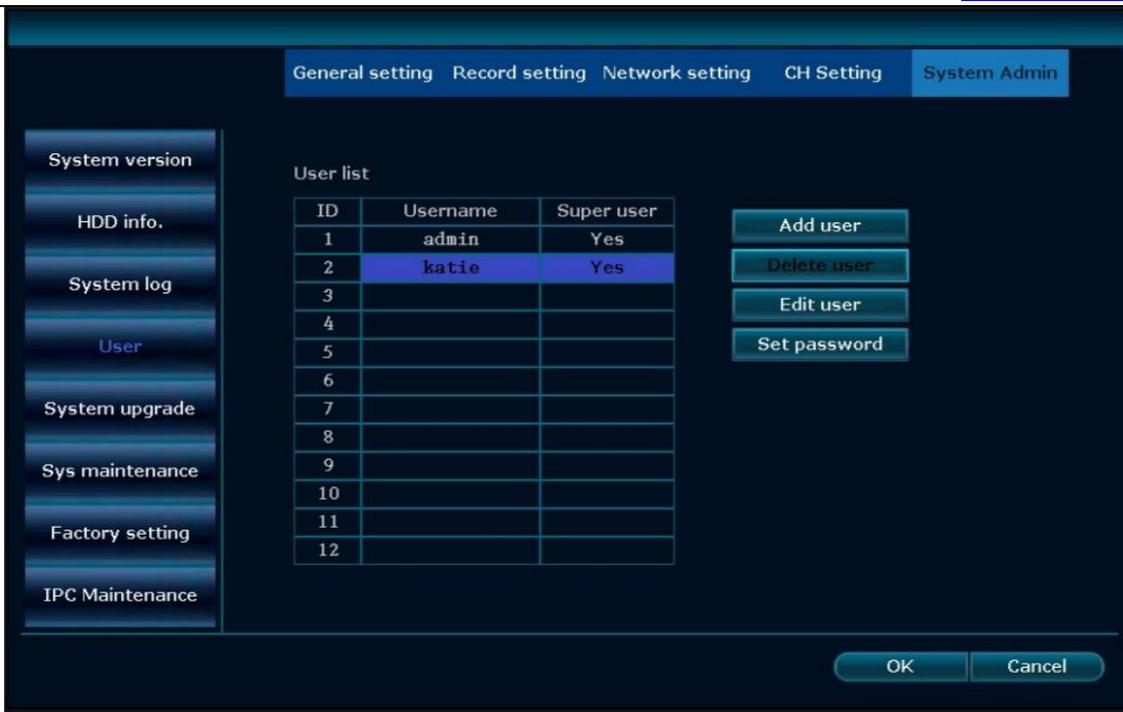
5.12.4 User

Function: Allow users to add, delete and edit username and password.

Operation Steps: Right click your mouse to pop out NVR main menu, then click System setting – System Admin – User, you’ll see below interface, as shown in below image.

Tips:

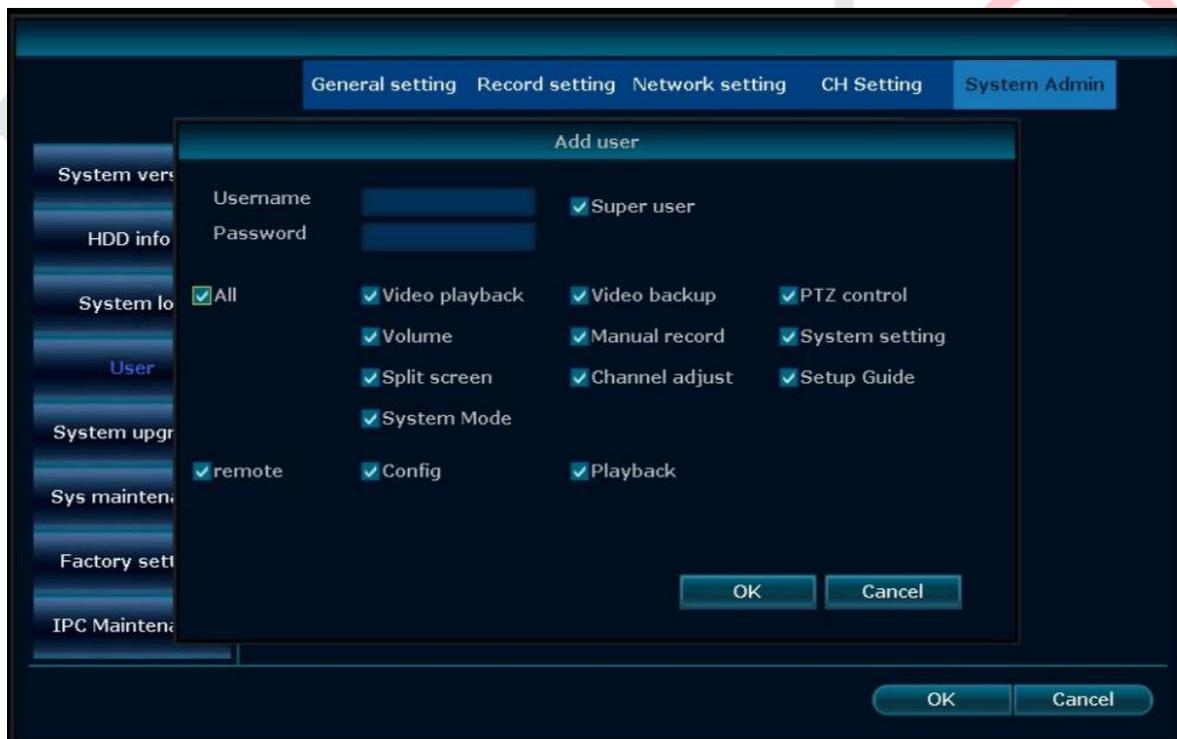
- The default username is admin; default password is empty, means no password.
- Administrator can add, delete and edit users and their permissions.



Add User

Operation Steps:

1. Go to User interface, click Add user. You'll see below interface, as shown in below image.



2. Input the new user's Username and Password. Check Super user if you want this user to have all permissions.
3. Select the permissions you'd like to authorize to this user. Administrator has all permissions in default.
4. Click "OK" to save settings, you can see newly added user in the user list.

Permission Explanation:

Video playback: Able to search and playback videos stored in the hard drive.

Video backup: Able to back up the videos stored in the hard drive via USB flash disk.

PTZ control: Control the PTZ movement and cruise.

Volume: Control the audio output volume.

Manual record: Enable manual record anytime.

System setting: Including normal setting, record setting, network setting, channel setting and system management.

Split Screen: Auto switch of single view and quad-view.

Channel Adjust: Adjust the image brightness, color tone, saturation and contrast.

Setup Guide: Guide the user to make basic settings at starting up.

System Mode: Set system mode.

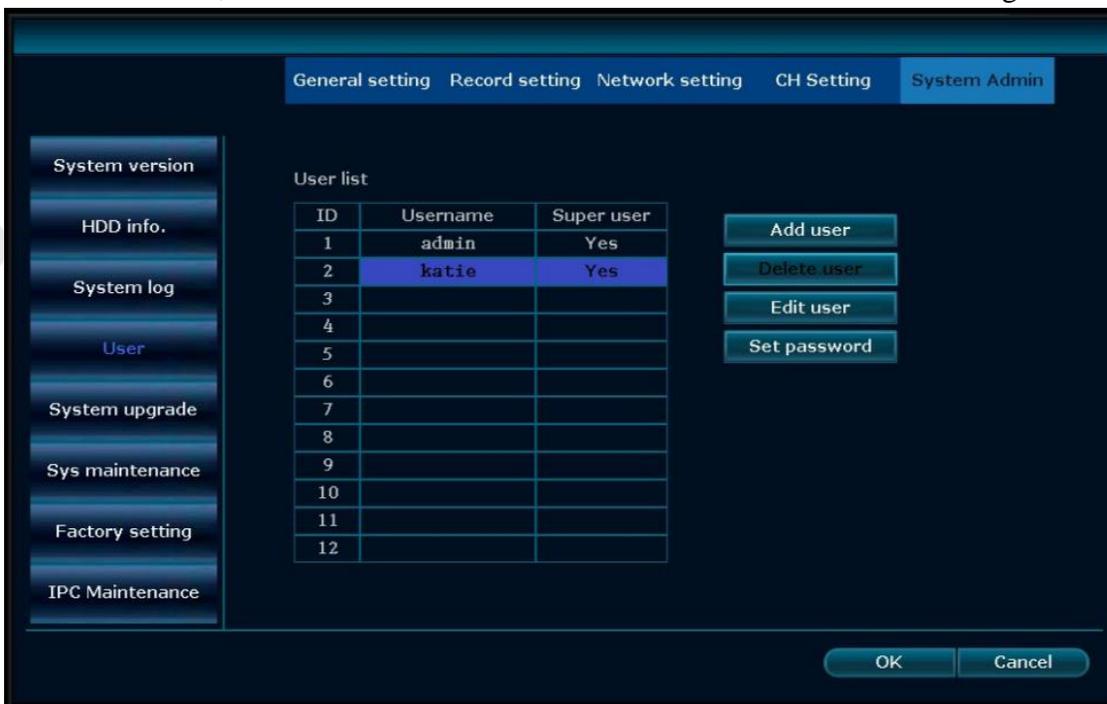
Remote configuration: Configure device's parameters when remote access.

Remote playback: Remote playback the recorded videos.

Delete User

Operation Steps:

1. Go to User interface, select the user and click Delete user. As shown in below image.



2. Click "OK" to confirm deleting this user. User will be deleted, and you cannot use this user to log in the NVR any more.

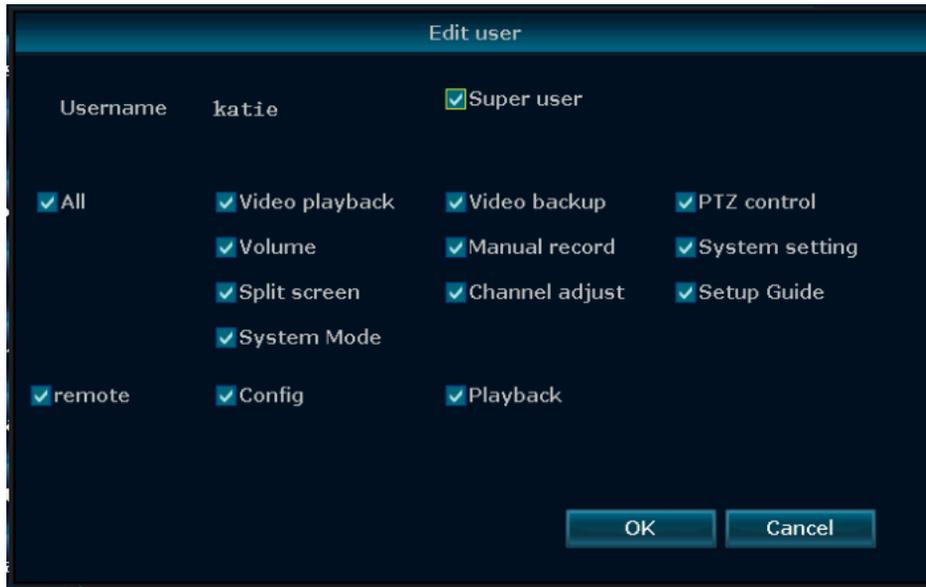
Tips:

- Administrator cannot be deleted.

Edit User

Operation Steps:

1. Go to User interface, select a user and click Edit user. You'll see below interface, as shown in below image.



- 2. Change this user's permissions.
- 3. Click "OK" to save the settings.

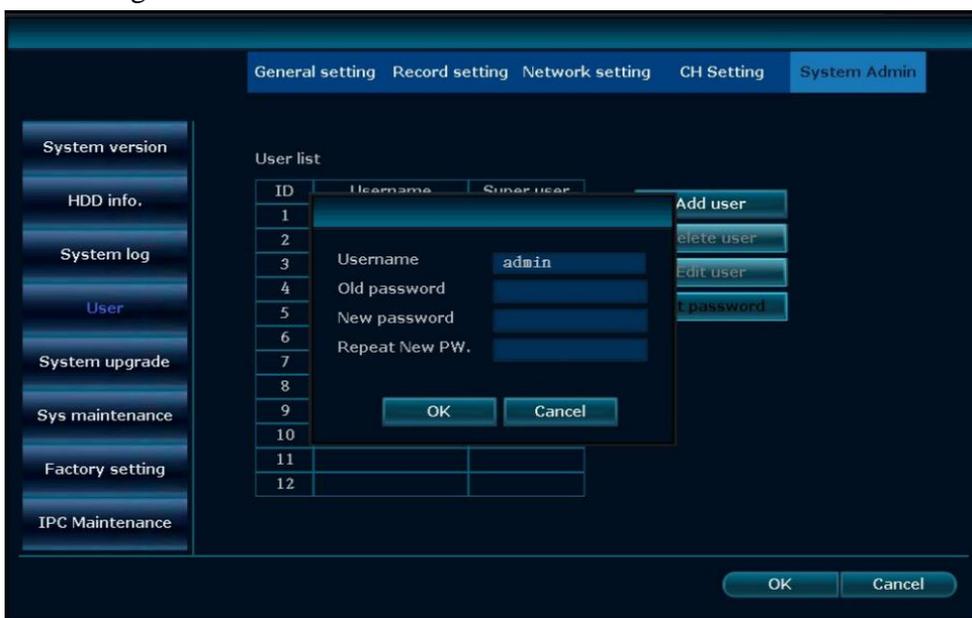
Tips:

- Administrator cannot be edited.

Set Password

Operation Steps:

1. Go to User interface, select admin username and click Set Password. You'll see below interface, as shown in below image.



2. Enter your old password and set your new password. Default password is empty, if you haven't

changed it, leave the old password blank, and set the new password directly.

3. Click “OK” to save the settings.

Tips:

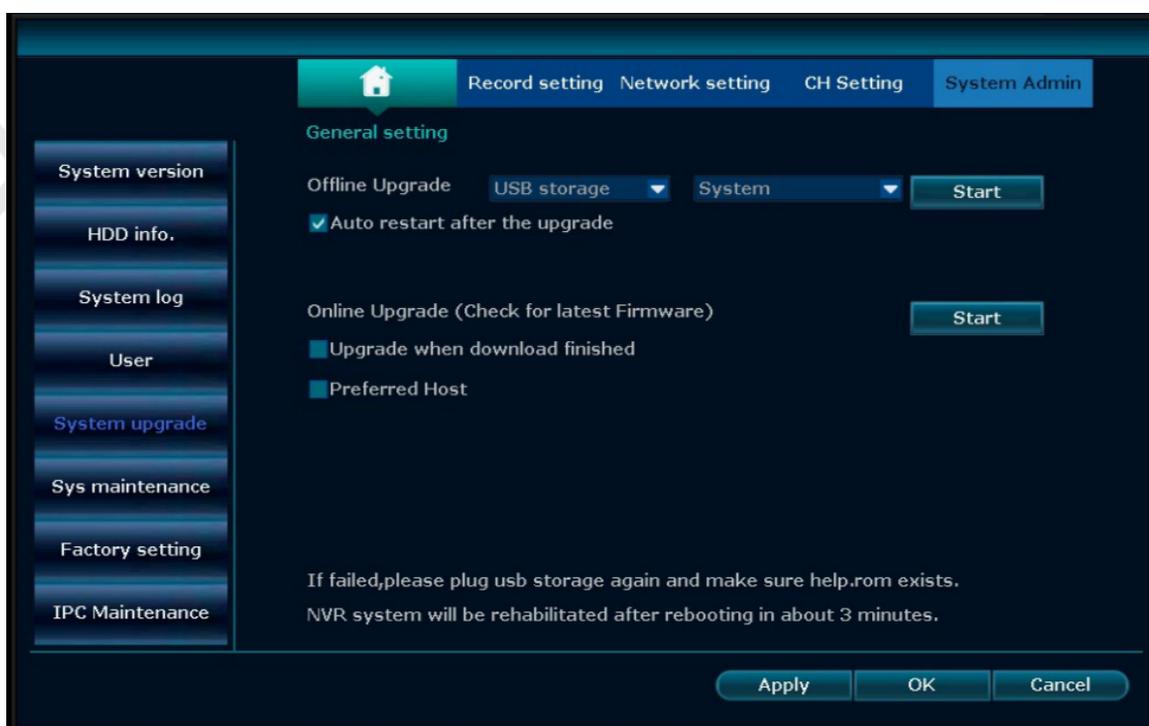
- Administrator’s default password is empty, means no password, leave it blank.
- Regular users can only change their own password; they cannot create, delete and edit users.

5.12.5 System Upgrade

Function: Allows users to upgrade system firmware version.

Operation Steps:

1. Right click your mouse, then click System setting – System Admin – System upgrade, you’ll see below interface, as shown in below image.
2. Download NVR firmware, copy the .rom firmware file to an USB flash disk’s root directory, not in any folder. Plug the USB disk to NVR’s USB port.
3. Choose Offline Upgrade, USB storage and System. Click Start.



3. You can see the system upgrade progress in the progress bar, waiting for the system to finish upgrading and it will reboot automatically when finish.

4. After upgrading NVR firmware, please go to Device Manage interface and click Auto Add. It will help you find all cameras back.

Tips:

- Please use an USB thumb disk to upgrade firmware, USB drive may not be recognized by the

NVR. And the USB thumb disk needs to be formatted to Fat32 format.

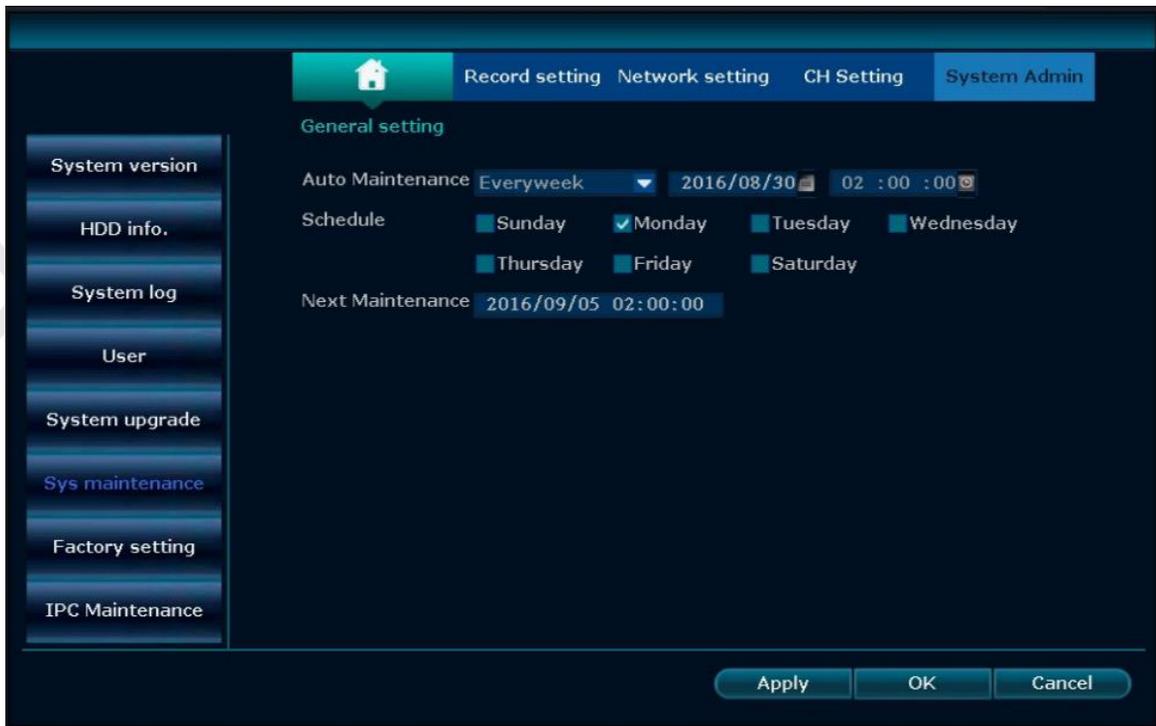
- Make sure that the upgrade firmware file is put in the root directory of your USB flash disk, not in any folder.
- There are four types of software upgrade, including System, Logo, Resource, and Wireless Module.
- DO NOT unplug the system from power during upgrade, or else system will be damaged.

5.12.6 System Maintenance

Function: Allows users to set the time of NVR auto maintenance.

Operation Steps:

1. Right click your mouse, then click System setting – System Admin – System maintenance, you’ll see below interface, as shown in below image.
2. Schedule the system auto maintenance.

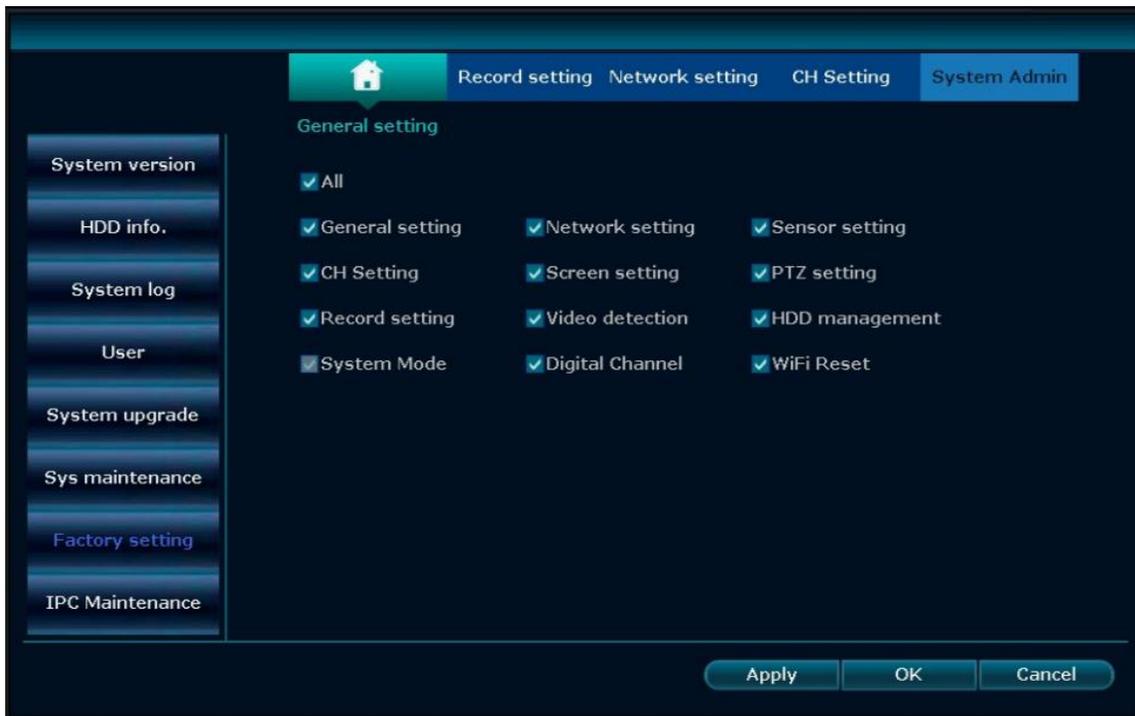


5.12.7 Factory Setting

Function: Reset NVR settings to factory default.

Operation Steps:

1. Right click your mouse to pop out NVR main menu, then click System setting – System Admin – Factory setting, you’ll see below interface, as shown in below image.



2. Check the options you want to restore to factory default and click “Apply”.
5. Click “OK” when confirmation message pops out. Your NVR settings will be restored to factory default.

5.12.8 IPC Maintenance

Function: Allows users to upgrade cameras firmware.

Operation Steps:

1. Right click your mouse, then click System setting – System Admin – IPC maintenance, you’ll see below interface, as shown in below image.



2. Download cameras firmware, copy the .rom firmware file to an USB flash disk's root directory, not in any folder. Plug the USB disk to NVR's USB port.
3. Select the cameras, and choose Firmware from USB storage, click Start.
4. Your cameras will start upgrading firmware. Wait until they finish upgrading firmware.

6. Local & Remote Access

6.1 Brief Introduction

This system supports remote viewing your cameras via smartphone and computer from anywhere in the world.

Tips:

- Supports viewing your cameras on computer via Internet Explorer.
- Supports viewing your cameras on computer via CMS PC Client Software.
- Supports viewing your cameras on smartphone.

6.2 View your cameras on computer via IE (Internet Explorer)

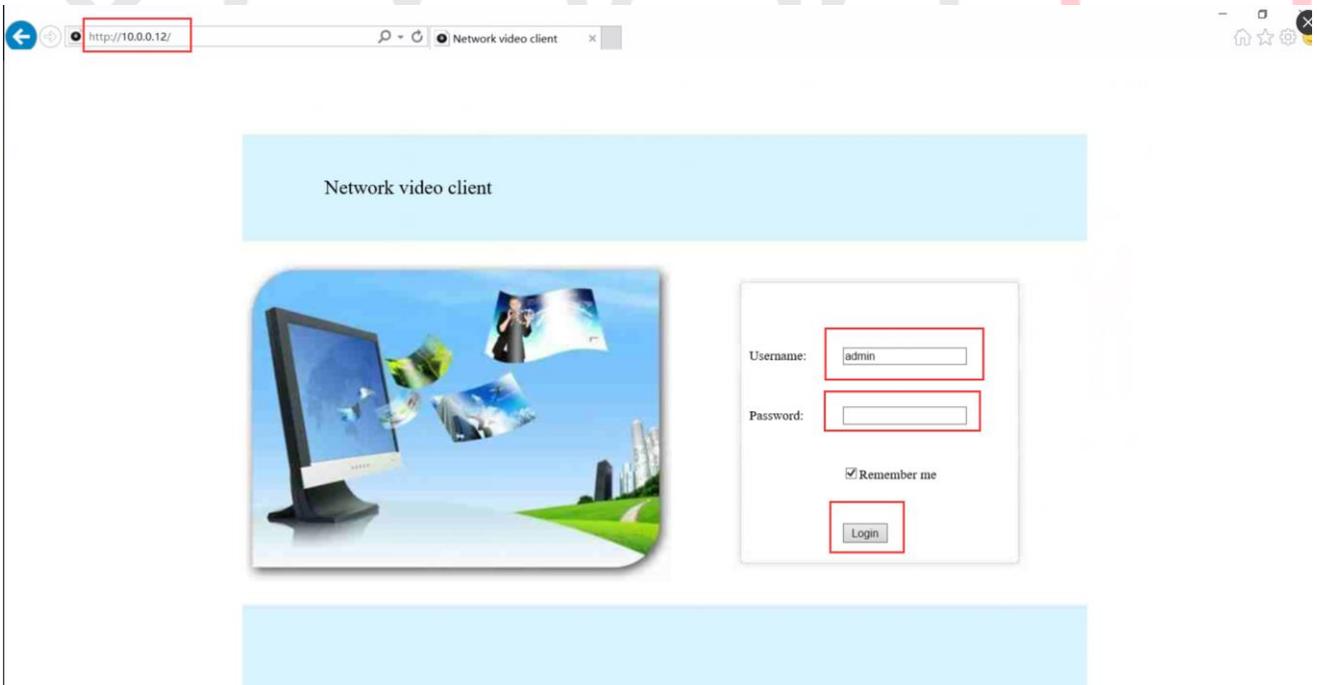
6.2.1 Local Access via IE (When your computer and NVR are connected to the same network)

Operation Steps:

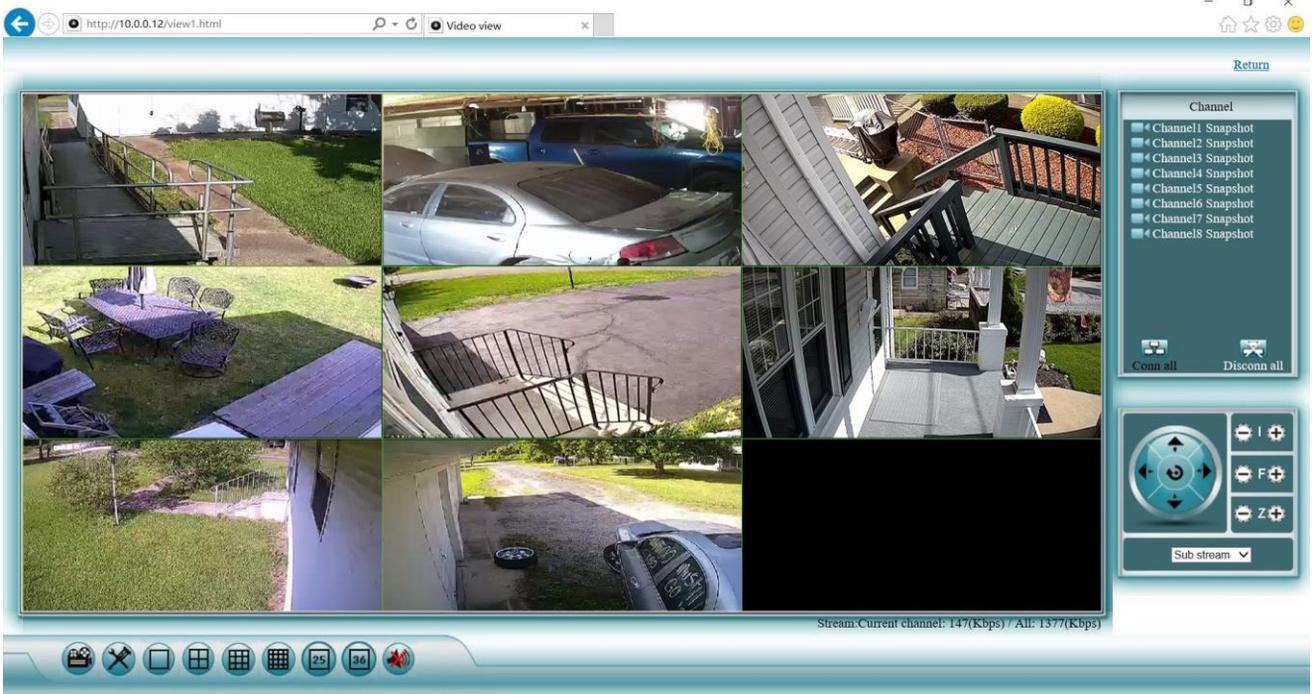
Step1. Find out the NVR IP address and port #. IP address and port number can be found at System setting – Network setting, as shown in below image.



Step2. Enter the NVR's IP address in your IE browser in format http://youripaddress, for example: http://10.0.0.12 (If the default WEB port 80 has been changed e.g. to 100, you'll need to add new port number when input IP address in the browser, for example: <http://10.0.0.12:100>). As shown in below image.

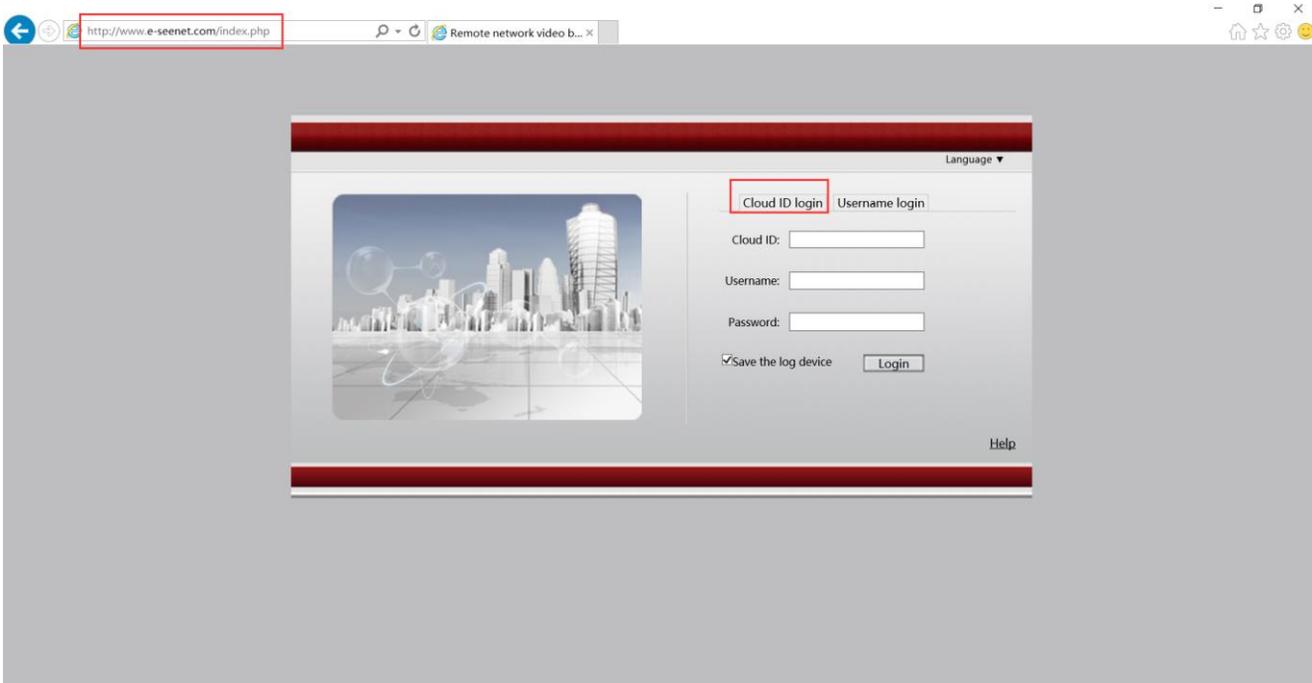


Step 3. Enter the NVR's login username and password, click Login, you should be able to view the cameras video now. As shown in below image.



6.2.2 Remote Access via IE (When your PC is out of local area network with the NVR, for example: view your home system from your office computer)

Step1. Open your Internet Explorer (IE) browser and visit www.e-seenet.com, as shown in below image.

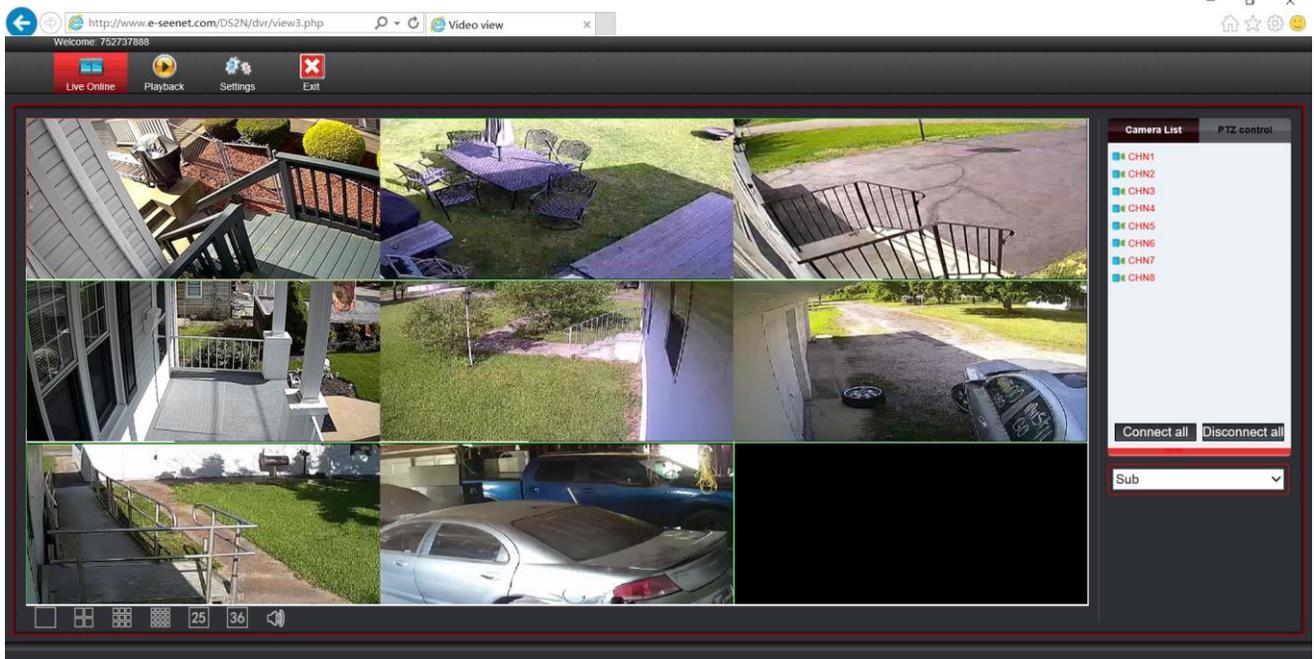


Step2. Input Cloud ID, Username and Password, and click Login. You'll then be able to see cameras videos on IE, as shown in below image.

Cloud ID: Cloud ID is your NVR's Device ID, which can be found at the right bottom of your monitor, or in NVR's network setting interface.

Username: NVR's login username, default is admin.

Password: NVR's login password, default is empty.



Step 3: If it's 1st time you use it, please download and run the WebClient.exe control follow the pop out message.

Note: If for the first time use and software cannot load automatically, you'll need to change some ActiveX settings in Internet Explorer. (This will need to be done on every computer you use to access the system.)

Step1: Click "Tools" - "Internet Options" - "Security" - "Internet" - "Custom Level".

Step 2: Scroll down until you see ACTIVE CONTROLS AND PLUG-INS.

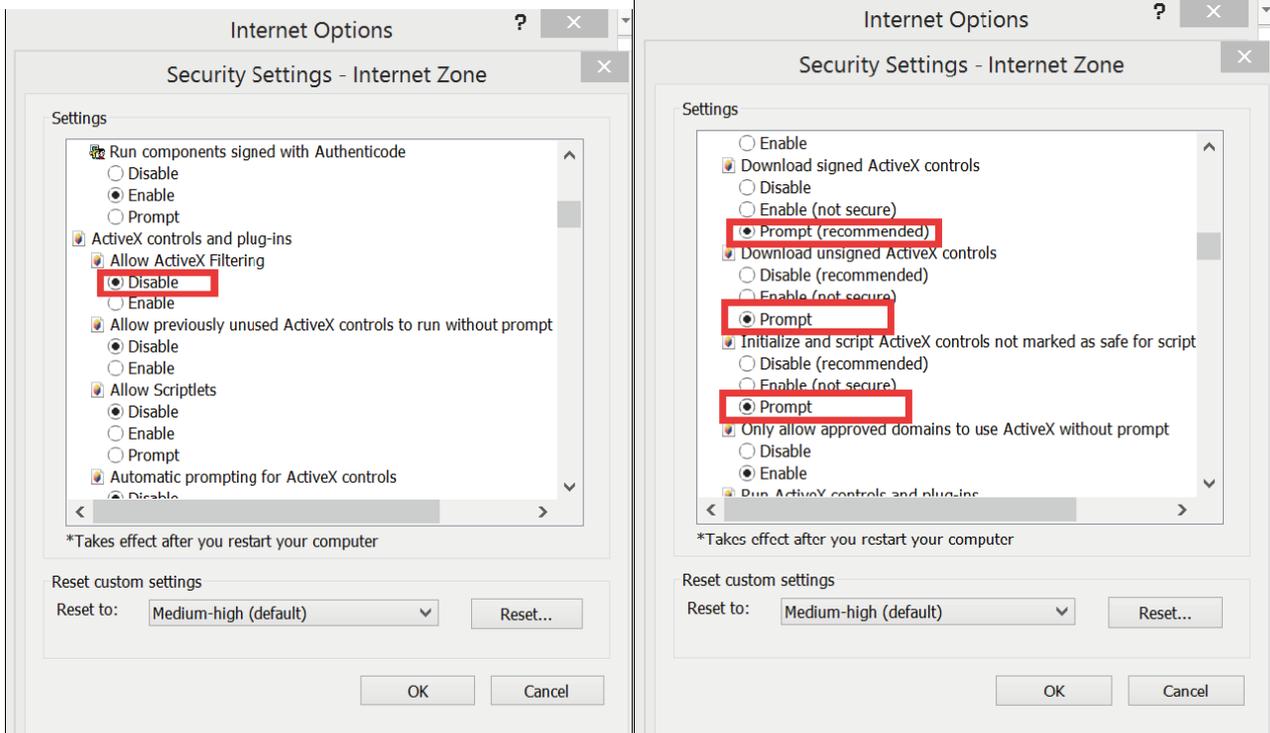
(If you have Internet Explorer 9 or 11, change ALLOW ACTIVE FILTERING TO DISABLE. Other versions of IE will not have this option.)

Step 3: Change below ActiveX controls to prompt, as shown in below image.

- Download signed ActiveX controls;

- Download unsigned ActiveX controls;

- Initialize and script ActiveX controls not marked as safe for scripting.



Detailed instructions here: <http://www.xmarto.com/helpcenter/?/article/6>

6.3 View your cameras on computer via CMS PC Client Software

The ESeeCloud CMS (Central Management System) is a relatively professional solution on PC. It enables you to live view, playback and manage the xmartO cameras/camera systems on PC. (You can check and do some settings for your camera system on CMS only when the computer is in LAN network.)

Detailed instructions here:

For Windows PC: <http://www.xmarto.com/helpcenter/?/article/11>

For Mac: <http://www.xmarto.com/helpcenter/?/article/13>

6.4 View cameras on smartphone

Step1: Download the free mobile app from Google Play or App Store, and install it on your phone.



Step2: Open the app and log in. If you are a new user, click “Register” to create an account. Create an account will allow you to view your cameras on any mobile devices with this same account.

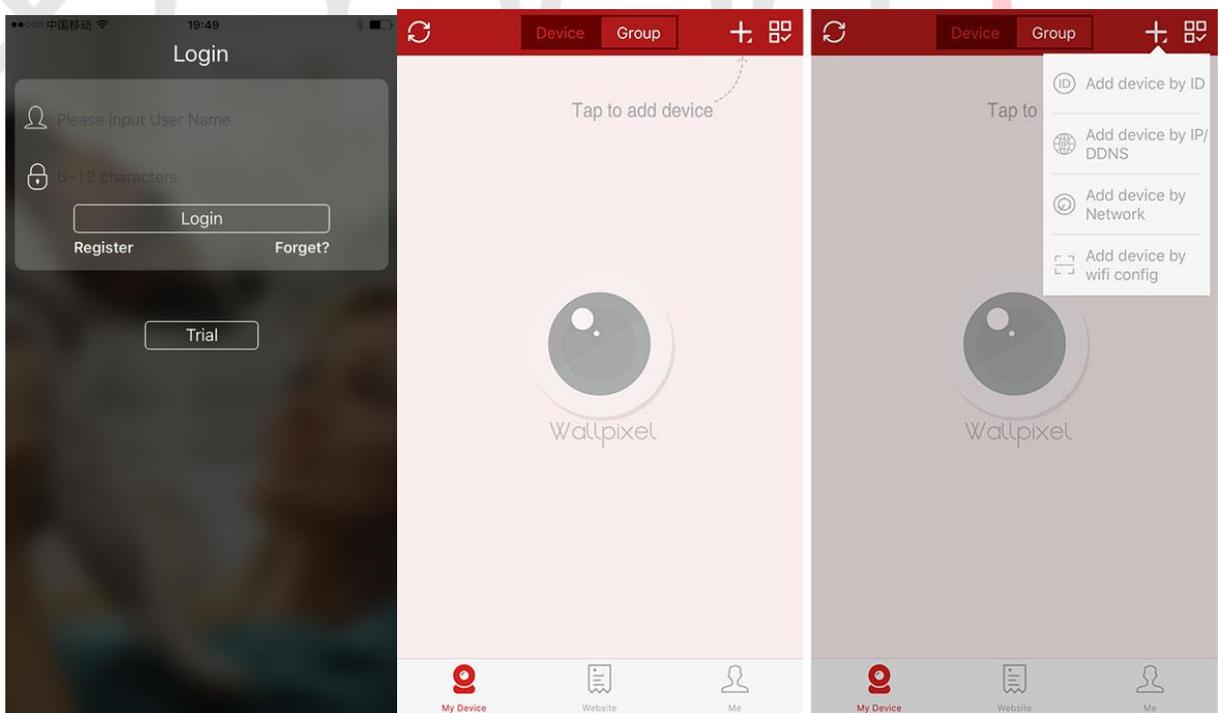
Username: Any letters or numbers or their combinations (Min.: 3; Max.: 12)

Password: Set a password and remember it

If you do not want to register an account now, you may click “Trial” to proceed.

Step3: Tap “+” at the top right corner, then tap “Add device by ID”.

(Add device by ID allows you to view cameras on phone both locally and remotely. Add device by IP/DDNS allows you to view cameras on phone in local network only.)



Step4. You shall see below interface for you to enter the device’s information. Enter all the information required and click Submit at the top right corner.

Cloud ID: This is your system’s Device ID, which can be found at the right bottom of your

monitor.

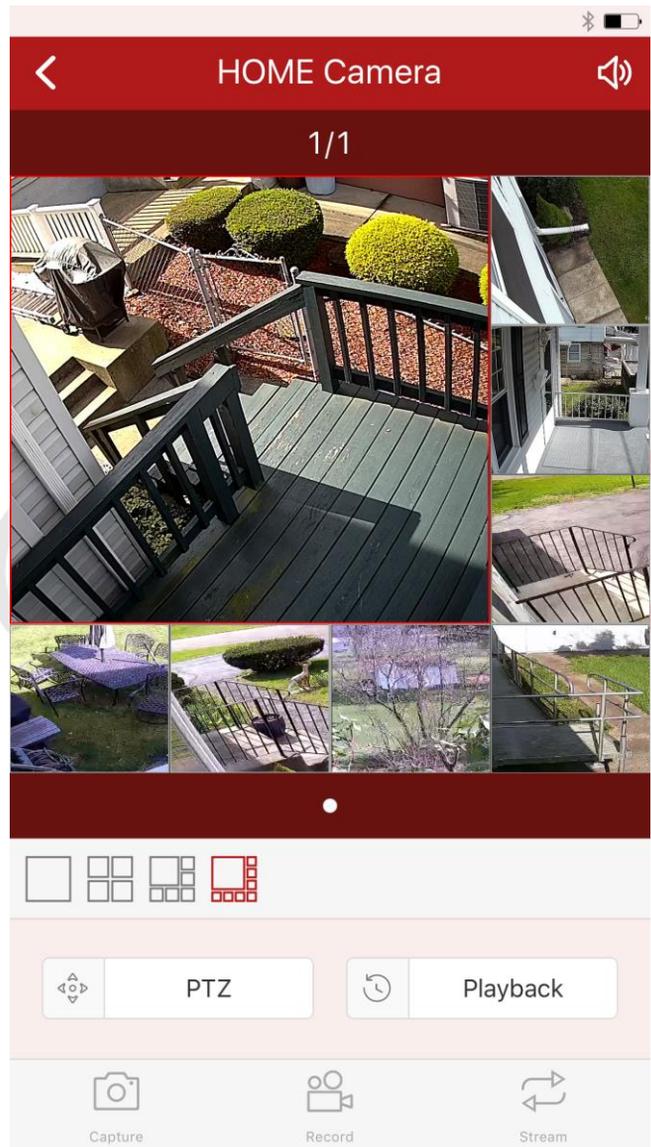
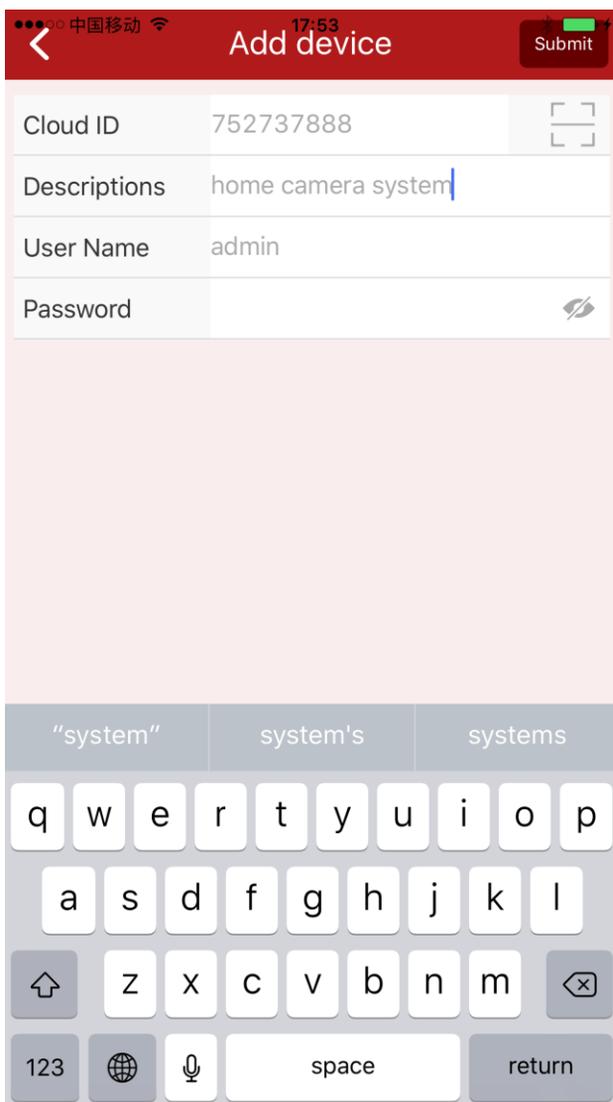
Descriptions: Your device name, you can input a name for your device, like home camera...

Username: The username of your NVR, default username is admin. If you've set a new user for your NVR, use the new username here.

Password: Default password is empty, means no password. Leave it blank. But if you've set a new password for your NVR, make sure to input the new password here.

Channels: Choose the channels of your NVR, usually 4 or 8.

Step5. Once you click submit, device will be added to your account and you'll be directed to the device list page. Click on the device and you shall be able to view cameras on your phone.



Detailed instructions here: <http://www.xmarto.com/helpcenter/?/question/19>