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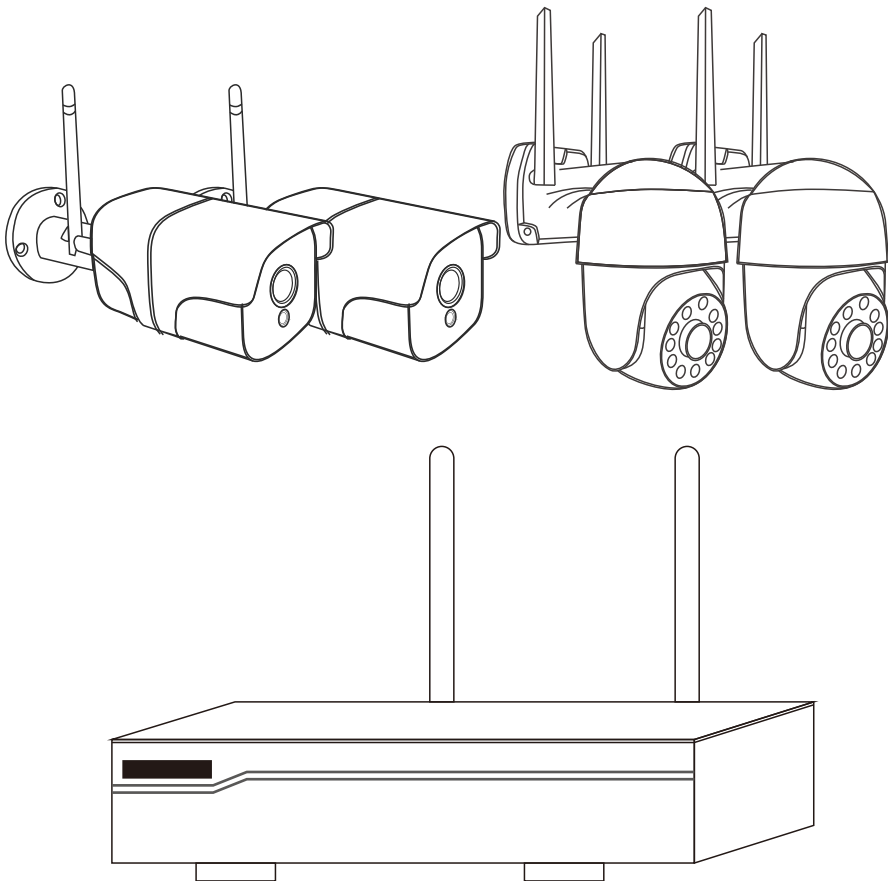
工艺: 封面过亚膜

 PANTONE Black C

注意：不要随便删减空白页（特别是封面内页不能出现印刷内容）

**TOGUARD®**

## Wireless Network Video Recorder Kit 4 Camera Security System





V20210123

# CUSTOMER SUPPORT

[support@toguard.cc](mailto:support@toguard.cc)



SCAN QR code to watch Installation Video, If need further questions, please contact us at [support@toguard.cc](mailto:support@toguard.cc)

SCAN-QR-Code zum Ansehen des Installationsvideos. Bei weiteren Fragen wenden Sie sich bitte an [support@toguard.cc](mailto:support@toguard.cc)

SCAN QR code pour regarder la vidéo d'installation, si vous avez besoin d'autres questions, veuillez nous contacter à [support@toguard.cc](mailto:support@toguard.cc)

SCANSIONE del codice QR per guardare il video di installazione, se sono necessarie ulteriori domande, contattaci all'indirizzo [support@toguard.cc](mailto:support@toguard.cc)

Escanee el código QR para ver el video de instalación. Si necesita más preguntas, contáctenos en [support@toguard.cc](mailto:support@toguard.cc)

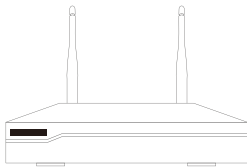
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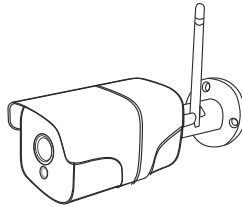
## SAFETY CAUTIONS

1. Please do not place any container with liquid on the NVR.
2. Please use the product in an open space and do not block the air vents.
3. For your safety, please use the original power supply provided.
4. If the NVR starts or works abnormally, please unplug the power adapter and clean the dust on the mainboard in the NVR device, then restart the NVR.
5. Please obey the regulations and policies in your country and area when installing the product.

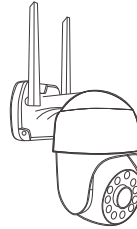
## PACKING LIST



NVR x1  
(Hard Disk Drive  
not included)



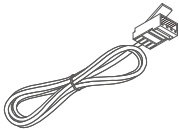
IP Camera x2



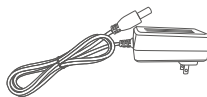
PTZ Camera x2



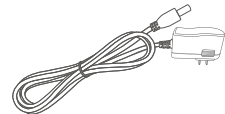
Quick Guide x1



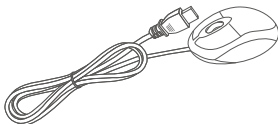
Ethernet Cable x1



DC 12V/2A  
Power Adapter x1  
(for NVR)



DC 12V/1A  
Power Adapter x4  
(for IP Camera)



USB Mouse x1



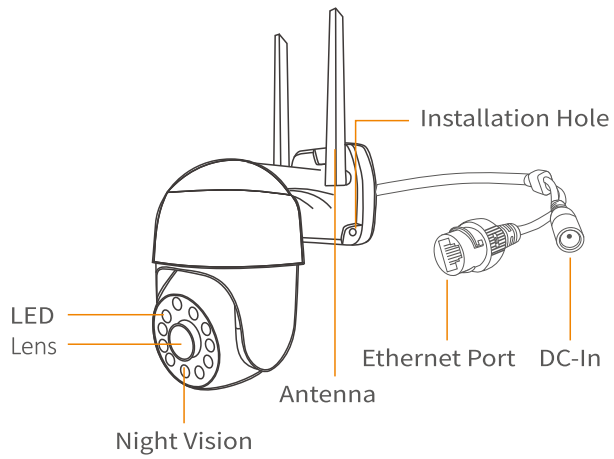
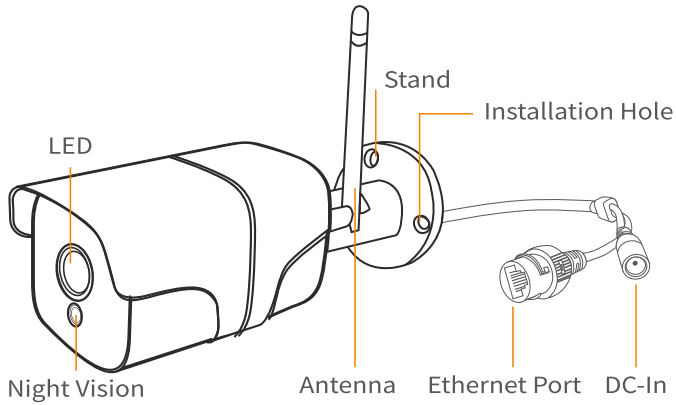
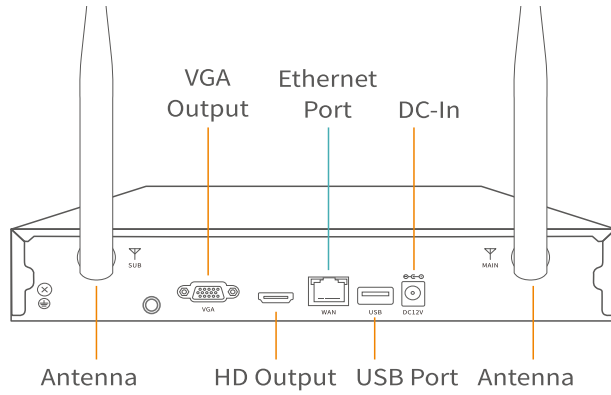
Screw x4  
(for HDD)



5DB Antenna x 2  
(for IP Camera)



# PRODUCT OVERVIEW

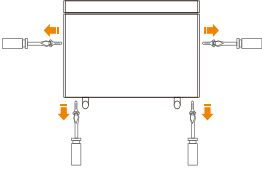
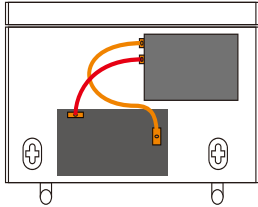
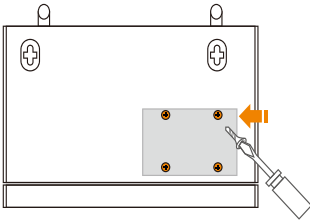
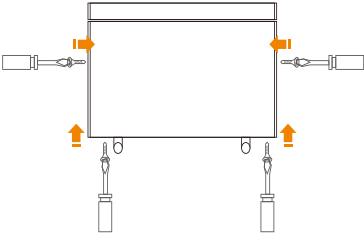


# HARD DISK DRIVE INSTALLATION AND SYSTEM CONNECTIONS


## Hard Disk Drive Installation

### IMPORTANT:

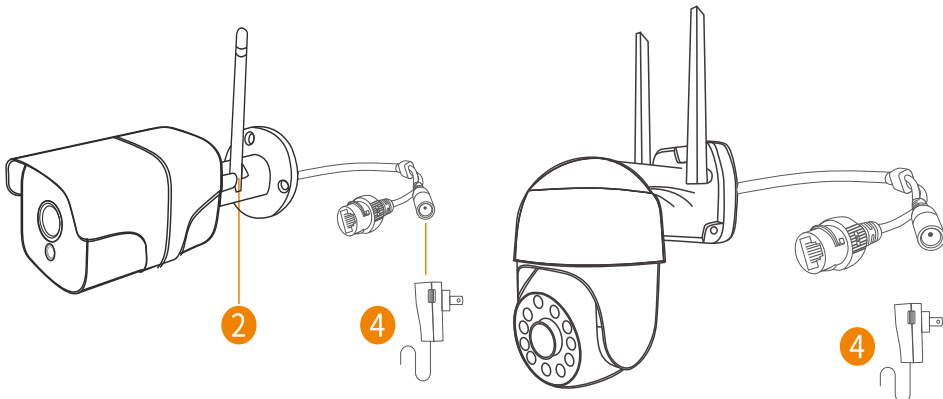
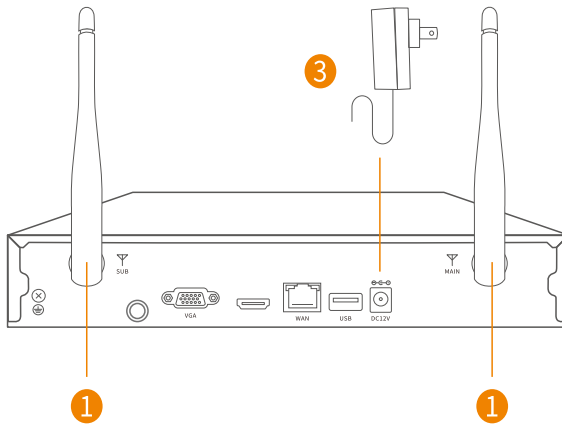
1. To record video and play the historical video, the installation of the Hard Disk Drive is a must. Otherwise, you can only watch the live picture.
2. A Hard Disk Drive is not included in this NVR System.
3. This NVR system works with a 3.5" SATA HDD. The HDD should be formatted after it's installed

<p><b>Step 1:</b> Unscrew and remove the top cover of the NVR.</p>	
<p><b>Step 2:</b> Connect the SATA power and data cables of the NVR to the corresponding ports of the Hard Disk Drive.</p>	
<p><b>Step 3:</b> Hold the Hard Disk Drive and the NVR together, carefully turn them over, then align the screw holes on the Hard Disk Drive with the screw holes on the NVR housing.</p>	
<p><b>Step 4:</b> Using a Phillips screwdriver to tight the Hard Disk Drive and NVR housing with the provided screws, then assemble the top cover of the NVR.</p>	

## System Connections

 Do not fix the IP Camera with the screws before you can see the image on the monitor and know the ideal position to install it.

- 1 Unwind the antennas of the NVR;
- 2 Install and tighten the antennas on the IP cameras;
- 3 Plug the power adapter (12V/2A) into the NVR and the socket;
- 4 Plug the power adapter (12V/1A) into the IP Camera and the socket.



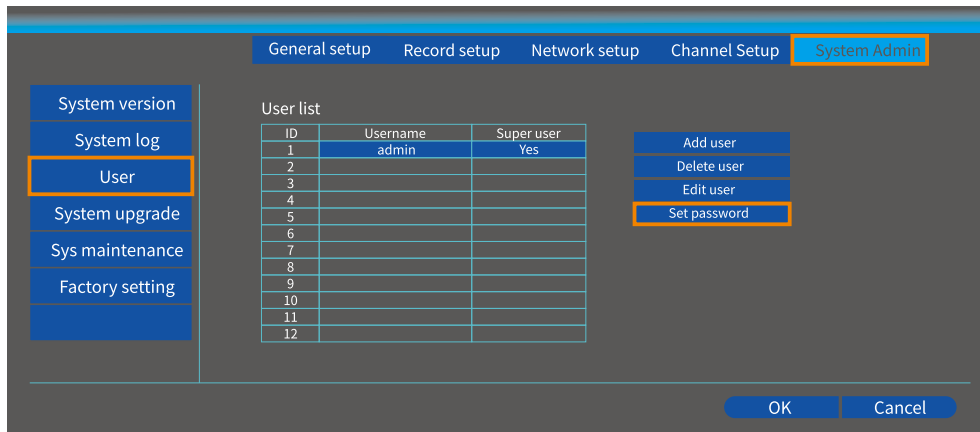
# OPERATE NVR SYSTEM WITH A MONITOR

## Live Picture

After connecting the NVR and cameras to power, connect a monitor to the NVR through the HDMI or VGA port (HDMI and VGA cable are not included) and wait for 2-3 minutes, then the live pictures from the cameras (main interface) will be displayed on the monitor. Connect the mouse to start operating the NVR system.

### Notes:

1. The default **Username** for the NVR system is **admin** and the default **Password** is empty ( no need to enter anything);
2. This NVR system can be only connected to the network by the Ethernet cable currently;
3. To protect your privacy, please set the password at your earliest convenience. Right click the mouse on the main interface, then go to **System setup > System Admin > User > Set password** to set a password;



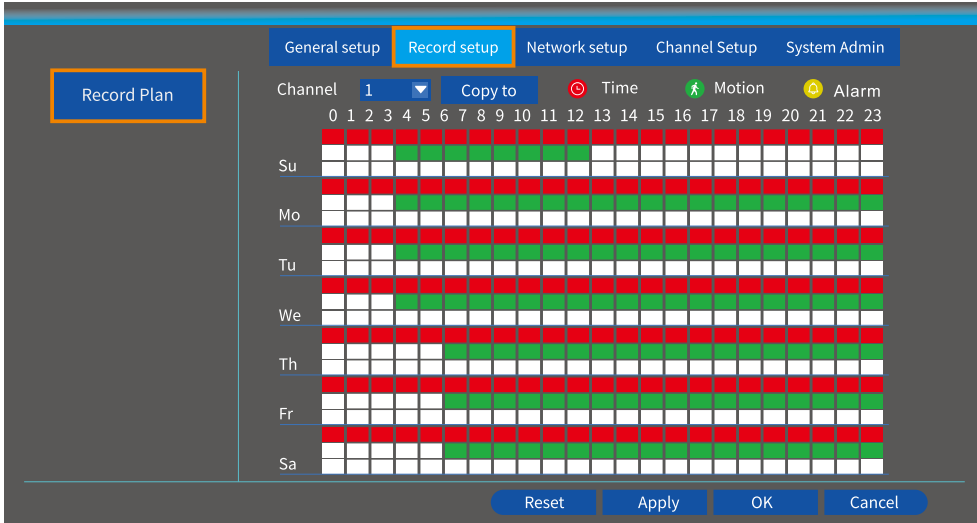
4. If you do not have a monitor, you can operate the NVR system on PC. See more details from page 11 and 18.

## Hard Disk Drive Formatting

Install the HDD first, then right click the mouse on the main interface and go to **System Setup > General setup > HDD Setup** to check its status. If it's not **Formatted**, tick to select the right HDD, then click **Format**.

# Video Recording

Right click the mouse on the main interface, then select **System setup > Record setup > Record Plan** to set the record mode. The default record mode of the NVR is 24/7 all time record.



**IMPORTANT:** Click **Reset** before you change the record mode.

## Scheduled Record

After reset, select **Channel** and click **Time** to start scheduled record setup. Left click the mouse and hold to select the day and hour you plan for recording. The area selected will turn to **Red** and click **Apply** to save the setting. The system will start recording at a specific time on a daily/weekly schedule.

## Motion Record

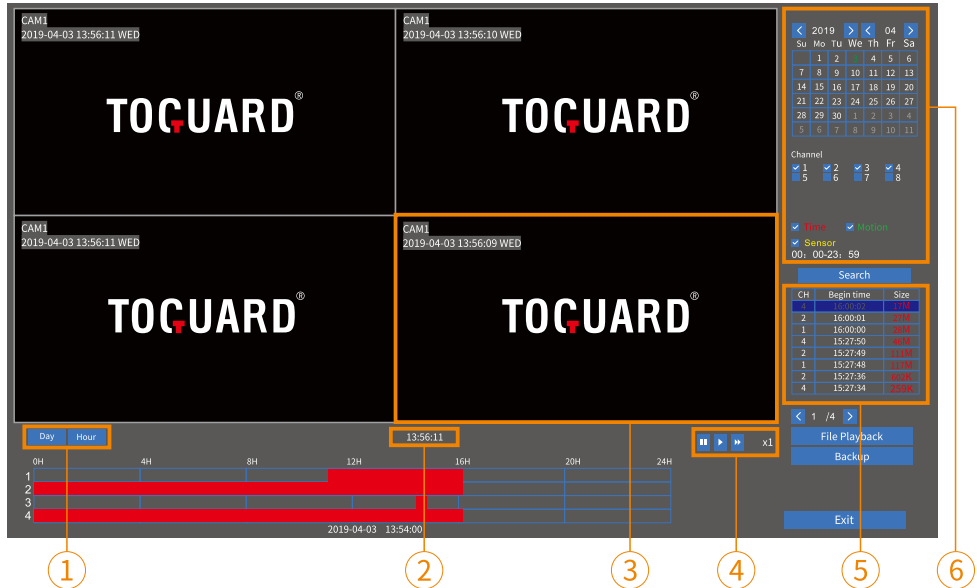
After reset, select **Channel** and click **Motion** to start motion record setup. Left click the mouse and hold to select the day and hour you plan for recording. The area selected will turn to **Green** and click **Apply** to save the setting. The system will start recording when the camera detects any motion.

## Tips:

1. After changing the setting from 24/7 to the specific time or motion record, it helps to prolong the storage time of the HDD.
2. External device is required for Sensor record and this NVR does not support it

## Video Playback

Right click the mouse on the main interface, then select **Video Playback** to play the videos recorded. Select the **Date** with Green color, **Channel** and **Record Mode** (⑥), then click **Search** to list all the filtered videos.



- ① Display the timeline by Day/Hour
- ② Video Recording Time
- ③ Area for Video Playing
- ④ Pause/Play/Fast Forward
- ⑤ Filtered Videos List
- ⑥ Filters

**Option 1:** Select one video file from the **Filtered Videos List** (⑤), then click **Play** or **File Playback** to play the selected video.

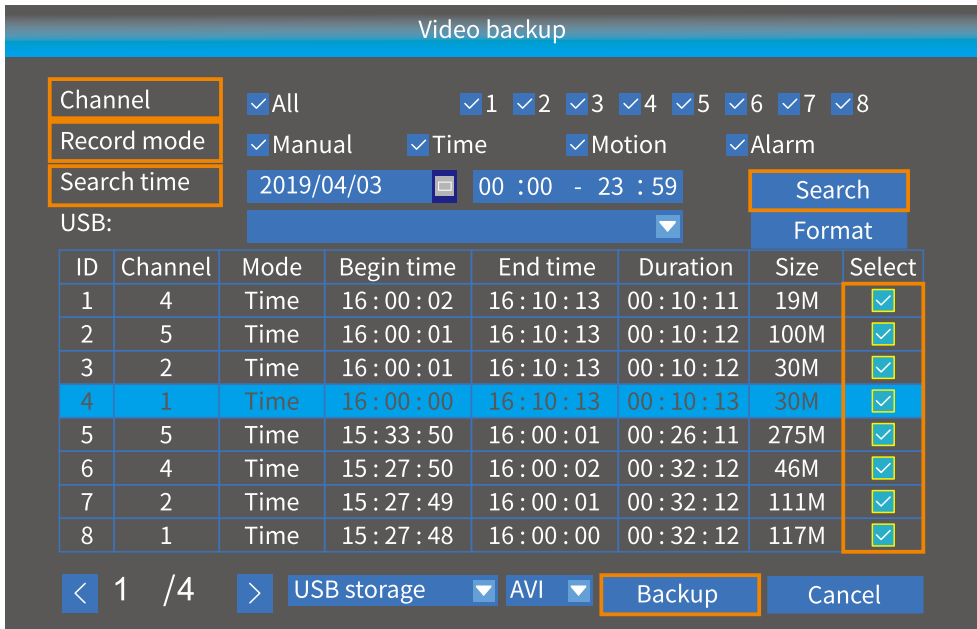
**Option 2:** Left click the mouse on the **Red/Green** (Red for **Scheduled Record** and Green for **Motion Record**) part of the timeline. The videos recorded from 4 channels can be played at the same time.

## Tips

External device is required for Sensor record and this NVR not support it, which means there is no Sensor record playback

## Video Backup

Right click the mouse on the main interface, then select **Video Backup** to enter the interface below.



### Step 1:

Select **Channel**, **Record mode** and **Search Time**, then click **Search** to display the filtered videos list.

### Step 2:

Tick to select the video files, click **Backup** and wait for a pop-up window to prompt you to insert a USB Drive within one minute.

### Step 3:

Unplug the mouse and insert your USB Drive within one minute, then the NVR system will back up the selected videos into your USB Drive automatically.

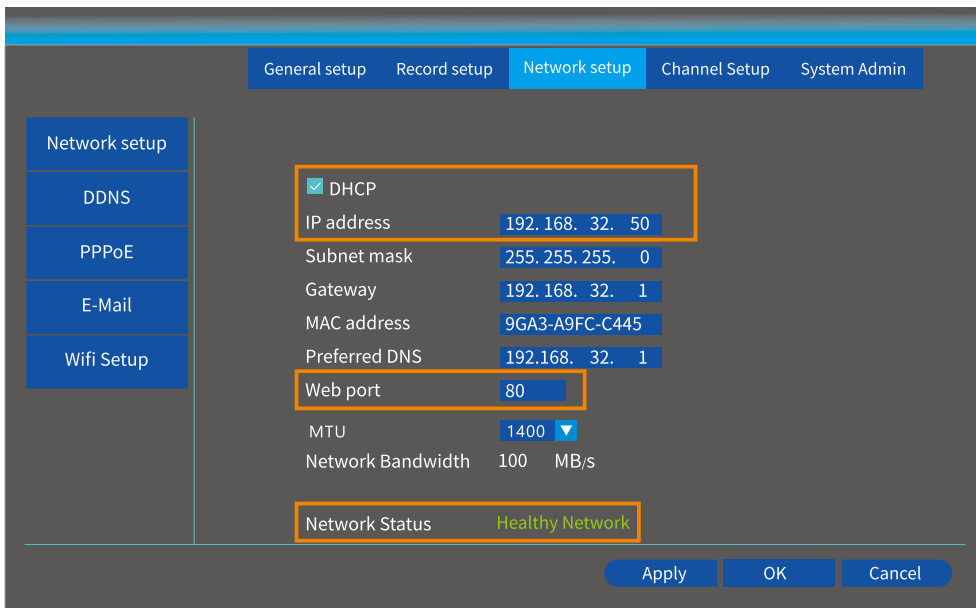
### Tips:

1. The NVR system only supports the USB Drive up to **32GB** and the format of the USB Drive should be **FAT32**.
2. An extra Hub is needed when you'd like to connect the mouse and the USB Drive to the USB port on the NVR system at the same time.
3. To back up the video one by one via another method, go to the interface of **Video Playback** and select one video file from the filtered videos list. Click **Backup** and insert the USB Drive into the USB port of the NVR System within one minute. The video will be saved to the USB Drive automatically.

## Network Setup

To remote view videos from mobile device or PC, please make sure the NVR is connected to the Router with the Ethernet cable first, then go to **System setup > Network setup** to check the **Cloud ID**, **IP address** and **Web port**, etc..

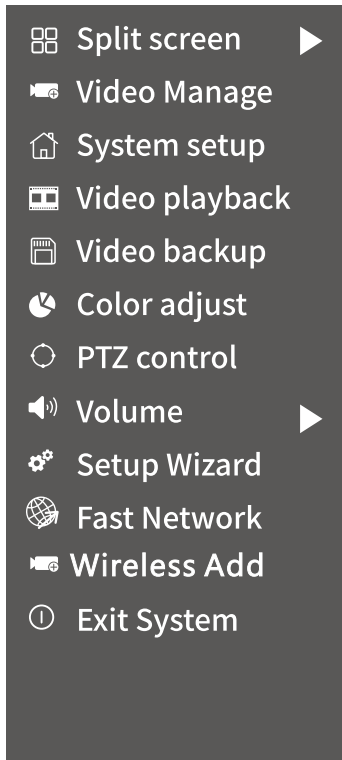
1. Make sure the status of the **Cloud(P2P)** is **ONLINE**. If it's **OFFLINE**, please unplug the Ethernet cable, then plug again to check the status;
2. The number after **Cloud(P2P)**, e.g. 1265652652 , is the **Cloud ID** of the NVR device;
3. Make sure the **DHCP**, **Cloud(P2P)** and **Enable** after the **Net Diagnose Info** are ticked;
4. Make sure the **Network status** is **Healthy Network**;
5. **Web port** may vary on different NVR systems.



## Other Functions on the Menu Bar

Right click the mouse to show the main **Menu** bar as shown below, right click again to hide it.





**Split screen:**

change the numbers of the channels showing in the same screen.

**Video Manage:**

add IP Camera by **Match Code**, manage IP Cameras and Channels etc..

**System setup:**

includes **General setup**, **Record setup**, **Network setup** and **System Admin**.

- \* **General setup:** change Language, set up the Time, Change Display Resolution and check HDD information etc..

- \* **Record setup:** set up the record mode for each channel.

- \* **Network setup:** check the IP address, Cloud ID etc..

- \* **Channel setup:** change the name of the

camera, check the Bitrate etc..

- \* **System Admin:** check the system version, update the system, User and password setup, make a factory reset and check the system log etc..

**Video backup:**

back up the selected historical videos.

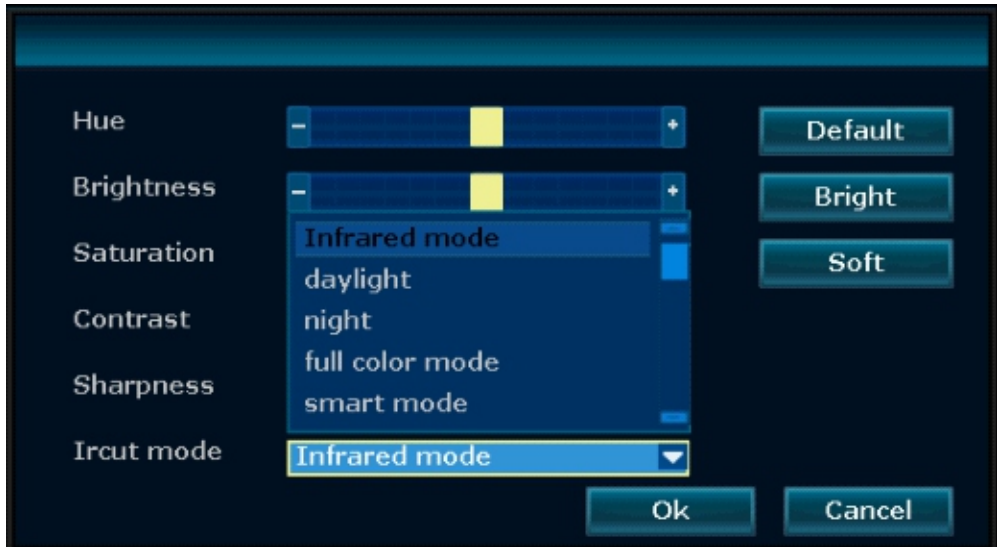
**Color adjust:**

adjust the **Brightness**, **Contrast**, **Sharpness** etc. of the picture in each Channel.

**Setup Wizard:**

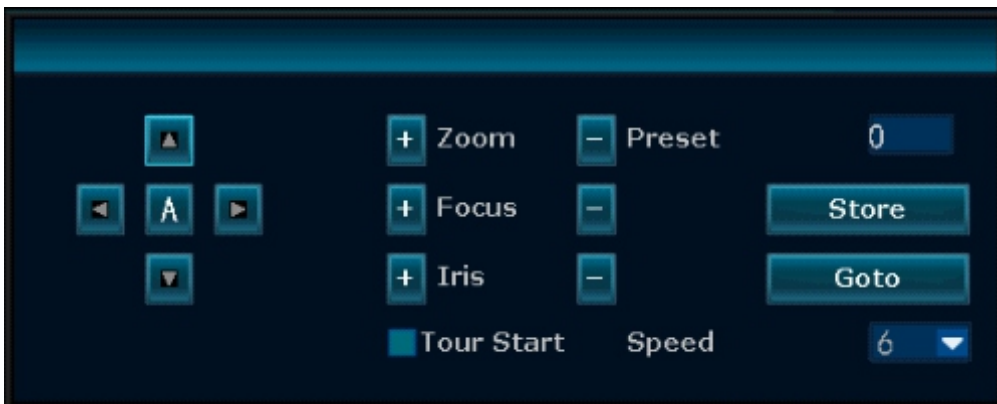
show the QR codes for App downloading and checking the Cloud ID.

Color Adjust: Switch infrared mode and full color mode, adjust the Brightness, Sharpness etc. of the picture in each Channel.



PTZ Control:

Use the direction button (Up/Down/Left/Right) to control the PTZ camera, adjust the angle.



**Fast network:**

configure the network.

**Exit System:**

Log out, reboot and shut down the system etc..

## **OPERATE NVR SYSTEM FROM CLIENT ON PC**

**Important:**

1. Please visit our official website : [www.toguard.cc](http://www.toguard.cc) download the EseeCloud client in the support section. After downloading, install and launch the client following instructions.
2. Check the **Cloud ID** from the **Network setup** mentioned in the section of **OPERATE NVR SYSTEM WITH A MONITOR**;  
Or you can contact our service team and get the PC client software.
3. Connect the NVR system to the Router via Ethernet cable in advance.
4. Make sure the status of the **Cloud(P2P)** is **ONLINE**. If it's **OFFLINE**, please unplug the Ethernet cable, then plug again to check the status;
5. Make sure the **Network status** is **Healthy Network**

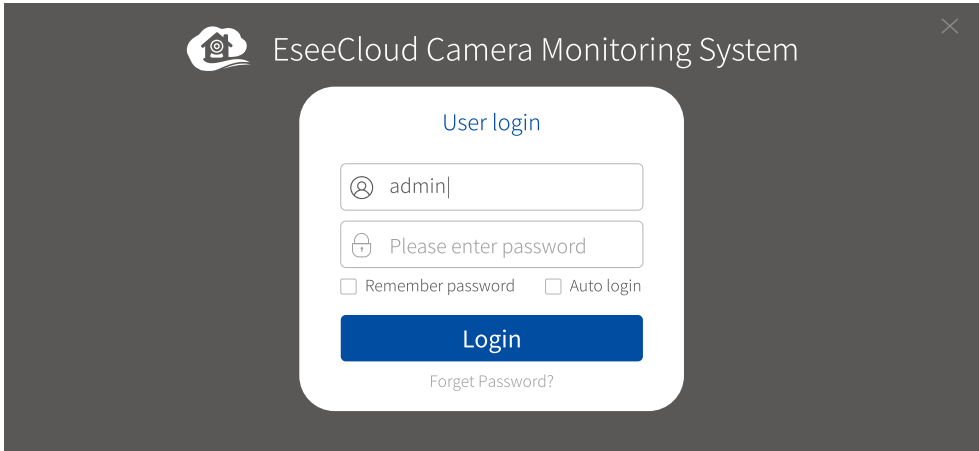
## **Client Installation and Login**

**Step 1:**

Double left click the **EseeCloud\_Setup.exe** file to install and run the Client.

**Step 2:**

Log in to **EseeCloud** Client with the default **User Name** (admin) and **password** (empty, namely enter nothing) if you did not set any password.




### Step 3:

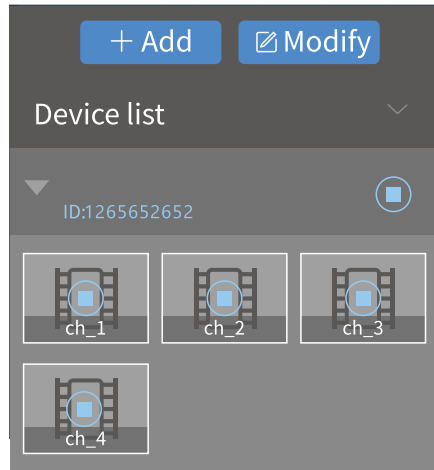
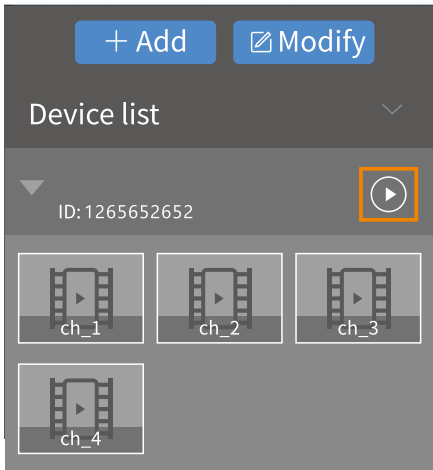
Read the tips and click **Experience** to start. Click **+Add** on the right upper corner to enter the window of **Add Device**.

### Step 4:

Switch to **Cloud ID** option first. Enter the **Cloud ID** of your NVR system, select **Type** as **NVR**, enter the password if you set one (if not, the default password is empty) and enter **4** in the box of **Number of Channels**, then click **Finish** to add the NVR system.

### Step 5:

After it's added successfully, left click the mouse on the  icon to connect your NVR s




Tip:

The Device list is displayed with the Graphic structure. If it's displayed with a Tree structure, please double click on the device name to connect the system.

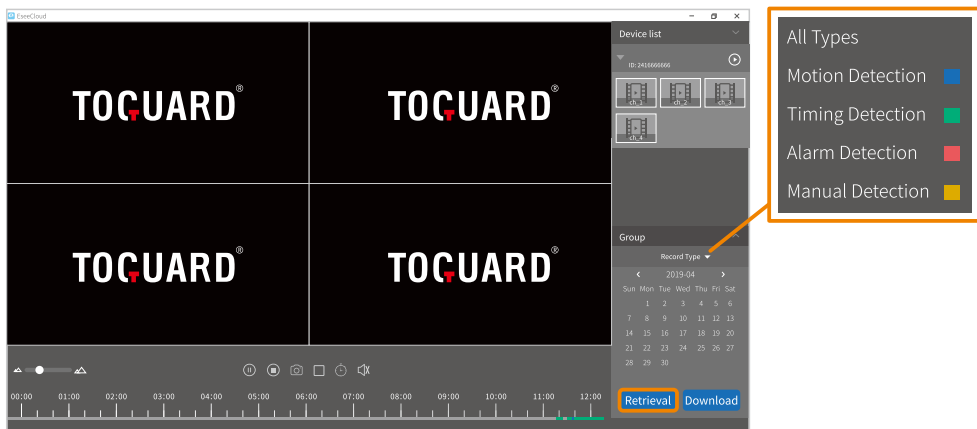
## Video Playback and Backup

Step 1:



Left click the  on the bottom menu bar, then click **Confirm** in the pop-up window of Tip to enter the interface of Video Playback.

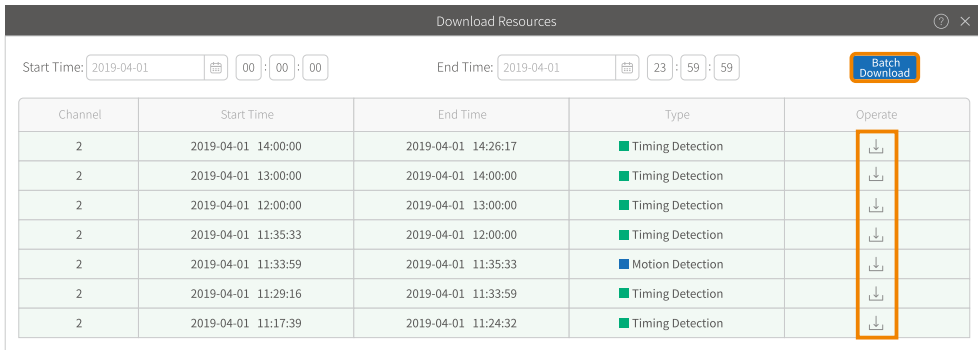
Step 2:

Select Channel, Record type and Date, click **Retrieval** to display the videos recorded, then left click the mouse on the timeline with colors or drag the white time box to play the video.




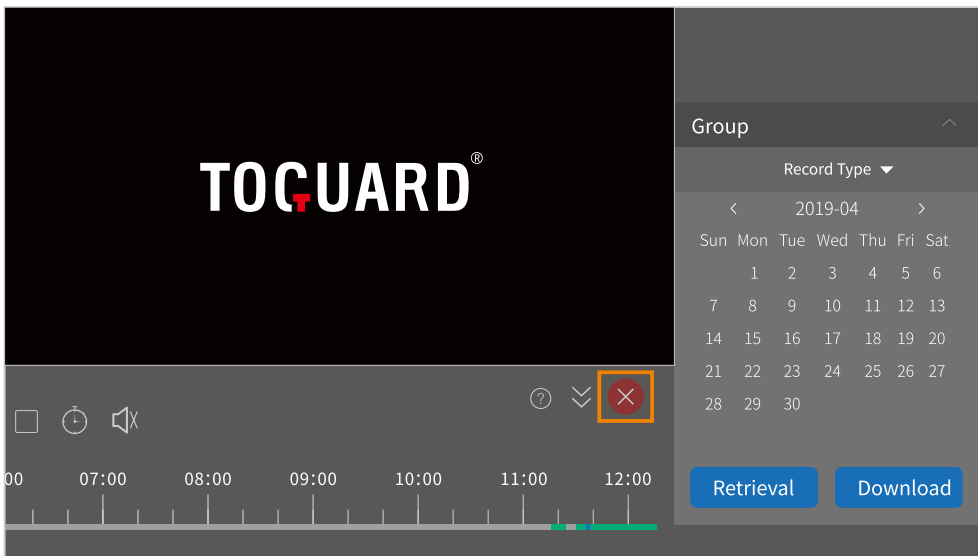
### Step 3:

Click the **Download** button on the right bottom corner or the  icon on the bottom menu bar to pop out the window of **Download Resources**. Click the  icon to download the video one by one or click the **Batch Download** button to download all the videos together to your computer.





### Step 4:

Click the  icon to exit from the video playback interface and get back to the live picture again.




## Other Functions of the Bottom Menu

**Device Management** (  ): add more NVR devices, delete the selected NVR device and modify the information of the NVR device.


**User Parameter** (  ): change language, change the paths of saving Screenshot, downloading the historical video and saving the recording file of current live picture, etc..

**Record** (  ): record the current live video into your computer.

**Screenshot** (  ): capture a screenshot of the current live picture and save into your computer.

**Disconnect all** (  ): disconnect the NVR device.

**Screen Number** (  ): change the channel numbers showing in the screen.

**More Function** (  ): change the password of the admin, check the user logs, manage the local resources like Screenshot and videos, etc.

## OPERATE NVR SYSTEM ON MOBILE DEVICE

### IMPORTANT:

1. Connect the NVR system to the Router via the Ethernet cable in advance;
2. Make sure the NVR system and the mobile device are connected to the same network;
3. Check the **Cloud ID** from the **Network setup** mentioned in the section of **OPERATE NVR SYSTEM WITH A MONITOR**.

## Download and Install the App

Search and download **CloudEye** into your mobile device from **App Store/Google Play** or scan the QR codes below to download.



iOS System:  
iOS 8.0 and later



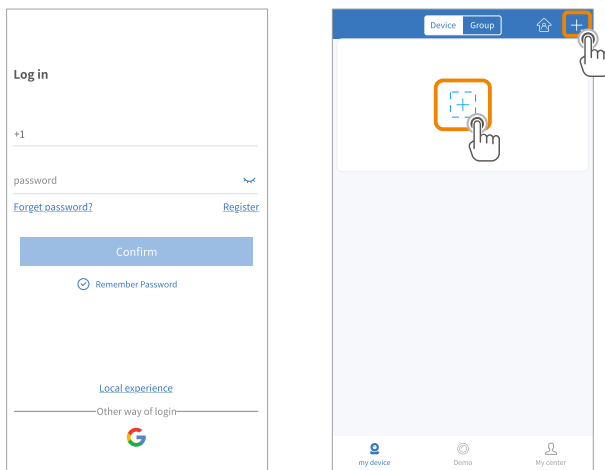
Android System:  
Android 4.4 and later

## Add the NVR System to the App

Install and open **CloudEye**, then follow the steps below to add the NVR system.

### Step 1:

Register an account with your email address and log in to **CloudEye**, then tap the **+** icon in the center or on the upper right corner to continue.



1

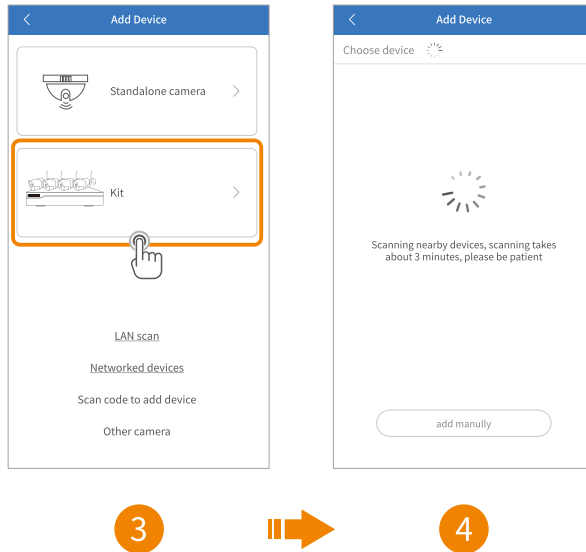


2

### Step 2:

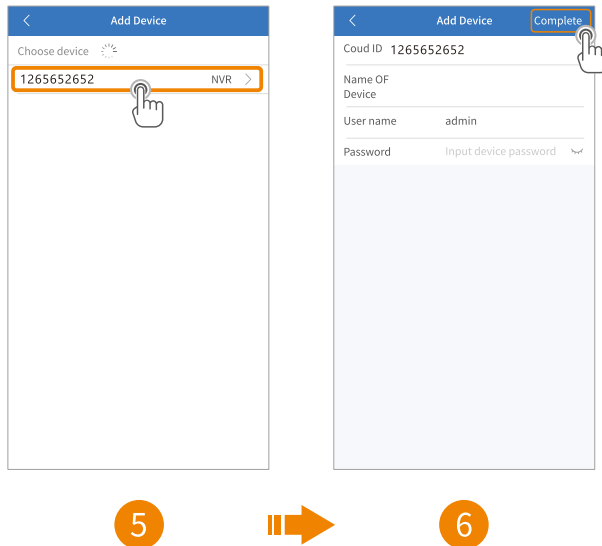
Tap **Kit** to start adding your NVR system, then the App will scan the NVR system nearby automatically.





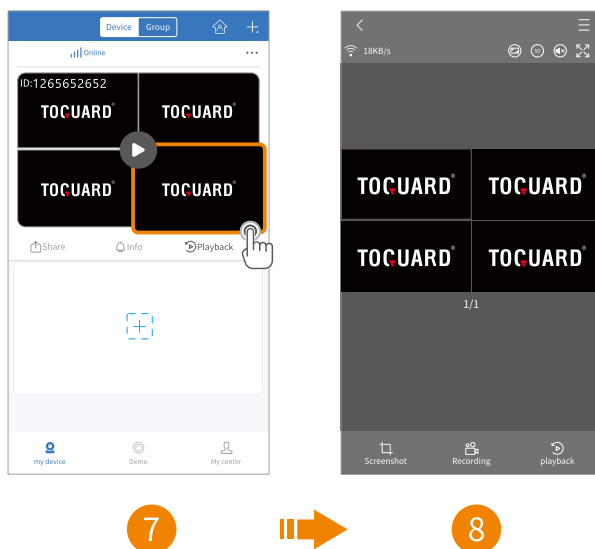
**Step 3:**

Tap the right **NVR** after the successful scanning, then input the information required (e.g. enter the password if you set one; if not, the default password is empty) and tap **Complete** on the right upper corner to enter the main interface.



### Step 3:

Tap on the thumbnail to enter the LIVE interface, then you can capture a screenshot, record the live video to your mobile device and play the videos recorded in the Hard Disk Drive of your NVR system.



### Tip:

If the NVR is not added automatically, please tap add manually to add it.

## OPERATE NVR SYSTEM FROM THE BROWSER ON PC

### Important:

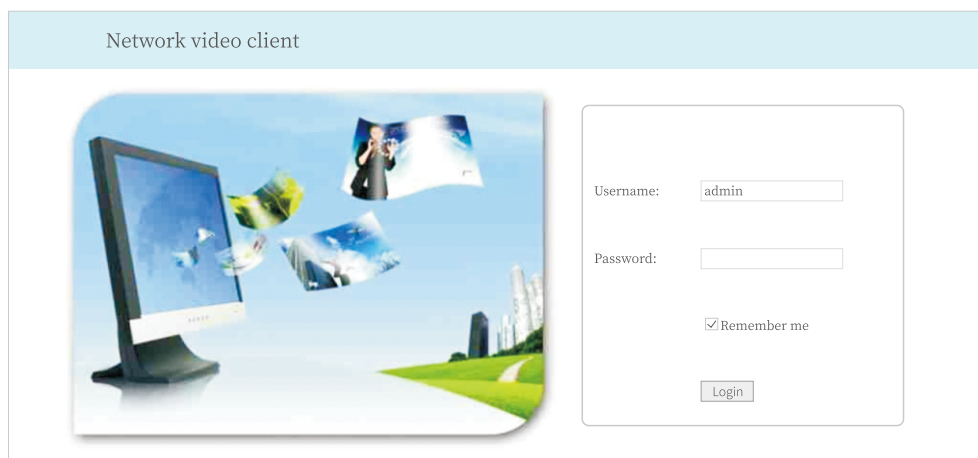
1. The status of the Cloud (P2P) should be **ONLINE**. If it's **OFFLINE**, please insert the Ethernet cable and check it again after 1-2 minutes.
2. Check the **Cloud ID**, **IP address** and **Web port** from the **Network setup** mentioned in the section of **OPERATE NVR SYSTEM WITH A MONITOR** on page 5.
3. **Internet Explorer (IE)** browser is recommended.

### Option 1:

When your PC is connected to the same Router as the NVR's, you can visit the local network to operate.

After getting your **IP address** (e.g. 192.168.32.213), enter it into **IE** browser and log in to the NVR system. Please Install the **Web View Control** after your first login. Changing the Internet setting to allow the installation of the **Web View Control** on some computers is required, please contact us for more information.

Then you can check the live picture of each channel, play the videos recorded ( 📺 ), download the videos recorded, change the settings ( 🛠️ ) and so on.



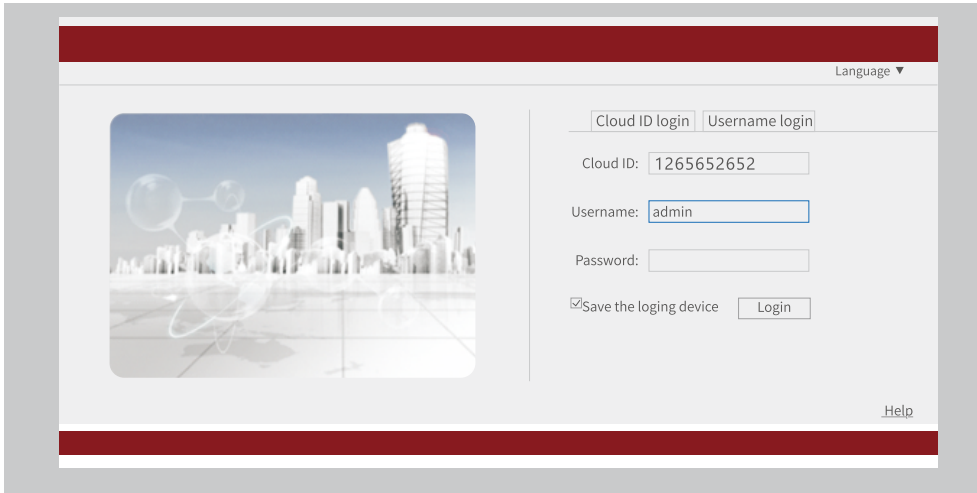
**Tip:**

If the **Web port** (e.g. 80) of your NVR system has been changed to another number, e.g. 1111, please enter **192.168.32.213:1111** into the IE browser.

**Option 2:**

When your PC is connected to a different Router which is not the same as your NVR'S, you can visit the NVR system from Cloud.

After getting the **Cloud ID**, please visit [www.e-seenet.com](http://www.e-seenet.com), then enter the **Cloud ID** (e.g.1265652652) and **Username** to log in to the NVR system. You can only view the live picture from the Cloud in this option.

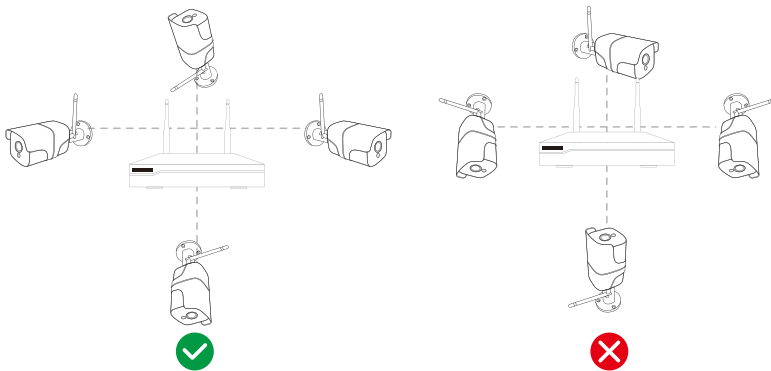


## EXTEND THE WI-FI RANGE

The Wi-Fi signal will be weaker when going through the wall, stairs and other obstacles. However, there are some solutions that may help to extend the Wi-Fi range.

### Adjust the Antennas to the Appropriate Angle

According to the signal transmission character of antenna, it's better to adjust the antennas of the cameras to be paralleled with the antennas of the NVR system when they are in the flat plane, or adjust the antennas of the cameras to be vertical to the antennas of the NVR system when they are in the vertical plane, to receive better signal.

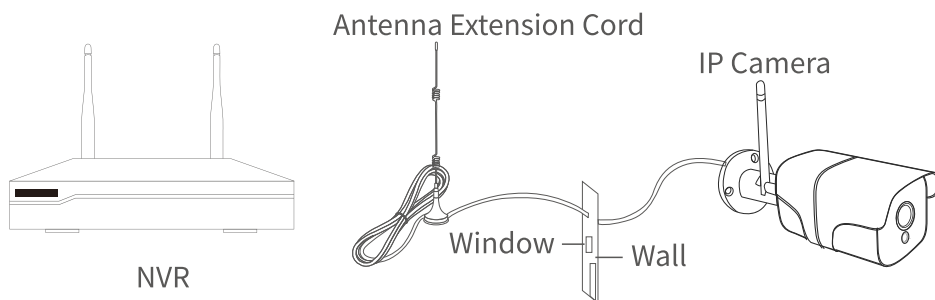


**Tip:**

Place the NVR on the desk and be far away from the devices that are easy to interfere the connection, such as microwave oven, TV, etc.. Make sure the obstacles between the NVR and the cameras are as few as possible.

### Get an extra Antenna Extension Cable with Stand

Take off the antenna of the IP camera, then install the **Antenna Extension Cord** into the IP Camera and put it to the place where the Wi-Fi signal is strong.



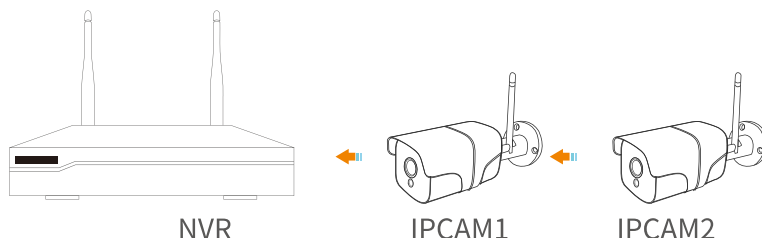
### Get an extra Repeater Device

To extend the Wi-Fi range, you can also install a Repeater device. Please refer to the user manual of the Repeater device you bought for using it.

### Set up Cascading Connection

**Notes:**

1. When the IPCAM2 is installed out of the Wi-Fi Range, but the IPCAM1 with strong Wi-Fi signal (check it from the live picture) or with smooth streaming is between the NVR and IPCAM2, then you can set up the IPCAM1 as a virtual repeater following the steps.



2. This virtual **Repeater** function cannot strengthen the Wi-Fi signal, but just help to extend the Wi-Fi distance by the IP Camera.

**Step 1:**

Right click the mouse to show the **Mebu** bar, then click **Video Manage > Repeater** to enter the **Repeater** setting .

The screenshot shows the 'Video Manage' interface. At the top, there is a 'Protocol' dropdown menu set to 'N1'. Below it is a table with columns: ID, Device name, IP address, Preview, and Protocol. To the right of this table is a vertical menu with buttons: Refresh, Match Code, Auto Add, Modify, and Advanced. Below the first table is a navigation bar showing '< 0 / 0 >'. Underneath, it displays 'Added device: 5' and 'Remaining device: 3'. The main part of the interface is a table with columns: Channel, Device name, IP address, and Status. The table contains 8 rows. The first four rows show 'IPCAM' devices with IP addresses 172.20.14.31, 172.20.14.32, 172.20.14.30, and 172.20.14.33, all with a status of 'Connect success'. The last four rows (Channels 5-8) show 'No video source'. To the right of this table is a context menu with buttons: Delete, Delete All, Manual Edit, Channel Setup, Wifi Setup, and Repeater. The 'Repeater' button is highlighted with an orange border. At the bottom of the interface are 'Ok' and 'Cancel' buttons.

ID	Device name	IP address	Preview	Protocol

< 0 / 0 >

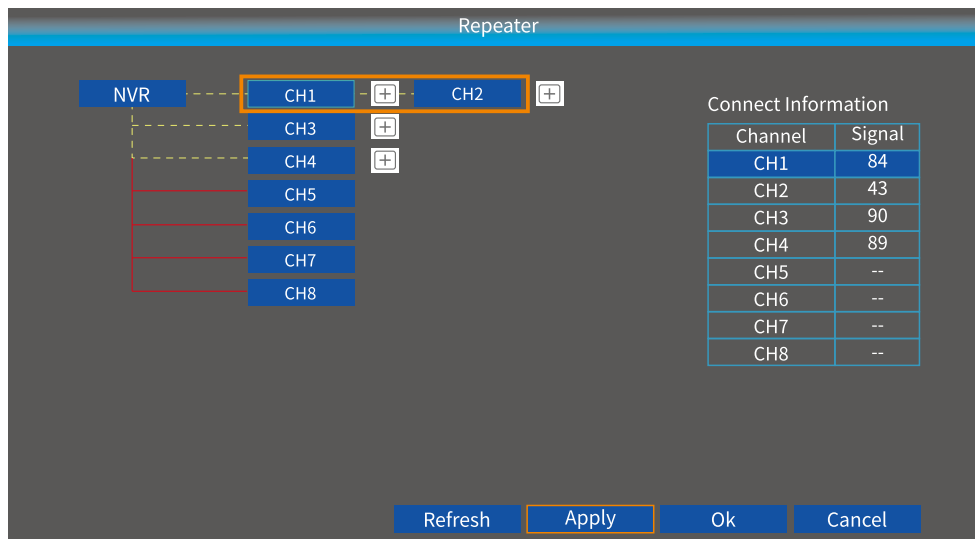
Added device: 5      Remaining device: 3

Channel	Device name	IP address	Status
1	IPCAM	172. 20. 14. 31	Connect success
2	IPCAM	172. 20. 14. 32	Connect success
3	IPCAM	172. 20. 14. 30	Connect success
4	IPCAM	172. 20. 14. 33	Connect success
5			No video source
6			No video source
7			No video source
8			No video source

Ok      Cancel

### Step 2:

Click **+** after CH1/IPCAM1, then select **2** to set IPCAM1 as a repeater. This means CH2/IPCAM2 is connected to the NVR through CH1/IPCAM1.



### Step 3:

Click **Apply** to finish the cascading connection. To check if it's set successfully, please click **Refresh**. To delete the **Repeater**, left click on the selected channel, then click **Apply** and **OK**.

## ADD A NEW IP CAMERA TO THE NVR SYSTEM

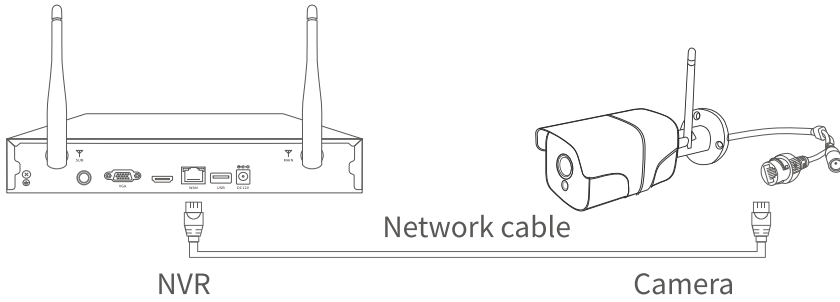
When you need to add a new IP Camera to replace the original one, please follow the steps below.

### Step 1:

Plug the power adapter into the new camera and socket;

### Step 2:

Plug the Ethernet cable into the NVR system and the camera;



**Step 3:**

Right click the mouse to show the **Menu bar**, then select **Video Manage**.

**Step 4:**

Delete the original camera by selecting it from the **Added device** list and clicking the **Delete** button.

Video Manage

Protocol N1

ID	Device name	IP address	Preview	Protocol

Refresh

Match Code

Auto Add

Modify

Advanced

< 0 / 0 >

Added device: 5 Remaining device: 3

Channel	Device name	IP address	Status
▲ 1	IPCAM	172. 20. 14. 31	Connect success
2	IPCAM	172. 20. 14. 32	Connect success
3	IPCAM	172. 20. 14. 30	Connect success
▼ 4	IPCAM	172. 20. 14. 33	Connect success
5			No video source
6			No video source
7			No video source
8			No video source

Delete

Delete All

Manual Edit

Channel Setup

Wifi Setup

Repeater

Ok Cancel



### Step 5:

Click **Refresh** to show the new IP camera, select it, then click the **Match Code** to add the new camera automatically.

The screenshot shows the 'Video Mangle' interface. At the top, there is a 'Protocol' dropdown menu set to 'N1'. Below it is a table with columns: ID, Device name, IP address, Preview, and Protocol. The first row contains: 1, IPCAM, 172.20.14.33, an eye icon, and N1. To the right of this table is a vertical menu with buttons: Refresh, Match Code, Auto Add, Modify, and Advanced. Below the table is a status bar showing '< 0 / 0 >'. Underneath is another table with columns: Channel, Device name, IP address, and Status. The first three rows show channels 1, 2, and 3 with device names 'IPCAM' and IP addresses '172. 20. 14. 31', '172. 20. 14. 32', and '172. 20. 14. 30', all with a status of 'Connect success'. Channels 4 through 8 have no device name or IP address and a status of 'No video source'. To the right of this table is another vertical menu with buttons: Delete, Delete All, Manual Edit, Channel Setup, Wifi Setup, and Repeater. At the bottom of the interface are 'Ok' and 'Cancel' buttons.

ID	Device name	IP address	Preview	Protocol
1	IPCAM	172.20.14.33		N1

< 0 / 0 >

Channel	Device name	IP address	Status
1	IPCAM	172. 20. 14. 31	Connect success
2	IPCAM	172. 20. 14. 32	Connect success
3	IPCAM	172. 20. 14. 30	Connect success
4			No video source
5			No video source
6			No video source
7			No video source
8			No video source

### Step 6:

After matching successful, the added camera will be showed in the **Added device list**.

## TROUBLESHOOTING GUIDE

### Q. There is no live picture sometimes.

- It may be caused by the poor network due to Wi-Fi interference, obstacle blocking and so on.
  1. When you are viewing the live picture from the Cloud, please make sure the network connection between the NVR and router works well. At the same time, make sure the router provides enough upload bandwidth. To improve the quality of network, you can reboot the router regularly.
  2. When you are viewing the live picture from the same network as your router's, please make sure the network connection between the camera and NVR works well. You can check the quality of the Wi-Fi signal from the live interface.
    - \* If the Wi-Fi signal is good but the live picture of all the channels still buffers and lags, another device may interfere the connection between the NVR and cameras. Please try to get rid of it or change the Wi-Fi channel from **System Setup > Network Setup > Wifi Setup > Wifi Channel**.
    - \* If the Wi-Fi signal of one channel is poor, move the camera close to the NVR to check whether the strength of Wi-Fi signal is stronger and make sure the antenna of the camera is fixed well and pointed at the right direction. If the Wi-Fi signal of all channels is poor, please slowly move the antennas of the NVR until they point at the right direction as mentioned in the section of **Adjust the antennas to the appropriate angle** from page 20.

If you need more help, please feel free to contact us at [support@toguard.cc](mailto:support@toguard.cc)

Q . There is no live picture when using a browser to log in to the NVR.

- Please go to **System Setup > Network Setup > Web port** to check whether the **Web port** has been changed from **80** to another number, e.g. **1111**. If yes, input the **IP address** and **:1111** into IE to visit. For example, the IP address is **192.168.251.106** and the **Web port** is **1111**, then please input **http://192.168.251.106: 1111**.
- Make sure you have installed the **Web View Control** correctly on your IE browser.

Q . Can I add the extra new camera?

- The camera with the same brand is recommended when you'd like to add more cameras. To get the link of buying camera and the detailed guide for adding the camera, please contact us at [support@toguard.cc](mailto:support@toguard.cc)

Q . What should I do if I remove a camera from the NVR system?

- The steps to add it again are the same as adding a new camera mentioned in the section of **Add a New IP Camera to the NVR System** on page 23. Find the camera that matches with the deleted channel, connect it to the NVR with the Ethernet cable, then go to **Video Manage > Auto Add** to add it.

## Q . How long is the storage time of the Hard Disk Drive?

- The example below is for an average data rate 512Kbps and 4 cameras. The capacity of storing the video for one day (24 hours) is around 21.09GB

based on the formula below:

$$512(\text{Kbps}) * 3600(\text{seconds per hour}) * 24(\text{hours per day}) * 4(\text{Channels}) =$$

$$176,947,200\text{Kbit}$$

$$176,947,200\text{Kbit} = 22,118,400\text{KB}$$

$$22,118,400\text{KB} = 21,600\text{MB}$$

$$21,600\text{MB} = 21.09\text{GB}$$

If you have a 1TB Hard Disk Drive, the capacity of it after formatting is around 921GB.

The storage time is around 43 days ( $921\text{GB}/21.09\text{GB} \approx 43$ ).

However, the data rate of the camera is **Variable Bitrate** which depends on the surveillance environment. If there are many moving objects in the live picture, the data rate will be faster. Go to **System setup > Channel setup** to check it, then use the formula mentioned above to calculate it.

**Q6. NVR system cannot detect the Hard Disk Drive.**

- Make sure the NVR works well.
- Make sure the power cable and SATA cable of the Hard Disk Drive are connected correctly and firmly.
- Try another Hard Disk Drive.
- The Hard Disk is a consumable. The Hard Disk Drive with brand and for 24/7 surveillance is recommended. Make sure you back up the important videos timely for safety.

**Q7. What should I do if I forget the password for logging in to the NVR?**

- Please send us the time (e.g. 2019-03-20 23:59:57 WED) displayed on the live picture of the channel. The server will generate a temporary password which is only valid for 15 minutes. Toguard support team will send you the password.

#### Q8. No display on the Monitor of the NVR system.

- This might be mainly caused by resolution compatibility. The default resolution of the NVR is 1280\*1024, which may not be compatible with some monitors. Here are the steps for solving the issue:

##### **Step 1:**

Connect the NVR to any other monitor via the VGA output (or you may also try any other monitor via the HDMI output to see if you can enter the **Menu** bar of the NVR);

##### **Step 2:**

When you are able to see the menu, please go to **System Setup > General Setup > Screen Setup > VGA resolution** to change the resolution to **1024\*768**, then click **Apply**.

##### **Step 3:**

Connect the NVR to your primary screen via the HDMI output again to check the display.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference,
- (2) this device must accept any interference received, including interference that may cause undesired operation.







