

**Wireless Kit**

**User manual**

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## 1. Safety Cautions

- Please do not put any fluid container on the product.
- Please use the product in ventilated environment and prevent blocking the vents.
- Please use included power supply with the product to prevent damage to the product.
- Please use the product under its standard working temperature and humidity.
- Dust on PCB may cause short circuit, it is suggested to clean the dust on PCB timely.
- Please obey the regulation and policy in your country and area during the installation of this.

## 2. Out of Box Audit & Hardware Description

No	Item	Quantity
1	Wireless NVR	1 pcs
2	DC 12V2A power supply (for NVR)	1 pcs
3	User manual	1 pcs
4	Wireless IP Camera	4 pcs
5	DC 12V1A power supply (for IPC)	4 pcs

### Before Installation

This product may require cabling, we suggest to test all products & parts before installation and cabling.

## 3. NVR

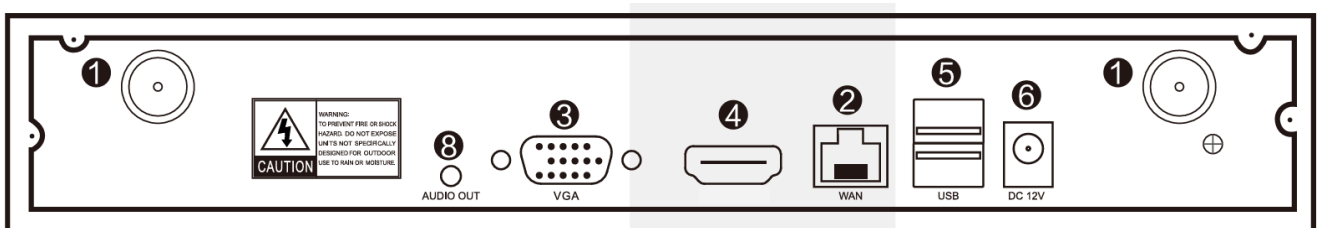


Fig. 2. NVR

- |   |                                     |
|---|-------------------------------------|
| 1. Wireless Antenna Ports: Double antennas to Wireless range. | 4. HDMI Port: For viewing on HDTV.  |
| 2. WAN Port: Connect your NVR to Internet.                    | 5. USB Ports: For mouse and backup. |
| 3. VGA Port: For viewing on VGA monitor.                      | 6. Power Input.                     |

## 4. IPC

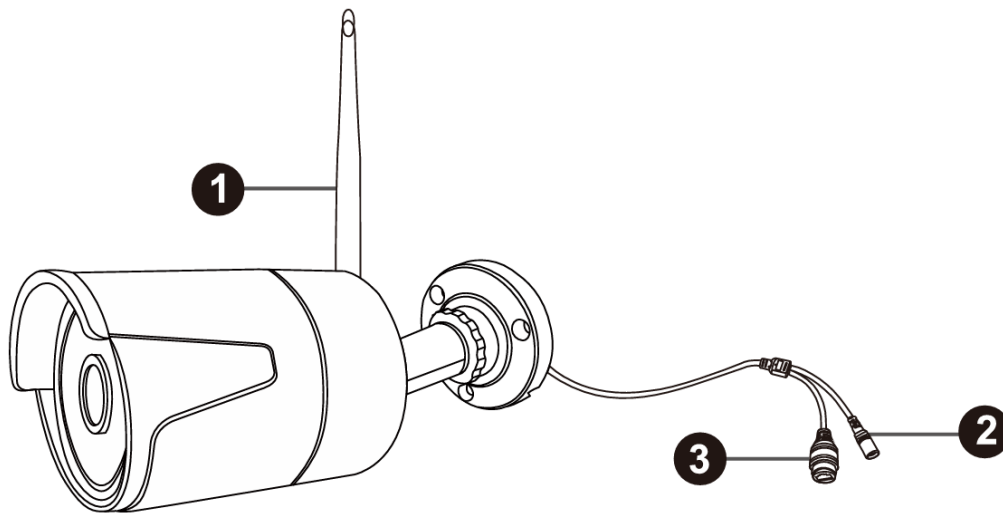


Fig. 3. IPC

1. Wireless antenna.
2. DC Port (Input power 12V 1A).
3. RJ45 Port (For matching code and wired connection between IPC and NVR).

Anyway, there is range limitation for the wireless signal from NVR. When cameras are out of this range, they can't be connected to NVR wirelessly. Then users can use network cable to connect cameras and NVR.

## 5. Installation instruction of wireless NVR Kit

Note: Wireless NVR can't be connected to wireless router wirelessly at present. They can be only connected by network cable.

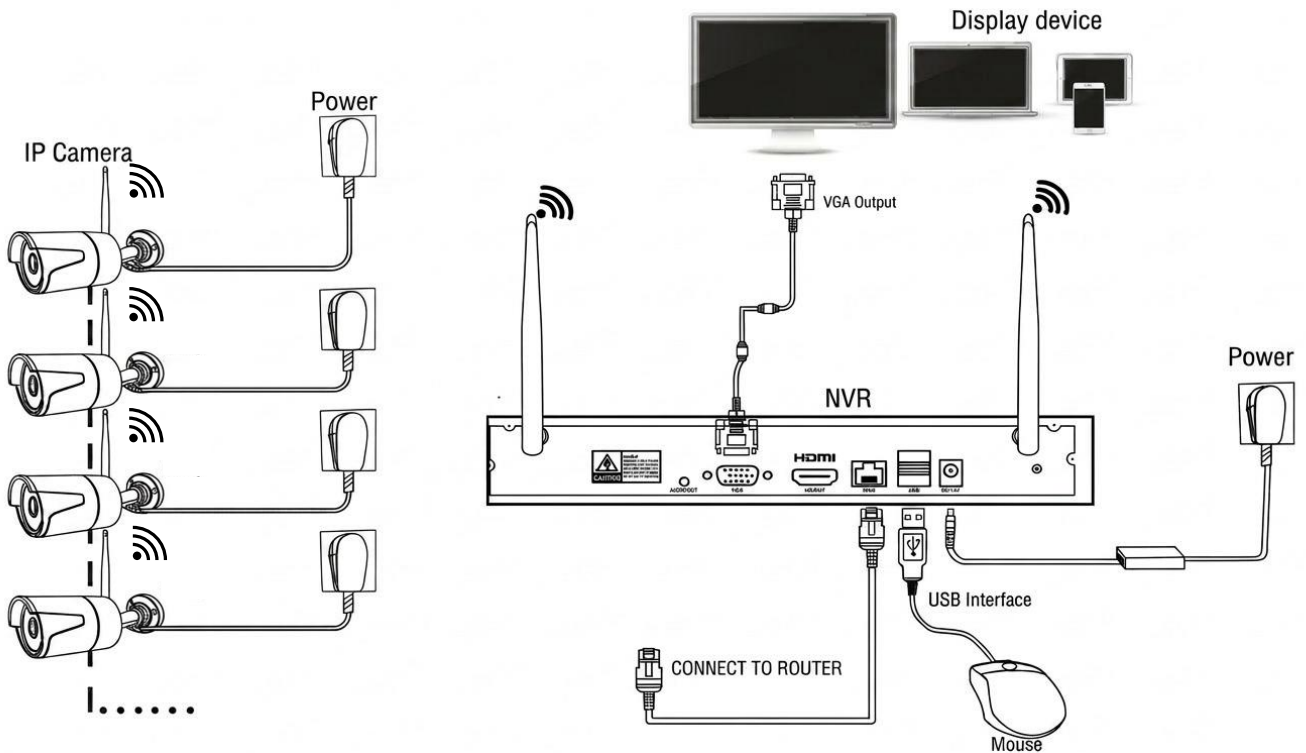


Fig. 4. Connection scheme

## 6. Setup the system

This system is standalone with embedded Linux Operating System in the NVR. Just like a desktop PC, need to hook a screen to the NVR to enter the OS. Any TV, monitor with VGA or HDMI input should work for it.

1. Install antennas for cameras and the NVR.
2. Connect a screen to the NVR via its HDMI or VGA port (HDMI and VGA cable not included).
3. Plug the NVR to power (use bigger 12V 2A power adapter).
4. Plug cameras to power (use smaller 12V 1A power adapters).
5. Within seconds, you should see camera's images on the screen.
6. Plug the mouse (included) to an USB port on back of NVR. You shall then be able to operate on the system.

In the OS you can find fullest functionalities including live view, record, playback, video backup and all settings.

## 6.1. HD Install

The system may not include hard disk depending on the kit you selected. the NVR works most 3.5" SATA HDD or 2.5" SATA HDD



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



Connect the SATA power and data cables from the NVR to the corresponding ports on your HDD (as shown).



Holding the hard drive and the DVR 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 and assemble the cover.

Fig. 5. HD installation

**Note:** New HDD have to be formatted before recording. To get better Wireless signal, it had better place the NVR in open area and high position.

## 7. Wireless configuration

Wireless NVR supports wired internet and wireless Internet two ways to access the Internet (supported by some models). The two Internet access modes are set as follows:

1. Wired configuration: Connecting NVR with network cable to the router will automatically obtain network settings for automatic internet access. When the network cable is plugged in, NVR will give priority to wired internet access.
2. Wireless configuration: right-click mouse--wireless configuration, click on the wireless code to pair, then the image will be automatically shown after pairing successfully.

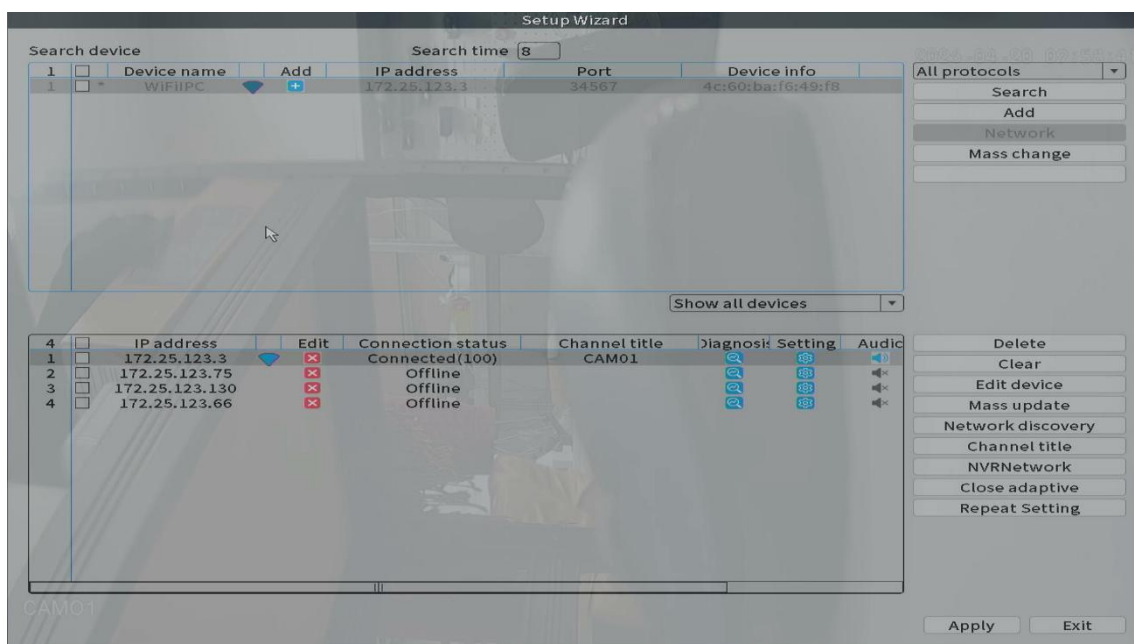


Fig.6. Wireless configuration

## 8. Record setup

The factory setting defaults to full-day recording. If you need to customize the recording type, you can refer to the following settings:

- Regular recording: all-day recording, including detection recording and alarm recording
- Detection recording: Only when a moving object or human form is detected, then the recording will be performed. Check the detection option to enable.
- Alarm recording: Only when an alarm is triggered, the video will be recorded. Check the alarm option to enable;

**Note:** Users can setup any period of time they want, for example 0:00:00-23:59:59, That's 24 hours 7 days recording. When NVR detects hard disk, the default setting will be 24 hours 7 days recording.

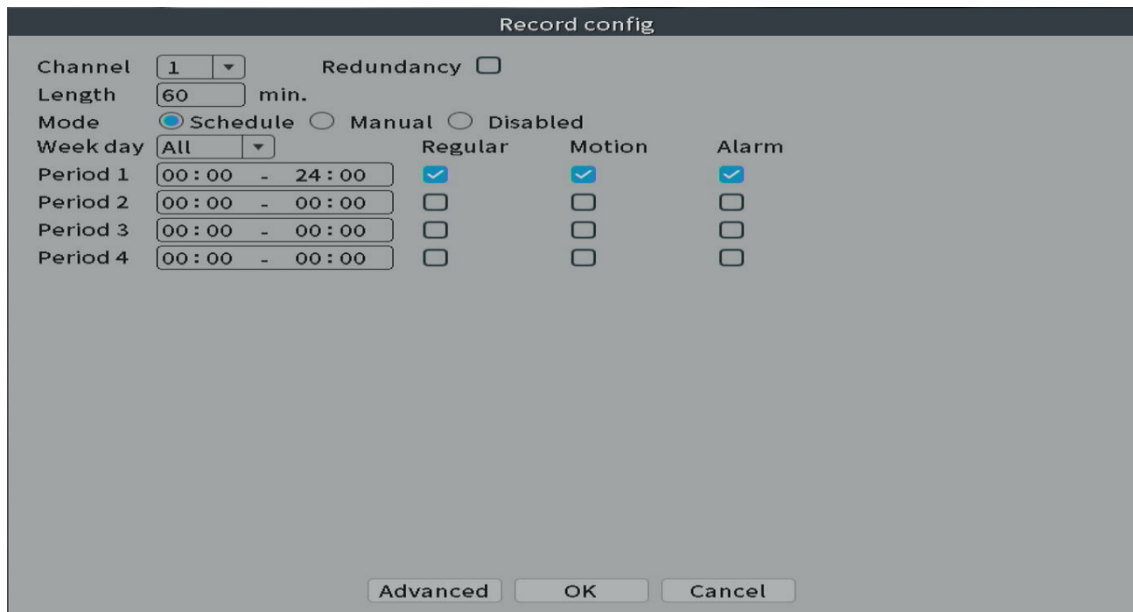


Fig.7. Record setup

## 9. Record playback

Steps: Right click on the Main interface-Playback → choose date, channel, record mode click Search then can view playback file.

Warm prompt:

- Illustration for playback button: ▶ play, || pause, ⏩ fast forward x2,x4,x8;
- Play file: Choose the recording file in file list, as number shown in picture. Choose one of the recordings, click "play" to play to recording file;
- Video backup: Choose the recording file in file list, as number shown in picture. Insert the U flash disk, click "video backup" to backup the file;
- Timeline: click "date" and "time" at left bottom to check the timeline of recording, show number shown in picture;
- On the timeline with recording file, left click the mouse, then can playback the file.

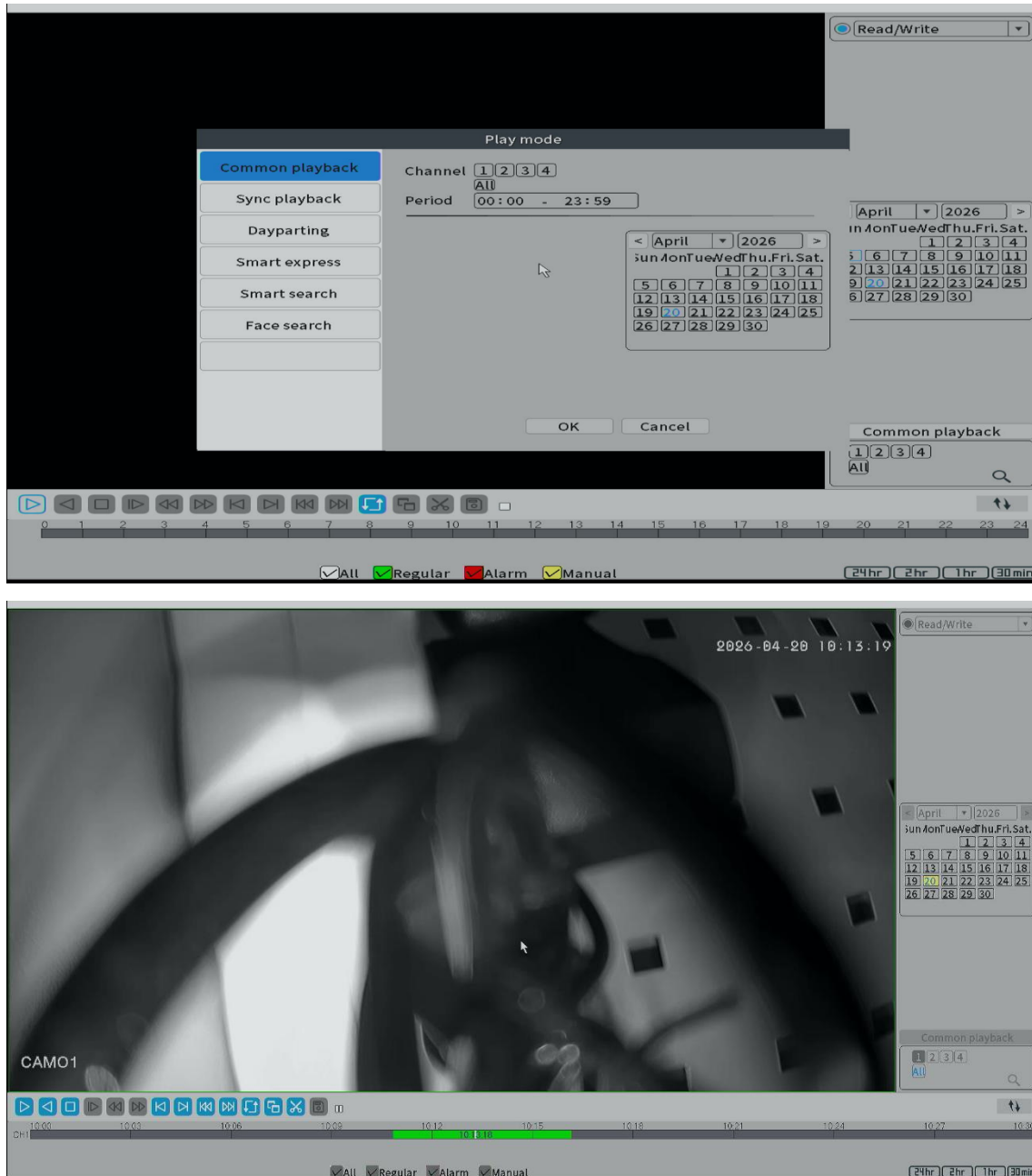


Fig.8. Record playback

## 10. Record backup

Use U disk to copy video, so easy and convenient!

- Main Menu-System→"Record backup" insert U disk click "detect"> after detecting U disk→"select backup"> select "type"→" channel"→ "start time"→" end time "and" backup format", then you can start to backup.

TAPS: when you backup failed, please check if your U disk is FAT32 format, NVR only support FAT32 formate U disk.

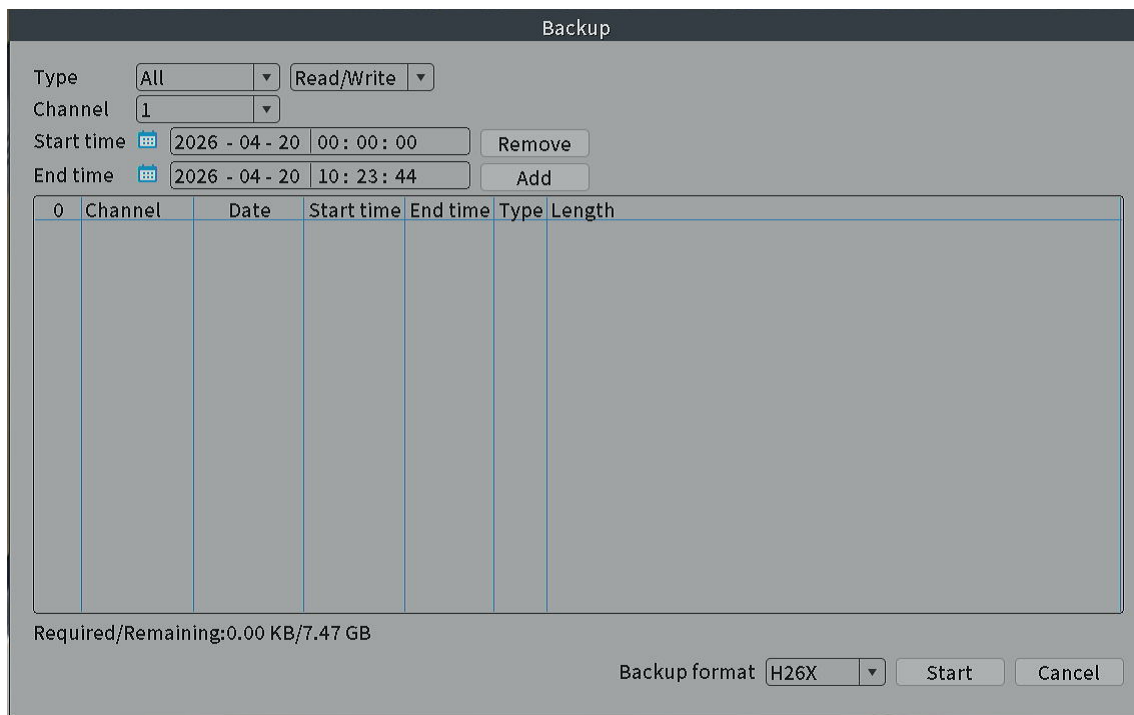


Fig.9. Record backup

## 11. View on mobile

1. Download the App: Android and iOS users can download the "Partizan" app from Google Play or the App Store.
2. Launch the Setup Wizard: Scan the QR code located on the packaging to launch the step-by-step configuration wizard.



Fig. 10. Wizard access

3. Connect the NVR: Once the QR code is scanned, follow the on-screen instructions to pair your NVR with the app

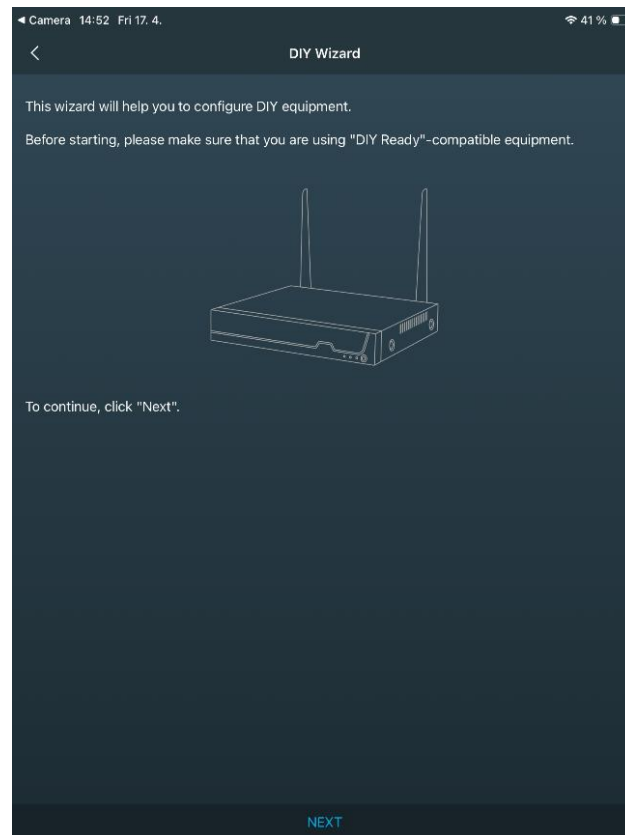


Fig. 11. DIY Wizard

4. Automatic Camera Sync: After the NVR is successfully connected, it will automatically detect and link all cameras to your account.

Run "Partizan" app, log in your account > click '+' to scan the device ID QR code to add the device (Move the mouse to the top of the real-time preview interface to display the device's QR code), device description (my device name), user name (default user name is admin) and password (default password is empty) → click device to start previewing video.

Tips: If you've set a password on your NVR system, please update your password on APP to view.

## 12. Detailed introduction

### **Menu bar**

Click right button you can enter the main menu, click right button again you can exit the current menu or return

- Main menu: click the main menu to enter the specific menu interface and configure the function parameters.
- Startup Wizard: Follow the boot wizard prompts to set basic functions for wifi NVR.
- Wireless: Fast wireless code pairing.
- Record mode: Record mode selection.
- Playback: Playback the recorded video.
- IPC param: View specific IPC parameters.
- PTZ control: Zoom, focus, preset, tour (only applied to the PTZ camera).
- Face detection: Quickly open and close the face detection display frame.
- HighSpeedPTZ: After selection, the channel image will display full screen, hold down the left mouse button to control the Pan & Tilt for rapid rotation positioning, and then slide the mouse wheel to magnify (only applied to the PTZ camera).
- Color setting: Image brightness, contrast, saturation and other color adjustments.
- Output Adjust: Adjust the image style, output volume, margin.
- Logout: Shut down, log out, reboot.
- Single screen: Single-screen preview.
- Four-screen: Four-screen preview.

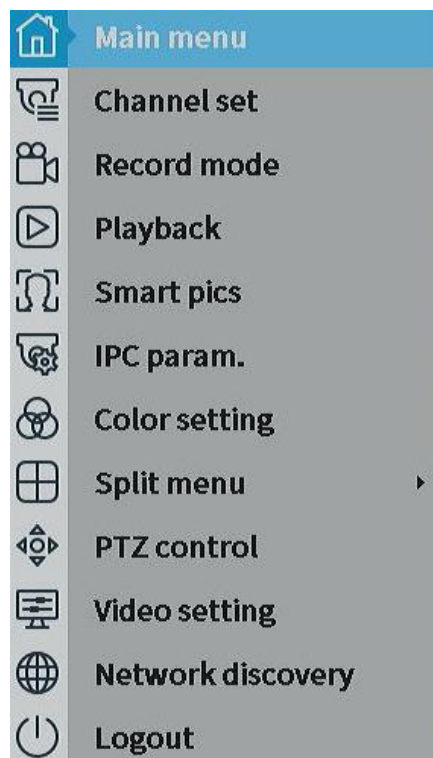


Fig. 10. Menu bar

## 13. Face detection

The device supports Wi-Fi IPC with face detection function (it has to cooperate with XM Wi-Fi IPC to use), then you can view the detection result on the real-time preview interface.

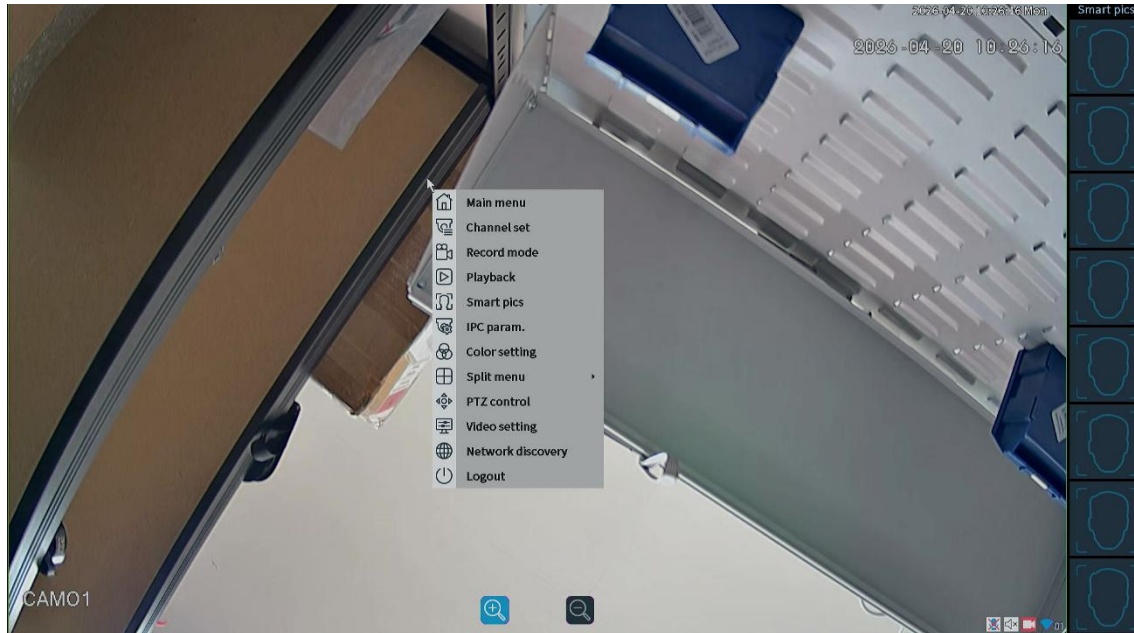


Fig. 11. Face detection

## 14. Expand wireless coverage

Wireless connection is simple and convenient, but wireless is not everything! Because of the wireless characteristics, in some complex scenarios, there is a signal attenuation situation after passing through obstacles. By placing the antenna reasonably, using camera cascade, can bypass obstacles and extend the signal transmission distance.

### **Note:**

- The wireless repeater cannot enhance the signal strength of the wireless NVR kit, but can extend the distance of the signal relay or turn;
- Only when the repeaterd and repeaterd cameras are properly placed can the purpose of increasing the wireless transmission distance be achieved;
- Manual repeater settings need to ensure that the wireless connection is unblocked In order to ensure the success of the setup, it is recommended to determine the repeater solution according to the actual use scenario and place the camera near the NVR and set the repeater before installing the camera.

### 14.1. Reasonably adjust the antenna and optimize the signal radiation direction

As can be seen from the bar antenna gain chart as shown on the right, the signal coverage of the antenna is similar to an apple. The antenna is located in the center of the apple, and the signal around the antenna is strong. The upper and lower ends of the antenna are recessed, and the signal is weak.

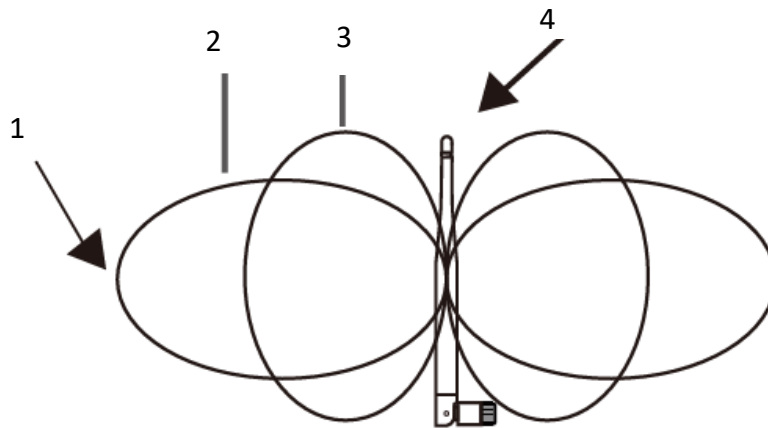


Fig. 12. Relationship between rod antenna gain and coverage

- |                          |                           |
|--------------------------|---------------------------|
| 1. Best signal direction | 3. 3dB                    |
| 2. 5dB                   | 4. Worst signal direction |

According to the signal transmission characteristics of the antenna, in order to ensure the optimal image transmission effect of the wireless NVR Kit, it is required:

1. The antennas of the NVR and IPC should be placed in a high and open place, and not near the walls, metal, glass and other obstacles, which will affect the signal's outward divergence.
2. The antenna of the IPC should be placed in parallel with the NVR antenna as much as possible so that the respective maximum radiation direction angles are opposite to form the maximum signal coverage, as shown in the figure below.

### 14.2. Repeat setting interface description

There are three Repeat Mode: AutoRepeat, OpenRepeat, CloseRepeat. Under normal circumstances, it is recommended to set to AutoRepeat mode. Repeat Mode can be set in the pop-up option box when clicking the corresponding IPC, ✓ mean the IPC's current Repeat Mode: as shown.

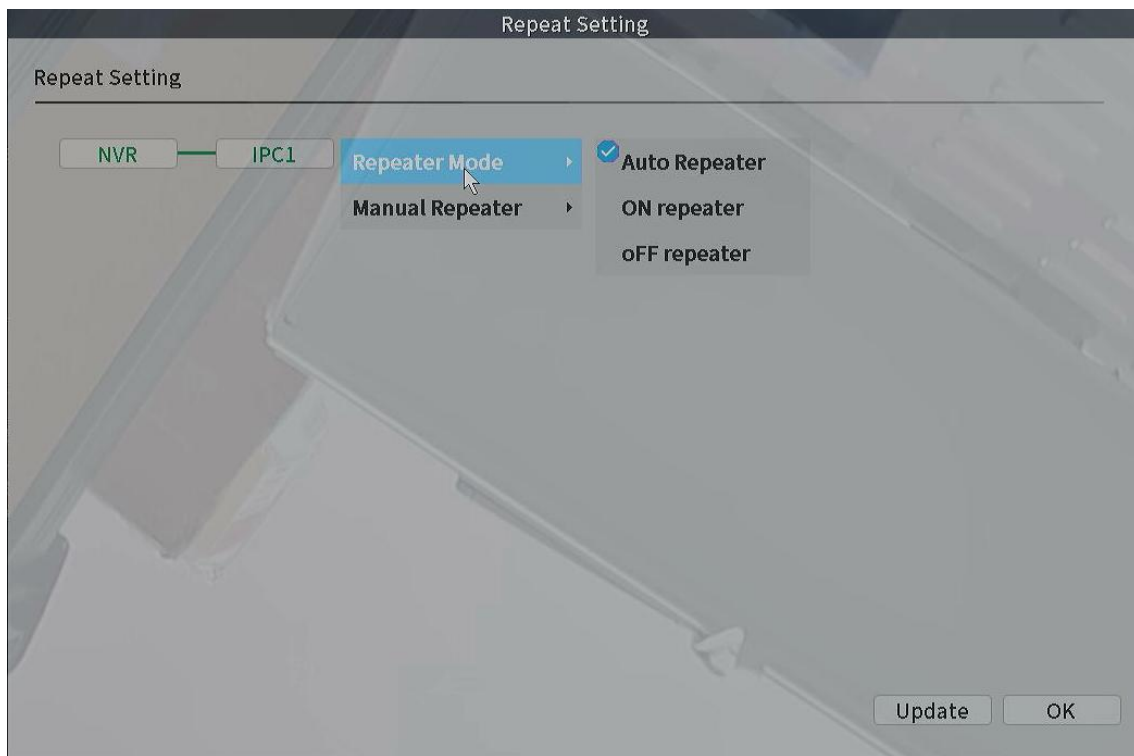


Fig. 14.Repeat Set

**AutoRepeat:** In AutoRepeat mode, at most two levels of repeat can be realized, NVR->IPC1->IPC2. The IPC device connected to the NVR will automatically turn on the repeat function. If the repeat function is turned on, the corresponding IPC font is green (IPC1), and the device connected to IPC will not enable the repeat function. If the repeat function is not turned on, the corresponding IPC font is white (IPC2, that is, the device cannot be repeated after IPC2).

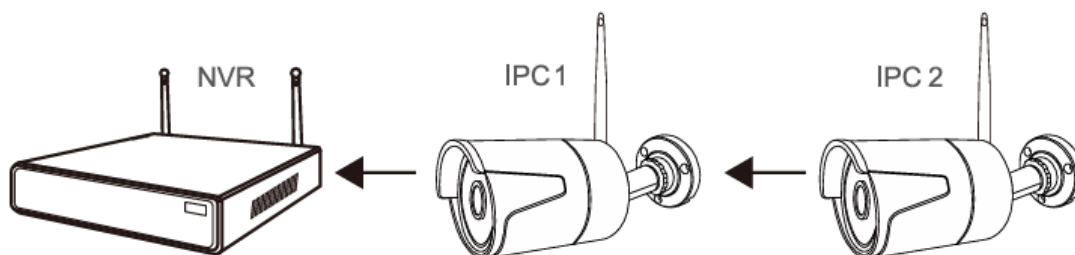


Fig. 15. Levels of repeat

**OpenRepeat:** This mode will forcibly open the repeat mode (restart is still maintained). This mode is used for three-level or above repeat. It is not recommended to turn on this mode because the transmission load of the WIFI module during the three-level or above repeat is big.

**Close Repeat:** This mode will forcibly close the repeat mode (restart remains), this mode is used when there is a complex environment, IPC may be repeated to an undesirable IPC, at this time you can turn off the repeated Equipment to prevent wrong repeat (or use forced connection function).

## Contacts:

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