

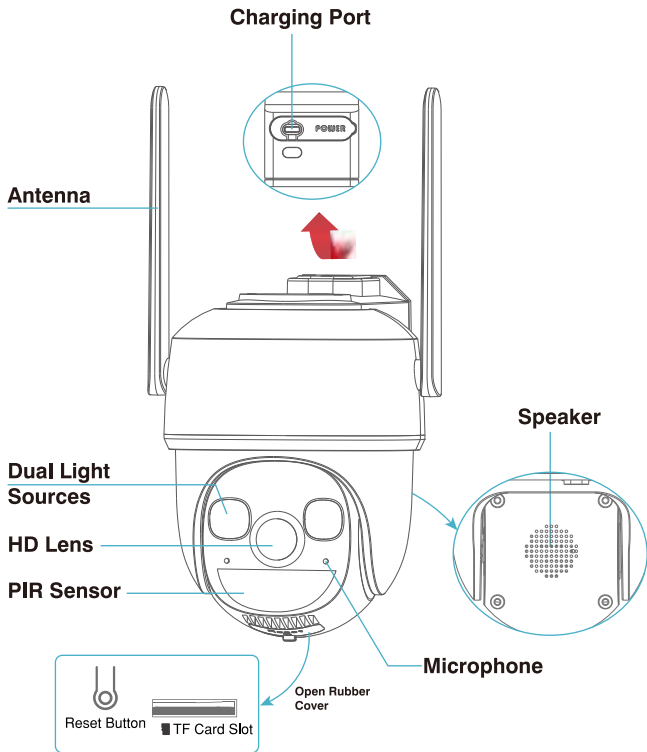


NVR
User Manual

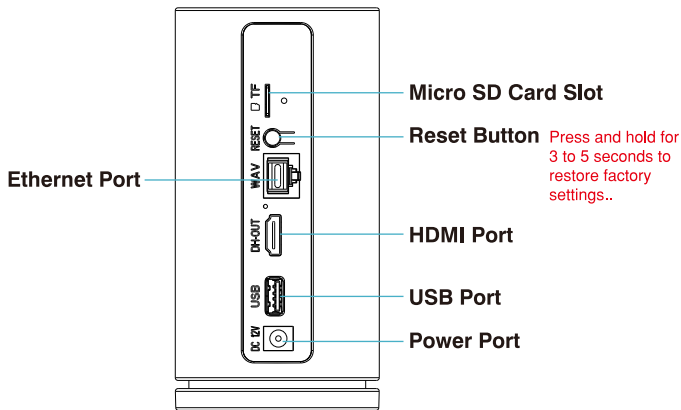
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Product Overview



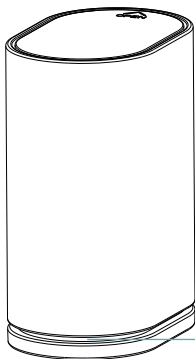
Press and hold Reset Button for 5s to restore factory settings.



Port and Button

Name	Functions
Power Port	DC power input.
USB Port	Connect a USB mouse.
HDMI Port	Connect to a monitor via an HDMI cable, supports 2K/4K video output.
Ethernet Port	1 × 10/100M Ethernet port for network connection.
Reset Button	For factory reset. Press and hold for 3–5 seconds to restore factory settings.
Micro SD Card Slot	1 slot, supports 32G/64G/128G/256G/512GB.

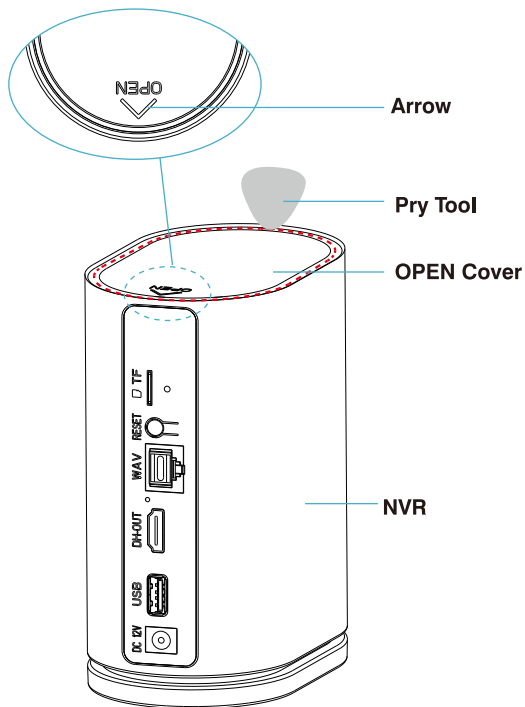
LED Status Definition



**Blue & Green
Dual-Color Indicator**

No.	Description	LED Status
1	Firmware upgrade	Flashes blue and green rapidly alternately
2	Powering on	Solid green
3	Network configuration	Flashes blue slowly
4	Normal network status	Solid blue
5	<ul style="list-style-type: none">•Abnormal network status;• IPC fails to connect to WiFi via Bluetooth network configuration;• IPC is connecting to WiFi via Bluetooth network configuration;• Normal network status, but the NVR is not bound to the App.	Flashes green slowly
6	<ul style="list-style-type: none">• No TF card/hard drive inserted;• TF card/hard drive malfunction;• TF card/hard drive read/write error.	Flashes green rapidly

Install a SATA Hard Drive



Pry Tool Usage

1. To install a SATA hard drive, insert the pry tool into the slot on the top of the NVR (any position along the red dashed line), gently pry open the OPEN cover.
2. After installing the SATA hard drive, align the arrow-marked end of the OPEN cover with the corresponding position on the NVR as shown, then press to secure it into place. Do not install in reverse.
3. Ignore this if you do not need to install a SATA hard drive.

App Download and Setup

App Download

Download the **OKAM Pro** app from the App Store (for iOS devices) or Google Play (for Android devices). When registering an account, tap "Skip" to bypass all cloud-based ads. All video recordings from cameras paired with the NVR will be stored locally on the NVR itself.



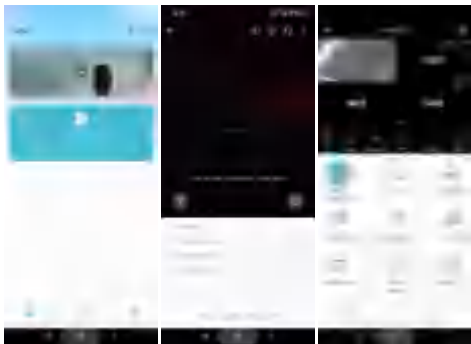
Notes:

- Connect the NVR to your router during initial setup.
- Place the camera near the NVR (within 1 meter).
- Complete system setup in the app before installing the camera.
- Enable Bluetooth on your phone before connection.

Add NVR via App

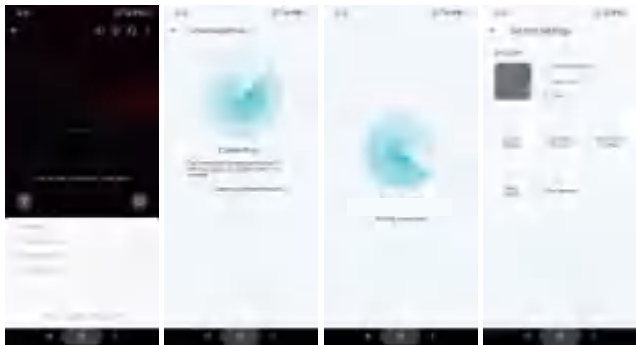
1 Add via QR Code Scan

Open the app, tap the "+" icon in the top-right corner, scan the QR code on the NVR, and follow the on-screen instructions to add the device. Note: Please scan the QR code on the NVR, not the camera.



2 Add via Bluetooth

Before connecting, please make sure Bluetooth is enabled on your phone. On the app homepage, tap the "+" icon in the top-right corner. After automatic searching, select the detected Bluetooth device to add.



Add Camera to NVR

The NVR supports both Ethernet and WiFi connection. Please configure according to your actual needs. If camera signals are weak (offline, limited access, frozen video), we recommend switching to an Ethernet connection.

Once the device is added and WiFi is selected, you may disconnect the NVR from your router. All included cameras are pre-paired with the NVR before shipment. If any camera disconnects unexpectedly, repair it to the NVR: On the NVR kit page, tap "+" to add a sub-device and pair the camera.

Note: Before pairing, check the camera addition interface on the NVR.

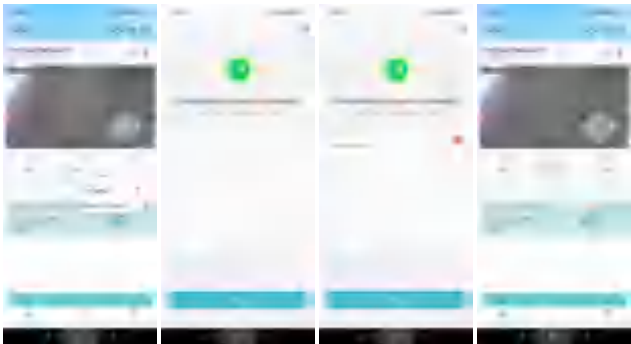
If all channels CH1 – CH6 display device information, all channels are occupied and no additional cameras can be added. If channels are full, delete unused channels first, then pair as instructed.

1 One-Click Pairing

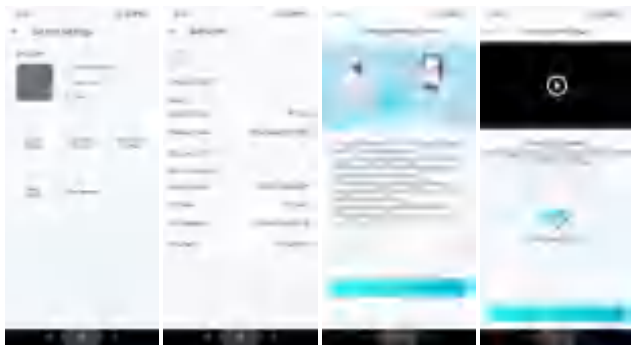
Step 1: Press and hold the reset button for 5 seconds to reset the camera.



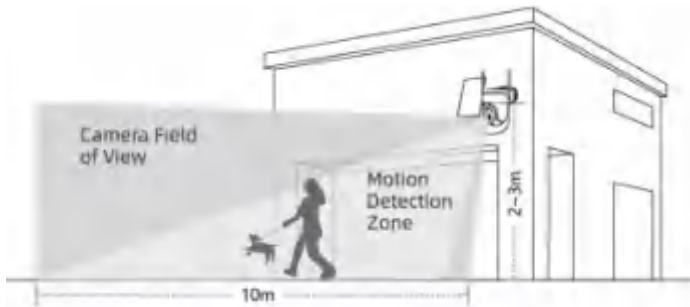
Step 2: On the app home page, tap "..." on the far right and select "Add sub-device" to enter the adding interface. The camera will be automatically searched and added to the NVR. Tap "Done" after the camera is added.



- 2 Find a suitable location before installing the camera. To determine the installation position, you need to test the wireless signal strength. In the app, go to Camera Settings > Health > Test WiFi. Bring the camera and your phone to the desired installation spot to check the signal. If the wireless signal is weak, move the camera closer to the NVR.



- 3 Mount the camera at a height of 2–3 meters (7–10 feet) above the ground for optimal motion detection performance. Avoid installing the camera near areas with strong air movement, such as air conditioner vents, equipment cooling vents, fans, or curtains.



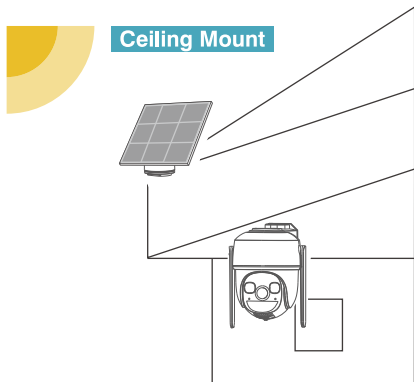
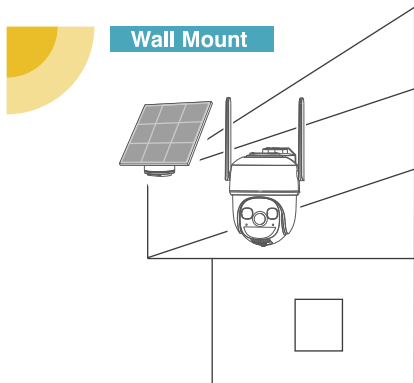
- 4 To ensure that no detection is missed, do not install the camera directly facing the monitoring area. Instead, maintain an angle to avoid any potential blind spots.

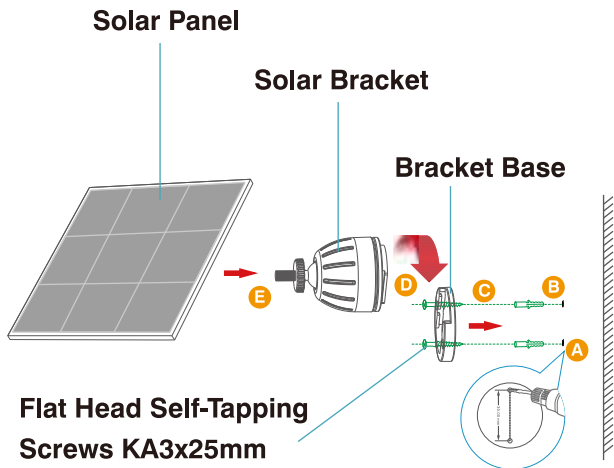


Solar Panel Installation

1-1. Install the Camera and Solar Panel Separately.

If the camera is shaded, mount the solar panel independently. The camera can be wall-mounted or ceiling-mounted.

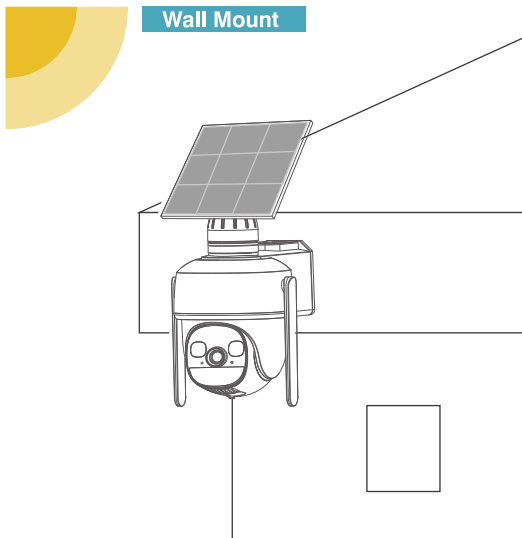


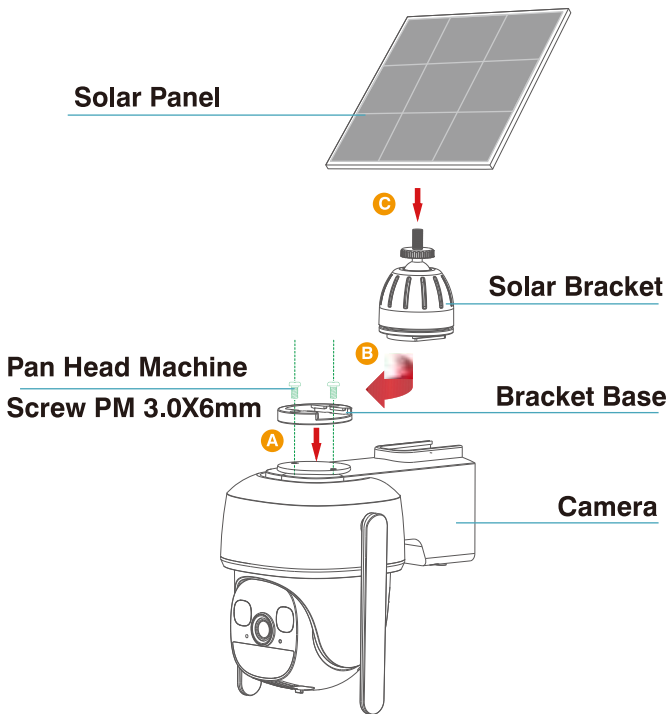


- A** Locate and drill holes
- B** Install wall plugs
- C** Install the bracket base and secure with screws
- D** Slide the solar bracket onto the bracket base
- E** Install the solar panel

1-2. Install the camera and solar panel as a single unit.

The integrated installation is for wall mounting only.

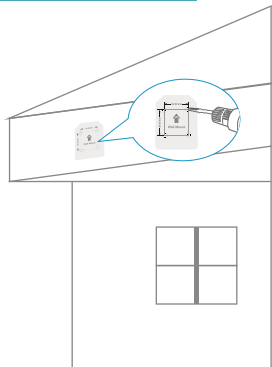




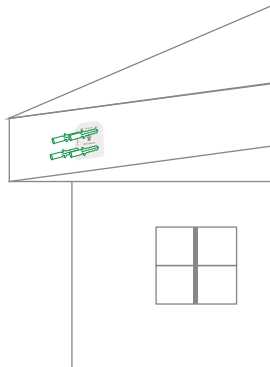
- A** Install the bracket base and secure with screws
- B** Slide the solar bracket onto the bracket base
- C** Install the solar panel

Camera Installation

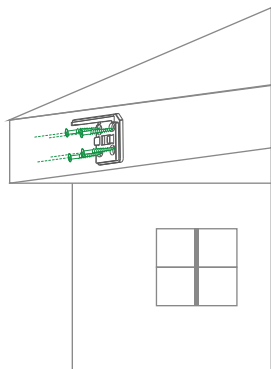
Wall Mount



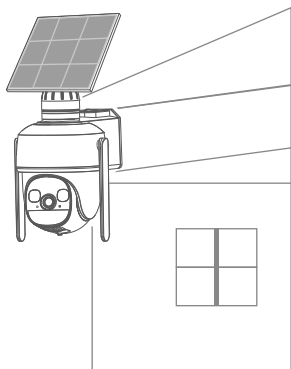
1 Locate and drill holes



2 Install wall plugs

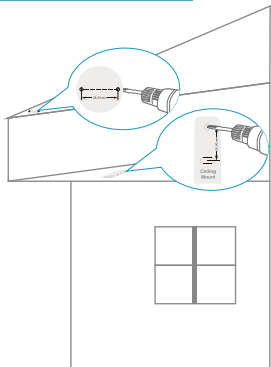


3 Install the bracket and secure with screws

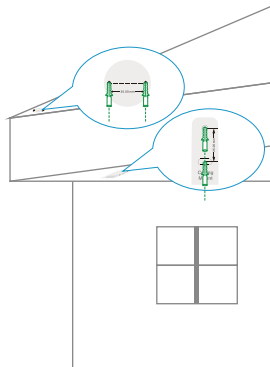


4 Mount the camera

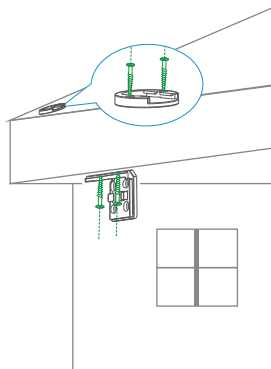
Ceiling Mount



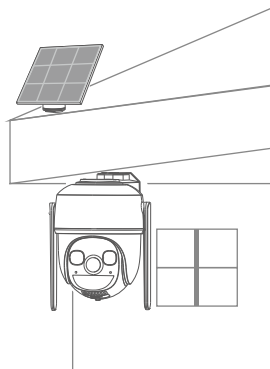
1 Locate and drill holes



2 Install wall plugs



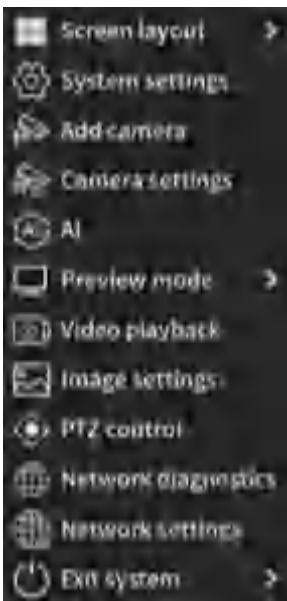
3 Install the bracket and secure with screws



4 Install the solar panel

5 Mount the camera

Software Menu



Screen Layout: Adjust the screen layout to view single or multiple camera views.

System Settings: Manage all system related settings.

Add Camera: Directly navigate to the camera adding page to add cameras.

Camera Settings: View the settings of the added cameras.

AI: Performs back-end face recognition, face detection, create face picture library, and search for face events.

Preview Mode: Includes normal mode and AI mode; AI mode displays AI events.

Video Playback: View recorded videos.

Image Settings: Set the camera's night vision mode, image flip, and light anti-interference.

PTZ Control: Control PTZ direction, perform PTZ calibration, tracking, cruise, and constant viewing position settings.

Network Diagnostics: NVR network diagnostics, camera network diagnostics, and view NVR traffic statistics.

Network Settings: Configure wired network, wireless network, and camera wireless network

Exit System: Logout, restart, or shutdown.

System Settings

Right-click and select **System Settings** to open the system settings page and start configuration.



General Settings: Set language, resolution, audio output, mic volume, output volume, automatic screen lock.

Network Settings: Wired or wireless connection to router settings, wireless channel settings.

Date/Time: Set time and time zone.

Add Camera: Automatically add camera, manually add camera.

Camera Settings: All camera settings, alarm settings, recording settings.

AI: Smart face settings, smart attribute search, smart image search, face library.

Account/App: Download the App and add devices, change device passwords through the App.

Storage Settings: View hard drive or TF card information and reformat.

System Maintenance: Display device information, update firmware version, and restore system factory settings.

Camera Settings



Move the mouse cursor over the video screen, and a quick navigation bar will appear at the bottom left. **(The functions within the navigation bar vary depending on the camera model; grayed-out functions indicate that the camera does not support those features.)**



Video Playback: View 24/7 recording, event recording, and backup recording.



Volume: Control the camera volume.



Image Settings: Set the camera's night vision mode, image flip, and light anti-interference.



Digital Zoom: Zoom in and out of the current channel's image.



PTZ Control: Control PTZ direction, perform PTZ calibration, tracking, cruise, and constant viewing position settings.

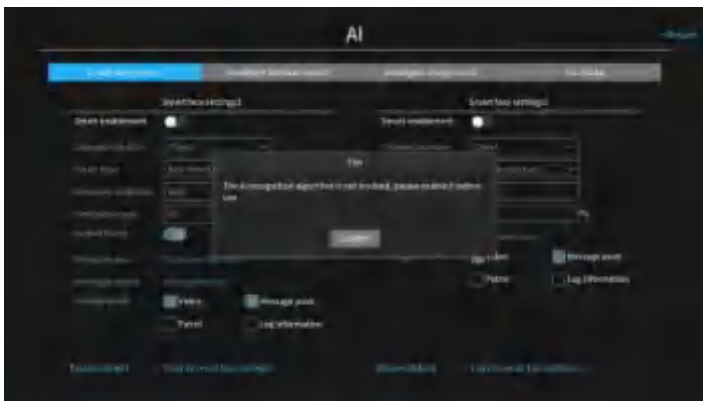


Siren: When turned on, the device will emit a siren sound.

AI

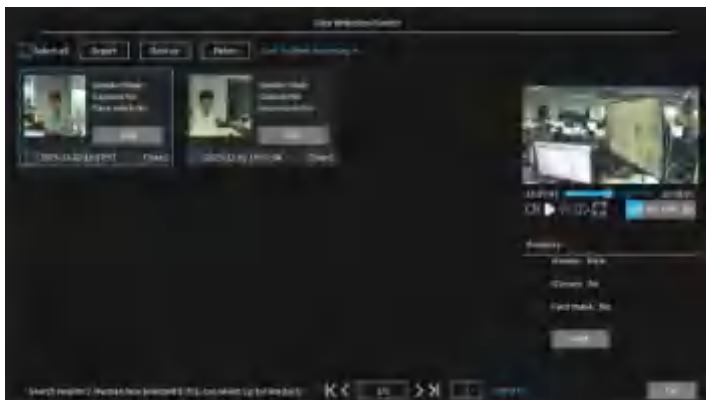
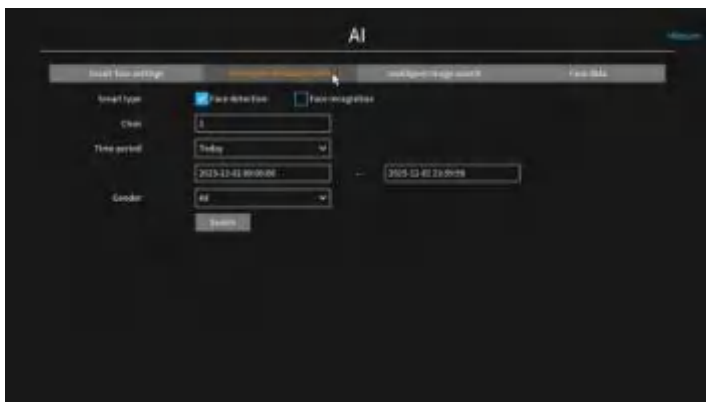
The AI requires internet connectivity and installation of hard drive or SD card for download and usage. Users can select their preferred channels for intelligent configuration. It supports facial recognition and facial detection, allowing the creation of facial databases to distinguish strangers. Users can search for specific AI events via attribute search or image search to quickly locate incidents.

1 Smart Face Settings



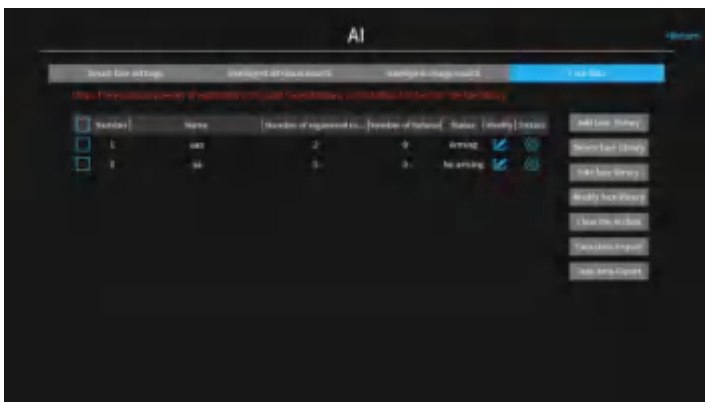
2 Smart Attribute Search

Select the smart type, channel, time period, and gender to search for events with corresponding attributes.



3 Face Library

Add, delete, edit face library, modify face library names, and clear AI data.



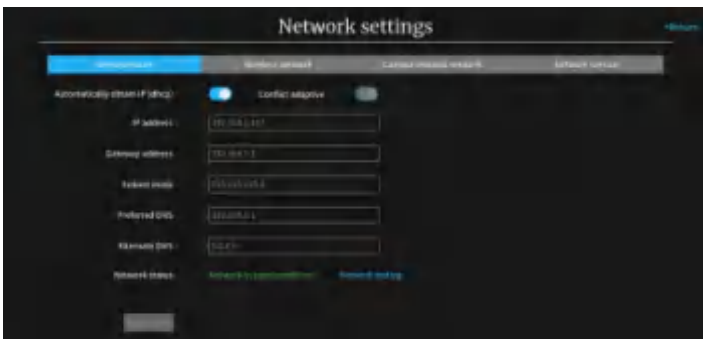
The face library supports batch face registration.



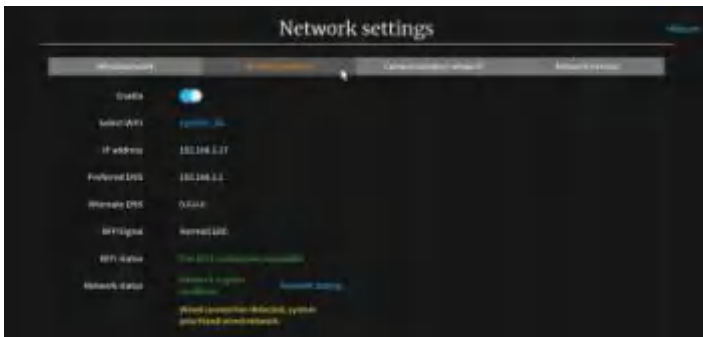
Network Settings

The device supports wired, wireless, and camera wireless network configurations, enabling simultaneous access to internal and external networks.

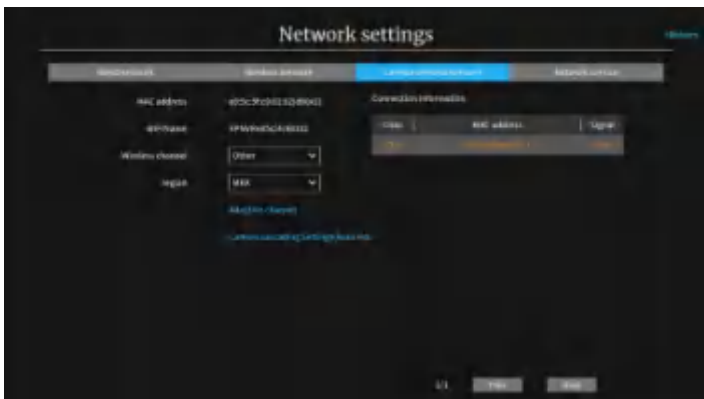
- 1 Wired Network:** Use an Ethernet cable to connect the device directly to your router.



- 2 Wireless Network:** To establish a connection via WiFi, configure the device to connect to your WiFi router.



- 3 **Camera Wireless Network:** Modify the wireless settings between the camera and NVR. In high-interference environments, switching to less congested channels or frequency bands may improve transmission stability. **(Note: The use of wireless channels must comply with local regulations.)**



Select an Installation Location

Step 1: Mount the camera within the WiFi range of the NVR, and connect the camera to a 12V DC power supply.

Step 2: If the NVR and the camera are successfully paired, the NVR will establish a connection and display the video feed within 1 minute (or less).

Step 3: If the video fails to display, external factors may be interfering with the wireless signal. For example, interference between the NVR and camera may be excessive, the camera may be too far from the NVR, or the antennas may be misaligned. Try moving the camera closer to the NVR or adjusting the antennas to a vertical position.

Installation Precautions

1. The device must be kept away from moisture, high temperatures, and strong magnetic fields. Install it in a well-ventilated location.
2. Please use SATA hard drives purchased through official channels.
3. Ensure the device is properly grounded. The power supply must operate within the rated voltage range. Use of the provided standard power adapter is strongly recommended.
4. Do not cut power to the device directly while it is running. Always shut down via the system software first to prevent potential damage to the hard drive.



3- 05- 02- 007- 4139

材质:105g铜版纸+哑膜

尺寸:105*148mm

要求:四色印刷+2个骑马钉