ANNKE 4eda8faf-c048-4ae8-aa33-a724341d1e4c

ANNKE 12MP 16-Channel PoE NVR User Manual

Model: 4eda8faf-c048-4ae8-aa33-a724341d1e4c

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your ANNKE 12MP 16-Channel Power over Ethernet (PoE) Network Video Recorder (NVR). This NVR is designed for home security camera systems, supporting up to 16 x 12MP/4K IP cameras for 24/7 surveillance recording. It also includes 4-channel AI features for enhanced security monitoring.

The ANNKE NVR simplifies setup with a single PoE cable for both power and data transmission to compatible IP cameras. It is compatible with ANNKE 12/8/6/5/4/3/2/1MP IP cameras, including C500 and C800 models. The system supports continuous recording and AI motion detection, allowing for custom area monitoring. Remote access is available via the ANNKE Vision App on phones, tablets, and laptops, providing convenient live stream viewing without additional fees. The NVR also acts as a secondary connector to minimize network interruption from IP cameras, supporting network transmission distances up to 1000ft with Cat6 cable in long-distance mode. It utilizes H.265+ video compression for efficient storage and bandwidth usage without compromising image quality.

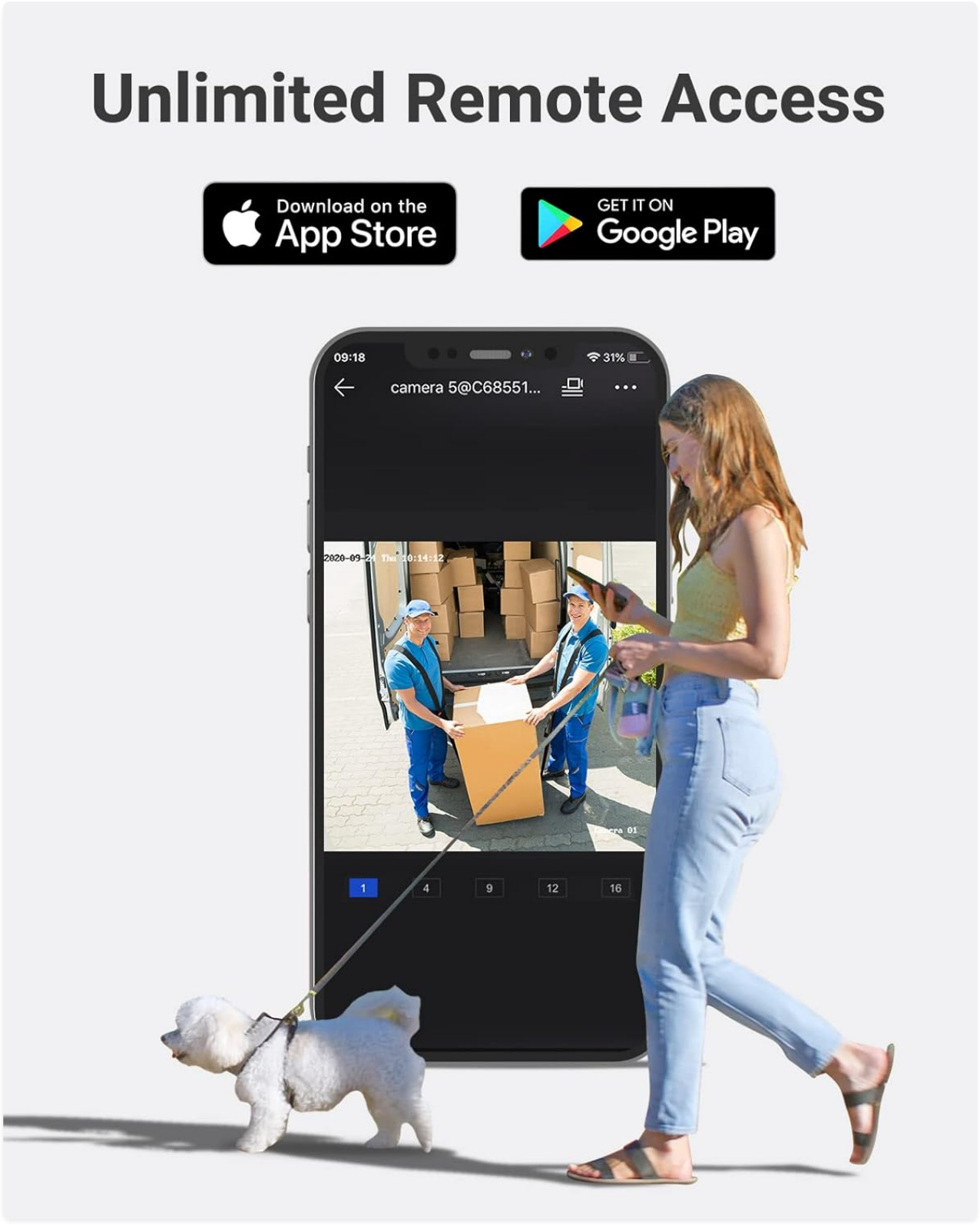


Image: The ANNKE NVR highlighting its 12MP Ultra HD capability for superior details and definition.

2. What's in the Box

Upon unboxing your ANNKE 16-Channel PoE NVR, please verify that all the following components are included:

- 1 x 16CH PoE NVR (Hard Drive Not Included)
- 1 x Power Adapter for NVR
- 1 x Power Cable

- 1 x USB Mouse
- 1 x User's Manual For NVR
- 1 x Network Cable
- 1 x HDMI Cable
- 1 x Screw Bag (for HDD installation, if HDD is not pre-installed)
- HDD SATA Data Cables (Not included if HDD is pre-installed)
- HDD Power Cables (Not included if HDD is pre-installed)

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Video: Unboxing the ANNKE 16-Channel 4K NVR, showing all included accessories such as the NVR unit, power supply, cables, mouse, and user manual.



Image: A visual representation of the ANNKE NVR and its standard accessories.

3. Product Overview

Familiarize yourself with the ports and indicators on your ANNKE NVR for proper connection and operation.



Image: Detailed diagram of the ANNKE NVR's front and rear panels, indicating various ports and status indicators.

Front Panel Indicators & Controls:

- **Power Status:** Indicates if the NVR is powered on.
- **Recording Status:** Shows active recording.
- **Network Status:** Indicates network connectivity.
- **Control Panel:** Buttons for menu navigation and selection.
- **USB Port:** For mouse connection or USB backup.

Rear Panel Connections:

- **Camera Input (PoE Ports):** Connect IP cameras via Ethernet cables.
- **Router (LAN Port):** Connect to your network router.
- **Audio Output:** Connect to an audio device.
- **Audio Input:** Connect an external microphone.
- **VGA/HDMI Output:** Connect to a monitor or TV.
- **48V Power Input:** Connect the provided power adapter.

4. Setup

Follow these steps to set up your ANNKE 16-Channel PoE NVR system.

4.1 Hard Drive Installation (Optional)

The NVR does not come with a pre-installed hard drive. You will need to install a compatible 3.5-inch or 2.5-inch SATA hard drive (up to 16TB) for recording. For 2.5-inch drives, an extra bracket may be required.

1. Unscrew the cover of the NVR.
2. Connect the SATA data and power cables from the NVR to the hard drive.
3. Secure the hard drive inside the NVR using the provided screws.
4. Replace and secure the NVR cover.

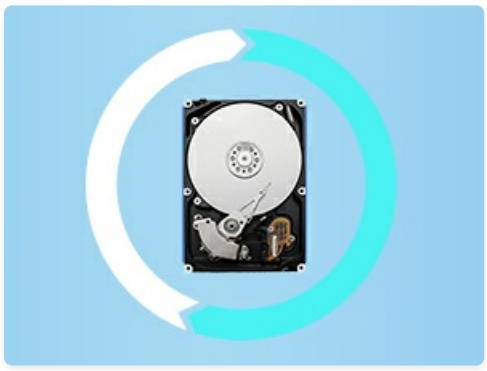


Image: NVR specifications for internet and hard drive, showing support for up to 16TB storage.

4.2 Initial Connections

1. **Connect Cameras:** Connect your ANNKE PoE IP cameras to the NVR's PoE ports using Ethernet cables. A single PoE cable handles both power and data transmission.
2. **Connect to Display:** Connect a monitor or TV to the NVR's HDMI or VGA output port.
3. **Connect USB Mouse:** Plug the USB mouse into one of the NVR's USB ports for navigation.
4. **Connect to Network:** Connect the NVR's LAN port to your router using an Ethernet cable for remote access and updates.
5. **Power On:** Connect the power adapter to the NVR's 48V power input and then plug it into a power outlet. The NVR will power on automatically.



Image: A visual guide to the plug-and-play PoE system setup, showing cameras connected directly to the NVR.



Image: Representation of PoE functionality, where data and power are transmitted over one cable.

5. Operating the NVR

Once your NVR is set up, you can begin configuring and monitoring your security system.

5.1 Initial Configuration

Upon first boot, the NVR will guide you through an initial setup wizard to configure basic settings such as language, date/time, network, and hard drive formatting (if a new HDD was installed).

5.2 Live View and Recording

The NVR supports 24/7 continuous recording. You can view live feeds from all connected cameras on your monitor. Configure recording schedules and motion detection settings through the NVR's interface.



Image: The NVR emphasizing its capability for non-stop 24/7 recording.



Image: Illustration of hard drive loop recording, where older footage is overwritten by new recordings.

5.3 AI Features

The NVR supports 4-channel AI features when used with compatible ANNKE AI cameras. These features include line intrusion detection and region detection, allowing for more precise alerts and reduced false alarms.



Image: ANNKE AI cameras demonstrating person and vehicle detection capabilities.

5.4 Remote Access

Download the ANNKE Vision App from the App Store or Google Play to access your NVR remotely. This allows you to view live streams, playback recordings, and receive motion alerts on your smartphone or tablet from anywhere with an internet connection.



Image: Remote access to the NVR system via the ANNKE Vision mobile application.



Image: Live camera feed displayed on a smart home device, showcasing versatile viewing options.

5.5 Video Compression (H.265+)

The NVR utilizes H.265+ video compression technology, which significantly reduces file sizes and bandwidth consumption compared to older H.264 standards, without compromising video quality. This allows for longer recording times and more efficient data transfer.



Image: Comparison showing the storage efficiency of H.265+ compression.



Image: Visual comparison of storage usage between H.264 and H.265+ video compression.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your NVR system.

- **Regular Cleaning:** Keep the NVR unit free from dust and debris. Use a soft, dry cloth for cleaning. Ensure ventilation openings are clear.
- **Firmware Updates:** Periodically check the ANNKE official website for firmware updates. Keeping your NVR's firmware up-to-date can improve performance, add new features, and enhance security.
- **Hard Drive Health:** If you have installed a hard drive, regularly check its health status through the NVR's system settings to prevent data loss.
- **Cable Connections:** Ensure all cables (power, network, video, audio) are securely connected and free from damage.
- **Environmental Conditions:** Operate the NVR within recommended temperature and humidity ranges to prevent overheating or moisture damage.

7. Troubleshooting

This section addresses common issues you might encounter with your ANNKE NVR. For more detailed troubleshooting, refer to the full user manual or ANNKE's support resources.

7.1 No Video Output

- Check if the NVR is powered on and the power indicator light is active.
- Ensure the HDMI/VGA cable is securely connected to both the NVR and the monitor.
- Verify the monitor input source is correctly selected (HDMI or VGA).
- Try a different HDMI/VGA cable or monitor to rule out faulty equipment.

7.2 Cameras Not Displaying

- Ensure cameras are properly connected to the NVR's PoE ports.
- Check the Ethernet cables for damage or loose connections.
- Verify that the cameras are compatible with the NVR.
- Restart the NVR and cameras.
- Check camera settings within the NVR interface to ensure they are enabled and configured correctly.

7.3 No Remote Access

- Ensure the NVR is connected to your router and has internet access (check the network status indicator).
- Verify your router is functioning correctly.
- Check the network settings on the NVR to ensure DHCP is enabled or static IP is correctly configured.
- Confirm the ANNKE Vision App is updated to the latest version.
- Ensure the NVR is properly added to your ANNKE Vision account.

8. Specifications

Feature	Specification
Brand	ANNKE
Model Number	4eda8faf-c048-4ae8-aa33-a724341d1e4c
Number of Channels	16
Max IP Camera Resolution	12MP (4K)
AI Features	4-Channel AI (Line Intrusion, Region Detection)
Connectivity Technology	Ethernet (PoE)
Compatible Devices	ANNKE IP Cameras (12/8/6/5/4/3/2/1MP)
Video Input	IP Input
Video Output	HDMI, VGA
Audio Input	RCA
Audio Output	RCA
Total USB Ports	2
Media Format Digital Video	Supports HDD (up to 16TB, not included)
Video Compression	H.265+
Power Supply	48V DC (Power Adapter Included)
Dimensions (Approx.)	315mm (12.4 inch) x 240mm (9.4 inch) x 48mm (1.9 inch)

9. Warranty and Support

Your ANNKE 12MP 16-Channel PoE NVR comes with a **1-year warranty** from the date of purchase, covering

manufacturing defects and malfunctions under normal use.
For technical support, troubleshooting assistance, or warranty claims, please visit the official ANNKE support website or contact their customer service. Keep your purchase receipt and model number handy when seeking support.
Online Resources: For the most up-to-date information, FAQs, and detailed guides, please refer to the ANNKE official website: www.annke.com