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ANNKE AU-N98WHR2-98FB

ANNKE 4K Security Camera System User Manual

Model: AU-N98WHR2-98FB

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ANNKE 4K Security Camera System. This system includes a 16-channel Network Video Recorder (NVR) with a 2TB Hard Disk Drive (HDD) and 8 wireless 4K cameras. It features advanced functionalities such as AI Human Detection, two-way audio, 100ft IR night vision, and Alexa support, designed for reliable 24/7 home security surveillance.

What's in the Box

Verify that all components listed below are included in your package:

- 1 x 16CH 8MP/4K NVR & 2TB Hard Drive
- 8 x 4K Camera
- 8 x Antenna
- 8 x Surveillance Sign
- 9 x Power Adapter
- 8 x Mounting Screws Bag
- 1 x HDMI Cable
- 1 x Network Cable
- 1 x USB Mouse
- 1 x Quick Start Guide

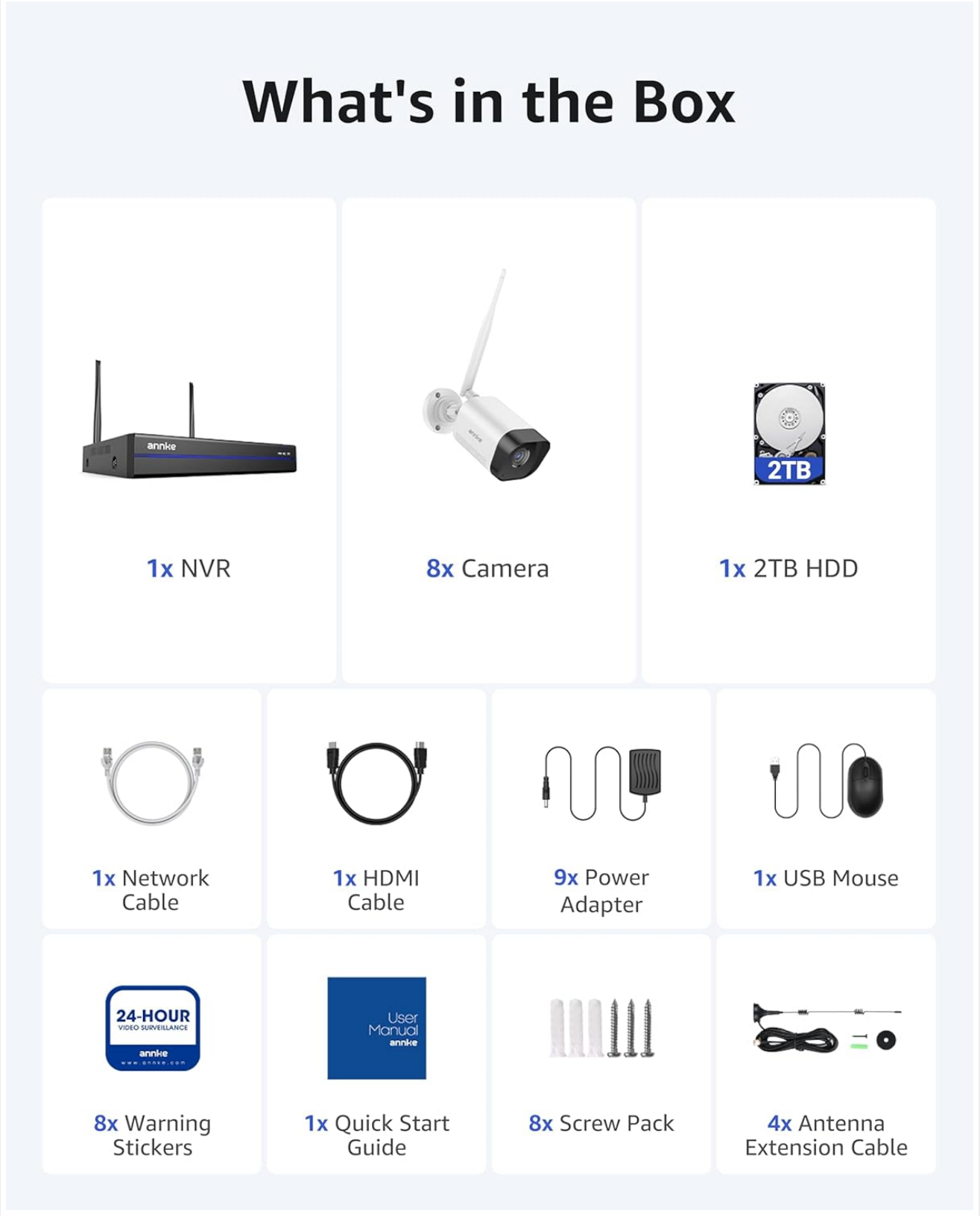

Figure 1: Package Contents. This image displays the various components included in the ANNKE 4K Security Camera System package, such as the NVR, cameras, cables, and accessories.

Setup Guide

1. NVR Initial Connection

1. Connect the NVR to a monitor using the provided HDMI cable.
2. Connect the NVR to your router using the provided network cable for internet access.
3. Connect the USB mouse to the NVR's USB port.

4. Connect the NVR to a power source using one of the power adapters.
5. Power on the NVR. Follow the on-screen instructions for initial setup, including setting a password and time zone.

2. Camera Installation and Pairing

The cameras are designed for wireless connection to the NVR. Ensure cameras are within range of the NVR's Wi-Fi signal.

1. Mount each camera in your desired location using the mounting screws. Ensure the camera's antenna is securely attached and oriented for optimal signal reception.
2. Connect each camera to a power source using the remaining power adapters.
3. The cameras should automatically pair with the NVR. If a camera does not appear on the NVR monitor, refer to the troubleshooting section or the Quick Start Guide for manual pairing instructions.

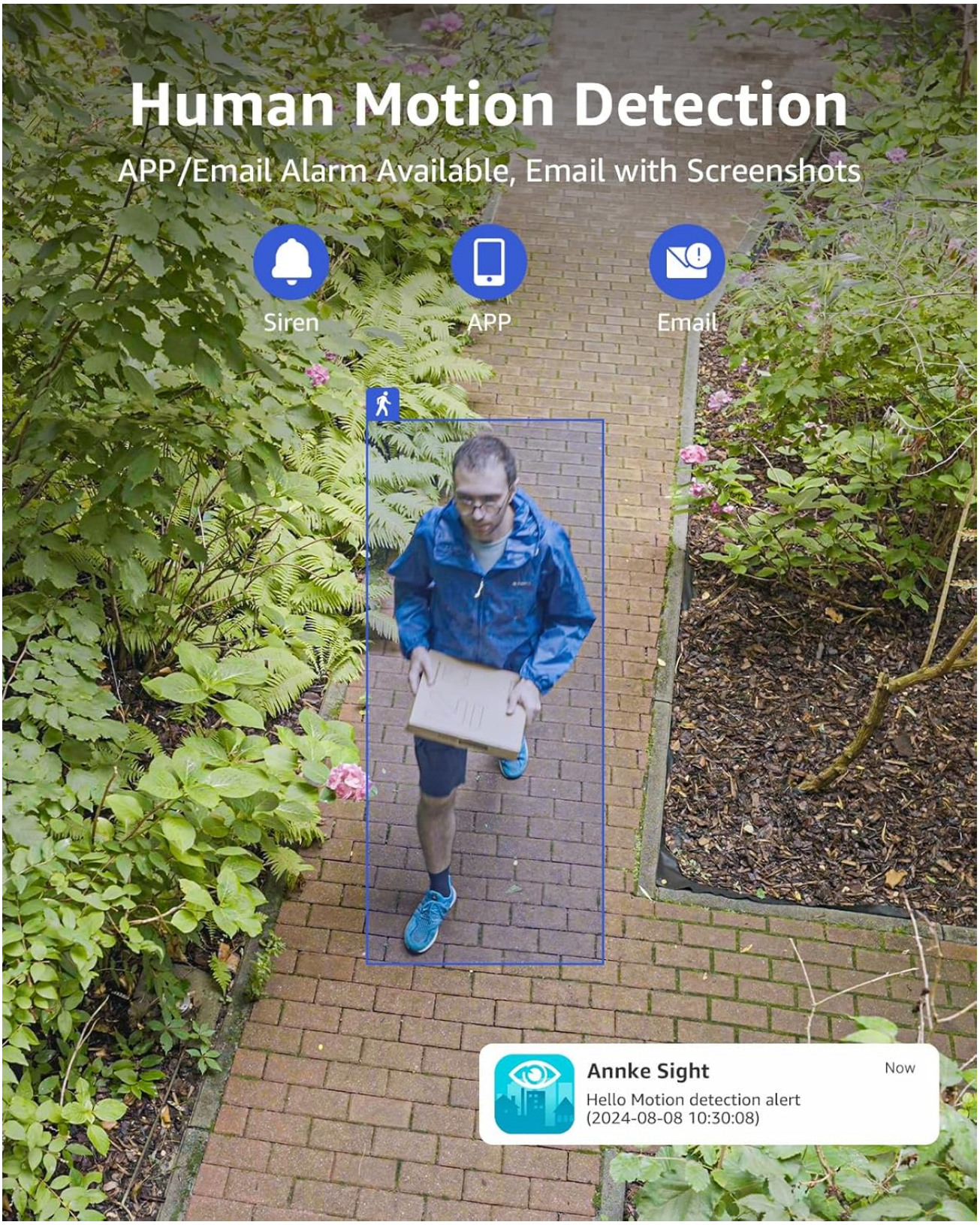

Figure 2: System Overview. This image illustrates the components of the ANNKE 4K Security Camera System, including the NVR and wireless cameras, and their typical placement for surveillance.

Operating Instructions

1. Accessing the System

- **Local Access:** Use the connected monitor and USB mouse to navigate the NVR interface directly.
- **Remote Access:** Download the ANNKE mobile application (available for Android and iOS) or the client software for Windows. Follow the app's instructions to add your NVR using its QR code or serial number.

Figure 3: Remote Access. This image demonstrates accessing the security camera feed remotely using various devices such as Windows, Android, and iOS, highlighting the flexibility of the system.

2. Recording and Playback

- **Continuous Recording:** The system is configured for 24/7 recording to the 2TB HDD by default.
- **Motion-Triggered Recording:** Configure specific channels to record only when motion is detected.
- **Scheduled Recording:** Set custom recording schedules for each camera.
- **Playback:** Access recorded footage through the NVR interface or mobile app. Use the smart playback feature to quickly locate events.

3. Two-Way Audio

Each camera includes a built-in microphone and speaker, enabling two-way communication.

- To use two-way audio, open the live view of the desired camera on the NVR monitor or mobile app.
- Activate the microphone icon to speak and the speaker icon to listen.

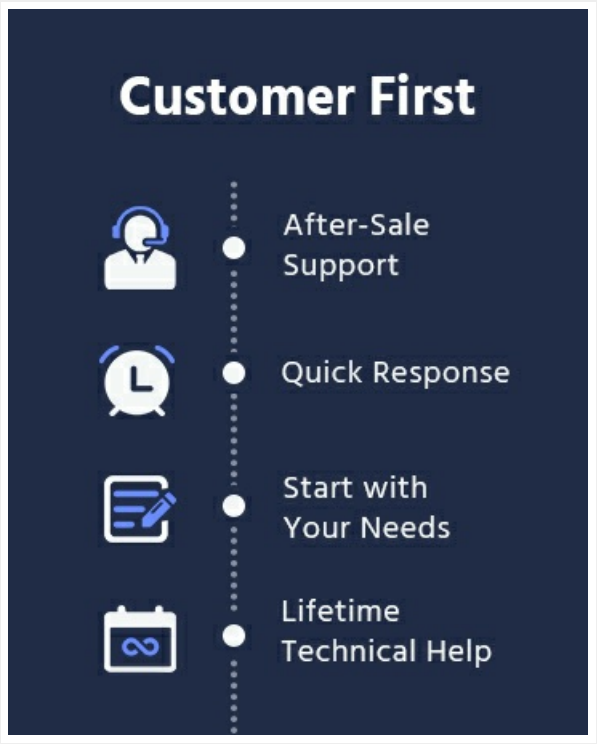

Figure 4: Two-Way Audio. This image illustrates the two-way audio functionality, showing a person speaking through their phone to someone near the camera, facilitating real-time communication.

4. AI Human Detection

The system's AI Human Detection feature distinguishes human shapes from other moving objects, reducing false alarms.

- Access the NVR's settings menu, navigate to "Alarm" or "Event Detection."
- Enable "Human Detection" for desired cameras.
- Configure detection zones and sensitivity levels to optimize performance.
- Set up notifications (APP push, email alerts with screenshots, siren) for detected human motion.

Figure 5: AI Human Detection. This image shows the human motion detection feature in action, highlighting a person within the

detection zone and indicating various alert options like siren, app notification, and email.

5. Alexa Integration

Integrate your ANNKE system with Amazon Alexa for voice control and viewing live feeds on compatible devices.

- Enable the ANNKE skill in your Alexa app.
- Link your ANNKE account.
- Discover devices. You can then use voice commands like "Alexa, show me the backyard camera" to view live feeds.

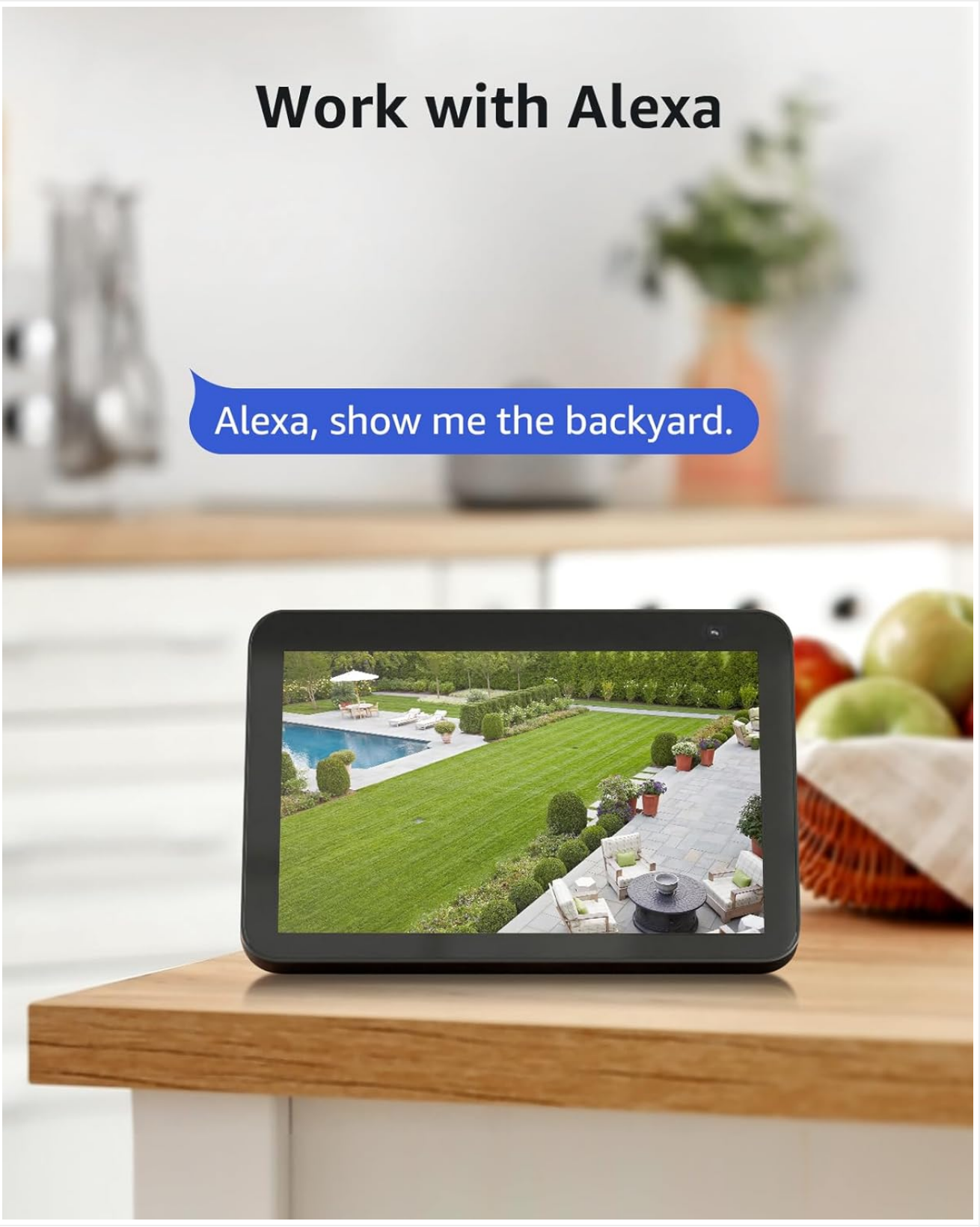

Figure 6: Alexa Integration. This image illustrates the ANNKE system's compatibility with Amazon Alexa, showing a smart display device displaying a live camera feed in response to a voice command.

Key Features

- **4K Ultra HD Resolution:** Capture clear and detailed video footage with 8MP (3840 x 2160) resolution.

Figure 7: 4K Ultra HD. This image demonstrates the clarity of 4K Ultra HD resolution, showing a detailed scene captured by the camera.

- **Dual-Band WiFi Pro:** Equipped with 2.4G/5.8G WiFi Pro for enhanced signal stability, wider coverage, and reduced interference, supporting up to 16 channels.

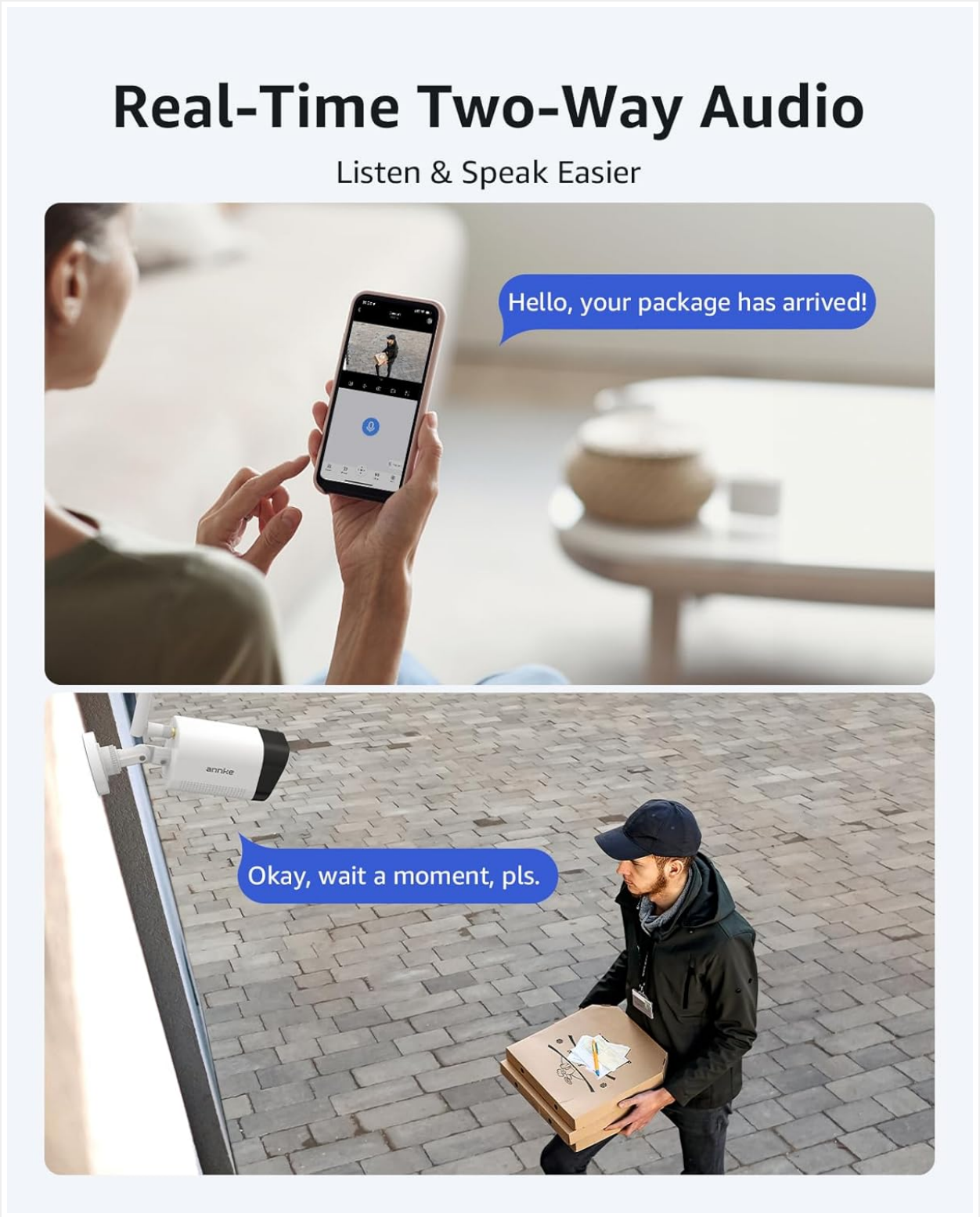

Figure 8: Dual-Band WiFi. This image highlights the 16-channel 8MP Wireless NVR's dual-band WiFi Pro technology, illustrating the benefits of 2.4GHz for wider coverage and 5.8GHz for faster speed, with multiple camera views.

- **100ft IR Night Vision:** Provides clear surveillance up to 100 feet (30 meters) in low-light conditions with Smart IR technology.
- **IP66 Weatherproof Cameras:** Cameras are rated IP66, ensuring resistance to heavy rain, dust, and extreme temperatures (-4°F to 140°F / -20°C to 60°C) for reliable outdoor performance.

Figure 9: IP66 Weatherproof. This image shows an ANNKE camera enduring rain, demonstrating its IP66 weatherproof rating and resistance to cold and hot temperatures.

- **H.264+ Video Compression:** Efficient video compression technology maximizes storage space on the 2TB HDD while maintaining video quality.
- **Local Storage & Smart Playback:** Secure local storage on the 2TB HDD (expandable up to 8TB) and smart playback features for quick event retrieval.
- **Wireless Setup & Extended Range:** Cutting-edge wireless technology and intelligent relay support optimize signal strength and stability for seamless coverage.

Specifications

NVR Specifications

Feature	Detail
Video Format	H.264+
IP Video Input	16CH Wireless
Video Output	HDMI Up to 4K
Audio Output	Support
Max Recording Resolution	Up to 8M
Max Playback Resolution	Up to 8M
Max Playback Channel	4CH
Max Playback Capacity	4CH 5MP/2CH 8MP
HDD Interface	1 SATA interface
HDD Capacity	Up to 8TB capacity (2.5 & 3.5 inches)
Network Interface	RJ45x1 (10/100M)

IP Camera Specifications

Feature	Detail
Video Resolution	8MP (3840 X 2160)
Image Sensor	1/2.7" Progressive Scan CMOS
Video Compression	H.264+
Audio Compression	G.711A
Lens	3.6mm
Angle of View	70°
Number of Infra-Red LEDs	18
Night Vision Distance	Up to 100ft/30m
IR-Cut Filter	Yes
Ethernet	RJ45x1 (10M/100M)
Wireless	2.4G & 5.8G dual-band, IEEE802.11b/g/n/ac

Maintenance

- **Regular Cleaning:** Periodically clean camera lenses with a soft, damp cloth to ensure clear image quality. Do not use harsh chemicals.
- **Firmware Updates:** Check the ANNKE website or mobile app regularly for firmware updates for your NVR

and cameras. Keeping your system updated ensures optimal performance and security.

- **HDD Health Check:** The NVR's 2TB HDD is designed for 24/7 surveillance. Monitor its health through the NVR interface. Consider replacing the HDD if errors are detected or after several years of continuous operation.
- **Network Security:** Ensure your Wi-Fi network is secure with a strong password to protect your system from unauthorized access.

Troubleshooting

- **No Video Output on Monitor:**
  - Check HDMI cable connection to NVR and monitor.
  - Ensure NVR is powered on.
  - Try a different HDMI port or cable.
- **Cameras Not Connecting/Offline:**
  - Ensure cameras are powered on and within range of the NVR's Wi-Fi.
  - Check for obstructions that might interfere with the wireless signal.
  - Try manually pairing the camera via the NVR interface (refer to Quick Start Guide).
  - Verify camera antennas are securely attached.
- **No Remote Access:**
  - Ensure the NVR is connected to the internet via the network cable.
  - Check your router's internet connection.
  - Verify the ANNKE app is updated and your NVR is correctly added to your account.
- **False Motion Detections:**
  - Adjust the sensitivity settings for AI Human Detection in the NVR's alarm settings.
  - Define specific detection zones to exclude areas with frequent non-human movement (e.g., trees swaying).
- **Poor Night Vision:**
  - Ensure the camera lens is clean.
  - Check for any reflective surfaces close to the camera that might be causing IR glare.

Warranty and Support

ANNKE provides comprehensive customer support for its products.

- **After-Sale Support:** Contact ANNKE customer service for assistance with product issues.
- **Lifetime Technical Help:** Benefit from lifetime technical support for your ANNKE security system.
- **Online Resources:** Visit the official ANNKE website for FAQs, troubleshooting guides, and software downloads.

For warranty details, please refer to the warranty card included in your package or visit the ANNKE official website.