ANNKE N48PBB-51DW

ANNKE Dual-Lens Outdoor Security Camera System N48PBB-51DW User Manual

Model: N48PBB-51DW

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ANNKE Dual-Lens Outdoor Security Camera System. Please read this manual thoroughly before using the product to ensure proper setup and functionality. Keep this manual for future reference.

2. WHAT'S IN THE BOX

Verify that all components are present in your package:

- 1 x 8CH 6MP NVR (Network Video Recorder)
- 1 x 6TB Hard Drive (pre-installed in NVR)
- 1 x 6MP PoE Dual-Lens Panoramic Camera
- 1 x 30m Ethernet Cable
- 1 x USB Mouse
- 1 x Power Adapter for NVR
- 1 x 1.8m HDMI Cable
- 1 x User Manual
- 1 x Wall Sticker
- Screws and Wall Plugs for camera installation

Figure 2.1: Package Contents. This image displays the NVR, dual-lens camera, power adapter, USB mouse, 30m network cable, HDMI cable, wall sticker, user manual, screws, and a 6TB surveillance HDD.

3. PRODUCT OVERVIEW AND KEY FEATURES

The ANNKE Dual-Lens Outdoor Security Camera System offers advanced surveillance capabilities with its innovative design and smart features.

3.1. Dual-Lens Panoramic Camera

- **180° Wider View:** The camera integrates two 1/2.5" BSI sensors to provide a single, stitched 180° panoramic view without distortion, covering a significantly wider area than standard cameras.
- **6MP Clarity:** Delivers high-resolution 6-megapixel video for clear and detailed imaging.
- **Full-Color Night Vision:** Equipped with two spotlights, the camera provides vivid, full-color video even in low-light conditions, extending visibility up to 100 ft.
- **AI Smart Motion Detection:** Features intelligent detection for human and vehicle motion, reducing false alarms. Customizable detection zones and lines are supported.
- **Two-Way Audio:** Built-in microphone and speaker allow for real-time communication through the camera.
- **PoE (Power over Ethernet):** Simplifies installation by providing power and data through a single Ethernet cable.
- **Weather-Resistant:** IP66 rated for outdoor use, capable of withstanding various weather conditions.
- **Local Storage:** Supports a built-in micro SD/SDHC/SDXC slot up to 256 GB (card not included) for local recording.

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Figure 3.1: 180° Stitched Panoramic View. This image illustrates the wider field of view provided by the dual-lens camera compared to traditional cameras, showing a seamless 180-degree image.

Figure 3.2: 6MP Resolution Clarity. This image demonstrates the enhanced detail of 6MP resolution, showing clearer license plate numbers compared to 1080p resolution.

Figure 3.3: Full-Color Night Vision. This image shows the camera mounted on a building, illuminating a wide outdoor area with its spotlights, providing a full-color view at night.

Figure 3.4: AI Motion Detection. This image depicts the camera's ability to distinguish between a person and a vehicle, highlighting detected objects with bounding boxes and showing a notification alert.

Figure 3.5: Two-Way Audio. This image illustrates a user communicating with a delivery person via the camera's two-way audio feature, with speech bubbles indicating the conversation.

Figure 3.6: Single Camera, Dual Functionality. This diagram visually explains how one dual-lens camera provides the coverage equivalent to two traditional single-lens cameras, simplifying installation.

X1 NVR   **X1** Camera   **X1** Power Adapter   **X1** USB Mouse

X1 30m Network Cable   **X1** HDMI Cable   **X1** Network Cable   **X1** Wall Sticker

X1 User Manual   **X1** Screw   **X1** Surveillance HDD

Figure 3.7: Micro SD Card Slot. A close-up view of the camera's micro SD card slot, indicating support for up to 256GB of local storage.

3.2. 8-Channel NVR (Network Video Recorder)

- **8-Channel PoE Input:** Connects up to 8 PoE IP cameras, providing power and data.
- **6MP Max Recording Resolution:** Supports recording resolutions up to 6 megapixels.
- **H.265+ Video Compression:** Advanced compression technology for efficient storage and bandwidth usage.
- **6TB HDD Included:** Comes with a pre-installed 6TB hard disk drive for extensive video storage.
- **HDMI & VGA Output:** Connects to monitors for local viewing up to 1080P.
- **Onvif Protocols:** Supports Onvif for compatibility with various IP cameras.

Figure 3.8: ANNKE Security System Components. This image displays the ANNKE NVR unit and the dual-lens panoramic PoE camera, along with a visual representation of the 6TB hard drive.

4. SPECIFICATIONS

4.1. NVR Specifications

Feature	Specification
IP Video Input	8 Channels PoE
Max Recording Resolution	Up to 6MP
Video Output	HDMI & VGA Up to 1080P
Video Compression	H.265+/H.265/ H.264+/H.264
HDD Capacity	Up to 6TB capacity (6TB HDD Included)
PoE	Max 25.5W for single port
Network Interface	RJ45 x 1 (10/100 M)
USB	2x USB 2.0
Operating Power	DC48V
Operating Temperature	14 °F ~ 131 °F (-10 °C ~ +55 °C)

Dimensions (L x W x H)	10.43 x 8.86 x 1.89 inches

4.2. Camera Specifications

Feature	Specification
Image Sensor	2x 1/2.5" Progressive Scan CMOS
Lens	Dual lens: 2.8 mm
Field of View (FoV)	180° Panoramic
Video Bit Rate	32 Kbps to 16 Mbps
Audio	Built-in Microphone (with environment noise filtering), Two-Way Audio
Image Enhancement	BLC, HLC, 3D DNR
Wide Dynamic Range	120dB WDR
Operating Power	PoE (802.3af), 12 VDC ± 25%
Storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB (card not included), support NAS, NVR
Audio Alarm	Support (Parameters adjustable, custom audio, triggered from APP)
Environmental Rating	Indoor/Outdoor (IP66)

5. SETUP GUIDE

Follow these steps to set up your ANNKE Security Camera System.

5.1. NVR Installation

1. **Placement:** Place the NVR in a secure, dry, and well-ventilated area, away from direct sunlight and heat sources. Ensure it is easily accessible for connections.

2. **Connect Monitor:** Connect a monitor to the NVR's HDMI or VGA port using the provided HDMI cable or a VGA cable (not included).

3. **Connect Mouse:** Plug the USB mouse into one of the NVR's USB ports.

4. **Connect to Network (Optional but Recommended):** For remote access and firmware updates, connect the NVR's RJ45 network port to your router/switch using an Ethernet cable.

5. **Power On:** Connect the NVR to the power adapter and plug it into a power outlet. The NVR will start automatically.

5.2. Camera Installation

1. **Choose Location:** Select a suitable outdoor location for the camera, ensuring it covers the desired area and has a clear line of sight. Consider mounting height for optimal detection and view.

2. **Mounting:** Use the provided screws and wall plugs to securely mount the camera to a wall or ceiling. Ensure the mounting surface is strong enough to support the camera's weight.

3. **Connect Camera to NVR:** Connect the camera to one of the NVR's PoE ports using the provided 30m Ethernet cable. The camera will receive both power and data through this single cable.

4. **Adjust Angle:** Loosen the camera's adjustment screws to position the camera for the desired 180° panoramic view. Tighten the screws once the angle is set.

5.3. Initial NVR Configuration

1. **First-Time Setup Wizard:** Upon first boot, the NVR will guide you through a setup wizard. Follow the on-screen prompts to set language, date/time, password, and network settings.

2. **Hard Drive Initialization:** The pre-installed 6TB HDD may need to be initialized or formatted by the NVR. Follow the prompts to ensure it's ready for recording.

3. **Camera Detection:** The NVR should automatically detect and add the connected PoE camera. If not, refer to the NVR's specific user manual for manual camera addition.

4. **Network Configuration:** If you connected the NVR to your network, ensure DHCP is enabled or configure a static IP address. This is crucial for remote access.

6. OPERATING INSTRUCTIONS

This section covers basic operation of your ANNKE Security Camera System.

6.1. Live View

- After successful setup, the NVR will display the live feed from the connected camera(s) on the monitor.
- Use the USB mouse to navigate the NVR interface. Double-click a camera view to enlarge it, or right-click to access the main menu.

6.2. Recording and Playback

- **Recording:** The NVR is configured for continuous recording by default. You can adjust recording schedules (e.g., motion-triggered, scheduled) via the NVR's menu (typically under "Record" or "Storage").
- **Playback:** Access the "Playback" menu on the NVR. Select the desired camera and date/time to review recorded footage. Use the timeline to navigate through recordings.

6.3. Motion Detection and Alerts

- **Configuration:** Navigate to the "Event" or "Alarm" settings in the NVR menu. Here you can enable and configure Human/Vehicle Detection for your camera.
- **Detection Zones/Lines:** Draw specific areas or lines on the camera's view where motion detection should be active. This helps to minimize false alarms.
- **Alerts:** Configure how you receive alerts (e.g., push notifications to your mobile app, email alerts, audible siren from the camera).

6.4. Two-Way Audio

- To use two-way audio, access the camera's live view through the NVR interface or the mobile application.
- Look for a microphone icon to speak and a speaker icon to listen. Ensure your mobile device's microphone is enabled for the app.

6.5. Remote Access (Mobile App)

1. **Download App:** Download the official ANNKE mobile application from your smartphone's app store (e.g., "ANNKE Vision" or similar, refer to NVR manual for exact app name).

2. **Register Account:** Create an account and log in.

3. **Add Device:** Use the app to scan the QR code on your NVR or manually enter its serial number to add the

device.

4. **Live View & Playback:** Once added, you can view live feeds, play back recordings, receive alerts, and use two-way audio remotely.

7. MAINTENANCE

- **Cleaning:** Regularly clean the camera lens with a soft, damp cloth to ensure clear image quality. Do not use harsh chemicals.
- **Firmware Updates:** Check the ANNKE website or your mobile app periodically for firmware updates. Keeping your system updated ensures optimal performance and security.
- **Cable Inspection:** Periodically inspect all cables for wear and tear, especially outdoor Ethernet cables, to prevent connection issues.
- **Hard Drive Health:** The NVR may have a feature to check the health of the hard drive. Monitor this to prevent data loss.

8. TROUBLESHOOTING

8.1. No Video Display

- **Check Power:** Ensure the NVR is powered on and the power adapter is securely connected.
- **Monitor Connection:** Verify the HDMI/VGA cable is securely connected to both the NVR and the monitor. Try a different cable or monitor if possible.
- **Camera Connection:** Ensure the Ethernet cable from the camera is securely plugged into a PoE port on the NVR. Check if the PoE port indicator light is on.
- **NVR Settings:** Access the NVR menu (if display works) and check camera management settings to ensure the camera is added and enabled.

8.2. No Remote Access

- **Network Connection:** Verify the NVR is connected to your router/network and has internet access. Check the network status in the NVR settings.
- **App Login:** Ensure you are logged into the correct account on the mobile app.
- **Device Added:** Confirm the NVR is correctly added to your account in the mobile app.
- **Firewall/Router:** Check your router's firewall settings. Ensure necessary ports are open if manual port forwarding is required (though P2P usually bypasses this).

8.3. Motion Detection Not Working

- **Enable Detection:** Ensure Human/Vehicle Detection is enabled for the specific camera in the NVR's event settings.
- **Sensitivity:** Adjust the detection sensitivity. Too low may miss events, too high may cause false alarms.
- **Detection Area:** Verify the detection zones/lines are correctly configured and cover the desired areas.
- **Schedule:** Check if the motion detection schedule is active for the current time.

9. WARRANTY AND SUPPORT

ANNKE products typically come with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included in your package or visit the official ANNKE website.
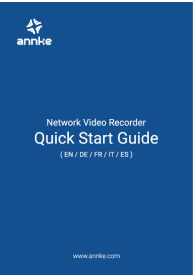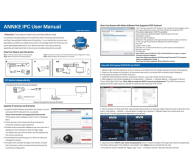
Related Documents - N48PBB-51DW

	[ANNKE Skill with Alexa: Voice Control Setup Guide](#) Learn how to connect your ANNKE IP cameras with Alexa for voice control. This guide covers device setup, configuration, and troubleshooting for seamless integration with Amazon Echo devices.
	[ANNKE PoE Bullet Camera Quick Start Guide](#) A comprehensive quick start guide for ANNKE PoE Bullet Cameras, detailing setup, connection, mounting, waterproofing, troubleshooting, specifications, regulatory information, and safety instructions.
	[ANNKE Network Video Recorder User Manual - Installation and Operation Guide](#) Comprehensive user manual for ANNKE Network Video Recorders (NVRs). Covers installation, setup, operation, and support resources for your surveillance system.
	[Annke Network Video Recorder Quick Start Guide | Setup & Installation](#) Get started quickly with the Annke Network Video Recorder (NVR). This comprehensive quick start guide covers setup, connection, configuration, and safety for your Annke surveillance system.
	[ANNKE IPC User Manual: Setup, Configuration, and Remote Access Guide](#) Comprehensive user manual and quick start guide for ANNKE IP Cameras, including the C500 model. Covers setup, activation, network configuration, remote access via IE browser and ANNKE VISION mobile app, and integration with ANNKE NVRs and third-party devices using RTSP and ONVIF protocols. Details installation, troubleshooting, and contact information.

User Manual ΛNNKE

[ANNKE I91BH/I91BI IP Camera User Manual - Setup, Operation, and Troubleshooting](#)
Comprehensive user manual for ANNKE I91BH and I91BI IP cameras. Learn about installation, connection methods, browser and app operation, NVR integration, RTSP protocol, and safety guidelines.