ANRAN SW-K04P7264

ANRAN 4K 8MP PoE Security Camera System User Manual

Model: SW-K04P7264

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ANRAN 4K 8MP PoE Security Camera System. Please read this manual thoroughly before using the product to ensure proper setup and functionality. This system is designed for comprehensive surveillance with advanced features such as 4K resolution, AI intelligent detection, auto-tracking, and two-way audio.

Figure 1: ANRAN 4K 8MP PoE Security Camera System components.

2. PACKAGE CONTENTS

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

- ANRAN 4K 8MP PoE Cameras (4 units)
- Network Video Recorder (NVR) with 2TB HDD
- LAN Cables (for camera connection)
- Power Adapter for NVR
- USB Mouse
- Mounting Screws and Anchors
- Quick Start Guide

3. SAFETY INFORMATION

- Ensure the power supply voltage is compatible with the NVR.
- Do not expose the NVR or cameras to extreme temperatures, humidity, or dust.
- Avoid placing the NVR in direct sunlight or near heat sources.
- Use only approved accessories and power adapters.

- Keep cables organized to prevent tripping hazards and damage.
- Consult a qualified professional for complex installations or electrical work.

4. SYSTEM OVERVIEW

4.1 NVR Ports

The Network Video Recorder (NVR) serves as the central hub for your security system, managing camera connections, recording, and data storage. Familiarize yourself with the NVR's ports for proper setup.

Figure 2: Rear panel of the NVR showing various connection ports.

- **Power Switch:** Turns the NVR on/off.

- **Camera Connection Ports (PoE):** Connect PoE cameras using LAN cables.
- **HDMI Port:** Connects to a monitor or TV for video output.
- **VGA Port:** Alternative video output for monitors.
- **USB Ports:** For connecting a mouse, USB drive for backup, or external HDD.
- **Net Port:** Connects the NVR to your router for internet access and remote viewing.
- **Power Port:** Connects the NVR to the power adapter.

4.2 Camera Features

The ANRAN cameras are designed for outdoor use with IP65 weather resistance, ensuring reliable operation in various environmental conditions from -10°C to 50°C.

Figure 3: Camera weather resistance features.

5. SETUP

5.1 Initial System Connection

The PoE (Power over Ethernet) design simplifies installation by transmitting both power and data through a single LAN cable. This eliminates the need for separate power adapters for each camera.

1. Connect the NVR to a monitor using an HDMI or VGA cable.
2. Connect the USB mouse to one of the NVR's USB ports.
3. Connect the NVR to a power outlet using the provided power adapter.
4. Connect each camera to a PoE port on the NVR using a LAN cable. The cameras will power on automatically.
5. For remote access, connect the NVR's Net port to your internet router using a LAN cable.

Figure 4: Simplified PoE connection using a single LAN cable.

5.2 Camera Installation

Select appropriate locations for your cameras, ensuring a clear field of view and secure mounting. The cameras can be installed up to 100 meters from the NVR using standard LAN cables.

1. Mark the drilling points on the wall or ceiling using the camera's mounting base as a template.
2. Drill holes and insert wall anchors if necessary.
3. Secure the camera mounting base with screws.
4. Adjust the camera angle as needed. The PTZ function allows for remote adjustment after installation.

6. OPERATING INSTRUCTIONS

6.1 Live View and Recording

Once connected, the cameras will automatically display live footage on the connected monitor. The system records continuously 24/7 to the internal 2TB HDD.
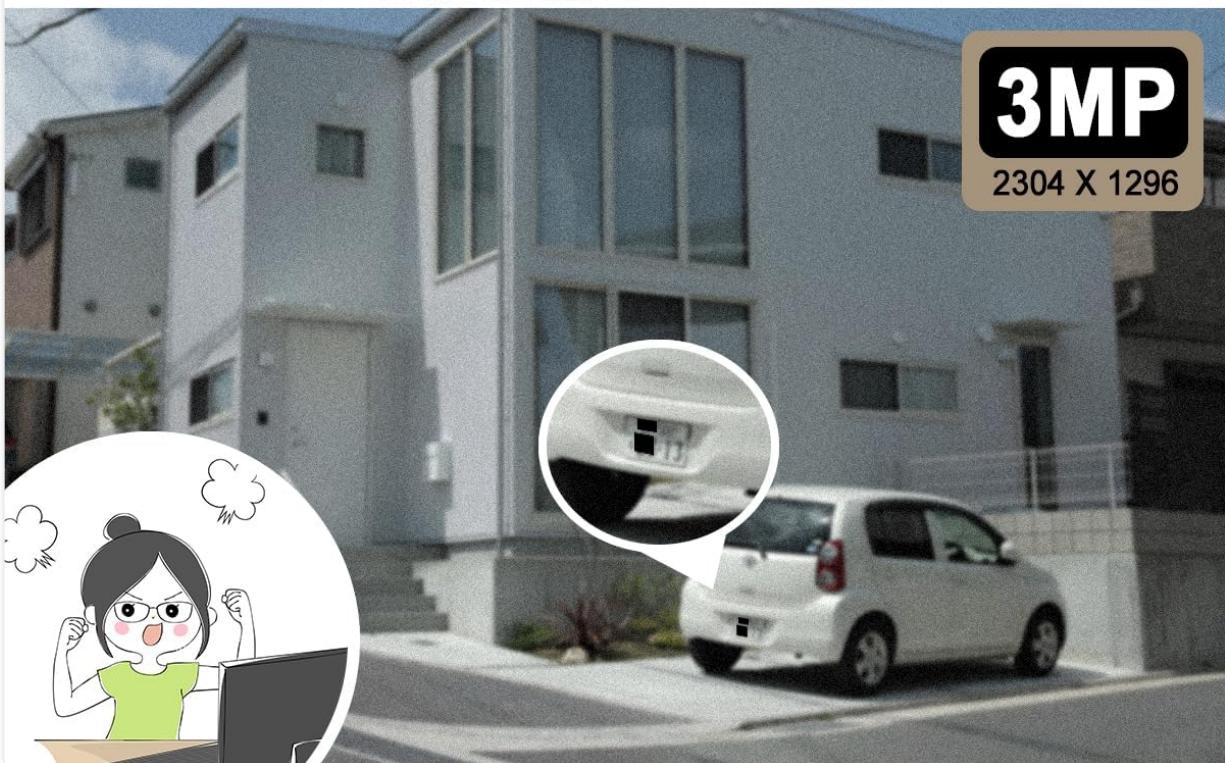
Figure 5: 4K 8MP resolution provides superior detail compared to 3MP.

6.2 PTZ Control

The cameras feature Pan-Tilt-Zoom (PTZ) functionality, allowing you to remotely adjust the camera's viewing angle. This can be controlled via the NVR interface or the dedicated smartphone application.

Figure 6: PTZ control interface on a smartphone.

- **Pan:** Rotate the camera horizontally up to 355°.
- **Tilt:** Adjust the camera vertically up to 90°.
- **Zoom:** Digital zoom is available through the software.

6.3 AI Intelligent Detection and Auto-Tracking

The system utilizes AI to differentiate between human and vehicle movement, reducing false alarms. When a human or vehicle is detected, the system can trigger an alarm, activate the camera's built-in lights, and send push notifications to your smartphone. The auto-tracking feature will automatically follow the detected subject within the camera's field of view.

Figure 7: AI detection in action with night vision and alert.

Figure 8: AI detection and alert system.

6.4 Two-Way Audio

Each camera is equipped with a built-in microphone and speaker, enabling two-way communication. You can listen to audio from the camera's location and speak through the camera using the smartphone application.

双方向通話

高精度のマイクとスピーカーを内蔵しており、遠いにいてもアプリ（ANRAN）を通じてカメラの前の人と通話することが可能です

Figure 9: Two-way audio communication via the app.

Figure 10: App interface for two-way audio.

6.5 Remote Access (App)

Download the ANRAN application on your smartphone (Android or iOS) to access live view, recorded footage, PTZ control, and two-way audio remotely. Multiple users can be granted access to view the system simultaneously.


Figure 11: Multi-camera live view on the smartphone app.

7. MAINTENANCE

7.1 Hard Drive Management

The NVR includes a 2TB HDD for continuous recording. The system uses H.265+ compression to optimize storage space. An automatic overwrite function ensures that when the hard drive is full, the oldest recordings are deleted to make space for new footage.

365日24時間常時録画・H.265圧縮技術

容量を省くため、H.265圧縮規格を採用し、H.264より約50%のストレージ容量を節約し、「24/7年中無休連続録画」を加え、24時間365日録画を続けています。

2TB
ハードディスク内蔵

10TB
拡張可能

Figure 12: Hard drive capacity and H.265+ compression benefits.

- **Capacity:** The 2TB HDD can store approximately 30 days of footage from four 5MP cameras.
- **Expansion:** The HDD is expandable up to 10TB. Refer to the NVR's internal instructions for replacement.
- **Backup:** Regularly back up important footage to an external USB drive if needed.

7.2 Firmware Updates

Periodically check the ANRAN official website or the smartphone application for available firmware updates. Keeping your system's firmware up-to-date ensures optimal performance, security, and access to new features.

7.3 Cleaning

Clean the camera lenses and NVR exterior regularly with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the surfaces.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No video display on monitor	Loose cable connection, NVR not powered on, incorrect input source on monitor.	Check HDMI/VGA cables, ensure NVR is powered, select correct input on monitor.
Camera not showing video	LAN cable disconnected, camera not receiving power, faulty camera.	Verify LAN cable connection to NVR PoE port, check cable for damage, try a different port or camera.
No remote access via app	NVR not connected to internet, incorrect app settings, network issues.	Ensure NVR is connected to router, check router's internet connection, verify app settings and NVR network configuration.
False alarms from motion detection	Sensitivity too high, environmental factors (e.g., moving branches, shadows).	Adjust detection sensitivity in NVR settings, utilize AI human/vehicle detection to filter out irrelevant motion.
Hard drive full, no new recordings	Overwrite function disabled, excessive recording settings.	Ensure automatic overwrite is enabled in NVR settings. The system is designed to manage storage automatically.

9. SPECIFICATIONS

Feature	Detail
Brand	ANRAN
Product Model Number	SW-K04P7264
Image Sensor	CMOS
Type	Wired Surveillance Camera Set (PoE)
Included Components	Camera body, LAN cable, Network Video Recorder (NVR)
Compatible Devices	Smartphones, Tablets
Camera Resolution	8 Megapixel (4K, 3840x2160p)
NVR Storage	2TB HDD (Expandable up to 10TB)
Connectivity Technology	Wired (PoE)
Video Compression	H.265+
Features	PTZ control, AI Human/Vehicle Detection, Two-way audio, Automatic overwrite, Audio recording, Color Night Vision, IP65 Weatherproof
Number of Channels	8 (supports up to 8 cameras)
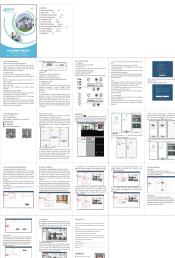
Feature	Detail
Operating Temperature	-10°C to 50°C

10. WARRANTY AND SUPPORT

ANRAN products typically come with a manufacturer's warranty. Please refer to your purchase documentation or contact ANRAN customer support for specific warranty terms and conditions.

For technical assistance, troubleshooting, or any inquiries, please contact ANRAN customer support through their official website or the contact information provided with your product. When contacting support, please have your product model number (SW-K04P7264) and purchase details ready.

Related Documents - SW-K04P7264

	ANRAN DVR Kits Quick Installation Guide A comprehensive quick installation guide for ANRAN DVR Kits, covering setup, network configuration, viewing on smart devices and PCs, recording, playback, backup, email notifications, and troubleshooting.
	ANRAN Security Camera System Instruction Manual and Setup Guide Comprehensive instruction manual and setup guide for ANRAN security camera systems, covering installation, remote view setup via mobile app, and troubleshooting.
	ANRAN PoE Security NVR Kits Quick Installation Guide Comprehensive quick installation guide for ANRAN PoE Security NVR Kits, covering system setup, remote viewing, recording, camera settings, and troubleshooting for home and business surveillance.

	[ANRAN Wireless Security Camera System FAQ and Troubleshooting Guide](#) Comprehensive FAQ and troubleshooting guide for ANRAN 2/4/6/8CH Wireless NVR Kits, covering setup, connectivity, HDD issues, camera problems, network status, and app access.
	[ANRAN Wireless Security Camera System FAQ and Troubleshooting Guide](#) Comprehensive FAQ and troubleshooting guide for the ANRAN Wireless Security Camera System, covering setup, connectivity, HDD issues, camera problems, signal strength, NVR/system issues, app access, and motion detection/alarm settings. Get answers to common questions and resolve system problems.
	[ANRAN HD Wireless IP Camera Quick Operation Guide](#) This guide provides instructions for setting up and using the ANRAN HD Wireless IP Camera, including Wi-Fi configuration, mobile app and PC client usage, recording, playback, and email notifications.