TMEZON ZR08PA

TMEZON 4K 16-Channel PoE Security Camera System

MODEL: ZR08PA

User Manual

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your TMEZON 4K 16-Channel PoE 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. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact TMEZON customer support.
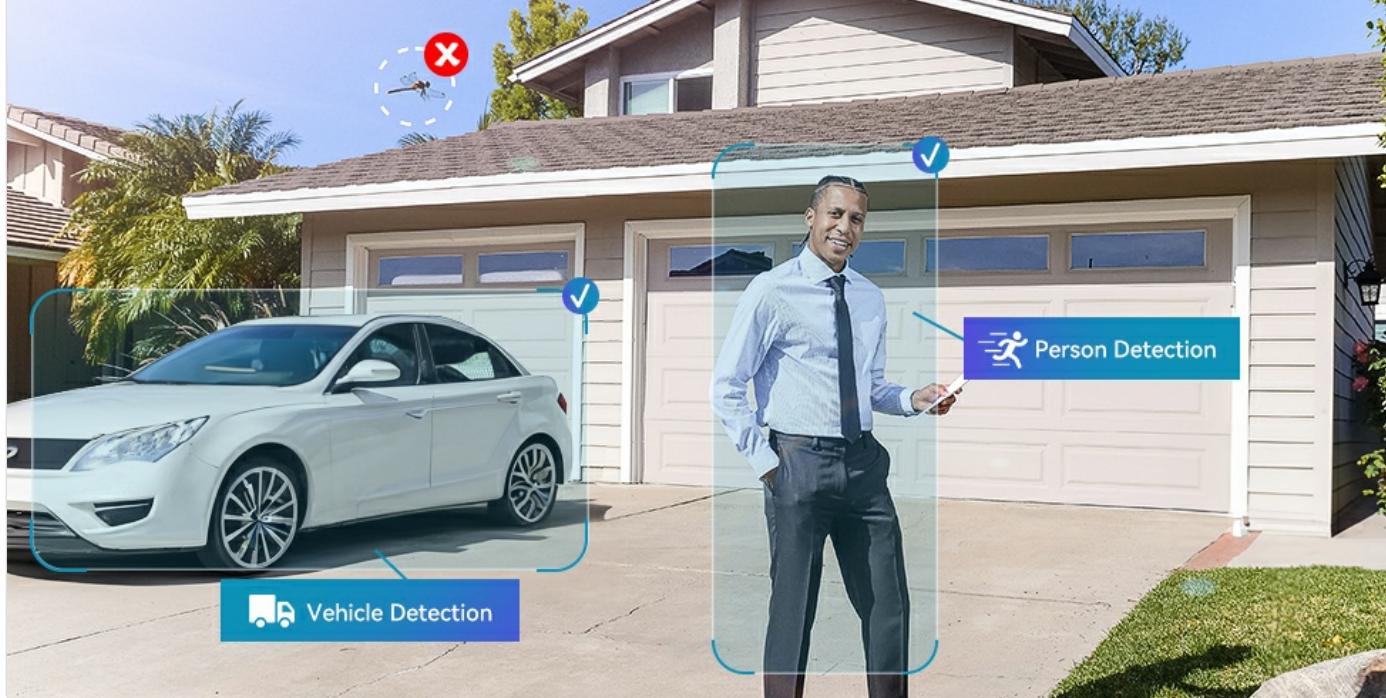
Image 2.1: Package Contents. Includes PoE NVR, 5MP PoE Cameras, 1TB HDD (pre-installed), NVR Power Supply, Network Cables, HDMI Cable, USB Mouse, Screws, Quick Start Guide, and Warning Stickers.

- 1 x TMEZON 16-Channel PoE NVR (Network Video Recorder)
- 4 x TMEZON 5MP PoE IP Cameras
- 1 x 1TB Hard Disk Drive (Pre-installed in NVR)
- 1 x NVR Power Supply
- 1 x 1M Network Cable
- 4 x 18M Network Cables
- 1 x HDMI Cable
- 1 x USB Mouse
- 1 x Pack of Screws (for camera mounting)
- 1 x Quick Start Guide
- 4 x Warning Stickers

3. System Overview

3.1 NVR and Camera Components

Image 3.1: NVR Rear Panel and Camera Features. The NVR features PoE ports, network port, audio out, HDMI/VGA ports, USB ports, and power input. The camera includes metal housing, indicator light, HD lens, microphone, infrared LEDs, and spotlights.

- **NVR (Network Video Recorder):** Central unit for recording, storing, and managing video footage. Features multiple PoE ports for direct camera connection.
- **PoE IP Cameras:** 5MP resolution cameras that receive power and transmit data over a single Ethernet cable. Equipped with night vision, microphone, and spotlights.
- **1TB HDD:** Pre-installed for continuous 24/7 recording. Expandable up to 8TB.

4. Setup Instructions

4.1 Basic Connection Diagram
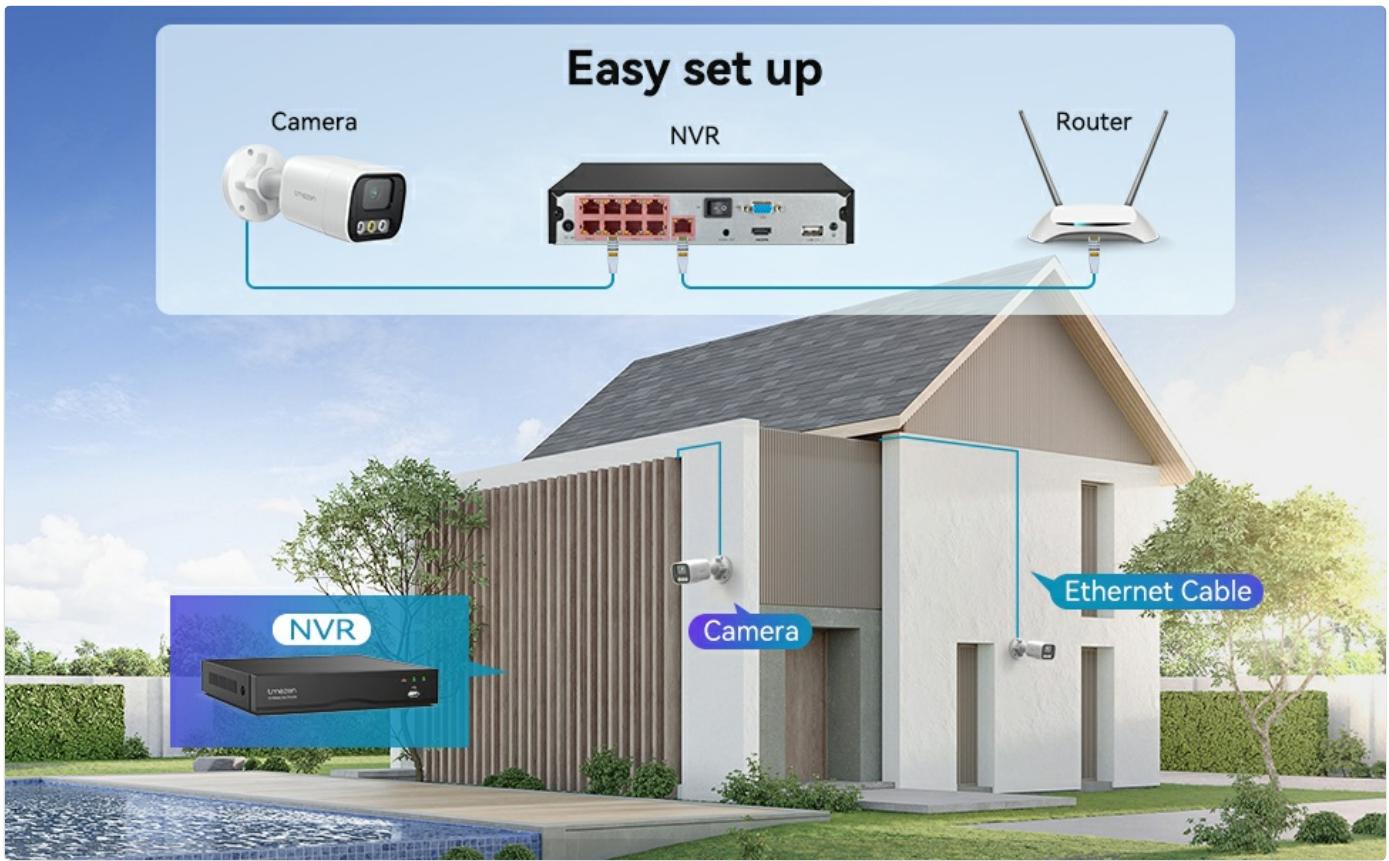
Image 4.1: Easy Setup Diagram. Shows how cameras connect to the NVR via Ethernet, and the NVR connects to a router for network access.

4.2 Step-by-Step Installation

1. **Connect NVR to Monitor:** Connect the NVR to a monitor using either a VGA or HDMI cable.

2. **Power On NVR:** Connect the 48V DC power adapter to the NVR and plug it into a power outlet. Turn on the power switch on the NVR.

3. **Connect NVR to Router:** Use an Ethernet cable to connect the NVR's network port to your router. This enables remote access and network features.

4. **Connect Cameras to NVR:** Connect each PoE camera's RJ45 network socket to any available PoE camera port on the NVR using the provided Ethernet cables. The cameras will receive power and transmit video data automatically.

5. **Connect USB Mouse:** Plug the included USB mouse into one of the NVR's USB ports for navigation and control.

6. **Automatic Camera Addition:** The cameras should be automatically detected and added to the NVR system. You will see the live feed appear on the connected monitor.

Your browser does not support the video tag.

Video 4.2: How to connect the cameras to the NVR. This video demonstrates the physical connection process for the security cameras to the Network Video Recorder.

5. Operating the System

5.1 Live View and Recording

Once connected, the NVR will display live feeds from all connected cameras. The pre-installed 1TB HDD allows for continuous 24/7 recording. You can access recordings and live view through the connected monitor or via the mobile application.

Image 5.1: 24/7 Recording Support. The system supports continuous recording to the built-in 1TB HDD, expandable up to 8TB.

5.2 Smart Detection Features

The system is equipped with advanced Person and Vehicle Detection capabilities to minimize false alarms.
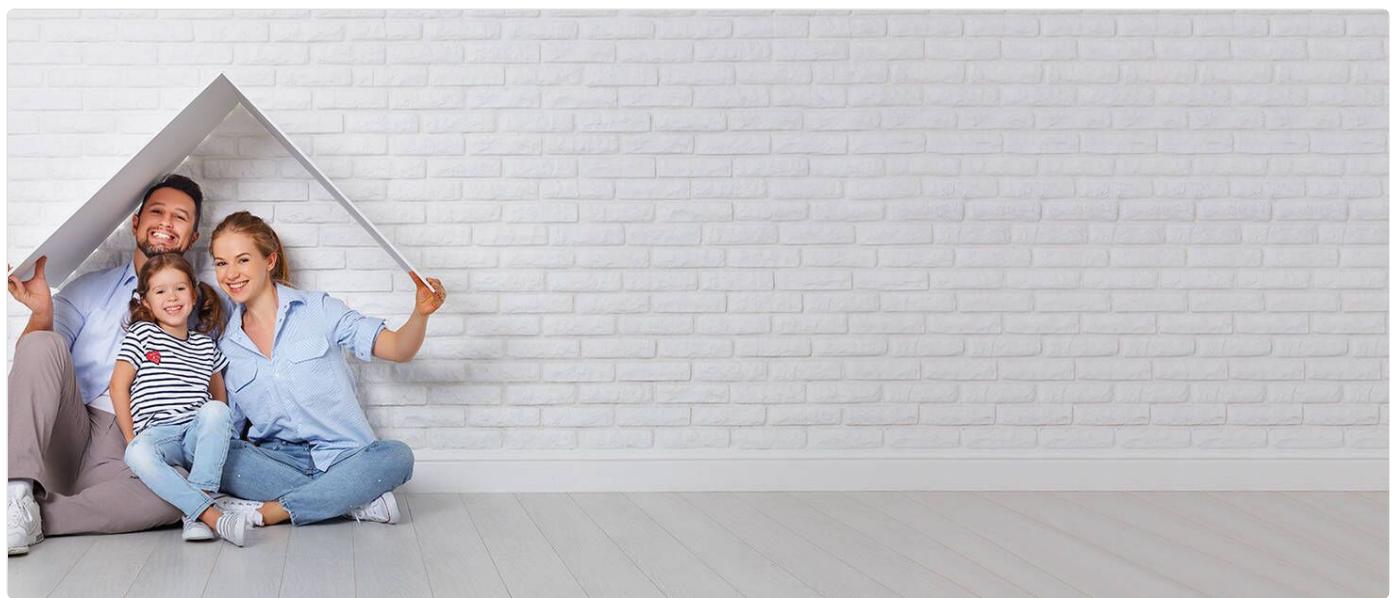

Image 5.2: Smart Person/Vehicle Detection. The system can differentiate between people, vehicles, and other moving objects, reducing unnecessary alerts.

5.3 Two-Way Audio

Each camera features a built-in microphone and speaker, enabling real-time two-way audio communication through the connected mobile application.

Image 5.3: Real-Time Two-Way Audio. Communicate directly through the camera using the integrated microphone and speaker.

5.4 Custom Security Zones and Motion Detection

Define specific areas within the camera's view for motion detection. This allows you to focus on critical zones and receive instant notifications via email or the mobile app when motion is detected in these areas.
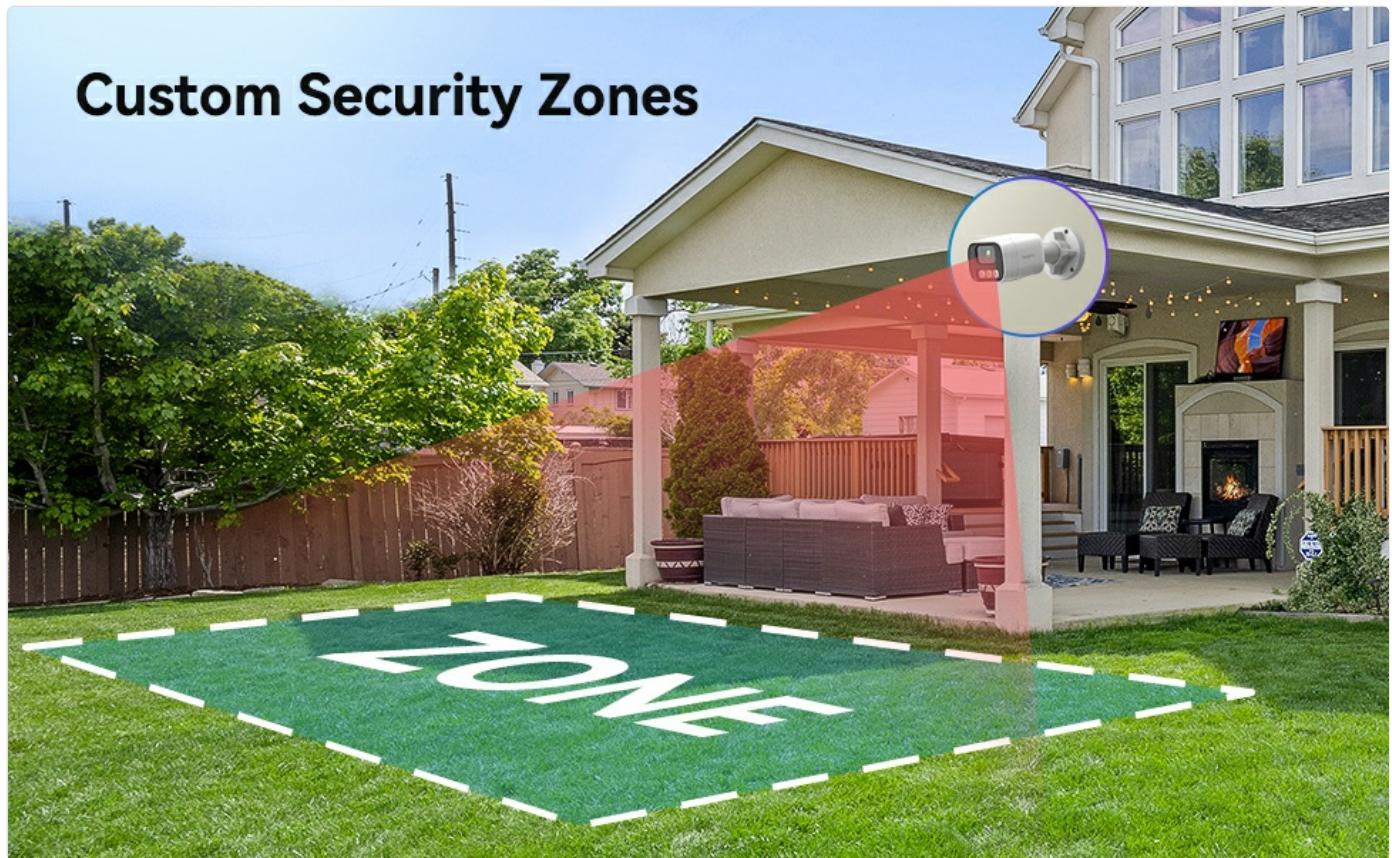
Image 5.4: Custom Security Zones. Users can define specific areas for motion detection, ignoring irrelevant zones.

Image 5.5: Motion Detection Alarm. Receive instant notifications and view live footage when motion is detected in defined areas.

5.5 H.265+ Video Compression

The system utilizes H.265+ video compression technology, which significantly reduces file sizes by up to 50% compared to H.264, optimizing storage space and bandwidth usage without compromising video quality.

Image 5.6: H.265+ Compression. Demonstrates the efficiency of H.265+ in reducing video file size compared to H.264.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your security system.

- **Camera Cleaning:** Periodically clean camera lenses with a soft, dry cloth to ensure clear image quality. Avoid abrasive cleaners.
- **Firmware Updates:** Check the TMEZON official website or the mobile application for available firmware updates. Keeping your system updated ensures access to the latest features and security enhancements.
- **Hard Drive Management:** The 1TB HDD is designed for continuous recording. If you experience storage issues, consider upgrading to a larger HDD (up to 8TB) or adjusting recording settings (e.g., motion-triggered recording) to conserve space.

- **Cable Inspection:** Regularly inspect all cables for wear and tear, especially outdoor cables, to prevent connection issues.
- **Weather Protection:** While cameras are designed to be weatherproof (Image 6.1), extreme weather conditions may require additional protective measures.


Image 6.1: Weatherproof Camera. The cameras are designed to withstand various weather conditions.

7. Troubleshooting

This section addresses common issues you might encounter with your TMEZON security system.

- **No Video Feed from Camera:**
  Possible Causes: Loose cable connection, camera not powered, NVR port issue, incorrect IP address.
  Solutions: Check all Ethernet cable connections. Ensure the NVR is powered on and the camera's PoE port is active. Verify the camera's IP address in the NVR settings.

- **NVR Not Connecting to Network:**
  Possible Causes: Ethernet cable issue, router problem, incorrect network settings.
  Solutions: Ensure the Ethernet cable between the NVR and router is securely connected. Restart your router and NVR. Check network settings on the NVR.

- **Remote Access Not Working:**
  Possible Causes: No internet connection, incorrect app settings, firewall issues.
  Solutions: Verify your NVR has internet access. Ensure the Vsees app is correctly configured and updated. Check your router's firewall settings.

- **Frequent False Alarms:**
  Possible Causes: Sensitive motion detection, environmental factors (e.g., moving branches, insects).
  Solutions: Adjust motion detection sensitivity in the NVR settings. Utilize custom security zones to exclude irrelevant areas.

- **Can I add a different camera to this system?**
  Answer: You can add any TMEZON or ZOSI PoE cameras and DC-powered WiFi cameras to the system. However, it is not recommended to add third-party cameras due to potential compatibility issues.

- **Can the system work without Internet?**
  Answer: Yes, all TMEZON PoE systems can work offline for local recording and viewing on a connected monitor. However, remote access via the Vsees App/Client will not be available without an internet connection.

8. Specifications

Key technical specifications for the TMEZON 4K 16-Channel PoE Security Camera System.

Feature	Specification

Feature	Specification
Brand	TMEZON
Model Number	ZR08PA
Connectivity Technology	Wired (PoE)
Video Capture Resolution	5MP (2592x1944), 4K (2160p) support
Special Features	Person Detection, Vehicle Detection, Night Vision, Two-Way Audio
Number of Channels	16
Memory Storage Capacity	1 TB HDD (expandable up to 8 TB)
Power Source	Corded Electric
Item Dimensions (L x W x H)	1.57 x 5.51 x 5.12 inches
Frame Rate	24 FPS or 30 FPS
Recording Mode	HD video, 24/7 Continuous
Hardware Interface	Ethernet, HDMI, VGA, USB
Video Input	RJ45 (PoE)
Weight	12.51 pounds
Date First Available	August 28, 2023

9. Warranty and Support

TMEZON products are designed for reliability and performance. For warranty information, technical support, or any inquiries regarding your security system, please visit the official TMEZON website or contact their customer service directly. Ensure you have your product model number (ZR08PA) and purchase details ready when contacting support.

Online Resources: For additional guides, FAQs, and software downloads, please refer to the TMEZON support page.