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**ARENTI AIK8-810B4**

# ARENTI AIK8-810B4 4K PoE Security Camera System User Manual

Model: AIK8-810B4

## 1. Introduction

### 1.1 System Overview

The ARENTI AIK8-810B4 is a comprehensive 4K Ultra HD Power over Ethernet (PoE) security camera system designed for reliable 24/7 surveillance. This system includes an 8-channel Network Video Recorder (NVR) with a pre-installed 2TB Hard Disk Drive (HDD) and four 8MP PoE cameras. Key features include AI-powered person and vehicle detection, full-color night vision, remote access capabilities, and IP66 weather resistance for outdoor use.

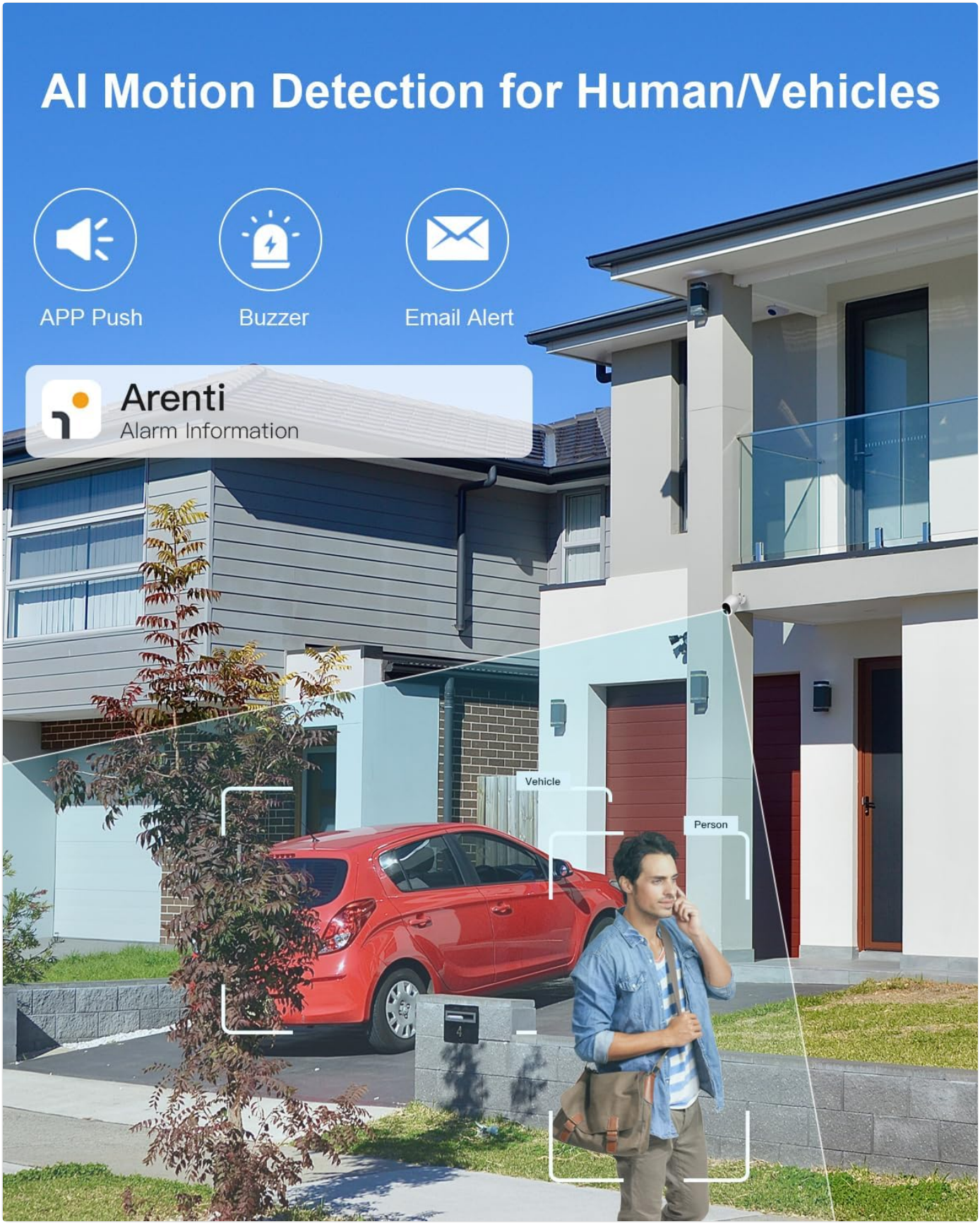



**Figure 1.1:** Overview of the ARENTI 4K PoE Security Camera System, showing the NVR and four bullet cameras.

## 1.2 Package Contents

Please check the package for the following items:

- 1 x 8-Channel 4K NVR with 2TB HDD
- 4 x 8MP 4K PoE Security Cameras
- 1 x NVR Power Adapter

- 1 x USB Mouse
- 4 x Ethernet Cables (for cameras)
- 1 x HDMI Cable
- Mounting Screw Kits for Cameras
- Quick Start Guide

## 2. System Setup

The ARENTI PoE system is designed for plug-and-play installation, simplifying the setup process.

### 2.1 NVR Connections

1. **Connect to Power:** Plug the NVR power adapter into the NVR's DC 48V port and then into a power outlet.
2. **Connect to Monitor:** Connect the NVR to a monitor using the provided HDMI cable or a VGA cable (not included).
3. **Connect to Network:** Connect the NVR's WAN port to your router using an Ethernet cable for internet access and remote viewing.
4. **Connect USB Mouse:** Plug the USB mouse into one of the NVR's USB ports for system navigation.




**Figure 2.1:** Diagram illustrating the plug-and-play PoE connection from cameras to the NVR and NVR to the network.

## 2.2 Camera Installation

1. **Mount Cameras:** Choose suitable locations for your cameras, ensuring optimal viewing angles and coverage. Use the provided mounting screws to secure the cameras.
2. **Connect Cameras:** Connect each PoE camera to one of the NVR's PoE ports using the provided Ethernet cables. The NVR will automatically power the cameras and establish video connections.

### 2.3 Initial NVR Configuration

Upon first boot, the NVR will guide you through an initial setup wizard:

- **Language Selection:** Choose your preferred language.
- **Time Zone and Date/Time:** Set the correct time zone and synchronize the date and time.
- **Password Creation:** Create a strong password for the NVR administrator account. This is crucial for security.
- **Network Settings:** Confirm network settings (usually DHCP is sufficient).
- **HDD Initialization:** The system will check and initialize the pre-installed 2TB HDD.

## 3. Operating the System

### 3.1 Live View

After initial setup, the NVR will display live feeds from all connected cameras on the monitor. You can switch between single-camera view and multi-camera grid view using the NVR interface.

### 3.2 Recording Modes

The system supports various recording options:

- **Continuous Recording (24/7):** Records video continuously. The 2TB HDD provides ample storage, and older footage is automatically overwritten when full.
- **Motion-Triggered Recording:** Records only when motion is detected, saving storage space and making event review easier.
- **Scheduled Recording:** Set specific times for continuous or motion-triggered recording.

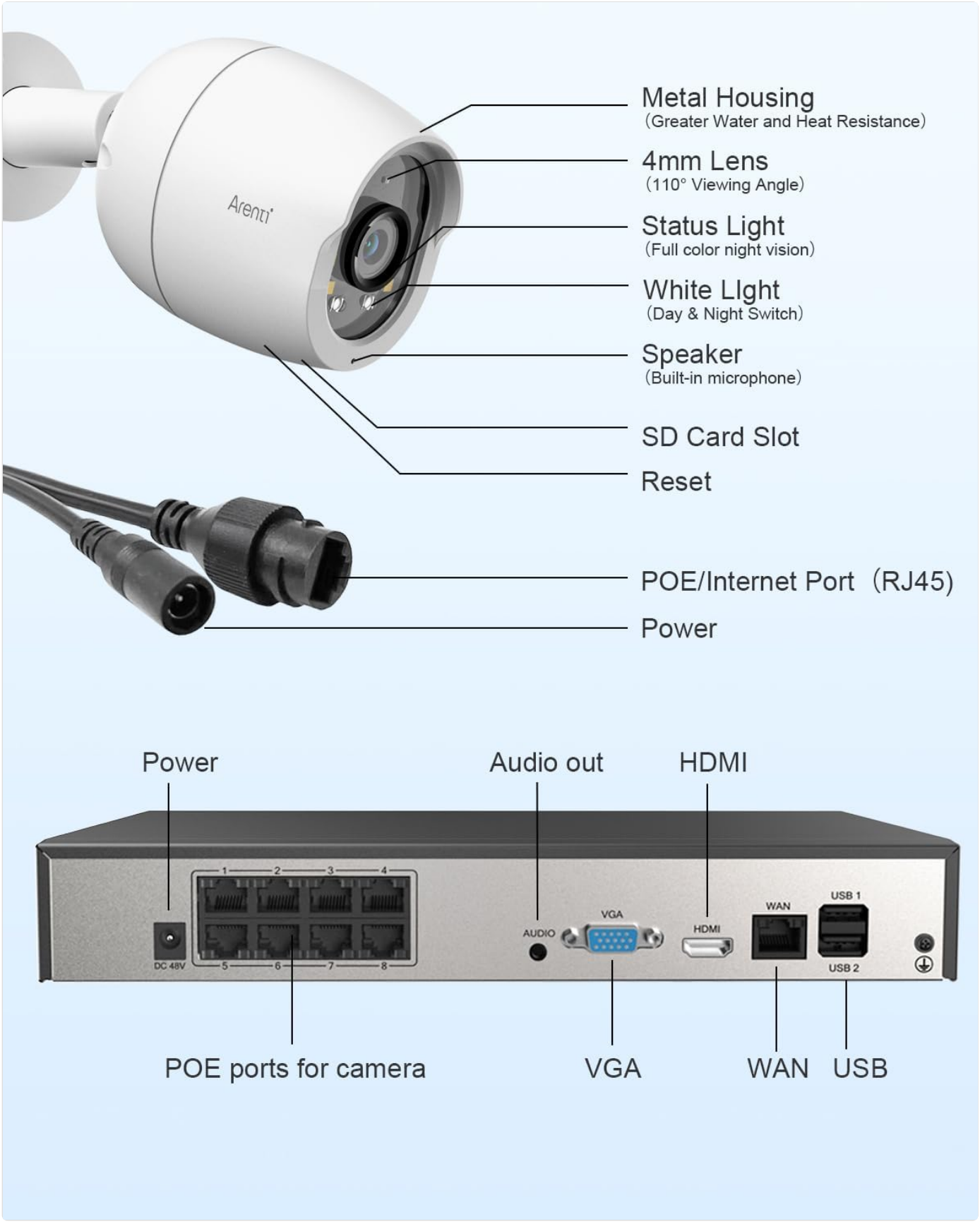



**Figure 3.1:** The NVR displaying multiple camera feeds, highlighting 24/7 recording capability and storage options up to 10TB.

### 3.3 AI Intelligent Detection

The cameras feature advanced AI algorithms to distinguish between people, vehicles, pets, and packages, significantly reducing false alarms. When a specific target is detected, the system can trigger various alerts:

- **APP Push Notifications:** Receive instant alerts on your mobile device.
- **Email Alerts:** Get notifications with snapshots sent to your email.

- **Buzzer Alarm:** The NVR can emit an audible alarm.

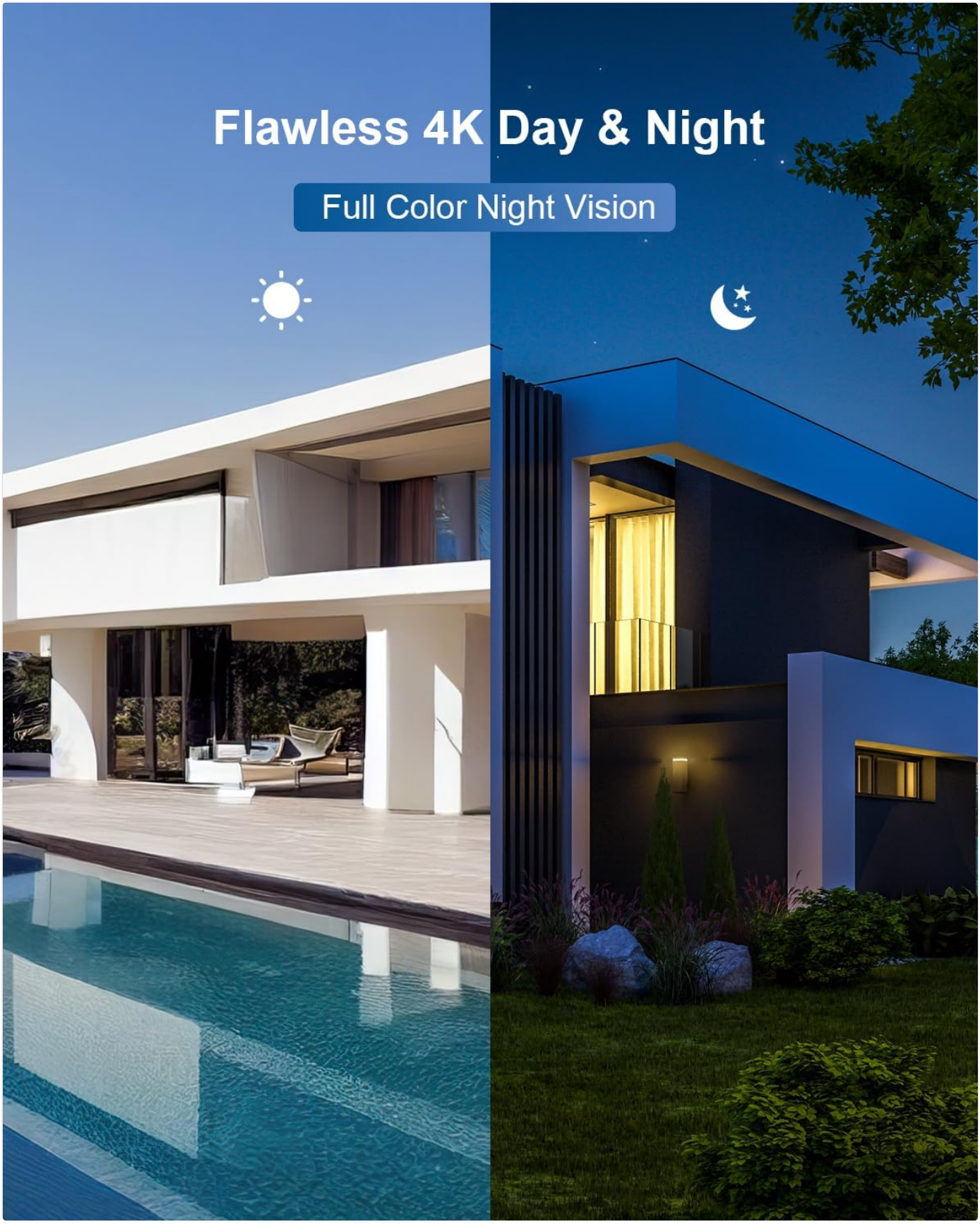



**Figure 3.2:** An example of AI detection in action, highlighting a person and a vehicle with on-screen alerts.

### 3.4 Night Vision

The 8MP cameras provide clear surveillance both day and night:

- **Full-Color Night Vision:** Utilizes built-in white lights to capture color images in low-light conditions.

- **Infrared Night Vision:** Automatically switches to infrared (black and white) mode in complete darkness, with a range of up to 32 feet.
- **Smart Switching:** The system can intelligently switch between infrared and white light modes based on ambient light conditions.

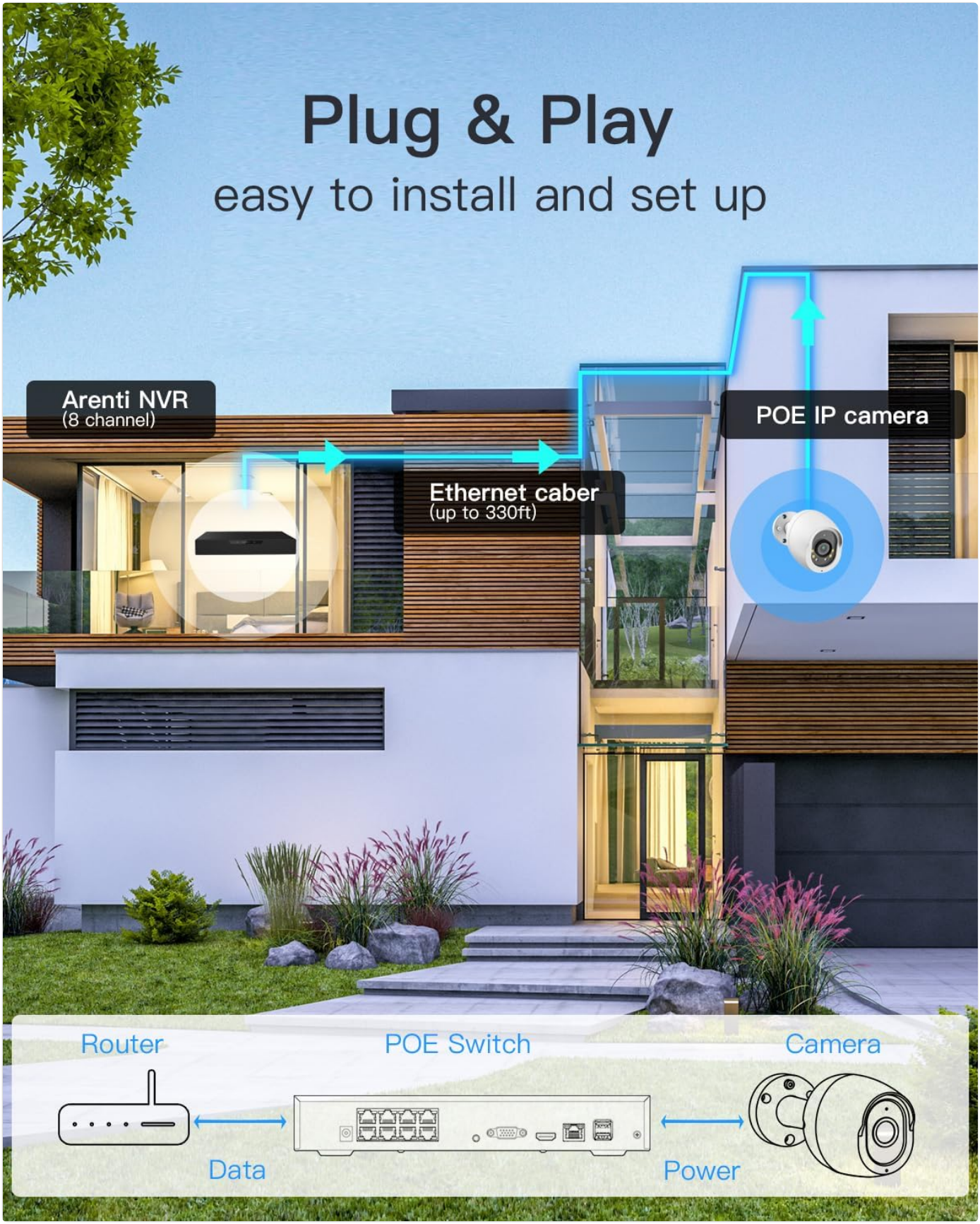



**Figure 3.3:** Comparison of daytime and full-color night vision capabilities of the 4K cameras.

### 3.5 Remote Monitoring and Two-Way Audio

Access your security system from anywhere using the ARENTI mobile app or client software:

- **Live View:** Watch real-time video feeds from your cameras.
- **Playback:** Review recorded footage stored on the NVR.
- **Two-Way Audio:** Communicate with visitors or deter intruders using the camera's built-in microphone and speaker.

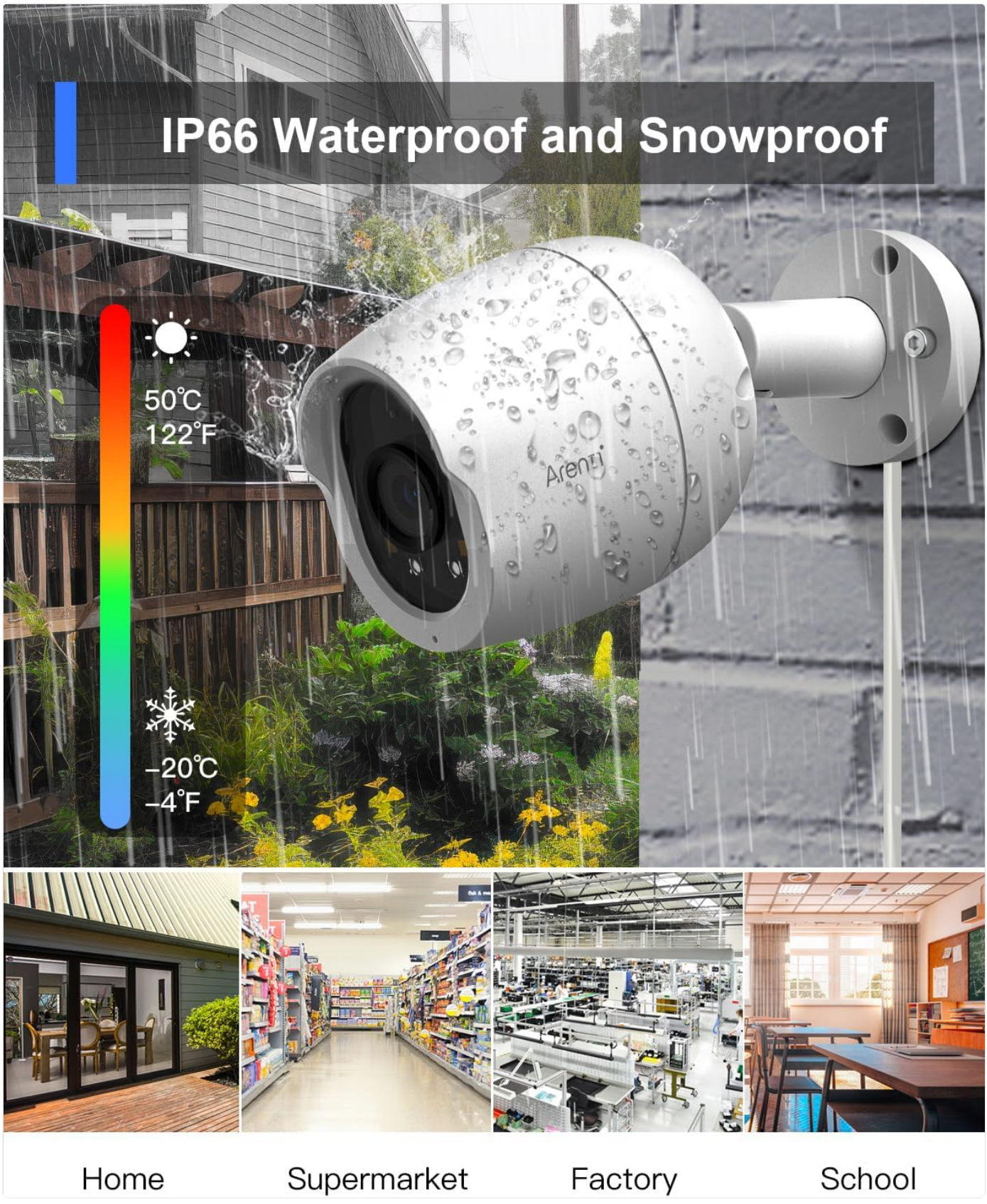



**Figure 3.4:** Demonstrates remote access via a smartphone app and the two-way audio feature for real-time communication.

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**Video 3.1:** An official ARENTI video showcasing the 4K Security Camera System with AI Detection features.

## 4. Maintenance

### 4.1 Camera Care

- **Cleaning:** Periodically clean the camera lenses with a soft, damp cloth to ensure clear image quality. Avoid abrasive cleaners.
- **Weather Protection:** The cameras are IP66 weatherproof, designed to withstand temperatures from -20°C (-4°F) to 50°C (122°F). Ensure proper mounting to prevent water accumulation.

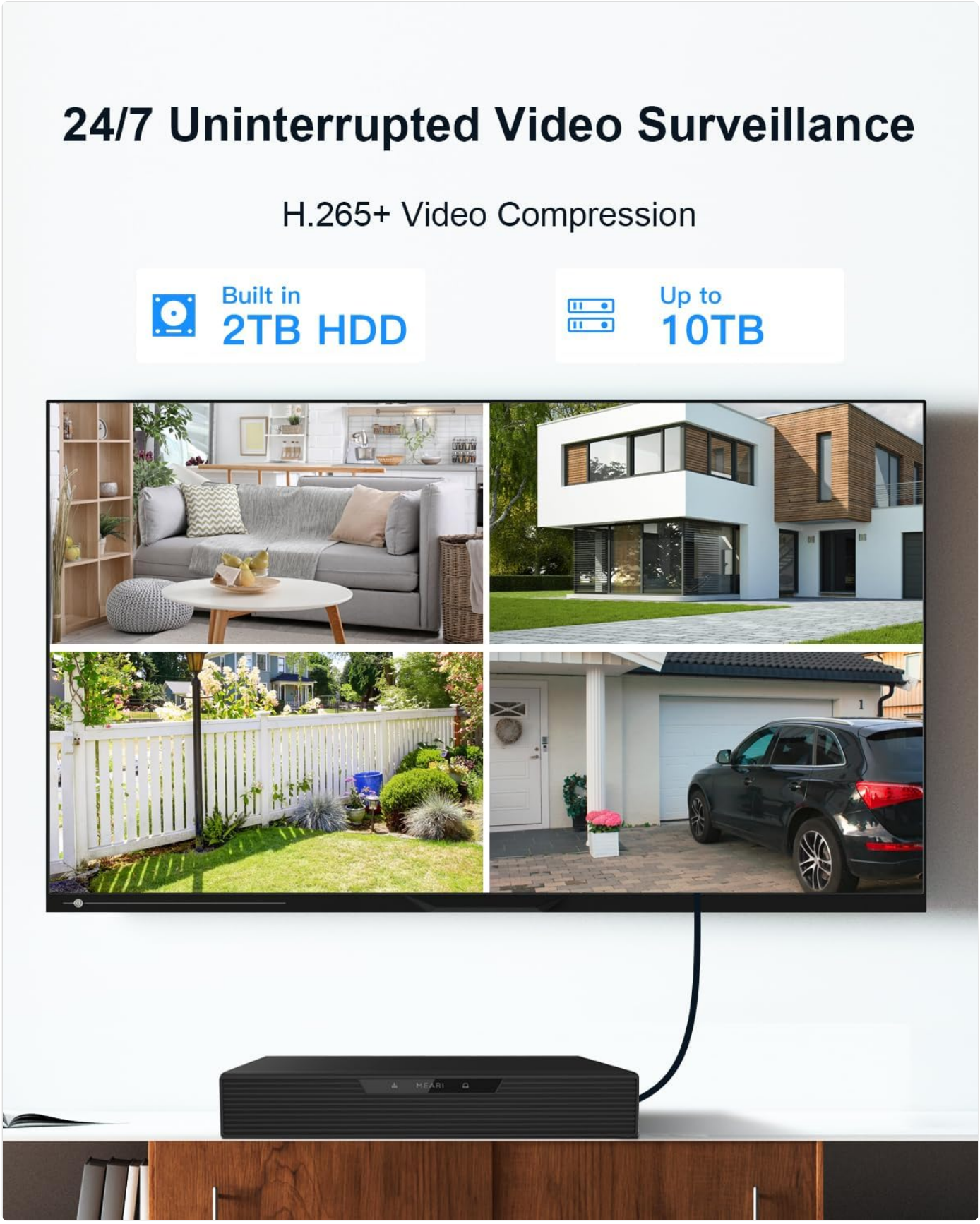



**Figure 4.1:** The IP66-rated camera operating reliably in various weather conditions, including rain.

### 4.2 NVR Maintenance

- **Ventilation:** Ensure the NVR is placed in a well-ventilated area to prevent overheating. Do not block ventilation openings.
- **Firmware Updates:** Check the ARENTI official website periodically for firmware updates to ensure optimal performance and security.

- **HDD Management:** The NVR automatically manages the 2TB HDD. If you wish to expand storage, the NVR supports up to a 10TB HDD.

## 5. Troubleshooting

### 5.1 No Video Display

- **Check Power:** Ensure the NVR and monitor are powered on.
- **Cable Connections:** Verify HDMI/VGA cables are securely connected between the NVR and monitor.
- **Camera Connection:** For individual cameras, check the Ethernet cable connection to the NVR's PoE port.

### 5.2 No Recording

- **HDD Status:** Check the NVR's system settings to ensure the HDD is recognized and healthy.
- **Recording Schedule:** Verify that recording schedules are correctly configured.
- **Motion Detection Settings:** If using motion-triggered recording, ensure sensitivity and detection zones are properly set.

### 5.3 Remote Access Issues

- **Network Connection:** Ensure the NVR is connected to the internet (WAN port connected to router).
- **Router Settings:** Check your router's internet connection.
- **App/Client Status:** Ensure your mobile device or computer has a stable internet connection and the ARENTI app/client is up to date.

### 5.4 Frequent False Alarms

- **AI Detection:** Ensure AI detection is enabled and configured for specific targets (person/vehicle).
- **Sensitivity:** Adjust motion detection sensitivity to a lower level if necessary.
- **Detection Zones:** Configure detection zones to exclude areas with frequent irrelevant motion (e.g., trees swaying).

## 6. Specifications

| Feature | Specification |
|---|---|
| Model Number | AIK8-810B4 |
| Video Capture Resolution | 4K (8MP) |
| Number of Channels | 8 |
| Connectivity Technology | Wired (PoE) |
| Special Features | AI Person/Vehicle Detection, Motion Sensor, Night Vision, Waterproof (IP66) |
| Memory Storage Capacity | 2 TB HDD (pre-installed), expandable up to 10 TB |
| Night Vision Range | 32 feet |
| Operating Temperature | -20°C to 50°C (-4°F to 122°F) |
| Video Compression | H.264+ |
| Viewing Angle | 86 degrees |

| | |
|---|---|
| Recording Mode | 24/7 Continuous and Motion-triggered Video Recording |

## 7. Warranty and Support

ARENTI products come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included in your package or visit the official ARENTI website.

For technical support, troubleshooting assistance, or any product-related inquiries, please contact ARENTI customer service through their official website or the contact information provided in your product documentation.

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