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› [ZOSI 1080p HD-TVI Pan/Tilt Dome Surveillance Camera \(Model 4AK-2802B-US-VC\) Instruction Manual](#)

ZOSI 4AK-2802B-US-VC

ZOSI 1080p HD-TVI Pan/Tilt Dome Surveillance Camera Instruction Manual

Model: 4AK-2802B-US-VC

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ZOSI 1080p HD-TVI Pan/Tilt Dome Surveillance Camera. Please read this manual thoroughly before using the product to ensure proper setup and functionality. This camera is designed for both indoor and outdoor surveillance, offering 360° pan and 140° tilt capabilities, 1080p full HD video, audio recording, and infrared night vision.

PACKAGE CONTENTS

- ZOSI 1080p HD-TVI Pan/Tilt Dome Camera (x4)
- Power Adapter (x1)
- 1 to 4 Power Splitter (x1)
- 60ft BNC Cable (x4)
- Quick Start Guide (x1)
- Mounting Screw Bag (x4)
- Mounting Template (x4)
- Warning Sticker (x4)

Package Contents



Camera

x4



Power Adapter



x1



x4

1 To 4 Power Splitter

60ft BNC Cable



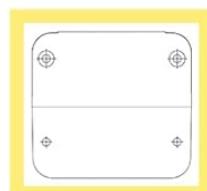
x1

Quick Start Guide



x4

Mounting Screw Bag



x4

Mounting Template



x4

Warning Sticker

Figure 1: Contents of the ZOSI 1080p HD-TVI Pan/Tilt Dome Camera package.

KEY FEATURES

- 1080p Full HD Video:** Captures clear and detailed footage with a 2MP CMOS sensor (1920×1080 resolution).
- 360° Pan & 140° Tilt:** Allows comprehensive monitoring without blind spots, controllable via app or DVR.
- Built-in Audio:** Records high-quality audio along with video for enhanced situational awareness.
- Powerful Infrared Night Vision:** Provides up to 65ft (20m) of clear black-and-white night vision using 6 IR LEDs and an

automatic ICR filter.

- **IP66 Weatherproof Design:** Durable ABS housing protects against rain, dust, and snow, operating reliably from -20°C to 55°C.
- **Easy Installation & DVR Compatibility:** Connects via BNC cable and DC12V power supply, compatible with ZOSI 1080P/5MP TVI DVRs (requires specific DVR firmware versions).
- **Human/Vehicle Detection:** AI-driven motion detection to classify humans and vehicles, reducing false alarms.

SETUP

Installation Requirements

- This camera is an add-on analog camera and is not a standalone device. It requires a compatible ZOSI 1080P/5MP TVI DVR for operation.
- Ensure your DVR firmware is updated to v1.8.1 or above for 8CH DVRs (ZM08JM/ZR08JN/ZR08VM/ZR08VN) and v1.8.1+ for ZOSI 16CH DVRs.
- For stable pan/tilt operation, use a 2-in-1 BNC video + DC power Siamese cable made of CCA (copper-clad aluminum) or pure copper.
- The camera can be mounted on a ceiling or wall. Use the provided mounting template and screws.

Connection Diagram

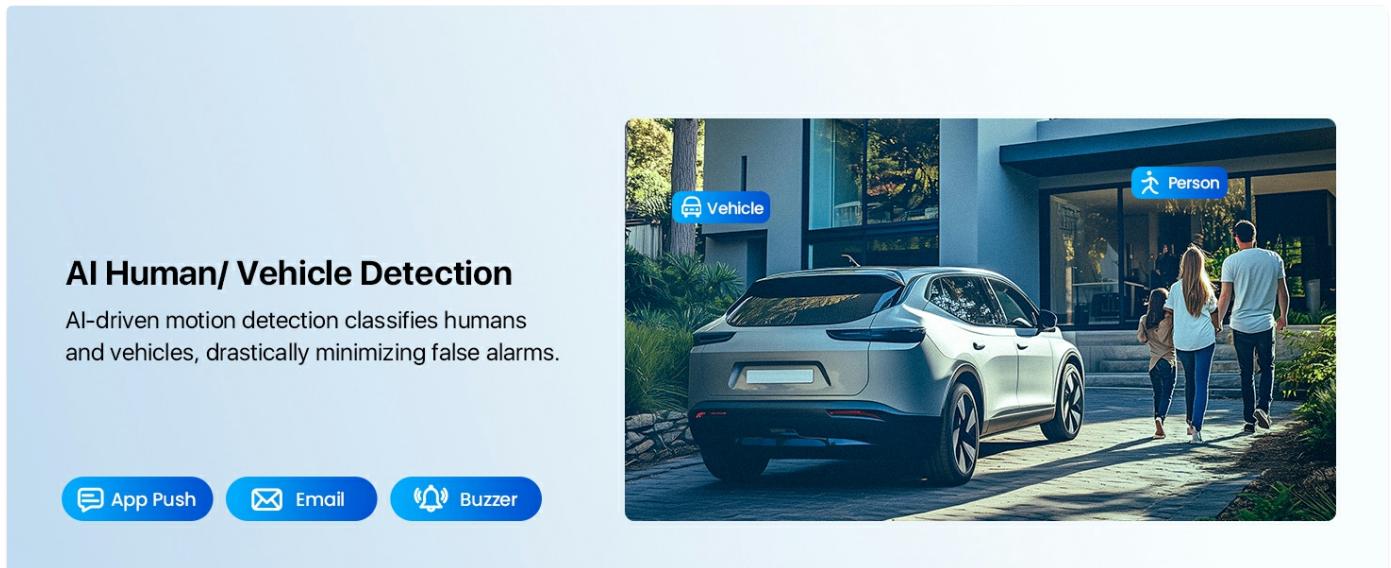


Figure 2: Connection diagram for the ZOSI Pan/Tilt camera to a compatible DVR. Note that the DVR, power adapter, and BNC cable are not included with the camera unit itself.

Connect the camera to your ZOSI DVR using the BNC cable for video transmission and the DC12V power supply. Ensure all connections are secure. Refer to your DVR's manual for specific port identification and setup procedures.

OPERATION

Pan & Tilt Functionality

The camera features 360° horizontal rotation (pan) and 140° vertical tilt, allowing you to adjust the viewing angle remotely. This functionality is controlled through the ZOSI mobile application or directly from your connected DVR interface.

360° Pan & Tilt 2MP Add-On Camera

Work with ZOSI 2MP/5MP/8MP DVR



Figure 3: Remote control of camera pan and tilt via the ZOSI mobile application.

Video 1: Demonstration of the ZOSI camera's 360° pan and tilt capabilities, showing how the camera can be remotely adjusted to cover a wide area.

Night Vision

The camera is equipped with infrared (IR) LEDs and an automatic ICR filter to provide clear surveillance in low-light or complete darkness. It automatically switches between color mode during the day and black-and-white IR mode at night, with a night vision range of up to 65 feet (20 meters).



Figure 4: Comparison of daytime color footage and nighttime black-and-white infrared footage.

Audio Recording

A built-in microphone allows the camera to record audio along with video footage. This provides additional context and information for surveillance. The audio is one-way, meaning you can listen to the camera's surroundings but cannot speak through the camera.

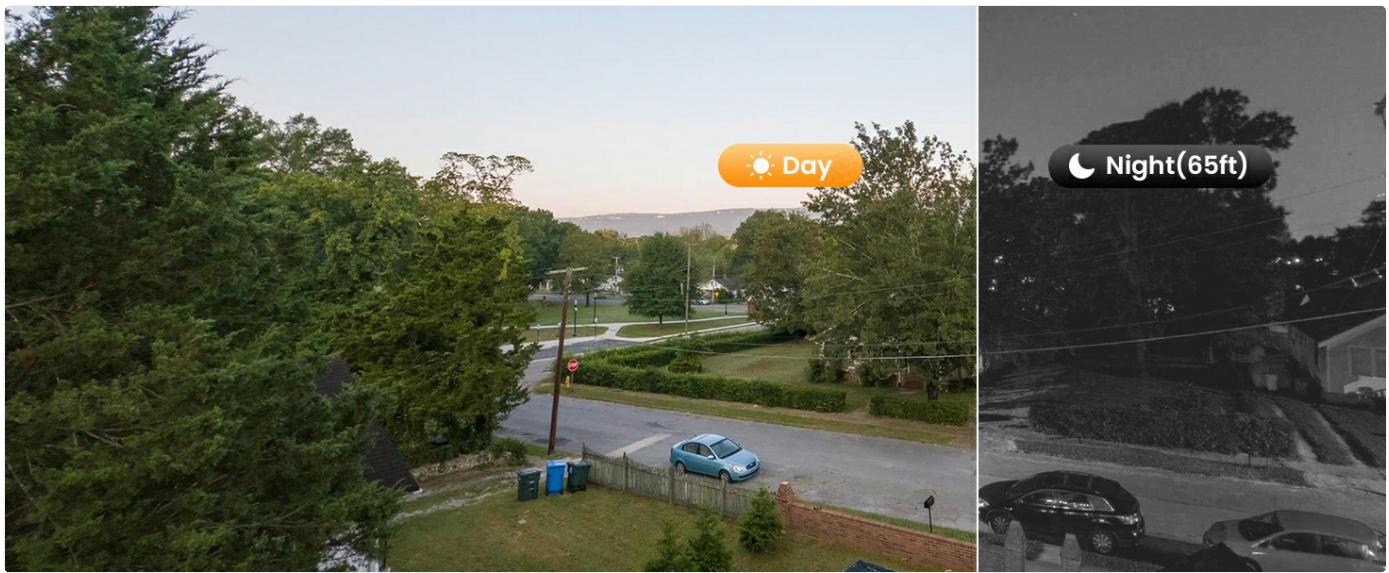


Figure 5: The camera's one-way audio capability captures sound from its environment.

Human/Vehicle Detection

The camera utilizes AI-driven motion detection to intelligently distinguish between human and vehicle movements. This feature helps to minimize false alarms caused by environmental factors and ensures you receive relevant notifications.



Figure 6: Human and vehicle detection with corresponding app push, email, or buzzer alerts.

Remote Access and Playback

Access your surveillance system and review recorded footage from any device, whether locally or remotely. The ZOSI app provides full control and smart playback features, allowing you to easily review key moments with event detection.

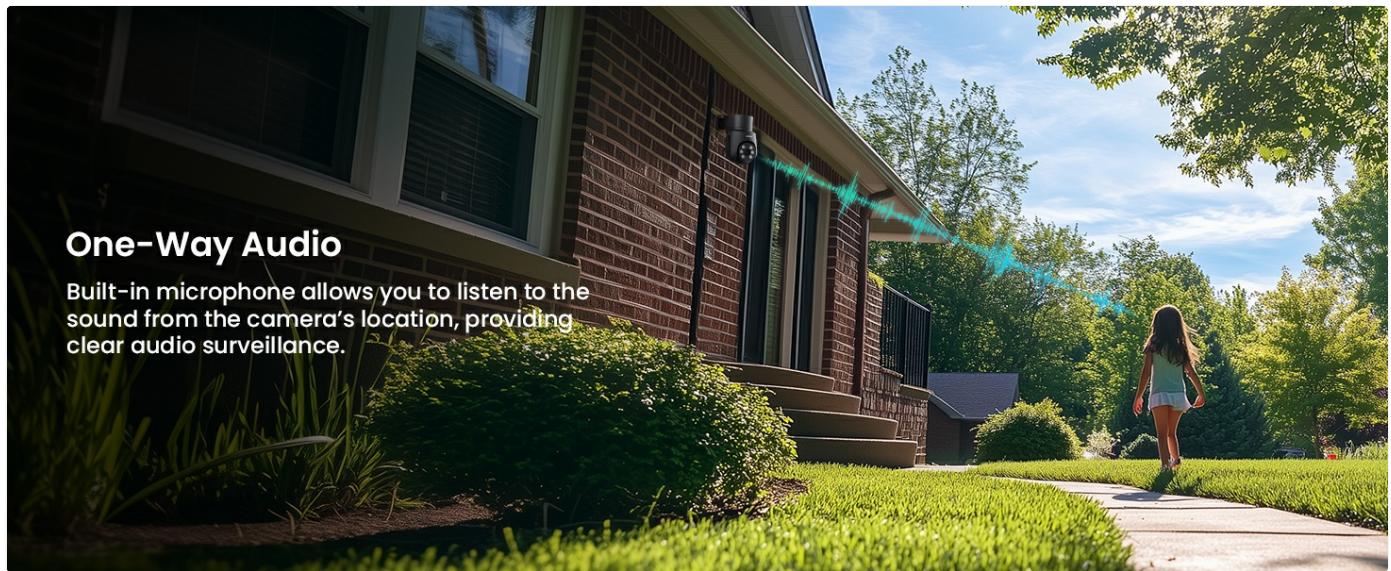


Figure 7: Remote access and smart playback across multiple devices.

MAINTENANCE

Weatherproof Design

The camera features an IP66-rated ABS housing, providing protection against dust and water ingress. This design ensures reliable operation in various weather conditions, including rain and snow, within a temperature range of -20°C to 55°C.



Figure 8: The camera's IP66 weatherproof construction for outdoor durability.

Regularly inspect the camera's housing and mounting for any signs of damage or loose connections. Clean the lens periodically with a soft, damp cloth to ensure optimal image clarity. Avoid using harsh chemicals or abrasive materials.

TROUBLESHOOTING

If you encounter any issues with your ZOSI camera, please refer to the troubleshooting section of your ZOSI DVR manual or contact ZOSI customer support for assistance. Common issues may include:

- No video signal: Check BNC cable connections, power supply, and DVR compatibility.
- Pan/Tilt not responding: Ensure the 2-in-1 BNC video + DC power Siamese cable is correctly installed and made of appropriate material (CCA or pure copper).

- Poor night vision: Verify the camera lens is clean and there are no obstructions.
- False motion alerts: Adjust detection sensitivity settings in your DVR or app.

SPECIFICATIONS

Feature	Detail
Brand	ZOSI
Model Number	4AK-2802B-US-VC
Connectivity Technology	Wired
Video Capture Resolution	1080p (2MP)
Special Feature	Night Vision, Pan/Tilt, Audio Recording, Human/Vehicle Detection
Color	Black
Power Source	Corded Electric (DC12V)
Item Dimensions (L x W x H)	17.3 x 4.7 x 11.4 inches (packaging)
Recommended Uses	Indoor/Outdoor
Compatible Devices	ZOSI 1080P/5MP TVI DVRs, Smartphones (for remote viewing)
Weatherproof Rating	IP66
Operating Temperature	-20°C to 55°C (-4°F to 131°F)
Night Vision Range	Up to 65ft (20m)

WARRANTY AND SUPPORT

Warranty

- ZOSI offers a 2-Year Coverage for this product.
- A 30-Day Hassle-Free Return Policy is also available.

Technical Support

- ZOSI provides Lifetime Technical Support for its products.
- For any technical inquiries or assistance, please contact ZOSI customer service.

Related Documents - 4AK-2802B-US-VC

