

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



x4

Camera



x1

Power Adapter



x1

1 To 4 Power Splitter



x4

60ft BNC Cable



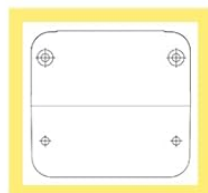
x1

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

AI Human/ Vehicle Detection

AI-driven motion detection classifies humans and vehicles, drastically minimizing false alarms.

 App Push

 Email

 Buzzer




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.

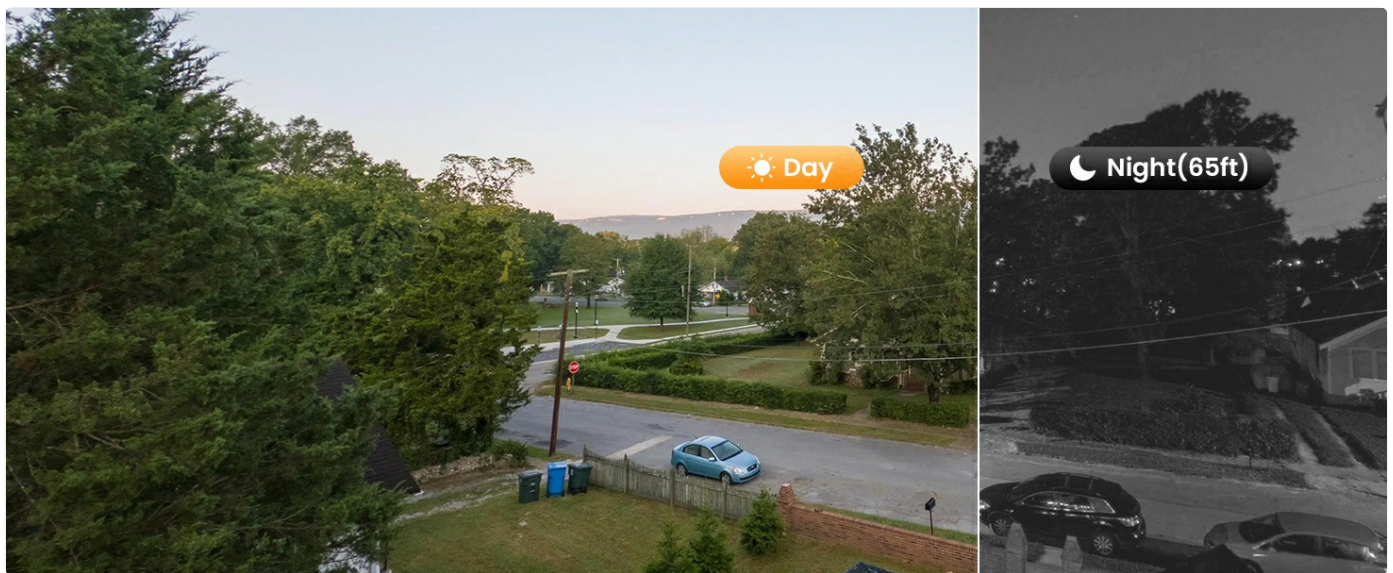


Figure 5: The camera's one-way audio capability captures sound from its environment.

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.

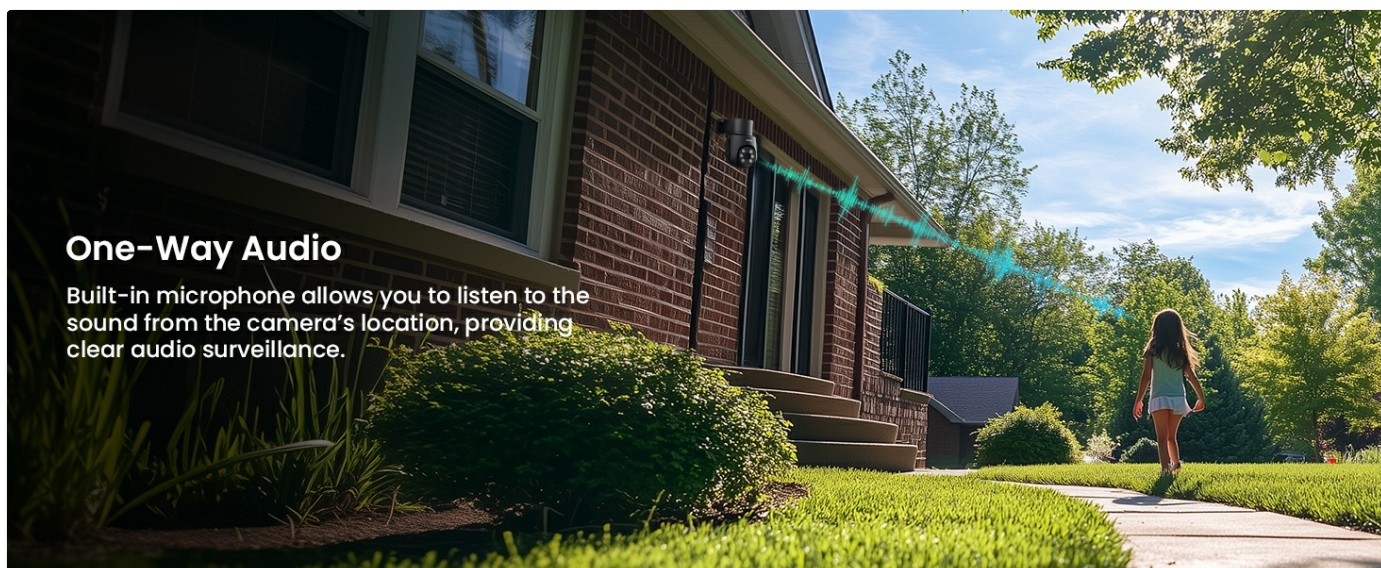


Figure 7: Remote access and smart playback across multiple devices.

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



for more information of your new system, please refer to www.asiatech.com

A quick start guide for setting up and using the ZOSI Digital Video Recorder, including setup instructions, system access, and basic operations.

- Functional characteristics
 - High performance 2 megapixel 7.47 inch high resolution CMOS sensor
 - SuperISO adjusted to maximize sensitivity, minimize color to black fraction, reduce dark and signal-noise
 - Superadjusted autofocus function to effectively process color image-related information
 - Supports a maximum sensor dimension distance of 20 meters
 - Supports automatic exposure, automatic white balance functions, enable the maximum frame rate
 - FTE coded
- The product has low technology EPC₂ + 1/2V_{CC} high and low level protection circuit and can be used easily with high level-resolution
- Supports DC/DC 1.8V/1.5V with voltage supply

Supports conventional models		
in product information	product model	CMB
	product rate	Indirect fixed three-way regression product variance
	fixed main effects (main effects)	
	fixed	3-DF (1000-1000)
ORDER	Maximum sample size	1000-1000
	Fixed rate	2-DF
	Computing power	1000-1000 (1000-1000)
	Equal system	1000-1000 (1000-1000)

Explore the detailed technical specifications and features of the C280 2MP Pan-Tilt Security Camera, including its high-resolution CMOS sensor, advanced AI capabilities, and robust weatherproofing.



for more information of your new system, please refer to www.asiitk.com

User manual for ZOSI POE NVR Security Camera Systems, detailing connectivity and system components. Includes English and Spanish references for product identification.



for more information of your new system, please refer to www.insitark.com

A comprehensive guide to setting up and using your ZOSI Digital Video Recorder, covering system introduction, network connection, app setup, PC client usage, hard disk installation, video recording, and FAQs.



Thanks for your purchase at ZOSL

This quick start guide will guide you through the initial installation and related settings. In addition to following this guide, please visit <https://zosl.tech> for more installation videos, tips and detailed information.

If you have any problems about our products, please visit our online support center (<https://www.zosled.com/support-center/>) or contact us by email, sales@zosl.com

2019 Technology Co., Ltd.
3/F, Tatan Industrial Park,
Hongfeng District, Zhuhai, Guangdong 519002, China

Get started with your ZOSI W4 Pro Wireless Security Camera System with this comprehensive Quick Start Guide. This guide covers unboxing, system connection, camera installation, hard disk setup, remote viewing via the ZOSI Smart App and AVSS Client, device management, and warranty information. Perfect for setting up your home or business security.



For more information of the case, please go to www.courts.ca.gov/cases.htm.

A comprehensive quick start guide for the ZOSI C289 Pan Tilt Zoom WiFi Camera, covering setup, app registration, device addition, configuration, remote access, and FAQs.