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VIKVIZ B0FN44CQH7

VIKVIZ 5MP PTZ IP PoE Security Camera User Manual

Model: B0FN44CQH7

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your VIKVIZ 5MP PTZ IP PoE Security Camera. Please read this manual thoroughly before using the product to ensure proper setup and functionality. Keep this manual for future reference.

2. Product Overview

The VIKVIZ 5MP PTZ IP PoE Camera is an advanced outdoor surveillance solution designed for comprehensive monitoring. It features high-definition imaging, extensive pan/tilt/zoom capabilities, and intelligent detection functions.

Key Features:

- **5MP HD Image & 18X Optical Zoom:** Provides clear 3840*2160@20fps resolution with a 4.7mm~84.6mm lens for detailed viewing of distant objects.
- **Pan & Tilt Functionality:** Offers 360° pan and 90° tilt for full area coverage without blind spots.
- **IR Night Vision:** Equipped with 6 infrared LED lights for clear images up to 328 feet (100 meters) in low light or total darkness.
- **Human Auto Tracking & Detection:** Supports human/vehicle detection and automatic tracking, reducing false alarms and sending real-time snapshots.
- **PoE (Power over Ethernet):** Simplifies installation with a single network cable for both power and data transmission.
- **IP66 Weatherproof:** Certified for outdoor use, resistant to dust and water immersion.
- **Two-Way Audio:** Built-in microphone and speaker enable real-time conversation.
- **Remote P2P Access:** Easy access via the Videolink mobile app for live viewing, playback, and alerts.
- **Storage:** Supports up to 512GB MicroSD card (not included) and compatibility with NVRs and FTP servers.
- **H.265+ Encoding:** Efficient video compression saves bandwidth and storage space.

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Figure 2.1: Front view of the VIKVIZ 5MP PTZ IP PoE Security Camera.

Figure 2.2: Overview of the camera's main features including 5MP HD, two-way audio, human auto tracking, IP66 protection, H.265+ encoding, P2P mobile viewing, and MicroSD storage.

3. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- VIKVIZ 5MP PTZ IP PoE Camera
- Instruction Manual
- Mounting Screw Kit
- Power Adapter (for non-PoE setup)
- Stand / Mounting Bracket
- Waterproof Cap

Figure 3.1: Illustration of the camera's components and the items included in the package, such as the camera, mounting accessories, power adapter, and manuals.

4. Installation and Setup

4.1 Mounting Options

The camera supports both ceiling mount and wall mount installations. Choose a location that provides the desired viewing angle and is within range of your network and power source (if not using PoE).

1. Secure the mounting bracket to the chosen surface using the provided screws.
2. Attach the camera to the mounting bracket.
3. Adjust the camera's orientation as needed before final tightening.

4.2 Power and Network Connection

The camera offers two primary connection methods:

- **PoE (Power over Ethernet):** Connect a single Ethernet cable from a PoE-enabled NVR or PoE switch directly to the camera's Ethernet port. This cable will provide both power and data.
- **Standard Power & Network:** Connect the provided power adapter to the camera's power input and

plug it into an electrical outlet. Then, connect an Ethernet cable from your router or switch to the camera's Ethernet port.

Ensure all connections are secure and, for outdoor installations, use the waterproof cap for the Ethernet connection to protect against environmental elements.

Figure 4.1: The camera supports PoE for simplified wiring and is IP66 weatherproof for outdoor durability.

5. Operating Instructions

5.1 Initial Access and Configuration

After connecting the camera, you can access it via a compatible NVR, a web browser, or the Videolink mobile application. Refer to the quick start guide for initial network discovery and login credentials.

5.2 Pan, Tilt, and Zoom (PTZ) Control

The camera offers extensive PTZ capabilities:

- **Pan:** 360° horizontal rotation for wide area coverage.
- **Tilt:** 90° vertical rotation to adjust the viewing angle.
- **Optical Zoom:** 18X optical zoom (4.7mm~84.6mm lens) allows you to magnify distant objects without

loss of image quality.

- **Digital Zoom:** 30X digital zoom provides further magnification, though with potential pixelation.

Control PTZ functions through your NVR interface, web browser, or the Videolink app.

Figure 5.1: The camera's 18X optical zoom allows for clear magnification of distant details, such as vehicle license plates.

5.3 Human/Vehicle Detection and Auto Tracking

The camera can intelligently distinguish between human and vehicle movement, reducing false alarms from other sources like animals or swaying branches. When a person or vehicle enters the detection area, the camera can:

- Automatically track the subject's movement.
- Send real-time snapshots and alerts to your mobile device.
- Trigger recording.

Detection areas and sensitivity can be adjusted in the camera's settings.

Figure 5.2: Smart motion detection identifies humans and vehicles, triggering timely alerts and actions.

Figure 5.3: The camera's human tracking and auto cruise features provide continuous monitoring of subjects and predefined patrol routes.

5.4 Two-Way Audio

The integrated microphone and speaker allow for two-way communication. You can listen to audio from the camera's location and speak through the camera using the mobile app or compatible software.

Figure 5.4: Two-way audio enables direct communication through the camera, facilitating interaction with visitors or deterring intruders.

5.5 Recording Options

The camera supports multiple recording methods:

- **MicroSD Card:** Insert a MicroSD card (up to 512GB, not included) into the camera's slot for local storage.
- **NVR (Network Video Recorder):** Connect the camera to a compatible NVR for continuous or event-based recording. The camera supports RTSP and ONVIF protocols for broad compatibility.
- **FTP Server:** Configure the camera to upload recordings to an FTP server for remote storage.

Figure 5.5: The camera offers flexible recording options including MicroSD card, NVR integration, and FTP server support.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your camera.

- **Cleaning:** Periodically clean the camera lens and dome with a soft, damp cloth. Avoid abrasive cleaners that could scratch the surface.
- **Firmware Updates:** Check the manufacturer's website or the Videolink app for available firmware updates. Keeping the firmware updated can improve performance, add features, and enhance security.
- **Cable Inspection:** Regularly inspect all cables for signs of wear or damage, especially for outdoor installations. Ensure waterproof caps are securely in place.
- **Environmental Checks:** Although IP66 rated, ensure the camera is not exposed to extreme conditions beyond its operating limits. Clear any obstructions that might block the camera's view or ventilation.

7. Troubleshooting

If you encounter issues with your camera, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image/video feed	No power; Network cable disconnected; Incorrect IP address/network settings.	Check power connection (PoE or adapter). Verify Ethernet cable is securely connected. Ensure camera is on the same network as your viewing device. Use the discovery tool or app to find the camera's IP address.
PTZ functions not responding	Network connectivity issues; Firmware outdated; Mechanical obstruction.	Check network connection. Reboot the camera. Ensure no physical obstructions are impeding movement. Update camera firmware.
Poor image quality or focus issues	Dirty lens; Auto-focus struggling; Low light conditions.	Clean the camera lens. Allow the auto-focus mechanism time to adjust (can take up to 15 seconds). Ensure sufficient lighting for optimal image clarity.
False alarms from motion detection	Sensitivity too high; Detection area too broad; Environmental factors (e.g., swaying trees, animals).	Adjust motion detection sensitivity settings. Refine the detection area to exclude irrelevant zones. Utilize human/vehicle detection to filter out non-human/vehicle movements.
Cannot access camera via app/NVR	Incorrect network configuration; Firewall blocking connection; App/NVR compatibility issues.	Verify camera and viewing device are on the same network segment. Check firewall settings on your router or NVR. Ensure your NVR supports ONVIF/RTSP protocols. Try accessing via web browser first.

8. Technical Specifications

Below are the detailed technical specifications for the VIKVIZ 5MP PTZ IP PoE Security Camera.

Feature	Specification
Model	B0FN44CQH7
Maximum Webcam Image Resolution	5 MP (3840*2160@20fps)
Optical Zoom	18x
Digital Zoom	30x
Pan Angle	360 Degrees
Tilt Angle	90 Degrees
Night Vision Range	328 Feet (100 meters)
International Protection Rating	IP66
Connectivity Technology	Ethernet (PoE)
Connectivity Protocol	Ethernet, ONVIF

Feature	Specification
Video Encoding	H.265, H.264
Flash Memory Supported Size Maximum	512 GB (MicroSD)
Audio Visual Recording Capabilities	Audio (Two-Way Talk)
Mounting Type	Ceiling Mount, Wall Mount
Material	Metal
Power Source	Corded Electric (12V DC)
Item Weight	4.18 pounds
Package Dimensions	11 x 7.4 x 7.4 inches

9. Warranty and Customer Support

VIKVIZ products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included in your package or visit the official VIKVIZ website.
If you require technical assistance, have questions about your product, or need to report a defect, please contact VIKVIZ customer support. You can often find support contact information or FAQs by visiting the VIKVIZ Store on Amazon or their official website.