Vonnision 5MP H.265 POE PTZ Dome Camera

Vonnision 5MP H.265 PoE PTZ Dome Security Camera User Manual

Model: 5MP H.265 POE PTZ Dome Camera

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Vonnision 5MP H.265 PoE PTZ Dome Security Camera. Please read this manual thoroughly before using the product to ensure proper setup and functionality.

The Vonnision 5MP H.265 PoE PTZ Dome Security Camera is designed for both indoor and outdoor surveillance, offering high-definition video, pan/tilt/zoom capabilities, and advanced features for comprehensive security monitoring.

2. SAFETY INFORMATION

- **Power Supply:** This camera requires a Power over Ethernet (PoE) injector, PoE switch, or PoE NVR for operation. A separate power adapter (DC 12V) can also be used but is not included. Ensure the power source meets the camera's specifications (12V, 12W).
- **Installation:** Installation should be performed by qualified personnel. Ensure the mounting surface is strong enough to support the camera's weight.
- **Waterproofing:** The camera is IP66 rated for outdoor use. Ensure all cable connections are properly sealed to maintain waterproof integrity.
- **Operating Environment:** Avoid placing the camera in extreme temperatures (operating range: -20°C to 60°C) or areas with strong electromagnetic interference.
- **Cleaning:** Use a soft, dry cloth for cleaning. Avoid harsh chemicals or abrasive materials.

3. PACKAGE CONTENTS

Upon unboxing your Vonnision PTZ Dome Camera, verify that all components are present:

- Vonnision 5MP H.265 PoE PTZ Dome Security Camera
- Mounting Screws and Wall Plugs

- Waterproof Lid for RJ45 Connector
- User Manual (Quick Start Guide)
- Installation Template Sticker
- Software CD (for PC tools)

Video: Unboxing the POE IP Pan Tilt Dome camera. This video demonstrates the contents of the camera package, including the camera unit, mounting hardware, and documentation.

4. PRODUCT OVERVIEW

The Vonnision 5MP H.265 PoE PTZ Dome Security Camera features a robust metal construction and advanced surveillance capabilities.

Key Features:

- **Resolution:** 5 Megapixel Super-high-definition (2560x1944) for clear video.
- **Lens:** 2.7~13.5mm 5X Motorized Optical Zoom lens.
- **Pan/Tilt:** Pan Range: 0°~355°, Pan Speed: 45°/s; Tilt Range: 0°~90°, Tilt Speed: 25°/s.
- **Night Vision:** Built-in 2pcs Strong IR Array LEDs for up to 98ft (30m) night vision.
- **Video Compression:** H.265 for efficient storage and smoother video.
- **Audio:** Built-in audio for sound recording.
- **Weatherproof:** IP66 rated for indoor/outdoor use, with anti-explosion metal casing.
- **Compatibility:** Plug & Play with Hikvision, Laview, LTS, EZVIZ 5MP PoE NVRs. Also compatible with Lorex and Dahua 5MP NVRs after enabling DHCP.
- **Motion Detection:** Supports motion detection with alerts.

Image: Front view of the Vonnision 5MP PTZ Dome Camera, showcasing its compact design and dome casing.

Infrared LED

Transparent casing

Anti-explosion PC material

Tilting 90°

55mm

117mm

90mm/3.5inch

Aluminum alloy

2.7-13.5mm MF Lens

Panning 355°

120mm

DC 12V Power Port

LAN Port

Image: Diagram illustrating the dimensions of the camera and identifying the DC 12V Power Port and LAN Port.

Ultra wide field of view
Cover and Protect a wider area

105° Angle

110° Angle

Pan:

355 Degree

Tilt:

90 Degree

Image: Visual representation of the camera's 355-degree pan and 90-degree tilt capabilities, highlighting its wide field of view.

5. SETUP AND INSTALLATION

5.1 Physical Installation

1. **Mounting Location:** Choose a suitable location, either indoors or outdoors, ensuring a clear field of view and stable mounting surface.
2. **Drill Holes:** Use the provided installation template sticker to mark and drill holes for mounting the camera.
3. **Secure Base:** Attach the camera's mounting base securely to the surface using the provided screws and wall plugs.
4. **Cable Management:** Route the network and power cables through the designated openings. Ensure the waterproof lid is used for the RJ45 connector if installing outdoors.
5. **Attach Camera:** Connect the camera to the base and secure it.

Video: H.265 IP POE PTZ Camera - Access camera using IE and APP. This video demonstrates the physical installation process and initial setup steps for accessing the camera via a web browser.

5.2 Network Connection

The camera supports Power over Ethernet (PoE) for simplified installation, allowing both power and data transmission over a single Ethernet cable. Alternatively, a DC 12V power supply can be used with a separate Ethernet connection.
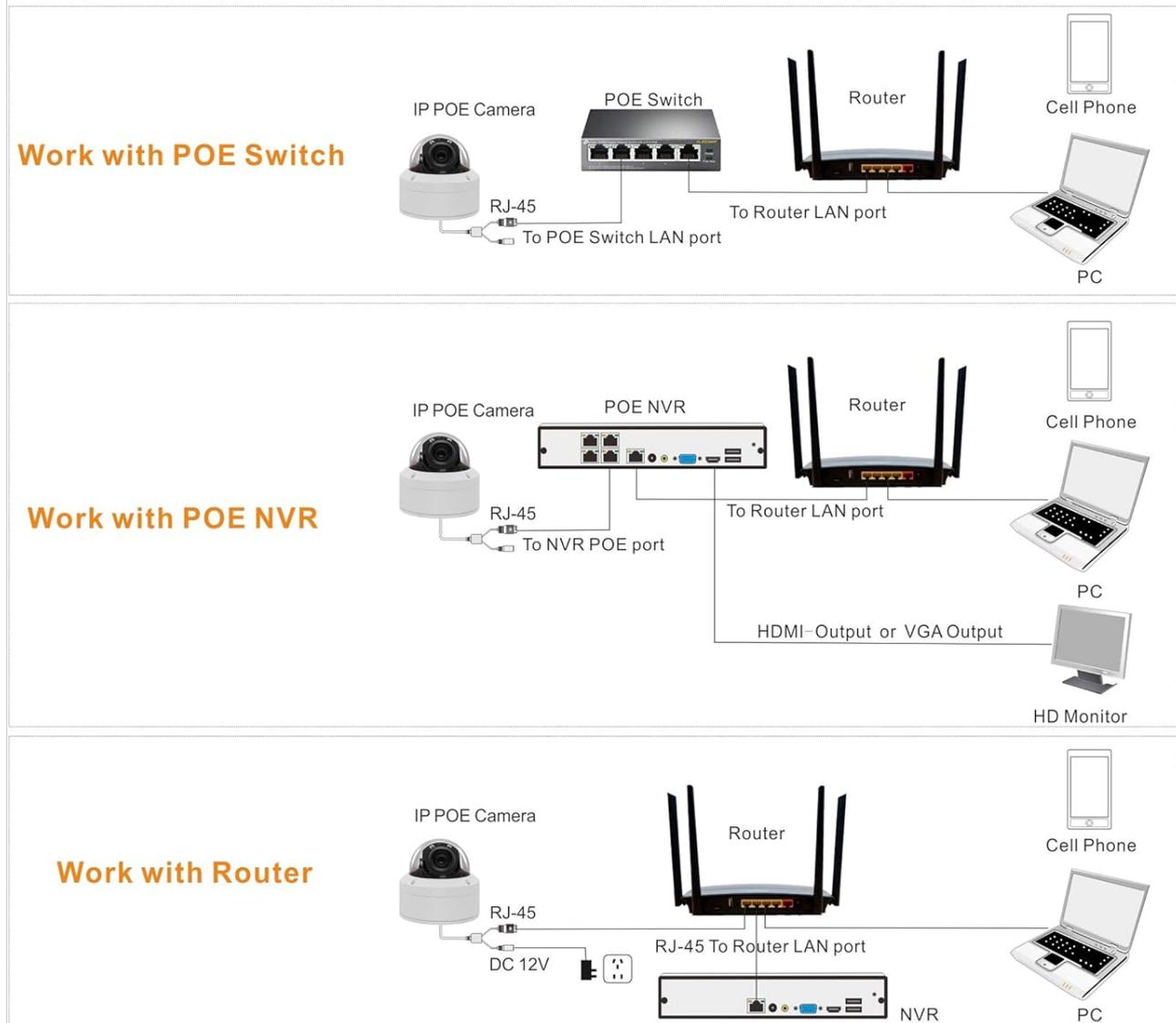

Image: Connection diagrams showing how to connect the IP camera with a PoE switch, PoE NVR, or directly to a router.

- **PoE Connection:** Connect the camera's RJ45 port to a PoE switch, PoE NVR, or PoE injector using an Ethernet cable. This will provide both power and network access.
- **Non-PoE Connection:** If not using PoE, connect the camera to a DC 12V power supply (not included) and then connect the RJ45 port to your router or switch via an Ethernet cable.
- **Network Configuration:** Ensure the camera, NVR/router, and PC are all within the same local area network (LAN) segment for initial setup.

Video: Vonnision 4K 8MP PoE Security Camera-Installation. This video provides a general overview of PoE camera installation, which is applicable to this model.

Video: 3 Ways to Connect PTZ PoE IP Camera. This video illustrates different methods for connecting a PoE PTZ IP camera, including direct connection to an NVR, via a PoE switch, or with a power adapter.

6. OPERATING INSTRUCTIONS

6.1 Initial Access and Configuration

After connecting the camera to your network, use the provided PC software (available on the CD or manufacturer's website) to discover the camera's IP address. The default username is 'admin' and the default password is '123456'. It is highly recommended to change the default password immediately for security purposes.
Access the camera's web interface via a web browser (e.g., Internet Explorer, Chrome, Firefox) by entering its IP address. From the web interface, you can configure various settings:

- **Image Settings:** Adjust brightness, contrast, saturation, sharpness, and enable/disable features like WDR (Wide Dynamic Range) and night mode.
- **Video Settings:** Select resolution (up to 5MP), frame rate, bitrate, and video encoding (H.265).
- **Network Settings:** Configure IP address (DHCP or static), port settings, and enable P2P for remote access.
- **PTZ Control:** Manually control pan, tilt, and zoom. Set preset positions and patrol routes.
- **Event Management:** Configure motion detection areas, sensitivity, and actions (e.g., trigger recording, send email alerts).

Video: 5MP H.265 IPPTZ Dome Camera with Audio, Hikvision compatible. This video demonstrates the camera's features and web interface for configuration.

6.2 Remote Viewing

The camera supports P2P (Peer-to-Peer) online viewing, allowing you to access live video and recordings from anywhere using a mobile app (e.g., Danale, Videolink) on your smartphone or tablet, or via a web browser on your PC.

- **Mobile App:** Download the recommended mobile app from your device's app store. Register an account, add your camera by scanning the QR code or manually entering the device ID, and begin live viewing and control.
- **Web Browser:** Access the camera's web interface using its IP address. Log in with your credentials to view live streams, playback recordings, and manage settings.

Image: Illustration of P2P online viewing support across multiple platforms including phone, tablet, and PC.

6.3 Motion Detection

The camera's motion detection feature can be configured to trigger recording and send alerts to your mobile phone when movement is detected in specified areas.
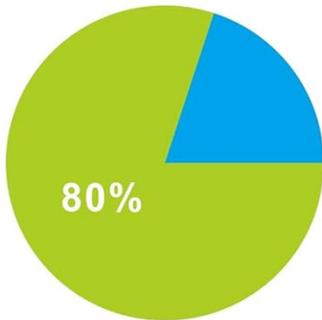
- **Configuration:** In the web interface or mobile app, navigate to the event settings. Define motion detection zones and adjust sensitivity levels.
- **Alerts:** Enable push notifications on your mobile app to receive instant alerts when motion is detected.

H.265 video compression
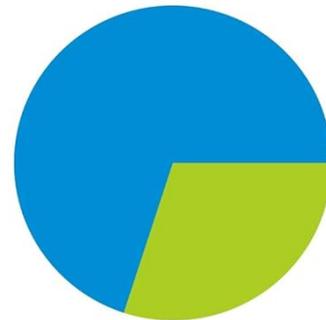
Smoother playback and less storage

H.264

H.265

80%

Occupy 80% bandwidth

Only occupy 30% bandwidth

Image: Diagram showing how motion detection triggers recording and sends notifications to a mobile phone.

6.4 Night Vision

The camera provides clear surveillance even in low-light conditions with its infrared night vision capabilities.

- **Automatic Activation:** Night vision automatically activates in low light, providing black and white video.
- **Range:** Effective night vision range is up to 98 feet (30 meters).

Image: Comparison of day vision and night vision footage from the camera, demonstrating clarity in both conditions.

Video: 6MP Mini PTZ PoE IP Camera Outdoor with 3X Optical Zoom. This preview video highlights the PTZ and optical zoom features, relevant for understanding camera operation.

Video: Real HD 4K 8MP IP Camera Color Night Version. This preview video demonstrates night vision capabilities, providing insight into the camera's low-light performance.

7. MAINTENANCE

- **Regular Cleaning:** Periodically clean the camera lens and dome with a soft, lint-free cloth to ensure clear image quality.
- **Firmware Updates:** Check the manufacturer's website for the latest firmware updates. Follow the provided instructions carefully to update the camera's firmware, which can improve performance and add new features.
- **Password Management:** Regularly change your camera's password to maintain security.

8. TROUBLESHOOTING

- **No Power:** Ensure the PoE connection is active or the DC 12V power adapter is correctly connected and functioning. Verify network cables are securely plugged in.
- **No Image/Offline:** Check network connectivity. Ensure the camera's IP address is correct and accessible on your network. Verify NVR or router settings.
- **Poor Image Quality:** Clean the camera lens. Check network bandwidth and camera resolution settings. Ensure sufficient lighting for optimal performance.
- **PTZ Not Responding:** Verify network connection and power supply. Check PTZ control settings in the web interface or mobile app.
- **Random Horizontal Movement:** This issue has been reported by some users. Ensure firmware is up to date. Contact technical support if the issue persists after checking basic settings.
- **Audio Quality Issues:** If experiencing severe electrical noise, ensure proper grounding and check cable integrity.

9. SPECIFICATIONS

Feature	Specification
Video Capture Resolution	5MP
Maximum Webcam Image Resolution	5 MP
Effective Still Resolution	5 MP
Zoom Type	Optical Zoom (5X, 2.7~13.5mm)
Pan Range	0°~355°
Tilt Range	0°~90°
Night Vision Range	100 Feet (30m)
International Protection Rating	IP66
Connectivity Technology	Wireless (PoE), Ethernet
Power Source	PoE (Power over Ethernet) or DC 12V (adapter not included)
Material	Metal
Item Weight	1.15 Pounds
Item Dimensions L x W x H	4.7 x 4.7 x 4.4 inches
Frame Rate	20 fps
Video Capture Format	MPEG H (H.265)
Special Feature	Audio Recording, Motion Detection
Indoor/Outdoor Usage	Indoor, Outdoor

10. WARRANTY AND SUPPORT

Vonnision provides a 1-year warranty for this product. For technical support, SDK requests, or any inquiries, please contact Vonnision customer service. Refer to the product care card included in your package for contact details.