Tennoz IB685

Tennoz 5MP Bullet IP Security Camera User Manual

Model: IB685

1. Introduction

Thank you for choosing the Tennoz 5MP Bullet IP Security Camera. This manual provides essential information for the proper installation, operation, and maintenance of your security camera. Please read it thoroughly before use and retain it for future reference.

This camera features 5-megapixel Super HD resolution, Power over Ethernet (PoE) for simplified installation, smart dual-light color night vision, and two-way audio communication. Its robust IP66-rated metal housing ensures reliable performance in various indoor and outdoor environments.



Figure 1: Tennoz 5MP Bullet IP Security Camera highlighting 5MP Super HD, Dual Light ColorVu, Two Way Talk, 98ft Night Vision, 110° Wide Angle, IP66 Waterproof, AI Human/Vehicle Detection, and PoE Networking.

2. Package Contents

Verify that all items are present in your package:

- 1 x Tennoz 5MP Bullet IP Security Camera (Model IB685)
- Mounting Screws and Wall Plugs
- Waterproof Connector for Ethernet Cable
- Quick Start Guide (if included)

3. Product Overview

The Tennoz 5MP Bullet IP Security Camera is designed for robust surveillance. It features a durable metal housing, a 2.8mm lens for a wide viewing angle, built-in microphone and speaker for two-way audio, and infrared LEDs for night vision.



Figure 2: Key components of the 5MP Bullet IP Security Camera, including the 2.8mm lens, built-in microphone, 6pcs LEDs, DC 12V Power Port, and RJ45 Port.

3.1 Lens and Viewing Angle

The camera is equipped with a 2.8mm lens, providing a super-wide 110° viewing angle to cover extensive areas. This wide-angle lens captures more of the scene compared to narrower lenses.



Figure 3: Visual comparison demonstrating the wider field of view provided by a 2.8mm lens compared to a 3.6mm lens.

4. Setup

4.1 Installation Location

Choose a suitable location for installation, considering the desired viewing area and proximity to your network video recorder (NVR) or PoE switch. The camera is IP66 waterproof, making it suitable for both indoor and outdoor use.

4.2 Mounting the Camera

1. Mark the drilling positions on the wall or ceiling using the camera's base as a template.
2. Drill holes and insert the wall plugs if mounting on masonry.
3. Secure the camera base using the provided screws.
4. Adjust the camera angle as needed.

4.3 Connecting to an NVR (PoE)

This camera supports Power over Ethernet (PoE), allowing both power and data transmission through a single Ethernet cable. A PoE switch or PoE NVR is required (not included).

1. Connect one end of an Ethernet cable to the camera's RJ45 port. Use the waterproof connector for outdoor installations.
2. Connect the other end of the Ethernet cable to a PoE port on your NVR or PoE switch.
3. If not using PoE, connect a 12V DC power adapter (not included) to the camera's DC 12V power port and connect the RJ45 port to your network via a standard Ethernet cable.
4. Connect your NVR to a monitor/TV via HDMI or VGA, and ensure it is powered on.

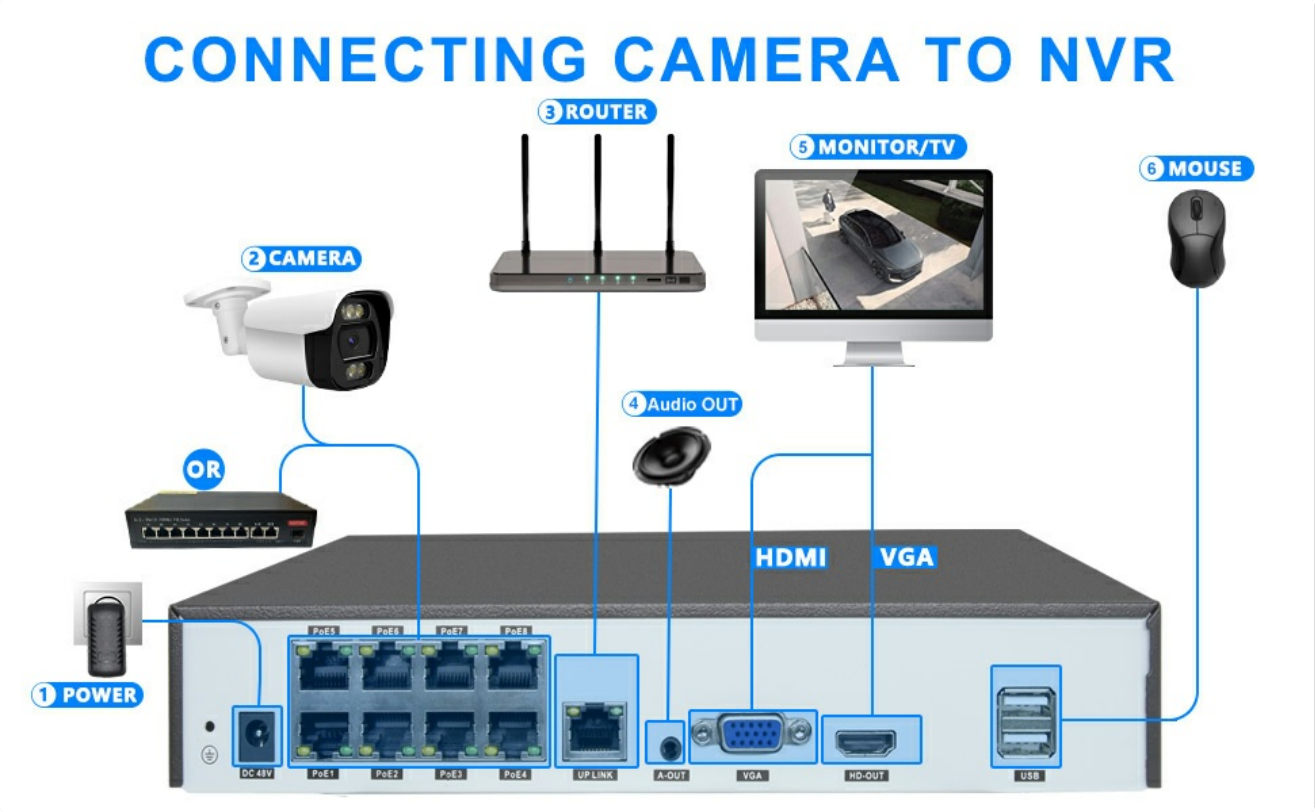


Figure 4: Connection diagram illustrating how to integrate the camera into an NVR system, including power, router, monitor, and mouse connections.

4.4 Network Configuration

The camera is compatible with multiple 6MP/4K H.265 PoE NVRs, including Hikvision, LTS, Dahua, Uniview, TVT, and Raysharp. It also supports third-party software like Milestone, Blue Iris, and iSpy. Refer to your NVR or software manual for specific network detection and configuration steps. The camera supports H.265/H.264 compression (H.265 by default).

5. Operating

5.1 Live View and Recording

Once connected to your NVR or surveillance software, you can access the live video feed. Configure recording schedules and motion detection settings through your NVR's interface or the compatible software.

5.2 Night Vision Modes

The camera features Smart Dual Light Color Night Vision, offering flexible options for low-light conditions:

- **IR Night Vision (Infrared Mode):** Provides clear black and white video in complete darkness using infrared LEDs.
- **Smart Color Night Vision:** When the camera detects a person or vehicle, the built-in white lights activate, and the video switches to full-color mode, capturing more details.
- **24H Full Color Night Vision:** The white lights remain on continuously, providing full-color video day and night. This mode can be selected based on your preference.



Figure 5: Example of Full-time Color Night Vision (Colorvu Mode) providing clear, colored images in low light.



Figure 6: Illustration of Day Vision (Normal mode) and IR Night Vision (Infrared mode) with up to 98ft range.



Figure 7: Demonstrates the Smart Dual Light feature: black and white night vision when no person is detected, switching to color night vision with activated spotlights upon human detection.

5.3 Two-Way Talk

The integrated microphone and speaker enable two-way audio communication. You can listen to the audio from the camera's location and speak through the camera using your NVR or compatible mobile application. This feature is useful for interacting with visitors or deterring intruders.



Figure 8: A user engaging in two-way communication via a mobile application, speaking to someone at the camera's location.

5.4 AI Human/Vehicle Detection

The camera supports intelligent detection features, including human and vehicle detection. This helps reduce false alarms caused by irrelevant movements and provides more accurate alerts for significant events. The alarm function (beep and flash) is OFF by default and can be enabled via your NVR or software settings.



Figure 9: Visual representation of AI Human and Vehicle Detection, highlighting detected subjects within the camera's field of view.

6. Maintenance

- **Cleaning:** Regularly clean the camera lens with a soft, dry cloth to ensure clear image quality. Do not use harsh chemicals or abrasive materials.
- **Firmware Updates:** Check the manufacturer's website periodically for firmware updates. Keeping your camera's firmware up-to-date ensures optimal performance and security.
- **Cable Inspection:** Periodically inspect all cables for any signs of wear or damage, especially for outdoor installations.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No image/video feed	No power; Network connection issue; NVR/software not configured correctly.	Check power supply (PoE or 12V DC adapter). Verify Ethernet cable connection. Ensure NVR/software detects the camera and is configured for the correct IP address.
Poor image quality	Dirty lens; Insufficient lighting; Incorrect resolution settings.	Clean the camera lens. Ensure adequate lighting or enable appropriate night vision mode. Check resolution settings on NVR/software.
Two-way talk not working	Microphone/speaker disabled; Volume too low; Network latency.	Check audio settings on NVR/software to ensure microphone and speaker are enabled and volume is adequate. Verify network stability.
False motion alerts	Sensitivity too high; Environmental factors (e.g., moving branches).	Adjust motion detection sensitivity settings on your NVR/software. Utilize AI Human/Vehicle Detection to filter out irrelevant movements.

8. Specifications

Detailed technical specifications for the Tennoz 5MP Bullet IP Security Camera (Model IB685):

Feature	Specification
Model Name	5MP IP Bullet
Model Number	IB685
Photo Sensor Resolution	5 MP (2592×1944)
Lens	2.8mm
Viewing Angle	110° Wide Angle
Connectivity Technology	Wired (PoE)
Connectivity Protocol	Ethernet
Video Compression	H.265/H.264
Night Vision	Smart Dual Light Color Night Vision (6pcs IR-LEDs, up to 98ft)
Audio	Built-in Microphone and Speaker (Two-Way Talk)
Special Features	AI Human/Vehicle Detection, IP66 Waterproof, Full Metal Housing
Indoor/Outdoor Usage	Indoor, Outdoor
Compatible Devices	Network Video Recorder (NVR)
Power Source	Corded Electric (PoE or 12V DC)

Feature	Specification
Voltage	12 volts
Item Dimensions	7.09 x 2.68 x 2.68 inches (182mm x 68mm x 89mm)
Item Weight	0.48 kg
UPC	768795327787



Figure 10: Physical dimensions of the camera: 182mm length, 68mm height, 89mm width.

9. Warranty and Support

This product is covered by a standard return policy, typically 30 days from the date of purchase. For specific warranty details, please refer to your purchase documentation or contact the retailer.
For technical support, troubleshooting assistance, or further inquiries, please contact Tennoz customer service through the official Tennoz website or your point of purchase. Please have your model number (IB685) and purchase information ready when contacting support.

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