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> Tenda 5MP QHD Outdoor Pan/Tilt Wi-Fi Security Camera (CH7 NEW) User Manual

Tenda CH7 NEW

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Model: CH7 NEW

INTRODUCTION

This manual provides comprehensive instructions for the Tenda 5MP QHD Outdoor Pan/Tilt Wi-Fi Security Camera, Model CH7 NEW. This advanced security camera offers 5MP Ultra HD resolution, 360° full coverage, color night vision, AI-powered human and vehicle detection, two-way audio, and Wi-Fi 6 connectivity. Designed for outdoor use, it features an IP65 weather-resistant rating, ensuring reliable performance in various conditions. Please read this manual carefully to ensure proper installation, operation, and maintenance of your device.

WHAT'S IN THE BOX

- Tenda 5MP QHD Outdoor Pan/Tilt Wi-Fi Security Camera (CH7 NEW)
- Power Adapter (3m cable)
- Mounting Bracket
- Installation Guide
- Screws and Wall Plugs for Mounting

PRODUCT OVERVIEW

The Tenda CH7 NEW camera is designed for robust outdoor surveillance. It features a durable, weather-resistant housing and a motorized pan/tilt mechanism for wide-area coverage. Key components include the camera lens, infrared LEDs for night vision, spotlights for color night vision, a microphone, a speaker for two-way audio, and a microSD card slot for local storage.



Figure 1: Tenda CH7 NEW camera highlighting its main features including 5MP resolution, 360° coverage, Wi-Fi 6, IP65 rating, smart full-color night vision, and local/cloud storage options.

SETUP

1. Download and Install the TDSEE App

Locate the QR code on the product packaging or in the Quick Installation Guide. Scan this QR code with your smartphone to

download the official TDSEE application from your device's app store (App Store for iOS or Google Play for Android).

2. Create an Account and Log In

Open the TDSEE app. Follow the on-screen prompts to create a new user account using your email or phone number. Once registered, log in to your account.

3. Add Your Device

1. **Power On:** Connect the camera to a power source using the provided power adapter. Wait for approximately 40 seconds until the LED indicator on the camera blinks blue quickly, indicating it is ready for connection. You will also hear a "Waiting for connection" voice prompt.
2. **Scan QR Code:** In the TDSEE app, tap the "+" icon or "Add Device" to start the pairing process. Select the option to scan the device QR code. Scan the QR code located on the camera itself (usually on the bottom or side).
3. **Wi-Fi Configuration:** Ensure your smartphone is connected to a 2.4 GHz Wi-Fi network. The camera only supports 2.4 GHz Wi-Fi. Enter your Wi-Fi password in the app.
4. **Connect:** Follow the remaining prompts in the app to complete the connection. The camera will connect to your Wi-Fi network and appear in your device list.

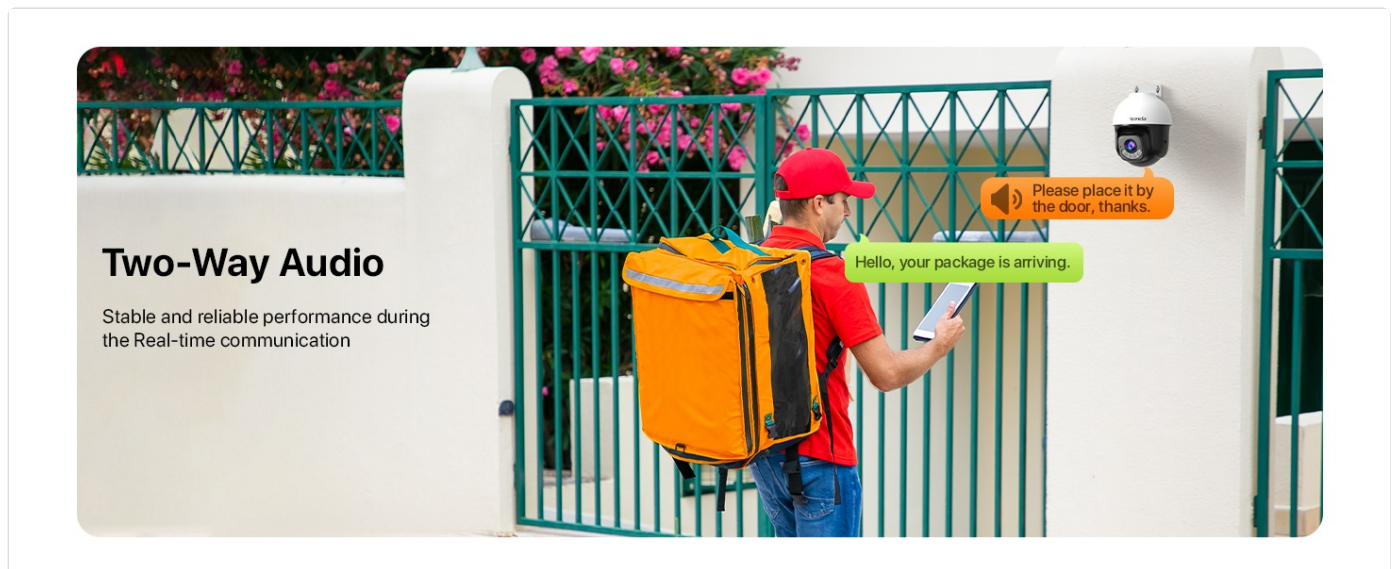


Figure 2: Visual guide for the 4-step setup process: Download TDSEE App, Power on Camera, Run App for Connection, Scan QR Code to Add Device.

4. Physical Installation

The camera can be mounted on walls, ceilings, or poles using the provided mounting bracket. Choose a location that offers optimal viewing angles and is within range of your Wi-Fi network and a power outlet.

1. **Mark Drilling Positions:** Use the mounting template (if provided) or the bracket itself to mark the screw positions on the desired surface.
2. **Drill Holes:** Drill pilot holes at the marked positions. Insert wall plugs if mounting on masonry.
3. **Attach Bracket:** Secure the mounting bracket to the surface using the provided screws.
4. **Attach Camera:** Align the camera with the mounting bracket and secure it in place. Ensure the camera is firmly attached.

OPERATING

Live View and Pan/Tilt Control

Access the live feed from your camera through the TDSEE app. Use the on-screen controls to pan (rotate horizontally 360°) and tilt (move vertically 90°) the camera lens to adjust your viewing area. You can also set preset locations for quick navigation.

360° Patrol & Auto-Return to Guard Point

Automatically scans and tracks movement, then returns to your preset guard position to keep key areas protected.

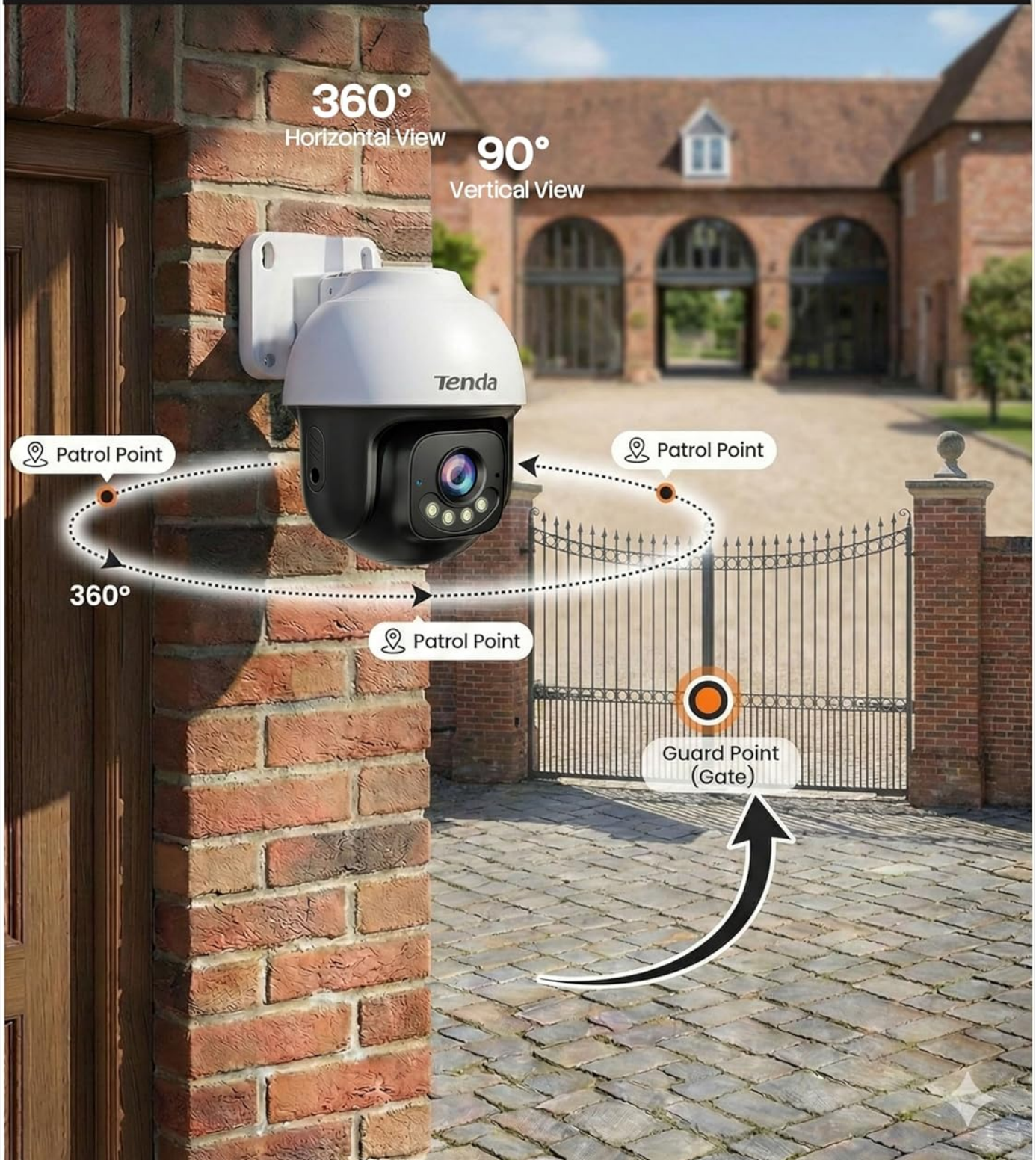


Figure 3: The camera's 360° patrol feature, demonstrating its ability to scan and track movement, then return to a pre-set guard position.

Smart AI Detection

The camera utilizes advanced AI algorithms to intelligently identify people and vehicles, reducing false alarms caused by environmental factors like rain or moving leaves. You will receive accurate notifications for relevant events.

Smart AI Detection - Fewer False Alerts

Alerts you to people and vehicles, not leaves or insects.



Figure 4: Smart AI Detection in action, showing the camera accurately identifying human and vehicle movement while filtering out irrelevant motion.

Color Night Vision

Equipped with smart color night vision, the camera activates vivid spotlights upon detecting motion in low-light conditions,

capturing critical details in full color up to 30 meters. This provides clearer identification compared to traditional black and white infrared night vision.

Active Defense & 30m Full-Color Night Vision

Motion-activated spotlights deliver full-color night vision up to 30m, while siren, flashing lights, and custom voice warnings deter



Figure 5: Active Defense and 30m Full-Color Night Vision, illustrating how motion-activated spotlights, siren, and custom voice warnings deter unwanted visitors.

Two-Way Talk

The integrated microphone and speaker allow for two-way communication. You can listen to what's happening around the camera and speak through the camera to visitors or deter intruders directly from your smartphone.

Active Defense

When a threat is detected, the camera can trigger a loud siren and flashing lights to deter unwanted visitors. You can also record custom voice messages (e.g., "Private Property!") to play automatically, acting as a 24/7 digital security guard.

Storage Options

The camera supports local storage via a microSD card (up to 512GB, not included) for continuous recording. Cloud storage options may also be available through the TDSEE app for remote backup and access.

Reliable & Flexible Security Solution

Local Storage, Weatherproof Design, and Smart Home Compatible.

Up to 512GB Local Storage

(Not included)



IP 65 Weatherproof

(Year-round Protection)



Smart integration & NVR Support

Seamless Smart Home
& NVR Connection

works with | Alexa



Figure 6: Reliable and Flexible Security Solution, showing local storage capability, IP65 weather resistance, and smart home integration.

Compatibility

The Tenda CH7 NEW camera is fully compatible with NVR systems and works seamlessly with Alexa for hands-free voice control, allowing for integration into your existing smart home ecosystem.

MAINTENANCE

- **Cleaning:** Regularly clean the camera lens and housing with a soft, damp cloth to ensure clear image quality. Avoid abrasive cleaners.
- **Firmware Updates:** Check the TDSEE app periodically for firmware updates. Keeping your camera's firmware up-to-date ensures optimal performance, security, and access to new features.
- **Power Supply:** Ensure the power adapter and cable are free from damage and properly connected to maintain continuous operation.
- **Weather Protection:** While rated IP65, ensure the camera is installed in a location that minimizes direct exposure to extreme weather conditions for extended longevity.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Camera not connecting to Wi-Fi	Incorrect Wi-Fi password; camera too far from router; 5GHz Wi-Fi network selected.	Verify password; move camera closer to router; ensure connection to 2.4GHz Wi-Fi.
No image in live view	Power issue; network disconnection; camera malfunction.	Check power supply; verify Wi-Fi connection; restart camera; contact support if issue persists.
Frequent false alarms	Motion detection sensitivity too high; environmental factors (e.g., trees, animals).	Adjust motion detection sensitivity in the app; define specific detection zones to exclude irrelevant areas.
Poor night vision quality	Dirty lens; insufficient ambient light for color night vision; IR/spotlights obstructed.	Clean the camera lens; ensure no obstructions block the IR sensors or spotlights.

SPECIFICATIONS

Feature	Detail
Model Number	CH7 NEW
Effective Still Resolution	5 MP
Connectivity Technology	Wired, Wireless (Wi-Fi 6)
Indoor/Outdoor Usage	Outdoor
Special Features	Color Night Vision, Customize monitoring area and time, Motion Sensor, WIFI 6, AI Human/Vehicle Detection, 2-Way Talk, 360° Pan/Tilt, Active Defense
Water Resistance Level	IP65 (Waterproof)
Viewing Angle	360 Degrees
Optical Zoom	4 x
Flash Memory Supported Size Maximum	512 GB (microSD card)
Control Method	App
Compatible Devices	Alexa, Laptop, Smartphone

Feature	Detail
Power Source	Corded Electric
Item Dimensions	4.72 x 4.72 x 5.75 inches
Item Weight	600 Grams

WARRANTY AND SUPPORT

For warranty information, please refer to the specific warranty card included with your product or visit the official Tenda website. For technical support, troubleshooting assistance, or further inquiries, please contact Tenda customer service through the TDSEE app or their official support channels. Keep your purchase receipt for warranty claims.