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Model: WF821-4MP5G | Brand: INSEETECH

1. INTRODUCTION

Thank you for choosing the INSEETECH WF821-4MP5G Outdoor Smart Camera. This comprehensive manual provides detailed instructions for the installation, operation, and maintenance of your new security camera. Designed for outdoor surveillance, this camera features 4MP HD resolution, Pan-Tilt-Zoom (PTZ) capabilities, dual-band WiFi connectivity, and advanced night vision modes to ensure reliable monitoring of your property.



Figure 1.1: INSEETECH WF821-4MP5G Outdoor Smart Camera with power cable.

2. SAFETY INFORMATION

Please read and understand all safety instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- Ensure the camera is powered by the provided power adapter.
- Do not expose the camera to extreme temperatures or direct sunlight for prolonged periods.
- Avoid placing the camera near strong magnetic fields.
- Keep the camera and its components out of reach of children.
- Do not attempt to disassemble or modify the camera. Refer all servicing to qualified personnel.
- Ensure proper installation to prevent the camera from falling.

3. WHAT'S IN THE BOX

Verify that all components are present in the package:

- 1 x Outdoor Security Camera with Dual Antenna (without battery)
- 1 x Camera Bracket
- 1 x User Manual
- 1 x Power Adapter
- 1 x Accessories (screws, wall plugs)
- 1 x Power Extension Cable (16FT/5M)

4. PRODUCT OVERVIEW AND FEATURES

The INSEETECH WF821-4MP5G camera is equipped with advanced features for comprehensive outdoor surveillance.

4.1. 4MP HD Resolution & 360° Full Coverage

Experience crystal-clear imaging with 4MP HD resolution. The camera offers Pan-Tilt-Zoom (PTZ) functionality, allowing for a 355° horizontal pan and 90° vertical tilt, providing full coverage of your surveillance area.

4MP Super HD and 360° Full Coverage ensure detail-packed images



Figure 4.1: 4MP Super HD and 360° Full Coverage with PTZ control via app.

4.2. Dual-band WiFi & IP66 Waterproof

The camera supports both 2.4GHz and 5GHz WiFi bands for stable and flexible connectivity. Its IP66 rating ensures durability and reliable operation in various weather conditions, including sun, rain, thunderstorms, and snow.

IP66 Waterproof & Dual Antenna

Work well in bad weather
More stable signal

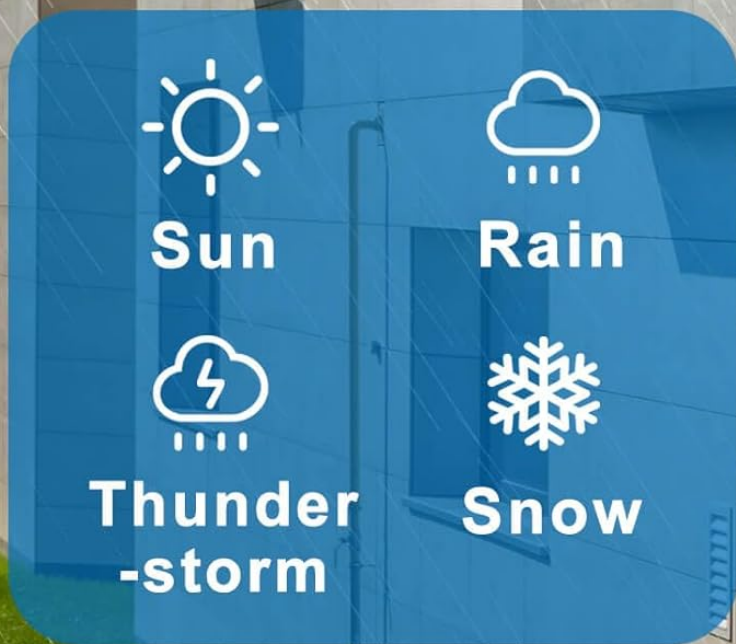


Figure 4.2: IP66 Waterproof and Dual Antenna for stable signal in various weather.

4.3. Three Night Vision Modes

The camera offers versatile night vision options:

- **Full-color Night Vision:** Provides clear, colored images in low-light conditions.
- **Infrared Night Vision:** Delivers crisp black-and-white images using infrared LEDs.
- **Smart Night Vision Mode:** Automatically switches between infrared and full-color based on detected motion or events.

Three Night Vision Modes



Figure 4.3: Visual representation of the three night vision modes.

4.4. Auto Tracking & Siren/Floodlight Alarm

The camera can automatically track moving objects, keeping them centered in the frame. Upon motion detection, it can activate a siren and floodlight to deter intruders and send instant notifications to your smartphone.

Auto Tracking Function

Effortlessly stay centered on the action with Auto Tracking.

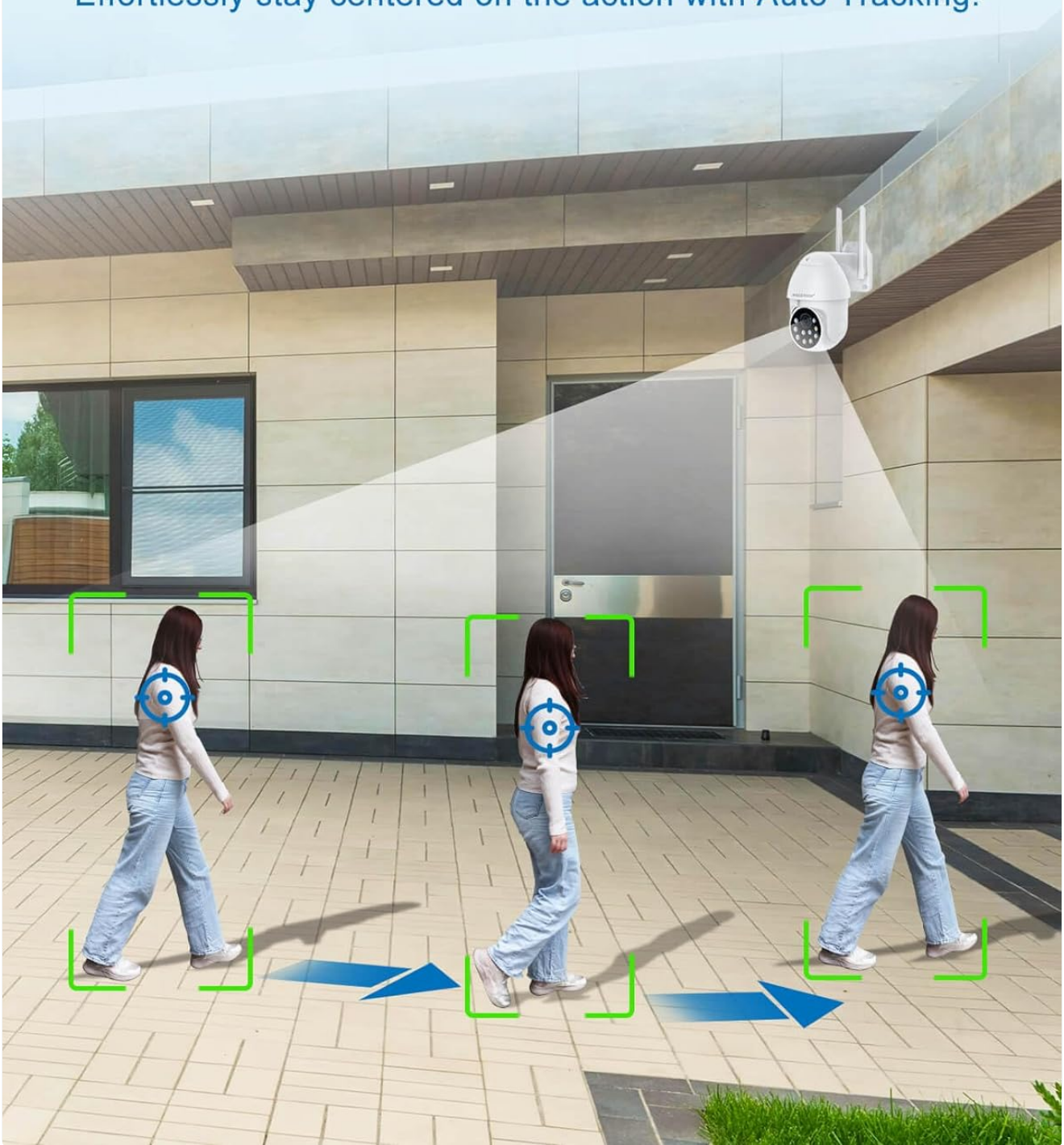


Figure 4.4: Auto Tracking Function in action.



Figure 4.5: Siren and Floodlight Alarm for enhanced security.

4.5. Two-Way Audio & Storage Options

Communicate with visitors or deter unwanted guests using the built-in microphone and speaker. The camera supports both local storage via a memory card and cloud storage for continuous 24/7 recording and playback.



Figure 4.6: Two Storage Ways & Playback options.

5. SETUP

Follow these steps to set up your INSEETECH WF821-4MP5G camera.

5.1. Physical Installation

1. Choose a suitable outdoor location for mounting the camera, ensuring a clear view and access to a power source.
2. Use the provided camera bracket and accessories to securely mount the camera to a wall or desired surface.
3. Connect the power adapter to the camera and plug it into an electrical outlet. Use the 16ft/5M extension cable if needed.

Suitable for Various Indoor / Outdoor Scenes



Figure 5.1: Camera mounted in an outdoor setting.

5.2. App Download and Connection

The camera operates with the Tuya Smart APP.

1. **Download Tuya Smart APP:** Scan the QR code provided in the quick start guide or search for "Tuya Smart" in your mobile app store (App Store for iOS, Google Play for Android).
2. **Register/Login:** Open the app and register a new account or log in if you already have one.
3. **Add Device:** Tap the "+" icon to add a new device. Select "Security & Video Surveillance" > "Smart Camera (Wi-Fi)".

4. **Connect the Camera:** Follow the in-app instructions to connect your camera. This typically involves powering on the camera, ensuring the indicator light is blinking, and connecting your phone to a 2.4GHz or 5GHz WiFi network. The app will guide you through scanning a QR code displayed on your phone with the camera lens.
5. **Now, use it!:** Once connected, you can view the live feed and control the camera.

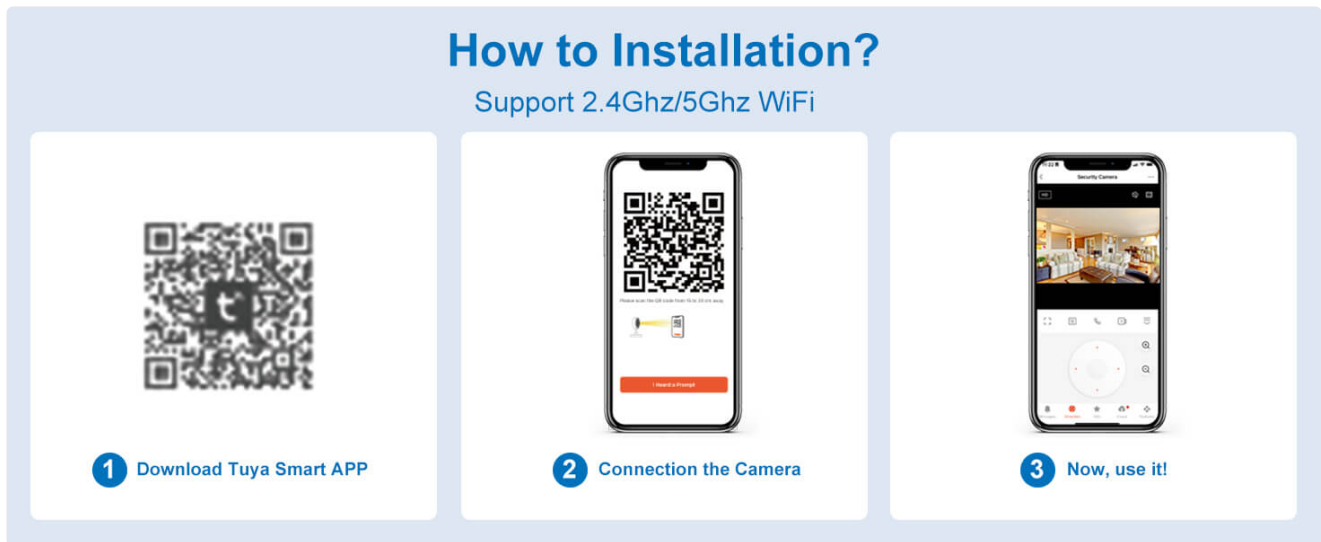


Figure 5.2: Installation steps via Tuya Smart APP.

5.3. Connection Methods

The camera supports two primary connection methods:

- **WiFi Connection:** Wireless connection to your 2.4GHz or 5GHz home network.
- **Ethernet Connection:** For a more stable connection, you can use an Ethernet cable (not included) to connect the camera directly to your router.

Supports network cable connection or WiFi connection



Figure 5.3: Camera supports network cable connection.

Two Connection Methods



Figure 5.4: Two Connection Methods: WiFi and Ethernet.

6. OPERATING INSTRUCTIONS

Utilize the Tuya Smart APP to control and manage your camera.

6.1. Live View and PTZ Control

Open the Tuya Smart APP and select your camera to view the live feed. Use the on-screen joystick or swipe gestures to pan (355°), tilt (90°), and digitally zoom the camera view.

6.2. Night Vision Settings

In the app settings, you can switch between Full-color, Infrared, or Smart night vision modes based on your preference and environmental conditions.

6.3. Motion Detection and Alerts

Enable motion detection in the app to receive instant notifications on your smartphone when movement is detected. Adjust sensitivity levels and set detection zones as needed. The AI detection includes human body filtering to reduce false alarms.

6.4. Auto Tracking

Activate the auto-tracking feature in the app. The camera will automatically follow detected human movement within its field of view.

6.5. Siren and Floodlight Activation

Configure the camera to automatically trigger the siren and floodlight upon motion detection, or manually activate them through the app for immediate deterrence.

6.6. Two-Way Audio

Tap the microphone icon in the live view to speak through the camera's speaker. Tap the speaker icon to listen to audio from the camera's surroundings.

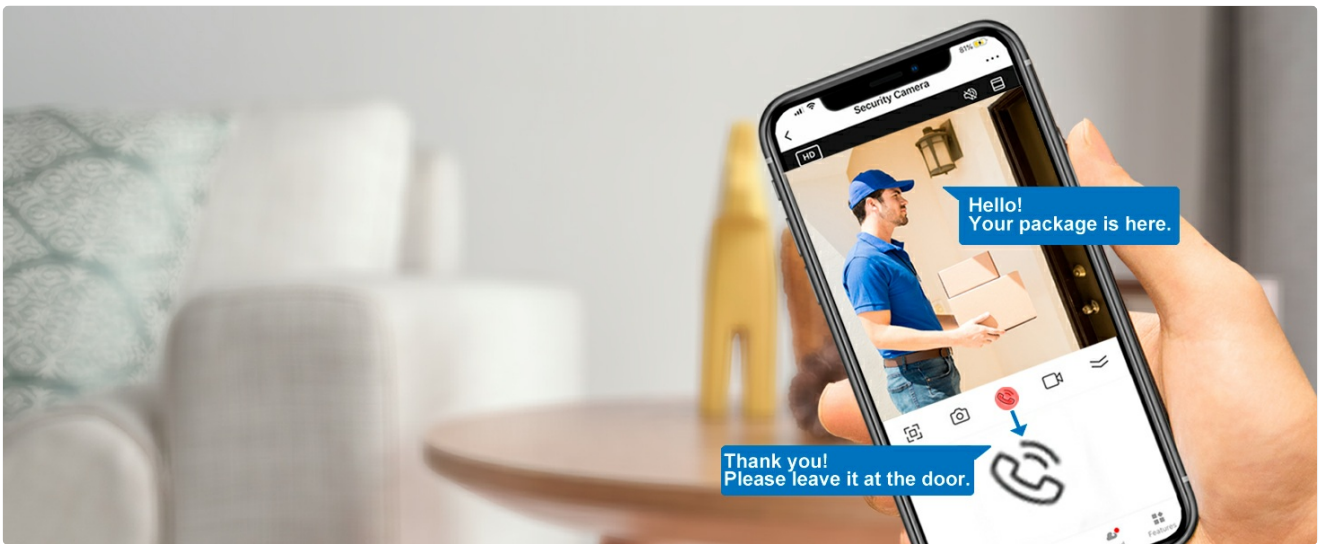


Figure 6.1: Two-way audio feature in use.

6.7. Recording and Playback

Access recorded footage via the app. You can view recordings stored on a local memory card (if installed) or through your cloud storage subscription. The camera supports 24/7 nonstop recording.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your camera.

- **Cleaning:** Gently wipe the camera lens and body with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Firmware Updates:** Periodically check the Tuya Smart APP for available firmware updates. Keeping the firmware updated ensures the latest features and security patches.
- **Power Supply:** Ensure the power connection is secure and free from damage.
- **Environmental Check:** Regularly inspect the camera's mounting and surrounding area to ensure it remains stable and unobstructed.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Camera offline/Cannot connect to WiFi	Incorrect WiFi password; Weak WiFi signal; Router issues; Camera too far from router.	Verify WiFi password. Move camera closer to router or use a WiFi extender. Restart router and camera. Ensure 2.4GHz/5GHz network is enabled and correct.
PTZ control unresponsive	Network delay; Firmware issue; Mechanical obstruction.	Check network connection stability. Restart camera. Update firmware via app. Ensure no physical obstructions.
Poor image quality	Dirty lens; Insufficient lighting; Network bandwidth.	Clean the camera lens. Ensure adequate lighting for optimal image. Check network speed.
Motion detection not working	Detection sensitivity too low; Detection zone not set; Obstruction in view.	Increase sensitivity in app settings. Define detection zones. Clear any obstructions.
Siren/Floodlight not activating	Feature disabled in app; Insufficient power.	Enable siren/floodlight in app settings. Ensure stable power supply.

If the problem persists after trying these solutions, please contact INSEETECH customer support.

9. SPECIFICATIONS

Feature	Detail
Model Name	WF821-4MP5G
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	4MP
Connectivity Technology	Wireless (Wi-Fi 2.4GHz/5GHz)
Power Source	Corded Electric (12 Volts DC, 6 Watt-hours)
Controller Type	App Control
Mounting Type	Wall Mount
PTZ Capabilities	355° Pan, 90° Tilt
Viewing Angle	108 Degrees
Night Vision Range	65.64 Feet
International Protection Rating	IP66
Item Dimensions (L x W x H)	0.36 x 0.35 x 7 inches
Item Weight	1.69 pounds
Material	Acrylonitrile Butadiene Styrene (ABS)
Special Features	2-Way Audio, Color Night Vision, IR Night Vision, Motion Detection, Auto Tracking, Siren, Floodlight

Size for WiFi Outdoor Camera



Figure 9.1: Dimensions of the WiFi Outdoor Camera.

10. WARRANTY AND SUPPORT

INSEETECH is committed to providing high-quality products and excellent customer service. Your INSEETECH WF821-4MP5G Outdoor Smart Camera comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact INSEETECH customer service

through the contact information provided on our official website or through your purchase platform. Our professional team is dedicated to assisting you with any inquiries.

We value your feedback and are continuously innovating to meet your security needs.