Topcony TY-20

Topcony TY-20 5MP WiFi PTZ Outdoor Surveillance Camera User Manual

Model: TY-20

1. Introduction

Thank you for choosing the Topcony TY-20 5MP WiFi PTZ Outdoor Surveillance Camera. This manual provides essential information for the proper installation, operation, and maintenance of your camera. Please read it thoroughly before use and retain it for future reference.

2. Product Overview

2.1 Key Features

- **5MP HD Resolution & 4X Optical Zoom:** Equipped with a 5MP Sony HD lens (2560*1920P) and 4X optical zoom for clear images and auto-focus.
- **Automatic Tracking & 32 Preset Positions:** Advanced intelligent tracking with 355° horizontal and 110° vertical movement. Supports 32 preset positions and 2 cruise routes.
- **Motion Detection & Alarm Notifications:** High-sensitivity PIR sensor detects mammalian movement, reducing false alarms. Instant notifications via phone and email.
- **Two-Way Audio & IP66 Weatherproof:** Built-in microphone and speaker for two-way communication. IP66 rating ensures outdoor use in various weather conditions.
- **Remote Access & Onvif 2.4 Support:** View real-time video on phone, computer, or browser. Compatible with Onvif 2.4 for integration with other surveillance systems. Supports SD card recording (up to 128GB).
- **Intelligent Night Vision:** 10 infrared LEDs provide night vision up to 60 meters. Supports infrared mode and color night mode (requires external lighting).

2.2 Package Contents

Verify that all components are present in your package:

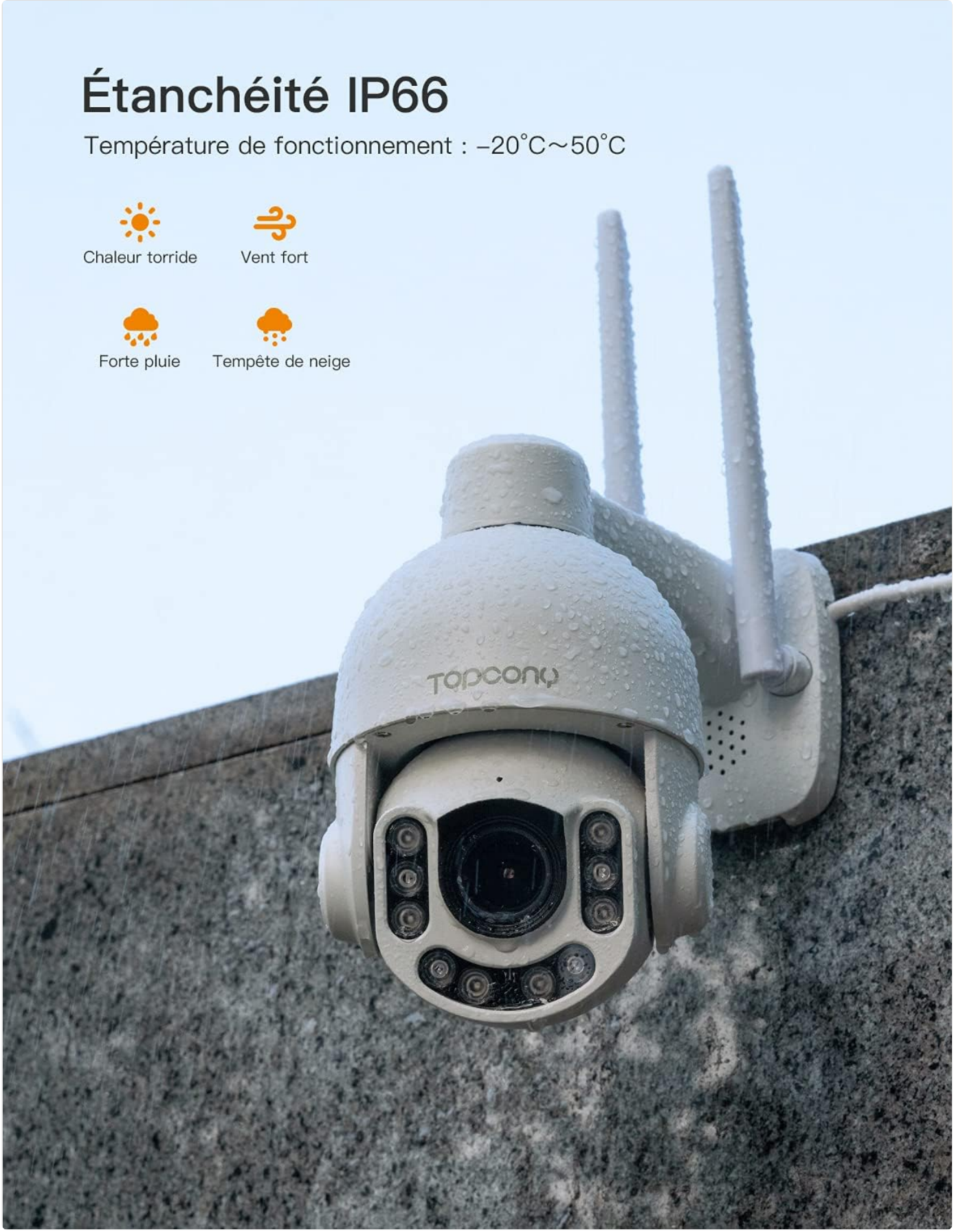


Image: Topcony TY-20 camera, power adapter, user manual, mounting screws, and Ethernet cable.

- Topcony TY-20 PTZ Camera
- Power Adapter
- Mounting Screws and Anchors
- User Manual

- Ethernet Cable (for wired connection, if applicable)
- Installation Template (may be included)

3. Setup and Installation

3.1 Mounting the Camera

1. **Choose a Location:** Select an outdoor location with a clear view of the area you wish to monitor. Ensure it is within range of your WiFi network or close to an Ethernet port.
2. **Mark Drill Holes:** Use the provided mounting template (if available) or the camera base to mark the positions for drilling.
3. **Drill Holes:** Drill pilot holes at the marked positions. Insert wall anchors if mounting on masonry or concrete.
4. **Secure the Camera:** Align the camera base with the drilled holes and secure it using the provided screws.

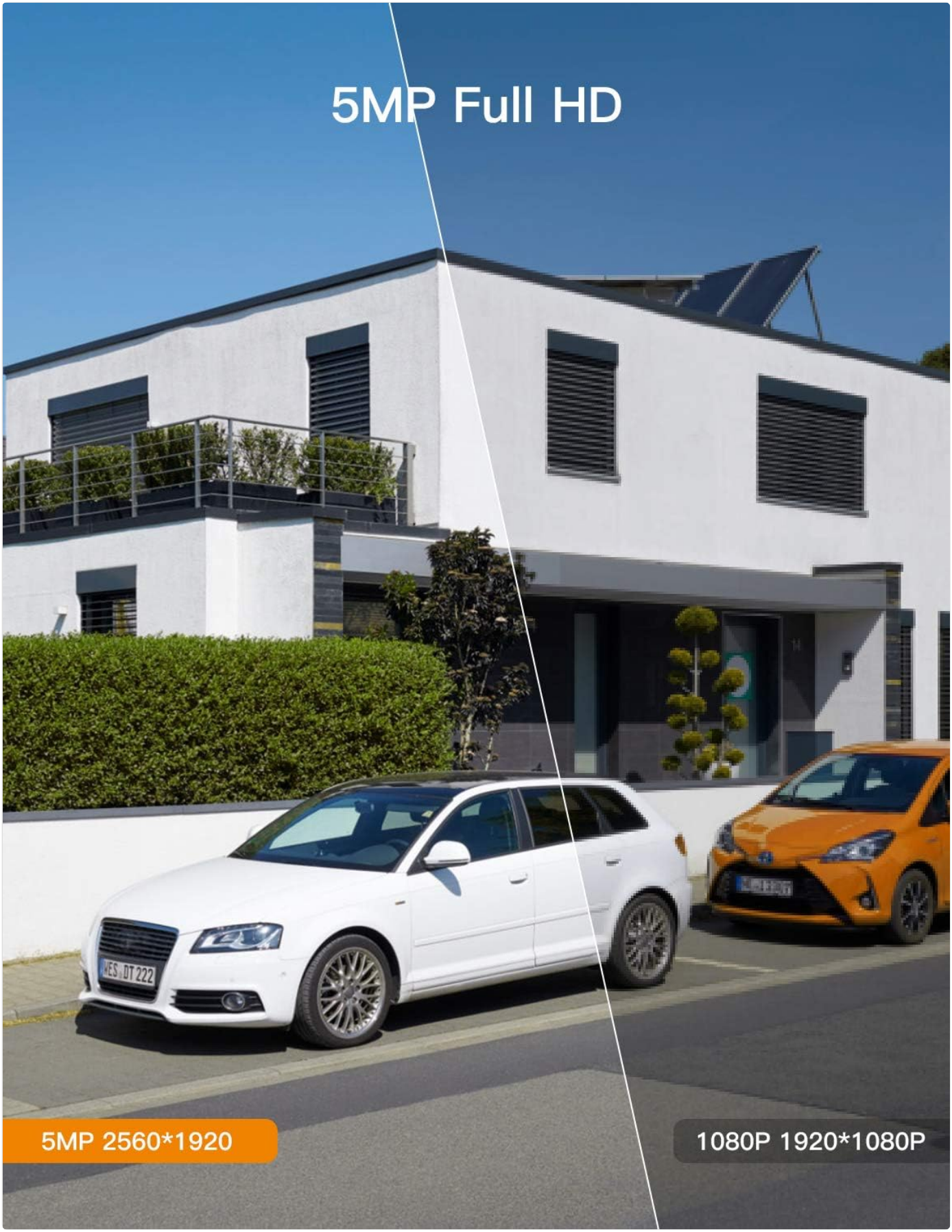


Image: Topcony TY-20 camera securely mounted on an exterior wall, showing its dual antennas.

3.2 Powering On the Camera

Connect the power adapter to the camera's power input port and then plug it into a power outlet. The camera will initiate its self-test sequence.

3.3 Network Connection

The camera supports both wired and wireless connections.

3.3.1 Wireless (WiFi) Connection

1. **Download the App:** Download the "Camhipro" or "Camhi" app from your smartphone's app store (iOS/Android).
2. **Register/Login:** Create an account or log in to the app.
3. **Add Camera:** Follow the in-app instructions to add a new device. This typically involves scanning a QR code on the camera or manually entering its ID.
4. **Connect to WiFi:** Select your 2.4GHz WiFi network and enter the password when prompted. Ensure your phone is connected to the same 2.4GHz network during setup.
5. **Complete Setup:** Once connected, the camera will appear in your app's device list.

3.3.2 Wired (Ethernet) Connection

1. **Connect Ethernet Cable:** Connect one end of an Ethernet cable to the camera's Ethernet port and the other end to your router or network switch.
2. **Power On:** Connect the power adapter as described in section 3.2.
3. **Add Camera in App:** Follow the "Add Camera" steps in the Camhipro/Camhi app. The app should detect the camera automatically via the wired connection.

4. Operating Instructions

4.1 Live View

Open the Camhipro/Camhi app and select your camera from the device list to access the live video feed. You can view the feed on your smartphone, computer, or web browser.

4.2 PTZ Control (Pan, Tilt, Zoom)

Use the controls within the app to remotely adjust the camera's viewing angle.



Image: Diagram illustrating the camera's 355° pan and 110° tilt capabilities, with a smartphone displaying the live feed.

- **Pan:** Rotate the camera horizontally up to 355°.
- **Tilt:** Adjust the camera vertically up to 110°.
- **Zoom:** Utilize the 4X optical zoom to magnify details without losing image quality.

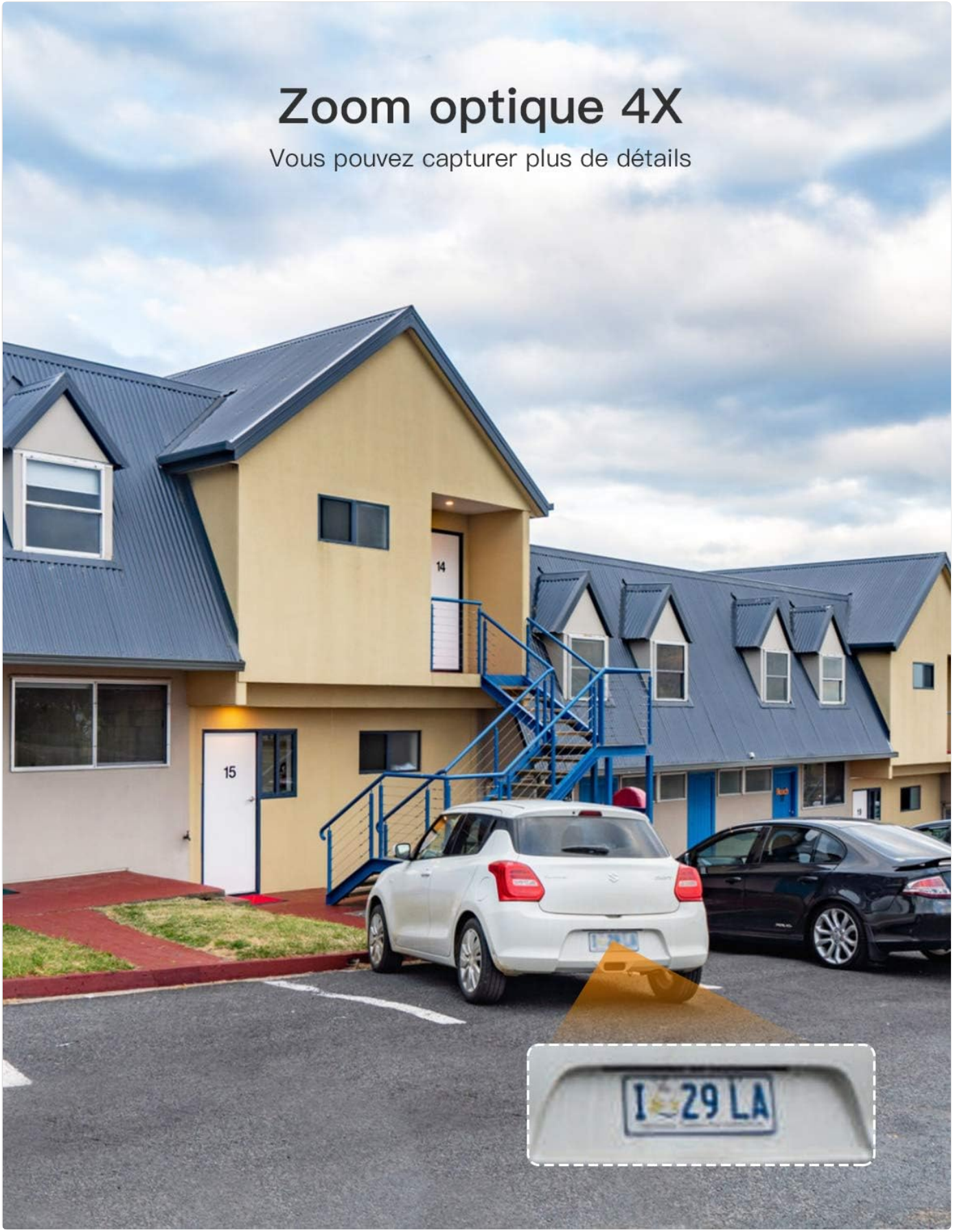


Image: A car's license plate is clearly visible after using the 4X optical zoom feature of the Topcony TY-20 camera.

4.2.1 Preset Positions and Cruise Routes

You can set up to 32 important preset positions and customize 2 cruise routes for automatic monitoring.



Image: A diagram showing the camera's ability to monitor multiple preset points (1, 2, 3) around a property, including a pool area.

4.3 Motion Detection and Alerts

The camera uses a PIR sensor for accurate motion detection, minimizing false alarms from environmental factors.

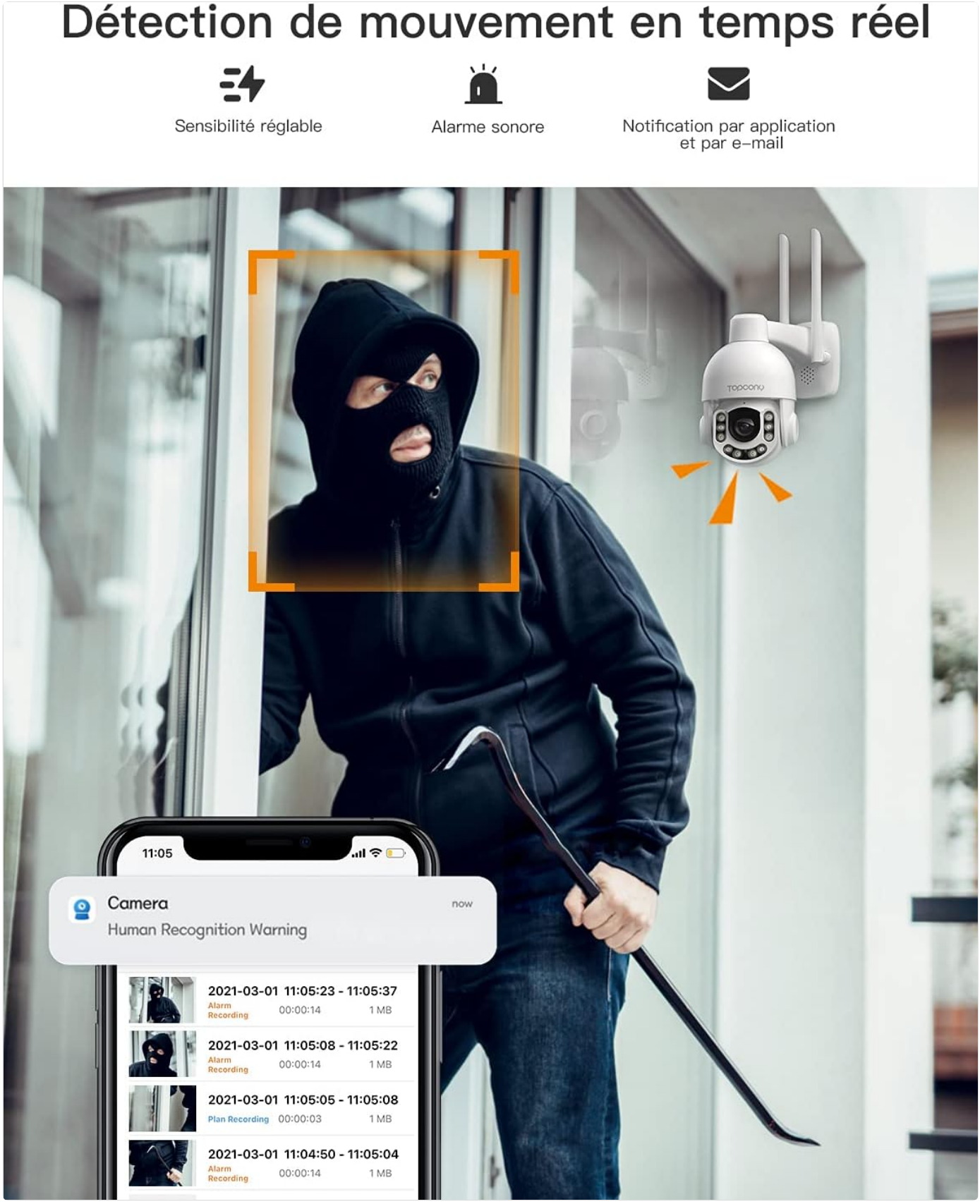


Image: A person with a crowbar is highlighted by the camera's detection zone, and a smartphone displays a "Human Recognition Warning" notification.

- **Enable Detection:** Activate motion detection in the app settings.
- **Customize Detection Zone:** Define specific areas for motion detection to enhance alarm accuracy.
- **Receive Notifications:** Get instant alerts via phone notifications and email when motion is detected.

4.4 Two-Way Audio

Communicate with individuals near the camera using the built-in microphone and speaker through the Camhipro/Camhi app.



Image: A smartphone screen displaying a live feed of a child, with speech bubbles indicating two-way audio communication: "Ok mom, I'll be right back." and "Honey, it's dinner time!"

4.5 Night Vision

The camera provides clear vision even in low-light conditions or complete darkness.



Image: A split image demonstrating the camera's night vision capabilities, showing an infrared (black and white) view on the left and a color night vision view on the right, with a range of up to 60m.

- **Infrared Mode:** Provides black and white video in complete darkness.
- **Color Night Mode:** Offers color video at night with the assistance of external lighting.

4.6 Recording and Storage

The camera supports local storage via an SD card (up to 128GB) for continuous or event-triggered recording.

- **SD Card Installation:** Insert a formatted Micro SD card into the designated slot on the camera.
- **Recording Settings:** Configure recording schedules and event triggers (e.g., motion detection) within the app.
- **Playback:** Access recorded footage directly from the app.

5. Maintenance

- **Cleaning:** Regularly wipe the camera lens with a soft, dry cloth to ensure clear image quality. Do not use harsh chemicals.
- **Firmware Updates:** Check the app periodically for firmware updates to ensure optimal performance and security.
- **Power Supply:** Ensure the power adapter and cable are free from damage.
- **Network Connection:** Verify your WiFi signal strength or Ethernet connection for stable operation.

6. Troubleshooting

Problem	Possible Cause	Solution
Camera offline	No power, poor WiFi signal, network issue.	Check power connection. Ensure camera is within WiFi range. Restart router. Reconfigure network settings in app.
Unclear image	Dirty lens, low resolution setting, poor lighting.	Clean the lens. Adjust resolution settings in the app. Ensure adequate lighting for color night vision.
No motion detection alerts	Detection disabled, incorrect sensitivity, app notifications off.	Enable motion detection in app. Adjust sensitivity. Check phone notification settings for the app.
Two-way audio not working	Microphone/speaker muted, app permissions.	Check audio settings in the app. Ensure app has microphone permissions on your phone.

7. Specifications

Feature	Detail
Model Name	TY-20
Resolution	5MP (2560x1920P)
Optical Zoom	4X
Pan Angle	355 Degrees
Tilt Angle	110 Degrees
Connectivity	Wired (Ethernet), Wireless (Wi-Fi 2.4GHz)
Night Vision Range	Up to 60 meters (10 IR LEDs)

Feature	Detail
Weatherproof Rating	IP66
Storage	Micro SD Card (up to 128GB)
Power Source	Electric Cable (24 Watts)
Operating Temperature	-20°C ~ 50°C
Compatible Devices	Smartphone (iOS, Android), Computer, Web Browser
Mounting Type	Wall Mount
Dimensions	31.1 x 23.7 x 14.5 cm
Weight	1.56 kg

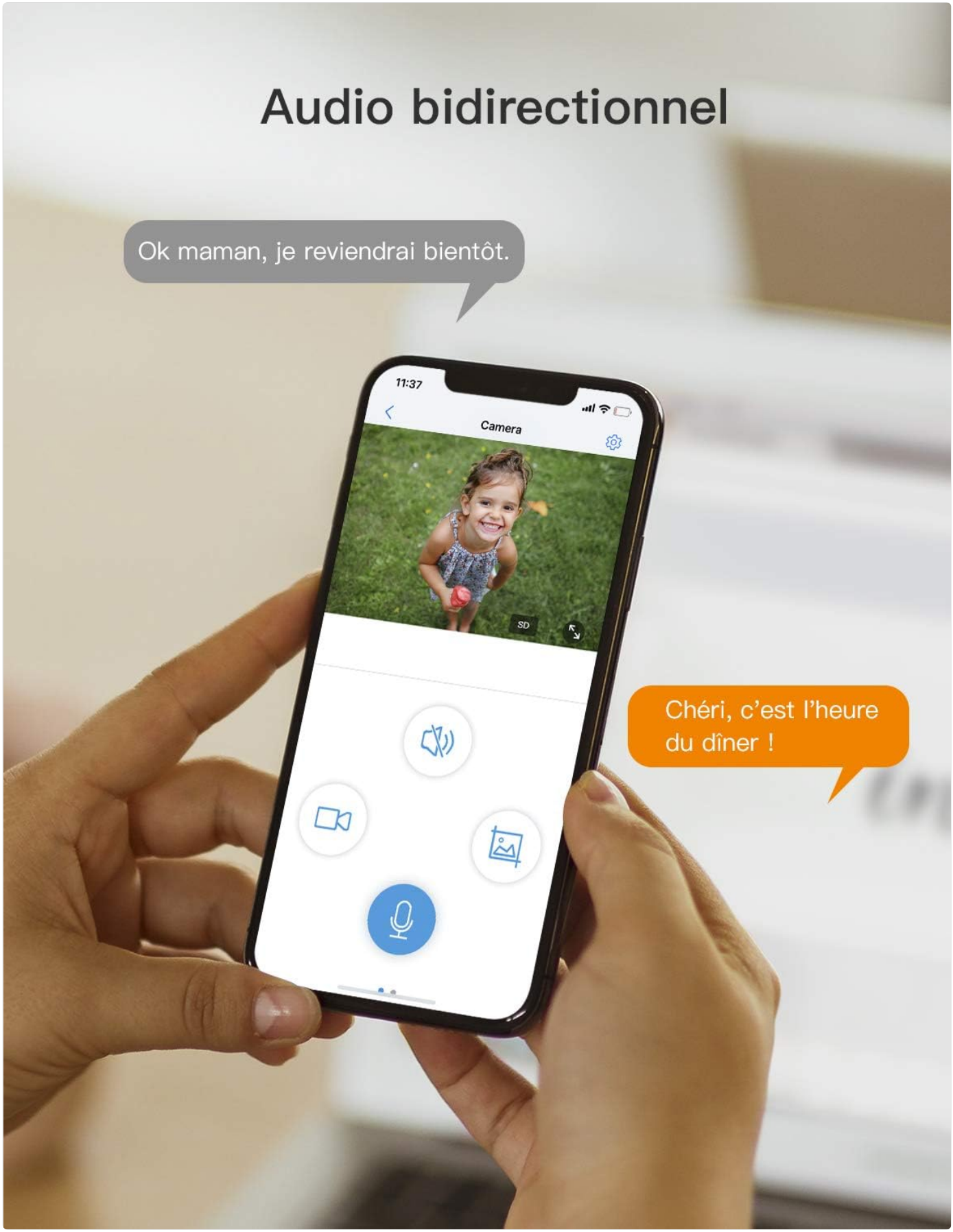


Image: The Topcony TY-20 camera is shown with water droplets, illustrating its IP66 weatherproof rating and resistance to heat, strong wind, heavy rain, and snowstorms, with an operating temperature range of -20°C to 50°C.

8. Warranty and Support

Topcony products are designed for reliability and performance. For warranty information, please refer to the specific

warranty card included in your product packaging or visit the official Topcony website.
For technical support, troubleshooting assistance, or any inquiries, please contact Topcony customer service through the contact information provided on the official website or within the Camhipro/Camhi application.

Online Resources:

- Topcony Brand Store on Amazon
- Refer to the Camhipro/Camhi app for in-app support and FAQs.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question