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TENVIS TA702D

TENVIS TA702D Outdoor Wi-Fi PTZ Camera User Manual

Model: TA702D

1. Introduction

The TENVIS TA702D is an advanced outdoor Wi-Fi Pan-Tilt-Zoom (PTZ) camera designed for surveillance and security applications. It features Full HD 1080p resolution, a 5x optical zoom lens with autofocus, and powerful night vision capabilities up to 60 meters. The camera is weather-resistant with an IP66 rating and includes a pre-installed 32GB microSD card for local storage. It supports both Wi-Fi and Ethernet connectivity and can be easily configured via P2P technology using the TENVISTY or CamHi Pro mobile applications.
Key features include:

- Full HD 1080p (2.0 Megapixel) video resolution.
- Motorized Pan (355°) and Tilt (90°) for wide area coverage.
- 5x Optical Zoom with Autofocus for detailed viewing.
- Night vision up to 60 meters with 6 powerful infrared LEDs.
- IP66 weather resistance for outdoor use.
- Built-in 32GB Kingston Class 10 microSD card for recording.
- Motion detection with real-time app notifications and email alerts.
- P2P (Plug & Play) for simplified setup via QR code.
- Compatible with ONVIF 2.1, RTSP, and RTMP protocols.
- Supports TENVISTY and CamHi Pro applications for Android and iOS.

2. Setup

2.1 Package Contents

Before installation, ensure all items are present in the package:

- TENVIS TA702D PTZ Camera
- Power Adapter (AC 220V)
- Mounting Screws and Plugs
- Waterproof Kit for Ethernet Cable (if applicable)
- Quick Start Guide (refer to this manual for detailed instructions)

2.2 Physical Installation

The camera is designed for outdoor use and can be mounted on a wall or ceiling. Choose a location that provides the desired viewing angle and has access to a power outlet and network connection (Wi-Fi signal or Ethernet cable).

1. **Mounting:** Use the provided mounting template (if included) to mark drill holes. Secure the camera bracket firmly to the surface using the screws and plugs.
2. **Power Connection:** Connect the power adapter to the camera's power input and then plug it into a suitable AC 220V power outlet.
3. **Network Connection:**
    - **Wi-Fi:** Ensure the camera is within range of your Wi-Fi router. You will configure the Wi-Fi settings via the mobile app.
    - **Ethernet:** For a wired connection, connect an Ethernet cable from your router to the camera's RJ45 port. Use the waterproof kit for outdoor installations to protect the connection.



Figure 1: TENVIS TA702D outdoor PTZ camera mounted on a wall bracket, providing a general view of the product.



Figure 2: Side view of the TENVIS TA702D camera, highlighting the product label. The label includes details such as "MEGAPIXEL IP CAMERA", "LENS 2.8-12MM", "Adapter Power: 12V/2A", and the P2P ID: CP3VSL35KUXKTU4H111A.

2.3 App Configuration (P2P Setup)

The TENVIS TA702D camera utilizes P2P (Plug & Play) technology for easy setup via a mobile application.

1. **Download the App:** Download the free *TENVISTY* or *CamHi Pro* app from the App Store (iOS) or Google Play Store (Android).
2. **Register/Login:** Open the app and register a new account or log in if you already have one.

3. **Add Camera:** Tap the "Add Device" or "+" icon within the app.
4. **Scan QR Code:** Select the option to scan the QR code. Locate the QR code on the camera's label (often on the side or bottom of the camera body or packaging). Scan it using your phone's camera. The P2P ID (e.g., CP3VSL35KUXKTU4H111A) will be automatically entered.
5. **Network Setup (for Wi-Fi):** If using Wi-Fi, the app will guide you through connecting the camera to your wireless network. Enter your Wi-Fi SSID and password. For wired connections, this step may be skipped.
6. **Set Password:** Create a strong password for your camera for security purposes.
7. **Start Viewing:** Once successfully added, the camera will appear in your device list, and you can begin live viewing.

3. Operating the Camera

3.1 Live View and Control

From the TENVISTY or CamHi Pro app, select your camera to access the live view interface.

- **Pan & Tilt:** Use the on-screen joystick or swipe gestures to move the camera horizontally (Pan 355°) and vertically (Tilt 90°).
- **Zoom:** Use the pinch-to-zoom gesture or dedicated zoom controls in the app to utilize the 5x optical zoom. The camera will automatically adjust focus.
- **Night Vision:** The camera automatically switches to night vision mode in low-light conditions, activating its infrared LEDs and IR-CUT filter for clear black and white images up to 60 meters.



Figure 3: Front view of the TENVIS TA702D camera, showing the central lens surrounded by six infrared LEDs for night vision functionality.

3.2 Motion Detection and Alarms

The camera features customizable motion detection to alert you to activity.

1. **Enable Motion Detection:** Navigate to the camera settings in the app and enable motion detection.
2. **Sensitivity Levels:** Adjust the sensitivity to minimize false alarms. Higher sensitivity detects smaller movements.
3. **Detection Areas:** Define specific areas within the camera's view where motion should be detected. This helps to ignore irrelevant movements (e.g., trees swaying).
4. **Alarm Actions:** Configure the desired actions upon motion detection:
    - **Push Notifications:** Receive real-time alerts on your smartphone or tablet.
    - **Email Alerts:** The camera can send emails with attached photographs of the detected event.
    - **Video Recording:** Automatically trigger video recording to the microSD card, NVR, or FTP server.

3.3 Video Recording

The TENVIS TA702D supports various recording methods.

- **MicroSD Card:** The camera comes with a pre-installed 32GB Kingston Class 10 microSD card. Recordings can be stored directly on this card. Access and manage recordings via the mobile app.
- **Recording Modes:**
    - **Continuous Recording:** Records constantly, overwriting older footage when the card is full.
    - **Scheduled Recording:** Set specific times and days for the camera to record.
    - **Alarm Recording:** Records only when motion is detected.
- **NVR/FTP Recording:** The camera supports recording to Network Video Recorders (NVRs) or FTP servers (e.g., NAS or HDD connected to a router) for extended storage and management. Refer to your NVR or FTP software documentation for integration.

4. Maintenance

Regular maintenance ensures optimal performance and longevity of your TENVIS TA702D camera.

- **Cleaning:** Periodically clean the camera lens and housing with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the surface or lens coating.
- **Power Supply:** Ensure the power adapter and cable are free from damage. A stable power supply is crucial for continuous operation.
- **Network Connection:** Verify that your Wi-Fi signal is strong or that the Ethernet cable connection is secure and undamaged.
- **Firmware Updates:** Check the TENVISTY or CamHi Pro app periodically for available firmware updates. Keeping the firmware updated can improve performance, add features, and enhance security. Follow the app's instructions for safe updating.
- **MicroSD Card Management:** If using continuous recording, the microSD card will eventually overwrite old footage. Regularly review important recordings and back them up if necessary. Consider formatting the card periodically (via the app) to maintain performance.

5. Troubleshooting

If you encounter issues with your TENVIS TA702D camera, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Camera not powering on.	No power, faulty adapter, loose connection.	Check power outlet, ensure adapter is securely connected to camera and power source. Test with another compatible adapter if available.
Cannot connect to camera via app.	Incorrect Wi-Fi password, weak Wi-Fi signal, camera not connected to network, incorrect P2P ID.	Verify Wi-Fi password. Ensure camera is within Wi-Fi range or Ethernet cable is connected. Re-scan QR code. Restart camera and router.
Poor image quality / blurry video.	Dirty lens, poor lighting, network bandwidth issues, camera out of focus.	Clean the lens. Ensure adequate lighting or check night vision settings. Check your internet speed. The 5x optical zoom has autofocus, ensure it has time to adjust.
Motion detection not triggering.	Sensitivity too low, detection area not set correctly, motion detection disabled.	Adjust motion detection sensitivity in the app. Verify detection areas are configured correctly. Ensure motion detection is enabled.
No recordings on microSD card.	SD card full, not formatted, faulty card, recording schedule not set, motion detection not triggering recording.	Check SD card status in the app. Format the SD card if necessary (this will erase all data). Verify recording settings (continuous, scheduled, alarm). Ensure motion detection is working if using alarm recording.

6. Specifications

Detailed technical specifications for the TENVIS TA702D camera:

Model Code	TA702D
Sensor	CMOS with IR-CUT filter
Lens	f:2.7-13.5 mm, F:2.0
View Angle	25° to 96°
Resolution	Up to 1920x1080p (2.0 Megapixel)
Video Encoding	H.264
Frame Rate	Up to 25 fps
WDR Technology	Yes, for clear video in all light conditions
Weather Resistance	IP66 Standard

Pan & Tilt Movement	Horizontal 355°, Vertical 90°
Zoom	5x Optical Zoom with Autofocus
Infrared LEDs	6 powerful IR LEDs
Night Vision Range	Up to 60 meters
MicroSD Card	Kingston 32GB Class 10 (pre-installed)
Wi-Fi	802.11n (WPA, WPA2)
LAN	Ethernet 10/100M RJ45
P2P	Yes, via QR code
Motion Detection	Yes, with customizable sensitivity and areas
Alarm Notifications	App push notifications, Email with attached photos
Recording Options	Alarm-triggered, Continuous, Scheduled (to microSD, NVR, FTP)
Supported Browsers	Internet Explorer 11
Mobile Apps	CamHi Pro, TENVISTY (Android, iOS), TinyCam Monitor (Android), LiveCams (iOS)
Supported Protocols	ONVIF 2.1, RTSP, RTMP
Operating Temperature	-10°C ~ 50°C
Operating Humidity	10% ~ 80% (non-condensing)
Dimensions	23.4 x 20.9 x 13.8 cm
Weight	1.8 Kg
Power Supply	AC 220V

7. Warranty and Support

For warranty information, please refer to the terms and conditions provided by your retailer or the official TENVIS website at the time of purchase. This manual provides operational guidance; for specific technical support or warranty claims, please contact TENVIS customer service or your product vendor.
You can also find assistance and frequently asked questions within the *TENVISTY* or *CamHi Pro* mobile applications.

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