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› TP-Link Tapo SolarCam 2K Outdoor Battery Camera User Manual

Tapo Tapo C425 KIT

Tapo SolarCam 2K Outdoor Battery Camera User Manual

Model: Tapo C425 KIT

1. PRODUCT OVERVIEW

The Tapo SolarCam 2K is a solar-powered wireless outdoor security camera designed for comprehensive home surveillance. It offers flexible installation options, allowing the camera and solar panel to be set up as a single unit or separately using the included 13-foot cable for optimal sunlight exposure. This camera features 2K QHD resolution, a 150° super-wide field of view, and advanced detection capabilities for persons, vehicles, and pets. It supports both local microSD card storage and cloud storage via Tapo Care service, ensuring continuous recording and secure access to your footage.



Figure 1.1: Tapo SolarCam 2K with integrated solar panel.



Go Where Wires Can't

Captures the perfect shot while not being limited to power outlet placement.

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Figure 1.2: Tapo SolarCam 2K installed with the solar panel separated by a cable, demonstrating flexible placement.

2. WHAT'S IN THE BOX

Verify that all components are present in your package:

- Tapo Camera ×1
- Tapo A201 Solar Panel ×1
- Camera Bracket ×1
- Extension Wire ×1
- Decorative Cover Plate ×1
- Mounting Template ×1
- Type-C to Micro USB Adapter ×1
- Mounting Anchors ×6
- Mounting Screws ×6
- Waterproof Seals ×2

- Battery Charger Cable x1
- Cable Tie x1
- Quick Start Guide

3. SETUP

Follow these steps to set up your Tapo SolarCam 2K:

1. **Charge the Camera:** Before installation, fully charge the camera's built-in battery using the provided battery charger cable.
2. **Download the Tapo App:** Search for "Tapo" in your mobile device's app store (App Store for iOS or Google Play Store for Android) and download the official Tapo app.
3. **Create an Account:** Open the Tapo app and follow the on-screen instructions to create a new Tapo account or log in if you already have one.
4. **Add Your Camera:** In the Tapo app, tap the "+" icon to add a new device. Select your Tapo SolarCam 2K model and follow the in-app instructions for pairing the camera with your Wi-Fi network.
5. **Choose Installation Location:** Select a location for your camera and solar panel that provides optimal sunlight exposure for the solar panel and a clear view for the camera. Ensure the location is within your Wi-Fi range. The camera and solar panel can be installed as a combined unit or separately using the 13-foot extension cable.
6. **Mount the Camera and Solar Panel:** Use the provided mounting template, screws, and anchors to securely attach the camera bracket and solar panel to your chosen surface. Ensure the solar panel is angled to receive maximum direct sunlight throughout the day.
7. **Connect Solar Panel:** If installing separately, connect the solar panel cable to the camera. Use the waterproof seals to ensure a secure and weather-resistant connection.



The image shows a white Tapo SolarCam 2K camera mounted on a wall. A solar panel is attached to the top of the camera's mounting bracket. A blue lightning bolt graphic connects the solar panel to the camera, symbolizing power transfer. The background is a blue sky with clouds.

45min

of direct sunlight powers the Tapo SolarCam 2K camera for a full day¹, eliminating battery concerns with flexible installation.

10000mAh

rechargeable battery lasts up to 300 days² on a single charge, guaranteeing uninterrupted performance.

Non-Stop Power Supply

Ensures a lifetime of use without dealing with batteries, wiring, or recharging.



Figure 3.1: Non-stop power supply from the solar panel, ensuring continuous operation.

4. OPERATING INSTRUCTIONS

Once your Tapo SolarCam 2K is set up, you can manage and monitor it using the Tapo app.

4.1 Live View and Recording

- **Access Live View:** Open the Tapo app and select your camera from the device list to view the live feed.
- **2K QHD Resolution:** The camera provides crystal-clear 2K QHD resolution, offering 1.7 times more pixels than 1080p for enhanced detail.
- **150° Super-Wide FOV:** The wide field of view allows you to monitor a larger area, reducing blind spots.
- **Recording:** Footage is automatically recorded based on motion detection settings and stored locally on a microSD card (up to 512GB, sold separately) or uploaded to the Tapo Care cloud service (subscription required).



2K QHD Live View

Enjoy crystal-clear details of high-quality images with 1.7x more pixels than 1080p.

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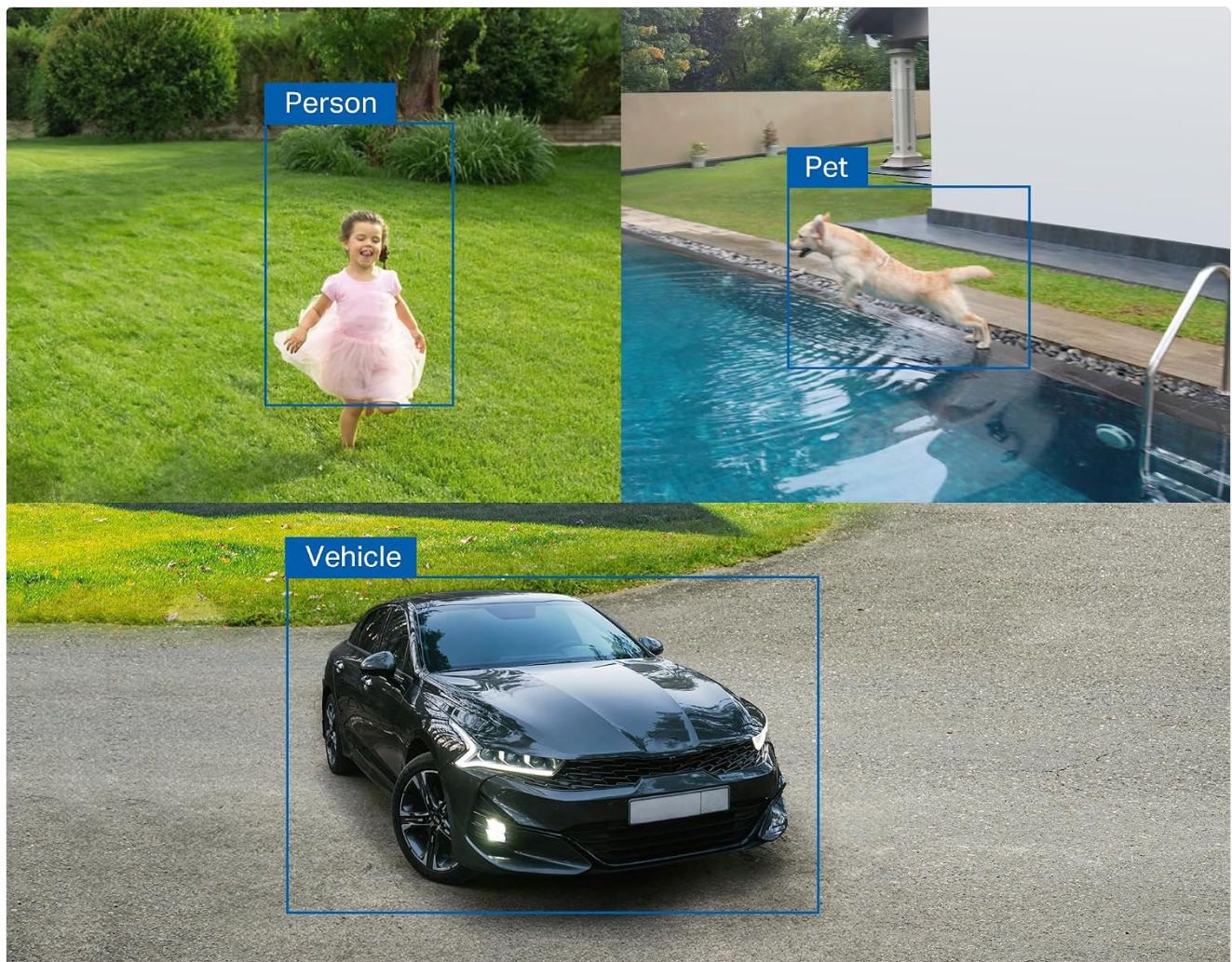
Figure 4.1: Experience clear details with 2K QHD live view.



Figure 4.2: The 150° super-wide FOV provides extensive coverage.

4.2 Detection Features

- **Person/Vehicle/Pet Detection:** The camera utilizes smart AI to identify and differentiate between people, vehicles, and pets, reducing false alerts.
- **Activity Zones:** Customize specific activity zones within the camera's view to focus detection on areas of interest and receive alerts only when truly needed.
- **Instant Alerts:** Receive real-time notifications on your mobile device when motion or specific detections are triggered.



Multiple AI Detection, All for Free

Smart AI identifies people, pets, and vehicles while only sending you alerts when truly needed.

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Figure 4.3: Multiple AI detection capabilities for precise alerts.

4.3 Night Vision

- **Starlight Color Night Vision:** Equipped with a starlight sensor and built-in spotlights, the camera provides full-color images even in low-light conditions, offering clearer night surveillance than traditional black-and-white night vision.
- **Night Vision Range:** The camera has a night vision range of up to 49 feet.



Color Night Vision

Offers full-color images at night with built-in spotlights and a starlight sensor.

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Figure 4.4: Color Night Vision provides vivid details at night.

4.4 Two-Way Audio and Siren

- **Two-Way Audio:** Communicate with visitors or deter intruders using the built-in microphone and speaker.
- **Built-in Siren:** Activate the integrated siren to scare away unwanted visitors.

4.5 Storage Options

- **Local Storage:** Supports microSD card storage up to 512GB (card sold separately) for local recording.
- **Cloud Storage:** Optional Tapo Care cloud service provides secure cloud storage for your video recordings.



Secure Local & Cloud Storage

Save all your important moments to a microSD card or subscribe to Tapo Care cloud service.

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Figure 4.5: Secure local and cloud storage options.

4.6 Privacy Features

- **Privacy Zones:** Set up blocked areas within the camera's view to prevent recording of private spaces.
- **Two-Step Verification:** Enhance account security with two-factor authentication for accessing your videos and settings.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Tapo SolarCam 2K.

- **Clean the Lens:** Periodically wipe the camera lens with a soft, clean cloth to remove dust, dirt, or water spots that may affect image clarity.
- **Clean the Solar Panel:** Ensure the solar panel surface is clean and free of debris (leaves, dust, snow) to maximize sunlight absorption and charging efficiency.
- **Check Connections:** Occasionally inspect all cable connections, especially the solar panel connection, to ensure they are secure and waterproof.
- **Software Updates:** Keep the Tapo app and camera firmware updated to the latest versions to benefit from new features, performance improvements, and security enhancements. Check for updates within the Tapo app settings.

6. TROUBLESHOOTING

If you encounter issues with your Tapo SolarCam 2K, try the following troubleshooting steps:

- **No Power/Camera Offline:**
 - Ensure the solar panel is receiving adequate direct sunlight.
 - Check the solar panel cable connection to the camera.
 - Verify the camera's battery level in the Tapo app. If low, bring the camera indoors for a full charge using the USB cable.
 - Confirm your Wi-Fi network is active and the camera is within range.
- **Poor Image Quality:**
 - Clean the camera lens.
 - Check your Wi-Fi signal strength in the camera's location. A weak signal can affect video quality.
 - Ensure there are no obstructions in the camera's field of view.
- **Motion Detection Issues:**
 - Adjust the motion detection sensitivity settings in the Tapo app.
 - Review and reconfigure activity zones to ensure they cover the desired areas.
 - Ensure there are no large objects (e.g., tree branches) that might cause frequent false alerts due to movement.
- **Cannot Connect to Wi-Fi:**
 - Ensure you are entering the correct Wi-Fi password.
 - Move the camera closer to your Wi-Fi router during the setup process.
 - Restart your router and the camera.
 - If issues persist, consider resetting the camera to factory defaults (refer to the Quick Start Guide for instructions) and attempting setup again.

7. SPECIFICATIONS

Feature	Detail
Model Name	Tapo SolarCam 2K
Model Number	Tapo C425 KIT
Indoor/Outdoor Usage	Outdoor
Power Source	Battery Powered (1 Lithium Ion battery included)
Battery Capacity	10000 mAh
Connectivity Protocol	Wi-Fi
Video Capture Resolution	2K QHD
Viewing Angle	150 Degrees
Night Vision Range	49 Feet
Low Light Technology	Starlight

International Protection Rating	IP66 (for camera)
Storage Options	microSD (up to 512GB), Cloud (Tapo Care)
Compatible Devices	Smartphone (Works with Alexa and Google Assistant)
Product Dimensions (L x W x H)	2.5 x 2.5 x 4.55 inches
Item Weight	2.55 pounds
UPC	810142820165

8. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included in your product packaging or visit the official Tapo website. TP-Link offers various support resources to assist you with your product.

- **Online Support:** Visit [TP-Link Support](#) for FAQs, troubleshooting guides, and firmware downloads.
- **Technical Support Hotline:** For direct assistance, you may contact TP-Link technical support. (Specific phone numbers may vary by region; please check the official website for the most current contact information.)
- **Tapo App:** The Tapo app also provides in-app support and resources.