

Table of Contents

Overview

Features

Specifications

Datasheet

Solar-Powered Security Camera Kit









Overview

- **Uninterrupted Power Supply:** Enjoy a maintenance-free security experience with the Tapo Solar Panel, which provides a continuous power supply and flexible installation.
- **Wire-Free, Installs Almost Anywhere:** Eliminates the need for outlets and enables flexible placement. Add security to your home, wherever, whenever.
- **Superior 2K 3MP Visuals:** Capture every detail in crystal-clear 2K resolution, with advanced algorithms ensuring perfect exposure day and night.
- **Color Night Vision:** See the night in vivid colors with the large aperture lens and built-in spotlights effective up to 30 feet (9m).

- **Flexible Storage Options:** Choose from local microSD storage up to 512GB or the secure Tapo Care cloud service for additional peace of mind.
- **Smart Person Detection:** Get alerts when a person is detected, reducing false alerts and unnecessary notifications.
- **Intelligent Phone Notifications:** Customize activity zones for precise motion detection and phone alerts, focusing on what truly matters.
- **IP65 Weatherproof:** Offers excellent waterproof and dustproof performance for outdoor scenarios.

Features

	<p>High-Efficiency Solar Charging Daily 45 minutes* of direct sunlight charges the camera for all-day use. No sun? No problem—the built-in battery provides power for up to 180 days.**</p>		<p>Color Night Vision Enhances your nighttime security by revealing vivid colors with the built-in dual spotlights.</p>
	<p>2K 3MP Live View Captures more details and delivers high-definition pictures with a 2304×1296 px resolution.</p>		<p>Smart Person Detection Receive notifications only when a person is detected, reducing false alerts and prolonging battery life.</p>
	<p>Customizable Sound and Light Alarm Record your voice and set the spotlight brightness to create an alarm that fits your needs.</p>		<p>Local and Cloud Storage Store footage on a microSD card (up to 512 GB) without a subscription, or use cloud storage for</p>

	<p>High-Efficiency Solar Charging</p> <p>Daily 45 minutes* of direct sunlight charges the camera for all-day use. No sun? No problem—the built-in battery provides power for up to 180 days.**</p>	<p>Color Night Vision</p> <p>Enhances your nighttime security by revealing vivid colors with the built-in dual spotlights.</p>
		<p>added convenience.***</p>
	<p>Connect Directly to Wi-Fi</p> <p>Easily connect the camera to your network wirelessly via Wi-Fi for a more flexible installation.</p>	<p>Two-Way Audio</p> <p>Talk and listen through the device with its integrated microphone and speaker.</p>

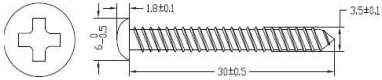
Specifications

Camera	
Image Sensor	1/2.8" CMOS Sensor
Lens	Focal Length: 3.17 mm Aperture: F1.65 Field of View: 125° (Diagonal), 111°(Horizontal), 56°(Vertical)
Night Vision	850 nm IR LED (30 ft / 9.1 m) Full-Color Night Vision
Night Mode	IR-Mode/ Full-Color Mode
Lighting	2× Spotlights (4× Built-in LEDs)
Interface & Button	1× POWER Button 1× RESET Button 1× microSD Card Slot (Up to 512 GB)

Solar Panel	
Connection Capacity	A solar panel can only connect to one camera.
Output Port	Type-C
Video & Audio	
Maximum Resolution	2K 3MP (2304 × 1296 px)
Focal Length	15fps
Video Compression	H.264
Live View	Yes
Image Enhancement	3D DNR WDR
Audio Input & Output	Built-in Microphone and Speaker
Audio Communication	Two-Way Audio with Noise Cancellation
Siren Volume	94 dB (Level measured at 4-inch/10-cm distance)
Storage	
Local Storage	microSD Card Slot on Camera (Up to 512 GB) (SD Card Purchased Separately)
Cloud Storage	Tapo Care Cloud Storage Services (Subscription required)
Detection & Notification	
Sensor	Single Motion Sensor (FOV: 110° horizontal) Single Ambient Light Sensors
Detection	Motion Detection AI Detection (Person Detection)
Activity Zones	Yes
Output Notification	System Notification System Notification with

	Snapshot (Tapo Care Services)
Network	
Network Connectivity	Connect via Wi-Fi
Wireless Connectivity	IEEE 802.11b/g/n, 2.4 GHz Wi-Fi
Transmission Rate	11b: 11 Mbps 11g: 54 Mbps 11n: 72.2 Mbps
Protocol	TCP/IP, ICMP, DNS, HTTPS, TCP, UDP
Security	
Security	128-bit AES Encryption with SSL/TLS WPA/WPA2-PSK
Power	
Power Source	<ul style="list-style-type: none"> • Built-in Rechargeable Lithium-ion Battery • Tapo Solar Panel
Solar Panel Max Charging Voltage	5.2 V
Solar Panel Max Charging Power	2.5 W
Camera Adapter Input	100-240 V, 50/60 Hz (Not included)
Camera Adapter Output	5.0 V, 1.0 A (Not included)
Power Cord Length	USB Adapter Cable Length: 0.5 m (19.68 in.) Solar Panel Charging Cable Length: 0.25 m (9.84 in.) Solar Panel Extension Charging Cable Length: 3.8 m (149.61 in.)

Camera Typical Power Consumption	1.04 W
Camera Maximum Power Consumption	2.12 W
General	
Certifications	CE, FCC, DOE, CEC, RCM, KC, NCC, BSMI, NTRA, IP65
Smart Integration	Google Assistant, Amazon Alexa
Weather Resistance	IP65
Mounting Options	Tabletop Ceiling-Mounted Wall-Mounted
Operating Temperature	-20°C~ 45°C (-4 °F~ 113°F)
Storage Temperature	-40°C~ 60°C (-40 °F~ 140°F)
Operating Humidity	10%~90% RH, Non-condensing
Storage Humidity	5%~90% RH, Non-condensing
Charging Temperature	0°C ~ 45°C (32 °F~ 113°F)
Weight	Camera: 230 g / 8.1 oz Solar Panel: 140 g / 4.9 oz
Dimensions	Camera Dimensions: D60 mm*89 mm (D2.36 in. * 3.5 in.) Solar Panel Dimensions: 173.42 × 120.42 × 15.7 mm (6.83 × 4.74 × 0.62 in)
Package Contents	Tapo Camera ×1 Tapo Solar Panel ×1 Tapo Solar Panel Bracket ×1 USB Adapter Cable ×1 Base Cover ×1 Extension Wire ×1 Mounting Screws and

	<p>Anchors Screw Caps ×2 Cable Zip Tie ×1 Mounting Template Stickers ×2 Quick Start Guide</p>
<p>Mounting Screw Size</p>	

*45 min of sunlight is based on standard environmental conditions (1000W/m², 25°C, AM1.5) and specified working scenes (up to 100 events triggered per day). The actual required time of sunlight may vary.

**180-day battery life is based on Tapo laboratory tests with 250s of use per day. The time of use includes recording and watching live views. Actual battery life may vary due to device settings, usage, router specifications, and environmental factors.

***microSD card purchased separately. Actual storage capacity depends on the size of the microSD card used.

Compatible with Alexa and Google Assistant supported displays. User experience is dependent on the connected device's specifications.

Sign Up for News & Offers

Follow Us

About

Press

Learning Center

About Us

News

Technology Library

Corporate Information

Blog

Our Security Commitment

Awards

Sustainability

Security Advisory

Privacy Policy

Ethical Violation Complaint

Accessibility

Contact Us

©2026 TP-Link Systems Inc. and its affiliated companies. All rights reserved.

Worldwide / English

TP-Link, Tapo, Kasa, Omada, VIGI, Aginet, HomeShield, and Tapo Care branded products are products of TP-Link Systems Inc. or its affiliates.

Note: Some services and materials may require you to accept additional terms and conditions before access or use.

References to "TP-Link" may include TP-Link Systems Inc., its subsidiaries, or business units within the TP-Link corporate structure, as applicable.

The materials provided, including but not limited to press releases, presentations, blog posts, and webcasts, are current as of the date of publication and may be superseded by subsequent updates.