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# Tapo C401 KIT V2 Datasheet

## Solar-Powered Security Camera Kit









## Overview

- **Powered Infinitely:** As little as 45 minutes of daily sunlight provides continuous power, eliminating the need for constant recharging.<sup>†</sup>
- **Up to 180-Day Battery Life:** Go wire-free and worry-free. The built-in 5,200mAh battery provides up to 180 days of backup power on days with no sun.\*
- **Person Detection:** No Subscription Required: Stay informed with AI-powered person detection and real-time notifications.
- **See Clearly, Day & Night:** Experience sharp, detailed 1080P Full HD live view and vibrant color night vision for complete home monitoring.

- **Local & Cloud Storage:** Record locally to a 512GB microSD card (not included) or subscribe to Tapo Care for 30-day cloud storage.\*
- **Tailored Alerts & Enhanced Privacy:** Receive only the alerts you need by creating custom activity zones and maintain privacy with custom privacy zones.
- **Year-Round Weather Protection:** Built to last, the IP65 weatherproof design protects your camera from the elements, ensuring reliable performance year-round.

## Features

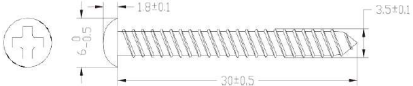
	<p><b>Modular Solar Panel</b> Get the most out of solar charging by installing the modular panel separately – angle precisely for optimal sun exposure.</p>		<p><b>Color Night Vision</b> View scenes in vibrant color even in the dark, with our enhanced night vision and bright spotlights.</p>
	<p><b>Accurate Person Detection</b> AI-powered person detection, no subscription fees. Experience fewer false alarms and extended battery life.</p>		<p><b>All-Day Power with 45 Minutes of Sunlight</b> Power through the entire day with just 45 minutes of sunlight, offering exceptional energy efficiency and uninterrupted operation.<sup>§</sup></p>
	<p><b>No Sun? No Problem</b> The built-in rechargeable 5200mAh battery can power the camera for up to 180 days without sun exposure.<sup>†</sup></p>		<p><b>Local and Cloud Storage</b> Store footage locally on a microSD card (up to 512GB) or utilize the secure Tapo Care cloud service.*</p>

## Specifications

<b>Camera</b>	
Image Sensor	1/3" Progressive Scan CMOS Sensor
Lens	Focal Length: 3.16mm $\pm$ 5% Aperture: F1.6 $\pm$ 5% Field of View: 116.7 $\pm$ 3° (Diagonal), 99.7 $\pm$ 3° (Horizontal), 53.8 $\pm$ 3° (Vertical)
Night Vision	2 $\times$ 850 nm IR LEDs (32.8 ft / 10 m) Color Night Vision
Night Mode	IR-Mode/ Full-Color Mode
Day/Night Switch	IR-Cut Filter with Auto-Switching
Lighting	2 White Lights Motion Activated, App-Controlled
Hub Compatibility	Compatible with H200 & H500
Interface & Button	1 $\times$ POWER Button 1 $\times$ RESET Button 1 $\times$ microSD Card Slot (Up to 512 GB)
<b>Solar Panel</b>	
Connection Capacity	A solar panel can only connect to one camera.
Output Port	Type-C
<b>Video &amp; Audio</b>	
Maximum Resolution	1080P 2MP (1920 $\times$ 1080 px)
Frame Rate	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
Siren Volume	70 dBA (Level measured at 3m distance)
<b>Storage</b>	
Local Storage	microSD Card Slot on Camera (Up to 512 GB) (SD Card Purchased Separately)
Cloud Storage	Tapo Care Cloud Storage Services (Subscription required)
<b>Detection &amp; Notification</b>	
Sensor	Single Motion Sensor (FOV: 120° horizontal)
Detection	Motion Detection AI Detection (Person Detection)
Activity Zones	Yes
Output Notification	System Notification System Notification with Snapshot (Tapo Care Services)
<b>Network</b>	
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, DHCP, ICMP, DNS, NTP, HTTPS, TCP, UDP

<b>Security</b>	
Security	128-bit AES Encryption with SSL/TLS WPA/WPA2-PSK
<b>Power</b>	
Power Source	<ul style="list-style-type: none"> <li>• Built-in Rechargeable Lithium-ion Battery</li> <li>• Tapo Solar Panel</li> </ul>
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, 0.2 A (Not included)
Camera Adapter Output	5.0 V, 1.0 A, Type-C Power (Not included)
Power Cord Length	USB Adapter Cable Length: 0.5 m (19.68 in.) Solar Panel Charging Cable Length: 1 m (39.37 in.)
Camera Typical Power Consumption	0.84 W
Camera Maximum Power Consumption	1.94 W
<b>General</b>	
Smart Integration	Google Assistant, Amazon Alexa
Weather Resistance	IP65
Mounting Options	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: 7.23 oz / 205 g Solar Panel: 5.57 oz/ 158 g
Dimensions	Camera: 81 x 48 x 58.32 mm (3.19 x 1.89 x 2.3 in.) Solar Panel: 173.4 x 120.4 x 15.7 mm (6.82 x 4.74 x 0.62 in.)
Package Contents	<ul style="list-style-type: none"> <li>• Tapo Camera x1</li> <li>• Camera Bracket x1</li> <li>• Solar Panel x1</li> <li>• Solar Panel Bracket x1</li> <li>• USB Adapter Cable x1</li> <li>• Mounting Screws x5</li> <li>• Mounting Anchors x5</li> <li>• Mounting Template Stickers x2</li> <li>• Quick Start Guide</li> </ul>
Mounting Screw Size	

\* 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. The recording days in the table are estimated based on the average video bitrate measured in the

laboratory and 40 daily events. Actual recording days may vary depending on scene complexity, dynamic scene proportion, frame rate settings, and the camera model's supported resolution.

† Actual charging power may vary based on installation location, weather conditions, temperature, and other environmental factors.

§ 45 minutes of sunlight is based on standard environmental conditions (1000W/m<sup>2</sup>, 25°C, AM1.5) and specified working scenes (up to 100 events triggered per day). The actual required time of sunlight may vary.

# The suitable operating temperature for the solar panel is -20°C to 45°C (-4°F to 113°F). The battery charging temperature should be maintained between 0°C and 45°C (32°F and 113°F).

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