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Datasheet

Solar-Powered Pan/Tilt Security Camera Kit

2K Live View

TCW90 KIT



Wire-Free, Worry-Free, Solar-Powered

360° Motion Tracking	Detects People, Alerts You Instantly	See in Color, Day and Night	Rechargeable Battery	Free Local microSD Storage (Up to 512 GB)†

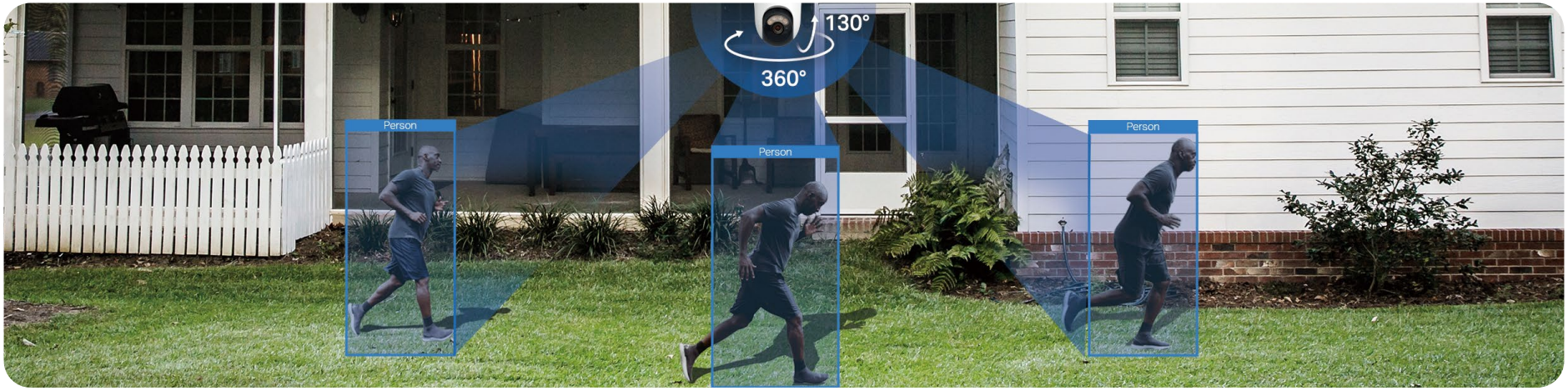
works with alexa

works with Google Home

Highlights

360° Comprehensive Protection

Enjoy a 360° horizontal and 130° vertical viewing range, ensuring full coverage and eliminating blind spots. Set custom patrol points for dynamic, automated monitoring.

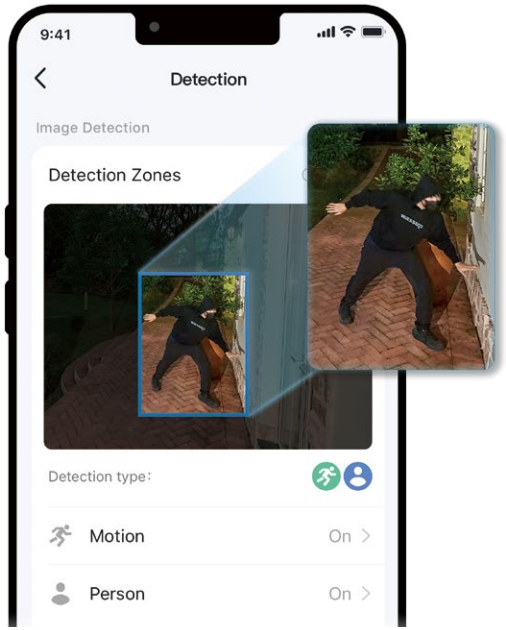


Highlights

Premium Features. Total Control. All in One App.

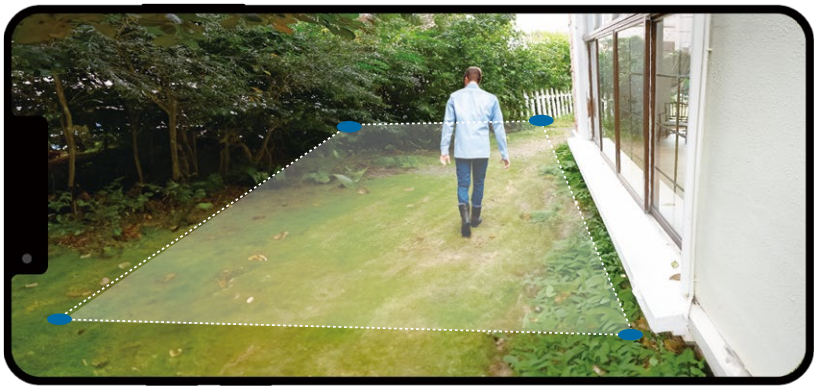
Smart Person Detection

Get instant alerts when a person is detected, reducing false alerts and unnecessary notifications.



Customizable Activity Zones

Set up customized detection zones to be alerted only in areas where you wish to monitor and block out zones you want hidden.



Features

Wire-Free Design

Enjoy unparalleled security with the flexibility to monitor any space—no outlets required.

Color Night Vision

Enhances your nighttime security by revealing vivid colors with the built-in dual spotlights.

Smart Person Detection

Receive notifications only when a person is detected, reducing false alerts and prolonging battery life.

High-Efficiency Solar Charging

Just 45 minutes§ of direct sunlight charges TCW90 for all-day use. No sun? No problem. The built-in battery provides power for up to 200 days.△

2K Live View

Captures more details and delivers high-definition pictures with a 2304×1296 px resolution.

Customizable Sound and Light Alarm

Record your voice and set the spotlight brightness to create an alarm that fits your needs.

Two-Way Audio

Talk and listen through the device with its integrated microphone and speaker.

Local and Cloud Storage

Store footage on a microSD card (up to 512 GB)† without a subscription, or use cloud storage‡ for added convenience.

IP65 Weatherproof

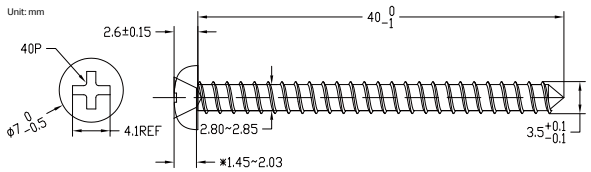
Performs well even in harsh environments with rain and dust, ideal for outdoor scenarios.

Specifications

Camera	Image Sensor	1/2.8" Progressive Scan CMOS Sensor
	Lens	Focal Length: 4 mm ± 5% Aperture: F1.6 ± 5% Field of View: 100.6° (Diagonal), 84.4° (Horizontal), 44.3° (Vertical)
	Night Vision	850 nm IR LED Color Night Vision
	Day/Night Switch	IR-Cut Filter with Auto-Switching
	Lighting	2× Built-in Spotlights Motion Activiated, App-Controlled
	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 (2304 × 1296 px)
	Frame Rate	15 fps
	Digital Zoom	/
	Video Compression	H.264
	Live View	Yes

Video & Audio	Image Enhancement	3DNR WDR
	Audio Input & Output	Built-in Microphone and Speaker
	Audio Communication	Two-Way Audio with Noise Cancellation
	Siren Volume	97.2 dBA (Level measured at 10 cm distance) 68.2 dBA (Level measured at 300 cm distance)
Storage	Local Storage	microSD Card Slot on Camera (Up to 512 GB, Purchase Separately)
	Cloud Storage	Tapo Care Cloud Storage Services (Subscription required)
Detection & Notification	AI Detection	Motion 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, DHCP, ICMP, DNS, NTP, HTTPS, TCP, UDP

Security	Security	128-bit AES Encryption with SSL/TLS WPA/WPA2-PSK
Power	Power Source	Solar Panel, Built-in Rechargeable Lithium-ion Battery
	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	1.1 W
	Camera Maximum Power Consumption	3.2 W
General	Smart Integration	Google Assistant, Amazon Alexa
	Weather Resistance	IP65
	Mounting Options	Wall-Mounted Eave-Mounted Pole-Mounted (Pole-mounting loops are not included.)
	Operating Temperature	-20 ºC ~ 45 ºC (-4 °F ~ 113 °F)

General	Storage Temperature	-40 ºC ~ 60 ºC (-40 °F ~ 140 °F)
	Operating Humidity	10% ~ 90% RH, Non-condensing
	Storage Humidity	0 ~ 90% RH, Non-condensing
	Mounting Screw Size	
	Dimensions	Camera Dimensions: 141 x 128 x 84 mm (5.55 x 5.04 x 3.31 in.) Solar Panel Dimensions: 173.4 x 120.4 x 15.7 mm (6.83 x 4.74 x 0.618 in.)
	Weight	Camera: 15.13 oz / 429 g Solar Panel: 5.08 oz / 144 g
	Package Contents	Tapo Camera × 1 Tapo A201 Solar Panel × 1 Tapo A201 Solar Panel Bracket × 1 Base Cover × 1 USB Adapter Cable × 1 Extension Wire × 1 Cable Zip Tie × 1 Mounting Screws and Anchors Mounting Template Stickers Quick Start Guide

†microSD card purchased separately. Actual storage capacity depends on the size of the microSD card used.
‡Subscribe for cloud storage at https://www.tapo.com/tapocare/
§45 min of sunlight is based on standard environmental conditions (1000W/m^2, 25°C, AM1.5) and specified working scenes (up to 100 events triggered per day). Actual required time of sunlight may vary.
△200-day battery life is based on Tapo laboratory tests with 300s 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.
*Actual charging power may vary based on installation location, weather conditions, temperature, and other environmental factors.
**The suitable operating temperature for the Solar Panel is -20°C to 45°C. The battery charging temperature should be maintained between 0°C and 45°C.
Specifications are subject to change without notice. All brands and product names are trademarks or registered trademarks of their respective holders.
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