ComX Computers
Product Specification Sheet

NET-TL-TAPO-C645D-KI

Tapo C645D Solar-Powered Dual-Lens Pan/Tilt Security Camera Kit

Product Overview

Tapo C645D Solar-Powered Dual-Lens Pan/Tilt Security Camera Kit; 2K 3MP; 165.1 degree wide-angle view; 360 degree pan coverage; 120 degree tilt coverage; 10.8 x digital zoom; solar powered; rechargeable battery; AI person, pet and vehicle detection; colour night vision; microSD up to 512 GB; dual-band Wi-Fi; IP65; camera: 132 x 82 x 160mm











Specifications

About this product

The Tapo C645D KIT is a solar-powered dual-lens pan/tilt security camera with two 2K 3MP lenses, a 165 degree ultra-wide fixed view, 360 degree pan coverage, AI detection for people, pets and vehicles, smart tracking, colour night vision, two-way audio and IP65 weather resistance. The rechargeable battery and Tapo A201 solar panel provide convenient outdoor security with up to 120 days of battery life under specified test conditions. Buy the Tapo C645D KIT online for reliable home, business, driveway and outdoor property monitoring.

Overview Summary

Tapo C645D KIT Solar-Powered Dual-Lens Security Camera

The Tapo C645D KIT combines a fixed 2K ultra-wide lens with a 2K pan/tilt telephoto lens to provide broad area coverage and detailed monitoring from one camera. The wide-angle lens provides a 165.1 degree diagonal field of view, while the telephoto lens uses a 6mm focal length for closer views and supports up to 10.8 x digital zoom. The pan/tilt lens provides 360 degree horizontal coverage and 120 degree vertical coverage.

Designed for outdoor security, the camera uses AI detection to identify people, pets and vehicles and supports synchronized smart tracking. Colour night vision, infrared night vision, built-in spotlights, two-way audio and a built-in siren provide additional security features. The solar panel continuously recharges the built-in battery when suitable sunlight is available, while local microSD storage supports cards up to 512 GB.

Performance tier: Advanced outdoor security camera

Uses:home security, driveway monitoring, garden monitoring, entrance monitoring, property surveillance, business security, outdoor monitoring

Description

The Tapo C645D KIT is designed to provide comprehensive outdoor surveillance using two independent 2K camera lenses. The fixed wide-angle lens maintains a broad view of the monitored area, while the pan/tilt telephoto lens can follow activity and focus on areas that require closer inspection. This dual-lens design helps provide both wide situational awareness and detailed subject monitoring from a single camera installation.

Both camera views provide 2K 3MP resolution of 2304 x 1296 pixels at up to 15fps. The wide-angle lens has a 2.53mm focal length and a 165.1 degree diagonal field of view. The telephoto lens has a 6mm focal length and a 65.5 degree diagonal field of view. Digital zoom is supported up to 10.8 x, while image enhancement features include 3D DNR, BLC and WDR.

The pan/tilt lens provides 360 degree pan coverage and 120 degree tilt coverage. Synchronized smart tracking can use movement detected by the fixed camera to help the pan/tilt camera follow activity. One-tap smart focus can also be used to select an area from the wide-angle live view and direct the pan/tilt camera towards it.

Solar power is provided by the included Tapo A201 solar panel, which has a maximum charging power of 2.5W and a USB Type-C output. The camera uses a built-in rechargeable lithium-ion battery and is designed for long-term outdoor use. TP-Link states that one hour of sunlight can provide a full day of power under specified test conditions, while the battery can last up to 120 days under specified laboratory testing conditions.

For nighttime surveillance, the camera supports colour night vision and infrared night vision using an 850nm IR LED with a stated range of up to 10m. Six built-in spotlights provide additional illumination. The camera also includes a microphone and speaker for two-way audio with noise cancellation and a siren with a stated maximum level of 91.5 dB when measured at 10 cm.

AI detection supports people, pets and vehicles, along with motion detection and activity zones. Recordings can be stored locally using a microSD card of up to 512 GB, while Tapo Care cloud storage is also supported as a subscription service.

Dual-band Wi-Fi provides connectivity over 2.4GHz and 5GHz networks. With IP65 weather resistance and support for wall, ceiling and pole mounting, the Tapo C645D KIT is suited to a wide range of outdoor security applications.

Features

The Tapo C645D KIT combines wide-area surveillance, pan/tilt monitoring and solar charging in one outdoor security camera system.

- Dual 2K camera lenses: Provides two 2K 3MP views for broad coverage and detailed monitoring.
- 165 degree ultra-wide view: The fixed lens provides a 165.1 degree diagonal field of view for wide-area surveillance.
- Pan and tilt coverage: The telephoto lens provides 360 degree horizontal coverage and 120 degree vertical coverage.
- 6mm telephoto lens: Provides a narrower view for monitoring distant subjects and important details.
- 10.8 x digital zoom: Allows users to enlarge the live view for closer inspection.
- Synchronized smart tracking: The pan/tilt camera can automatically follow motion detected by the fixed camera.
- One-tap smart focus: Select an area in the wide-angle view to quickly direct the pan/tilt camera towards it.
- Solar powered operation: The included Tapo A201 solar panel provides up to 2.5W maximum charging power.
- Long battery runtime: The built-in rechargeable battery is specified for up to 120 days under stated laboratory test conditions.
- AI detection: Identifies people, pets and vehicles to help provide more relevant security notifications.
- Colour night vision: Provides colour video at night when sufficient illumination is available.
- Infrared night vision: Uses an 850nm IR LED with a stated range of up to 10m.
- Built-in spotlights: Six spotlights provide additional illumination and support night monitoring.
- Two-way audio: Built-in microphone and speaker support two-way communication with noise cancellation.
- Built-in siren: Provides an audible security alert with a stated maximum level of 91.5 dB at 10 cm.
- Local storage: Supports microSD cards up to 512 GB.
- Dual-band Wi-Fi: Supports 2.4GHz and 5GHz wireless connectivity.
- IP65 weather resistance: Designed for outdoor operation with resistance to dust and water.
- Smart home integration: Supports Google Assistant and Amazon Alexa.

Pan, Tilt, and Capture It All
The telephoto lens features automatic pan and tilt to follow motion or shift focus between areas. The wide-angle lens is fixed but can be manually adjusted 240degrees horizontally and 0degrees to 20degrees vertically.

Magnify Details with Telephoto Lens
The 6mm telephoto lens captures 4.9x more detail than the wide-angle lens and allows digital zoom of up to 10.8x, letting you see distant subjects more clearly.

Panoramic Coverage of Two Areas, Simultaneously
Monitor two separate areas at the same time with just one powerful camera. Reduce blind spots and get a more thorough, comprehensive overview of your home.

Synchronized Smart Tracking: Seamlessly Follows Movement
The two cameras work in perfect sync-once the fixed lens spots motion, people or pets, the pan/tilt lens locks on to track the subject, while the wide-angle fixed lens keeps watch over the entire scene so nothing else goes unnoticed.

Instant Detail with One-Tap Smart Focus
One tap for instant clarity: select an area in the wide-angle view, and the pan/tilt camera will focus on it instantly

Go Where Wires Can't
Place your camera where you need, not where the power outlet is. Install together or install separately to maximize the sun exposure.

1 Hour of Direct Sunlight
is all it takes to keep Tapo C645D charged each day-no more battery anxiety, just effortless solar power.

Up to 120 Days of Battery Life
with the built-in rechargeable battery, ensuring continuous protection even through long stretches of cloudy days.

24-Hour Protection
Capture all activity day and night, not just when motion is detected.

Farther Detection. Faster Alerts. No Missed Motion.
Detects movement up to 60 ft away. Longer range and smarter motion sensing means quicker alerts and no missed activity.

Smarter, More Accurate Notifications Powered by AI
Stay informed with smart AI detection that recognizes and notifies you of people, pets, and vehicles - all without any subscription fees. Tailor your alerts by selecting which types of detection will trigger notifications.

Versatile Night Vision Modes
Choose vivid full-color night vision with spotlights for detailed clarity, or switch to infrared for discreet, power-efficient monitoring-even in complete darkness.

360degrees All-Round Protection
Enhance your security with 360degrees horizontal and 120degrees vertical viewing range. Set the camera to scan scheduled 360degrees rotations and capture panoramic videos, or have it patrol key points at set times and record only when motion is detected.

Secure local storage
Supports up to 512GB local storage on microSD card (sold separately).

Tapo care cloud service
Receive notifications with detection snapshots, encrypted protection, data backups, and 30-day video clip history with Tapo Care cloud services‡.

Multi-camera management with homebase
Tapo H500 offers a convenient and centralized solution for viewing recorded video clips from your entire network of Tapo security cameras. Access and review footage from all your devices in one place for streamlined security management.

Customizable Privacy Zones
Take control of your privacy by defining customizable privacy zones. This feature allows you to block recording in designated areas within the camera's view, ensuring personal spaces and neighbor's yard remain unmonitored.

Customizable Activity Zones
Refine your alert system with custom activity zones. Define areas within the camera's view that you deem important, ensuring you only receive notifications when motion or events are detected within those designated zones.

Engineered for Weather Resilience
Delivers reliable surveillance through rain, snow, dust, and scorching heat. Monitor your property with confidence, no matter the weather.

Pair with Smart Assistants
Includes seamless integration with Amazon Alexa, Google Assistant, and Samsung SmartThings. View live streams on your Echo Show or Chromecast.

Two-Way Audio
Built-in premium microphone and speakers ensure you can hear and be heard with exceptional clarity.

What's in the Box

- Tapo C645D camera x1
- Tapo A201 solar panel x1
- Solar panel bracket x1
- Base cover x1
- USB adapter cable x1
- Extension wire x1
- Cable zip tie x1
- Mounting screws and anchors
- Mounting template stickers
- Quick Start Guide

Specifications

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Specifications	
Product Code	NET-TL-TAPO-C645D-KI
CAMERA	
Image Sensor	1/2.8" Progressive Scan CMOS Sensor
Lens	Lens_Wide Angle
	Focal Length: 2.53 mm
	Aperture: F1.6
	Field of View: 165.1degrees (Diagonal), 137.6degrees(Horizontal), 73degrees(Vertical)
	Lens_Telephone
	Focal Length: 6mm
	Aperture: F1.6
	Field of View: 65.5degrees (Diagonal), 56.5degrees(Horizontal), 30.6degrees(Vertical)
Night Vision	850 nm IR LED (33 ft / 10 m)
	Color Night Vision
Lighting	6x Built-in Spotlights
	Motion Activated, App-Controlled
	2x Alarm Lights
	1x Indicator LED
Interface & Button	1x POWER Button
	1x RESET Button
	1x MicroSD Card Slot (Up to 512 GB)

Pan/Tilt Range	Pan Mechanical Range: 334degrees (360degrees Pan Coverage)
	Tilt Mechanical Range: 90degrees (120degrees Tilt Coverage)
SOLAR PANEL	
Output	Solar Panel Max Charging Voltage: 5.2 V
	Solar Panel Max Charging Power: 2.5 W
Output Port	Type-C
VIDEO & AUDIO	
Maximum Resolution	Fixed Lens: 2K 3MP (2304 x 1296 px)
	Pan/Tilt Lens: 2K 3MP (2304 x 1296 px)
Frame Rate	15fps
Digital Zoom	10.8x
Live View	Yes
Image Enhancement	3D DNR
	BLC
	WDR
Audio Input & Output	Built-in Microphone and Speaker
Audio Communication	Two-Way Audio with Noise Cancellation
Siren Volume	91.5 dB (Level measured at 10 cm distance)
	64.4 dB (Level measured at 300 cm distance)
STORAGE	
Local Storage	MicroSD Card Slot on Camera (Up to 512 GB)
Cloud Storage	Tapo Care Cloud Storage Services (Subscription required)
DETECTION and NOTIFICATIONS	
Sensor	Three Motion Sensors
	Ambient Light Sensor
AI Detection	Motion Detection
	Person Detection
	Pet Detection
	Vehicle Detection
Activity Zones	Yes
Output Notification	App Notifications of Camera Event
	App Notification of AI Detection Event with Snapshot (Subscription Required)
NETWORK	
Network Connectivity	Connect via Wi-Fi
Wireless Connectivity	IEEE 802.11b/g/n, 2.4 GHz Wi-Fi
	IEEE 802.11a/n, 5GHz Wi-Fi
Ethernet Port	No

RTSP	No
ONVIF	No
SECURITY	
Security	128-bit AES Encryption with SSL/TLS
	WPA/WPA2-PSK/WPA3-PSK
POWER	
Power Source	10000 mAh Built-in Rechargeable Lithium-ion Battery
	Solar Panel: Tapo A201
Input Voltage	Camera Input Voltage: 5V (DC)
GENERAL	
Smart Integration	Google Assistant, Amazon Alexa
Weather Resistance	IP65
System Requirements	Tapo App: iOS 12.0 or higher, Android 7.0 or higher
Mounting Options	Ceiling-Mounted
	Wall-Mounted
	Pole-Mounted (Pole-Mounting loops required but not included)
Operating Temperature	-20degreesC to 45degreesC (-4degreesF to 113degreesF)
Storage Temperature	-40degreesC to 60degreesC (-40degreesF to 140degreesF)
Operating Humidity	10%~90% RH, Non-condensing
Storage Humidity	0%~90% RH, Non-condensing
Charging Temperature	0degreesC to 45degreesC (32degreesF to 113degreesF)
Dimensions (W x D x H)	Camera Dimensions: 5.19 x 3.22 x 6.31 in (132 x 82 x 160 mm)
	Solar Panel Dimensions: 6.82 x 4.74 x 0.61 in (173 x 120 x 15.5 mm)
Package Content	Tapo C645D Camera x1
	Tapo A201 Solar Panel x1
	Solar Panel Bracket x1
	Base Cover x1
	USB Adapter Cable x1
	Extension Wire x1
	Cable Zip Tie x1
	Mounting Screws and Anchors
	Mounting Template Stickers
	Quick Start Guide
Certifications	FCC, WWA, NCC, BSMI, DOE, CEC, IP65, RoHS

FAQ

What is the Tapo C645D KIT?

The Tapo C645D KIT is a solar-powered outdoor security camera with two 2K 3MP lenses, combining a fixed ultra-wide lens with a pan/tilt telephoto lens.

Does the Tapo C645D have two cameras?

The Tapo C645D uses two camera lenses in one security camera unit. The fixed wide-angle lens provides broad coverage while the pan/tilt telephoto lens provides closer monitoring and tracking.

What resolution does the Tapo C645D support?

Both the fixed lens and pan/tilt lens support 2K 3MP resolution of 2304 x 1296 pixels at up to 15fps.

Is the Tapo C645D solar powered?

Yes. The kit includes a Tapo A201 solar panel with a maximum charging power of 2.5W and a built-in rechargeable lithium-ion battery.

How long can the Tapo C645D battery last?

The battery is specified for up to 120 days under the manufacturer's stated laboratory test conditions. Actual runtime varies according to settings, usage and environmental conditions.

Does the Tapo C645D have night vision?

Yes. It supports colour night vision and infrared night vision using an 850nm IR LED with a stated range of up to 10m.

Can the Tapo C645D detect people, pets and vehicles?

Yes. The camera supports AI detection for people, pets and vehicles as well as general motion detection.

Does the Tapo C645D support two-way audio?

Yes. The built-in microphone and speaker provide two-way audio with noise cancellation.

What storage does the Tapo C645D support?

The camera has a microSD card slot supporting cards up to 512 GB. Tapo Care cloud storage is also supported as a subscription service.

Does the Tapo C645D support 5GHz Wi-Fi?

Yes. The camera supports both 2.4GHz and 5GHz Wi-Fi connectivity.

Is the Tapo C645D suitable for outdoor use?

Yes. The camera has an IP65 weather resistance rating and is specified for operating temperatures from -20 to 45 degrees C.

Can the Tapo C645D be controlled from a smartphone?

Yes. The camera is managed through the Tapo App, with support for iOS 12.0 or higher and Android 7.0 or higher.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/NET-TL-TAPO-C645D-KI-Tapo-C645D-Solar-Powered-Dual-Lens-Pan-Tilt-Security-Camera-p-340377.php

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