Datasheet

Pan/Tilt AI Home Security Wi-Fi Camera

Overview

· AI Auto-Zoom Tracking: Automatically tracks and zooms in on distant people and pets to capture every detail.

· 4K 8MP Crystal-Clear[Δ]: Supports 18× digital zoom for superior clarity. See more. See clearer. Stay secure

· Night Vision up to 40 ft: Provides a visual distance of up to 40 ft in total darkness.

· Local microSD Storage[†]: Store up to 512 GB of video on a microSD card.

[†]microSD card purchased separately. Actual storage capacity depends on the size of the microSD card used.

· Field of View: 360º horizontal range.

· Two-Way Audio: Communicate in real time through a built-in microphone and speaker.

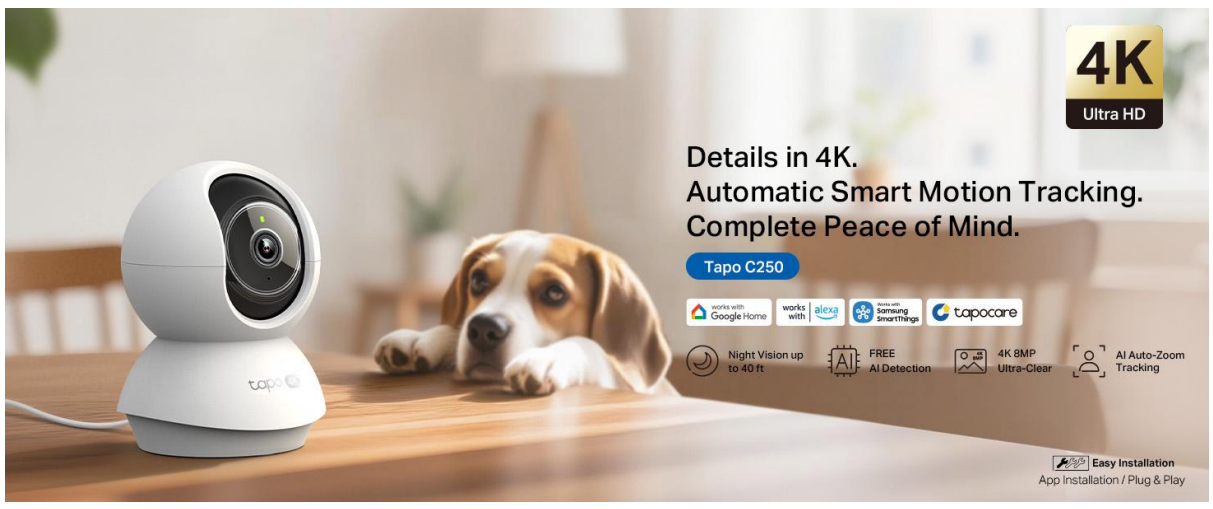
[†]microSD card purchased separately. Actual storage capacity depends on the size of the microSD card used.

· Customizable Block Zones: Set customizable block zones to keep private areas from being monitored.

· Cloud Storage Supported[‡]: Store videos by using cloud storage services.

[‡]Subscribe for cloud storage at https://www.tapo.com/tapocare/

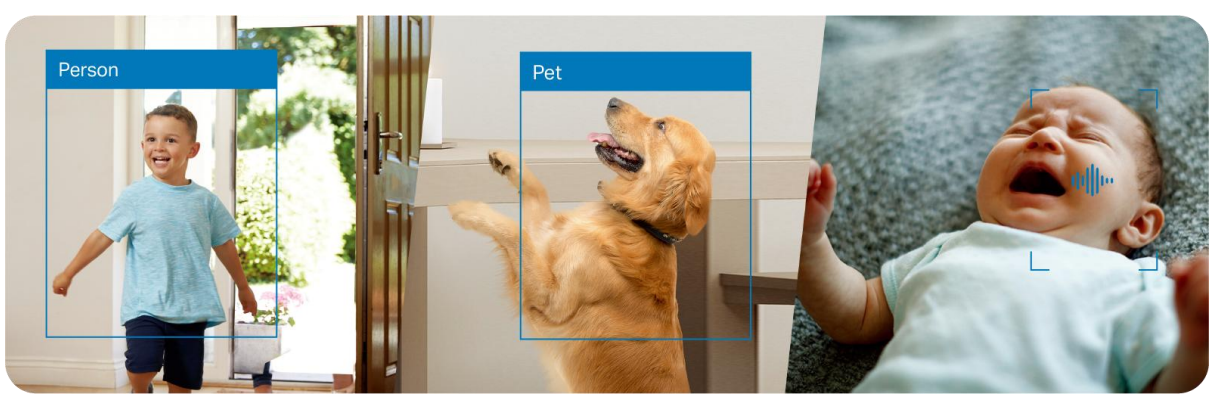
· Activity Zones: Set up your own activity zones to only receive alerts that matter.



Highlights

Smart AI Detection and Notification

Smart AI identifies people, pets, and vehicles while also recognizing abnormal sounds, notifying you as needed.



Features

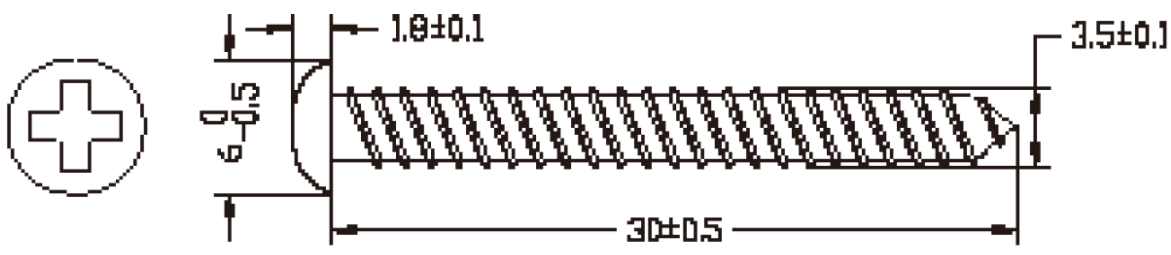
	AI Auto-Zoom Tracking Automatically tracks and zooms in on distant people and pets to capture every detail.		**4K 8MP Crystal-Clear:** Supports 18× digital zoom for superior clarity. See more. See clearer. Stay secure
	Night Vision up to 40 ft Provides a visual distance of up to 40 ft in total darkness.		**Local and Cloud Storage** Store footage on a microSD (up to 512 GB) without a subscription, or opt for cloud storage with a 30-day free trial.
	Field of View 360º horizontal range.		**Activity Zones** Set up your own activity zones to only receive alerts that matter
	Customizable Block Zones Set customizable block zones to keep private areas from being monitored		**Two-Way Audio** Talk and listen through the device with its integrated microphone and speaker.

Specifications

Storage

Camera	
Image Sensor	1/2.7” CMOS Sensor
Lens	Focal Length: 4mm Aperture: F1.6 Field of View: 105.4° (Diagonal), 88° (Horizontal), 46° (Vertical)
Pan-Tilt Range	Pan Mechanical Range: 340° (360° Pan Coverage) Tilt Mechanical Range: 70° (116° Tilt Coverage)
Night Vision	Infrared Night Vision (40 ft/12 m)
Night Mode	Infrared Mode
Day/Night Switch	YES
Lighting	2× 850nm IR LED
Interface & Button	1× RESET Button 1× microSD Card Slot (Up to 512 GB)

Video & Audio	
Maximum Resolution	4K 8MP (3840 × 2160 px)
Frame Rate	20 fps
Digital Zoom	18.0×
Live View	Yes
Image Enhancement	WDR
Audio Input & Output	Built-in Microphone and Speaker
Audio Communication	Two-Way Audio with Noise Cancellation
Siren Volume	96 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	NA
AI Detection	Motion Detection Person Detection Pet Detection Vehicle Detection Line-Crossing Detection Camera Tampering Baby Crying Detection Abnormal Sound Detection(glass breaking, cats meow, dogs bark)
Activity Zones	Yes *Only works with Motion/Person/Pet/Vehicle Detection.
Alarm Type	Manually Siren via APP Control Customizable Sound Alarm Sound Alarm Light Alarm

Output Notification	App Notifications of Camera Event App Notification of AI Detection Event with Snapshot (Subscription Required) App Notifications of Camera Offline
Network	
Network Connectivity	Connect via Wi-Fi
Wireless Connectivity	IEEE 802.11b/g/n, 2.4 GHz Wi-Fi
Wireless Communication Technology	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	Local AI Detection 128-bit AES Encryption with SSL/TLS WPA/WPA2-PSK/WPA3-PSK
Power	
Power Source	9V/0.85A DC Power Adapter
Input Voltage	9V, 0.85A, DC jack Power
Output Voltage	N/A
Power Connector Size	DC Jack Inside Ø: 2.1 mm Outside Ø: 5.5 mm
Power Cord Length	3.0 m
Typical Power Consumption	3 W

Maximum Power Consumption	7 W
General	
Certifications	CE, FCC, JRF,, NCC, BSMI、VCCI
Smart Integration	Google Assistant, Amazon Alexa, IFTTT, Samsung SmartThings
Weather Resistance	NA
Mounting Options	Tabletop, Ceiling-Mounted, Wall-Mounted
Operating Temperature	0°C~40°C (32°F~104°F)
Storage Temperature	-40°C~60°C (-104°F~140°F)
Operating Humidity	10%~90% RH, Non-condensing
Storage Humidity	0~90% RH, Non-condensing
Charging Temperature	N/A
Weight	Camera Weight: 6.60 oz / 187 g Gross weight of a single product (including power supply/power cable): 8.68 oz / 246 g
Dimensions	85.4*86.8*117.2mm(Without foot pads) 85.4*86.8*117.7mm(With foot pads)
Package Contents	Tapo C250 Camera × 1 Power Adapter × 1 Mounting Anchors× 2 Mounting Screws × 2 Mounting Template Sticker × 1 Camera Base × 1 Quick Start Guide
Mounting Screw Size