Solar-Powered Floodlight Pan/Tilt Security Camera Kit

TC50 KIT

2K Resolution

works with **alexa**

works with **Google Home**

Wire-Free Easy Installation with Smart Lighting

| 800-Lumen Dimmable Floodlight | Solar Charging, Maintenance-Free | Free Person/Pet/ Vehicle Detection | 360° AI Tracking | Color Night Vision |

// Highlights

Go Where Wires Can't with Smart Lighting

Enhance your security with customizable 800-lumen floodlight while not being limited to power outlet placement. Monitor your property day and night.

// Highlights

All-in-One Floodlight and Camera

The compact camera kit features an 800-lumen floodlight that illuminates your property, keeping your space bright and your neighbors undisturbed.

Dimmable Floodlight Control
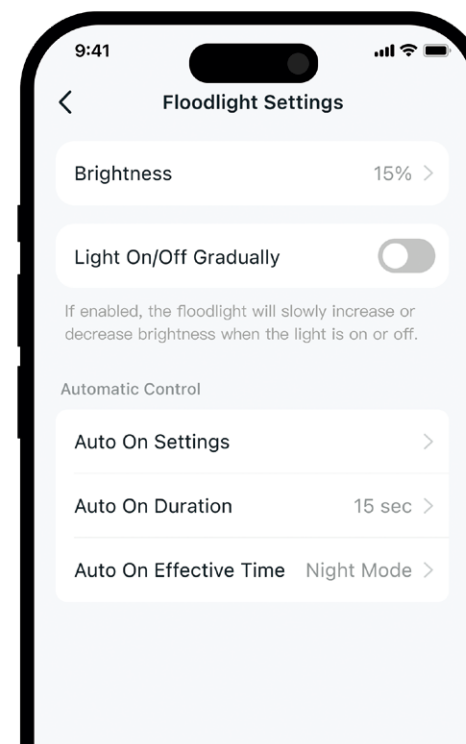
Set the brightness according to your needs.

Activate with Motion

Activate the floodlight with motion or just control it manually.

Install with Adjustable Angle

Adjust the angle of the floodlight to light up your monitoring area.

9:41

Floodlight Settings

Brightness   15% >

Light On/Off Gradually

If enabled, the floodlight will slowly increase or decrease brightness when the light is on or off.

Automatic Control

Auto On Settings   >

Auto On Duration   15 sec >

Auto On Effective Time   Night Mode >

*The app screen shown is for reference only and may differ from the actual final experience.

// Features

Free Person/Pet/Vehicle Detection
The camera identifies people, pets and vehicles while only sending your alerts when truly needed.

High-Efficiency Solar Charging
Just 45 minutes of direct sunlight* powers the camera for full-day use.

Customizable Sound and Light Alarm
Record custom audio for alarms and adjust the brightness of the floodlight to suit your needs.

Smart Playback
Swiftly find and download moments of interest by choosing the event type or sliding the timeline.

Two-Way Audio
Talk and listen through the device with its integrated microphone and speaker.

360° AI Tracking
The camera provides 360° coverage and tracks people, pets, and vehicles automatically.

Patrol Mode
Assign points for the camera to patrol for dynamic monitoring.

Local and Cloud Storage
Store footage on a microSD card (up to 512 GB)† with no subscription required, or opt for cloud storage‡ with a 30-day free trial for added convenience.

Privacy Lock
Secure your microSD card with a password through the Tapo app for enhanced privacy protection.

†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/m², 25°C, AM1.5) and specified working scenes (up to 100 events triggered per day). Actual required time of sunlight may vary.
**Actual charging power may vary based on installation location, weather conditions, temperature, and other environmental factors.
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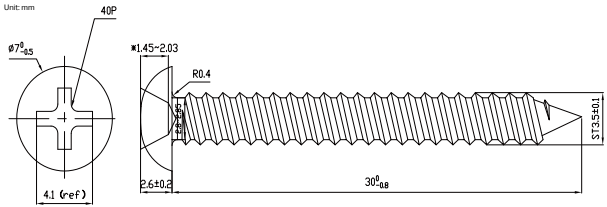
Specifications

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)
	Pan-Tilt Range	Pan Mechanical Range: 338° (360° Pan Coverage) Tilt Mechanical Range: 97° (141° Tilt Coverage)
	Night Vision	2× 850 nm IR LEDs (32.8 ft / 10 m) Color Night Vision
	Day/Night Switch	IR-Cut Filter with Auto-Switching
	Lighting	2× Built-in Spotlights 1× Floodlight (Brightness: 800 Lumens) Motion Activated, 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 3MP (2304 × 1296 px)
	Frame Rate	15/20 fps
	Digital Zoom	10.8×

Video & Audio	Video Compression	H.264
	Live View	Yes
	Image Enhancement	3DNR
	Audio Input & Output	Built-in Microphone and Speaker
	Audio Communication	Two-Way Audio with Noise Cancellation
	Siren Volume	91.5 dBA (Level measured at 10 cm distance) 75 dBA (Level measured at 3 m 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 Vehicle Detection Pet Detection
	Activity Zones	Yes
	Output Notification	System Notification System Notification with Snapshot (Tapo Care Services) System Notification with Clip (Tapo Care Services)
Network	Network Connectivity	Connect via Wi-Fi
	Wireless Connectivity	IEEE 802.11b/g/n, 2.4 GHz Wi-Fi

Network	Transmission Rate	11b: 11 Mbps 11g: 54 Mbps 11n: 72.2 Mbps
	Protocol	TCP/IP, DHCP, ICMP, DNS, NTP, HTTPS, TCP, UDP
Security	Security	PWPA/WPA2-PSK WPA3-PSK
Power	Power Source	Built-in Rechargeable Lithium-ion Battery Solar Panel: Tapo A201(included)
	Solar Panel Max Charging Voltage	5.2 V
	Solar Panel Max Charging Power	2.5 W**
	Input Voltage	5 V, DC
	Power Cord Length	USB Charging Cable Length: 0.5 m (19.68 in.) Solar Panel Extension Charging Cable Length: 3.8 m (149.61 in.)
	Camera Typical Power Consumption	1.04 W
	Camera Maximum Power Consumption	11.28 W
General	Smart Integration	Google Assistant, Amazon Alexa
	Weather Resistance	IP65

General		
	Mounting Options	Wall-Mounted/Eave-Mounted/ Pole-Mounted (Pole-Mounting loops required but not included)
	Operating Temperature	-20 ºC ~ 45 ºC (-4 °F ~ 113 °F)
	Charging Temperature	0 ºC ~ 45 ºC (32 °F ~ 113 °F)
	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: 132.86×82×161.1 mm (5.23 x 3.22 x 6.34 in.) Solar Panel Dimensions: 173.42×120.42×15.7 mm (6.82 x 4.74 x 0.61 in.)
	Weight	Camera: 24.06 oz / 682 g Solar Panel: 5.08 oz / 144 g
	Package Contents	TC50 Camera × 1 Tapo A201 Solar Panel × 1 Tapo A201 Solar Panel Bracket × 1 Base Cover × 1 USB Charging Cable × 1 Solar Extension Cable × 1 Mounting Template Stickers × 2 Mounting Screws and Anchors Quick Start Guide