

Outdoor Pan/Tilt Security Wi-Fi Camera

2K
QHD

Tapo C520WS

 Starlight Color Night Vision

Person/Pet/
Vehicle Detection

Smart Motion
Tracking

Local microSD Storage
(Up to 512 GB)*



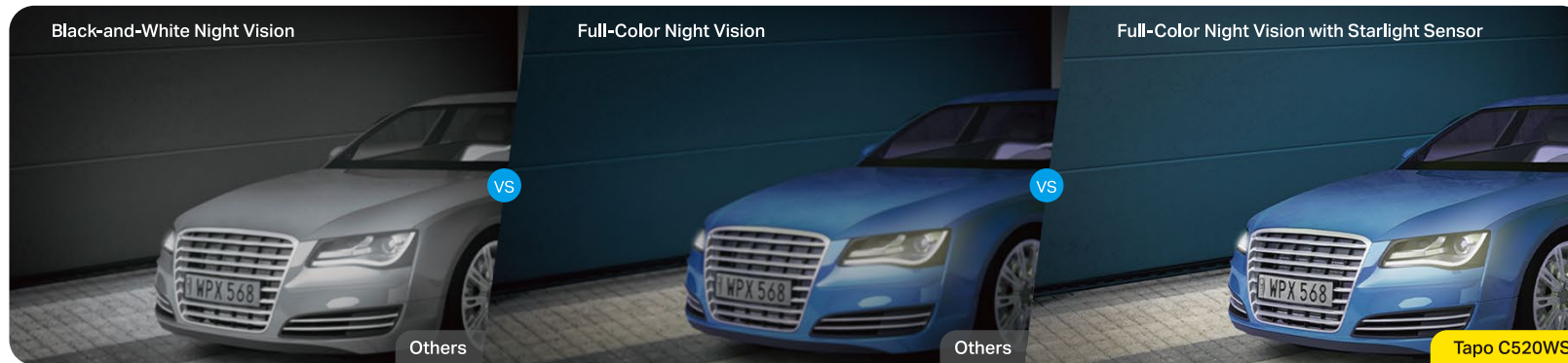
works with | **amazon alexa**

works with
Google Home

// Highlights

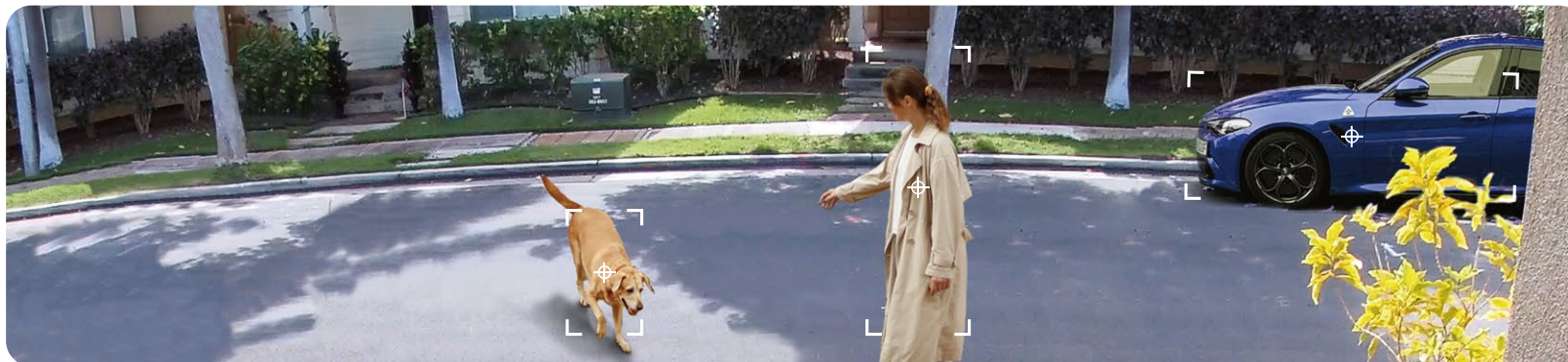
2K QHD, Starlight Color Night Vision

Equipped with an F1.6 large-aperture lens and starlight sensor, Tapo C520WS enhances your security by revealing highly-detailed and bright-color images even under low-light conditions.



Person/Pet/Vehicle Detection and Notification

Smart AI identifies people, pets, and vehicles, notifying users as needed.



// Features

360° Visual Coverage

Provides 360° horizontal & 130° vertical view (180° vertical view in Privacy Mode) range to capture everything around.

IP66 Weatherproof

Offers excellent waterproof and dustproof performance for outdoor scenarios.

Local[†] and Cloud[‡] Storage

Save recorded videos to an installed microSD card (up to 512 GB), or use Tapo Care cloud storage service.

Multiple Installation Options

Use the mounting screws, template and loops[‡] to install on any wall, ceiling or pole for the perfect view—wherever you want.

Two-Way Audio

Enables communication through a built-in microphone and speaker.

Dual Powerful Antennas

Two external antennas ensure a powerful and stable wireless connection.

Wired/Wireless Networking

Connect the camera to your network through Ethernet or Wi-Fi for more flexible installation.

Customizable Sound and Light Alarm

Records your customized audio as an alarm to extend your usage. Set to trigger a light/sound alarm when detecting activity.

[†]microSD card needs to be purchased separately.

[‡]Tapo Care needs to be subscribed separately.

For more information, please visit <https://www.tapo.com/>

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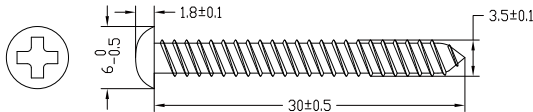
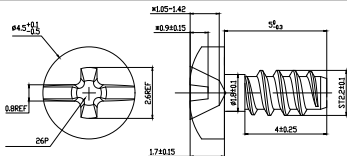
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// Specifications

Camera	Image Sensor	1/3" Progressive Scan CMOS Starlight Sensor
	Lens	Focal Length: 3.2 mm Aperture: F1.6 Field of View: 112° (Diagonal), 95° (Horizontal), 53° (Vertical)
	Night Vision	850 nm IR LED (98 ft / 29.9 m) Full-Color Night Vision
	Day/Night Switch	IR-Cut Filter with Auto-Switching
	Lighting	2× Built-in Spotlights
	Interface & Button	1× Ethernet Port 1× RESET Button 1× microSD Card Slot (Up to 512 GB)
	Hub Compatibility	/
Video & Audio	Maximum Resolution	2K QHD 4MP (2560 × 1440 px)
	Frame Rate	15/20/25/30 fps (Default 15fps)
	Digital Zoom	12x
	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	93 dB (Level measured at 4-inch/10-cm distance)
Storage	Local Storage	microSD Card Slot on Camera (Up to 512 GB)
	Cloud Storage	Tapo Care Cloud Storage Services (Subscription required)
Detection & Notification	Sensor	/
	AI Detection	Motion Detection Person Detection Pet Detection Vehicle Detection Line-Crossing Detection Camera Tampering
	Activity Zones	Yes *Only works with Motion Detection.
	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: 144.4 Mbps
	Protocol	TCP/IP, DHCP, ICMP, DNS, NTP, HTTPS, TCP, UDP
	Max. Distance Between Hub and Camera/Doorbell	/
	Ethernet Port	1× 10/100 Mbps RJ45 Port on Camera
	RTSP	Yes
	ONVIF	Yes
Security	Security	On-Device Machine Learning 128-bit AES Encryption with SSL/TLS WPA/WPA2-PSK/WPA3
Power	Power Source	9V DC Power Adapter
	Input Voltage	100-240 V, 50/60 Hz
	Output Voltage	9 V, 0.85 A (DC Power)
	DC Power Connector Size	Inside Ø: 2.1 mm Outside Ø: 5.5 mm
	Power Cord Length	3 m

Power	Typical Power Consumption	3.75 W
	Maximum Power Consumption	7.65 W
General	Certifications	CE, FCC, RoHS, RCM
	Smart Integration	Google Assistant, Amazon Alexa
	Weather Resistance	IP66
	System Requirements	Tapo App: iOS 9.0 or higher, Andriod 4.4 or higher
	Mounting Options	Ceiling-Mounted Wall-Mounted Pole-Mounted (Pole-Mounting loops required but not included)
	Operating Temperature	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
	Storage Temperature	-40 °C ~ 60 °C (-40 °F ~ 140 °F)
	Operating Humidity	10% ~ 90% RH, Non-condensing
	Storage Humidity	0 ~ 90% RH, Non-condensing
	Charging Temperature	\
	Mounting Screw Size	
	SD Card Slot Cover Screw Size	

General	Dimensions	4.9 × 4.8 × 3.5 in (123.8 × 123 × 90 mm)
	Weight	14 oz / 396.84 g
	Package Contents	Tapo C520WS Camera Power Adapter Mounting Anchors Mounting Screws Bracket Screws Mounting Template Mounting Bracket Waterproof Seal Waterproof Cable Attachments Quick Start Guide