HB90 Dual Kit 2K+ & 2K+

Dual-Lens All-Day Recording Wi-Fi Camera + Solar Panel 8W

Incredible protection, always in action

The innovative HB90 Dual Kit takes a leap forward to solve the battery anxiety and installation constraints by using solar power while cleverly balancing high security requirements and power consumption with EZVIZ's groundbreaking AOV technology. It's also an exciting addition to EZVIZ's Dual-Lens camera series, where homeowners can trust its performance to secure two areas at once and rely on it to detect, track and record important activities.

2K+ & 2K+ Dual Lenses	Always-On Video Mode 2.0	Dual Rotations for Ultra-Flexible Vision	8W High-Efficiency Solar Panel Included[1]
10,400 mAh Rechargeable Lithium Battery	AI-Powered Human / Vehicle Shape Detection	Co-Detection for Auto Smart Tracking	One-Tap Control for Linked View Change
Color Night Vision	Active Defense with Siren & Strobe Light	Two-Way Talk	Supports Wi-Fi 6 Network (2.4 GHz)
Weatherproof Design	Smart Integration with Google Assistant & Amazon Alexa[2]	Supports MicroSD Card (Up to 512 GB) & EZVIZ CloudPlay Storage[3]	

Smart robotic power doubled in one

Equipped with the EZVIZ's dual-lens technology, the HB90 Dual uses three motors to ensure both cameras can smoothly swirl to reduce blind spots as much as possible.

Triple Motors to Change Scenes Easily

10°
Manual Tilt

220°
Remote Pan

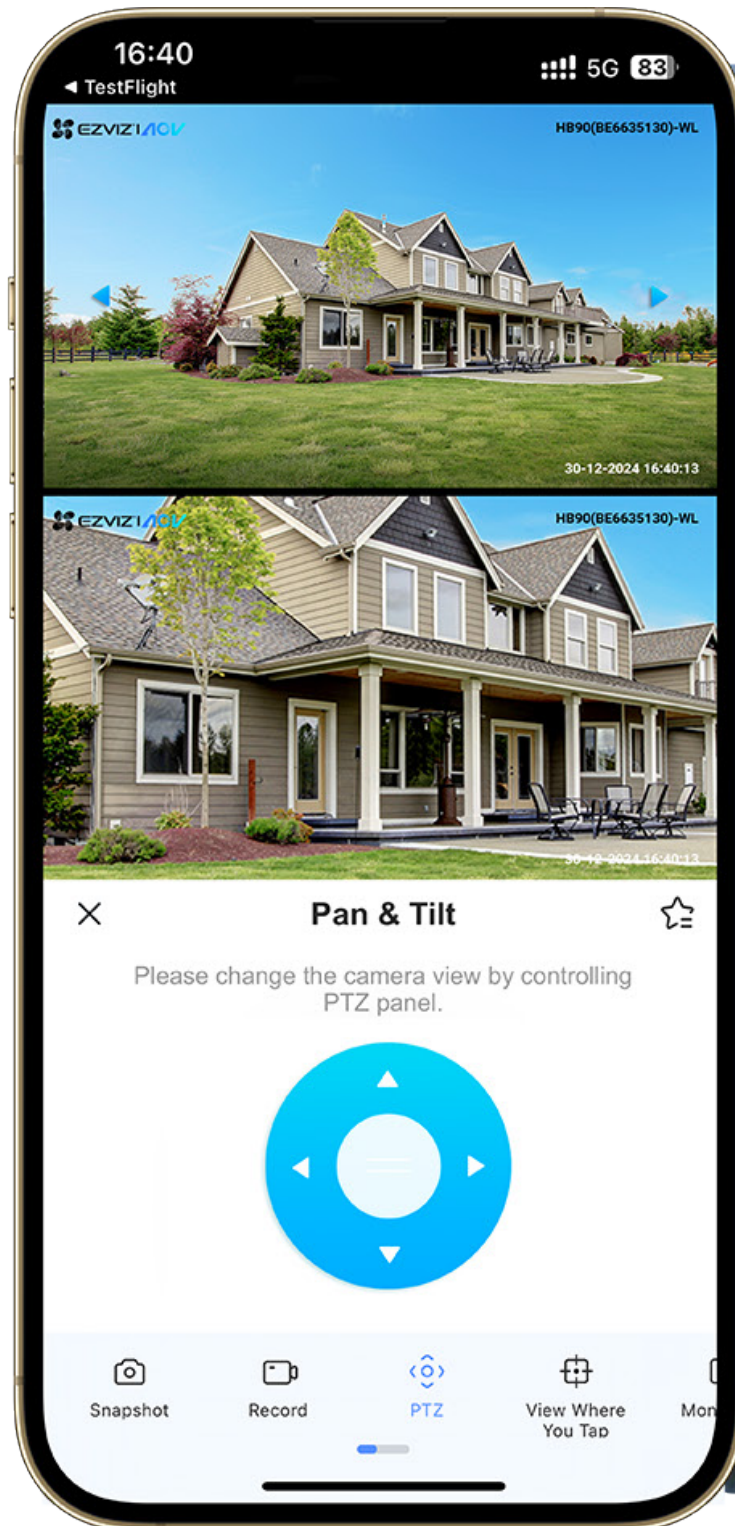**Ultra**

324°
Remote Pan

90°
Remote Tilt

Flexible

Tap to control, separately or smartly together

Whenever you want to start a manual patrol, set up new viewing angles, or want some specific close-up details when viewing the big picture, just make few taps on the EZVIZ App to control the dual lenses.

See everything that matters, from every angle to every detail

Equipped with two lenses in sharp 2K$^+$ resolution, the HB90 Dual can capture wide-angle views and detailed shots with only one device. Now you no longer have to make a difficult choice between monitoring your entrance or backyard – the two lenses can turn to different perspectives at the same time.

Wide-angle View

Close-up View

Entrance View

Pathway View

F/2.8mm Wide-angle View

4×

F/6mm Close-up View

8×

F/6mm Digital Zoom

Click to check, with both wide and close-up views

Understand the whole, big picture while paying attention to the important details, by using the EZVIZ App. You can tap the area of interest on the wide-angle viewing box, so a close-up view will be shown on the side at the same time.

Co-action technology ready for a complex activity

Unlike most dual-lens cameras in the market that only stitch the views of two lenses, the HB90 Dual is smart enough to complete a complicated detection activity by involving two lenses at the same time.

Step 1

The top lens detects a moving person in its view

Step 2

The bottom lens rotates and follows the moving person

PT lens

PT lens

PT lens

Wide lens

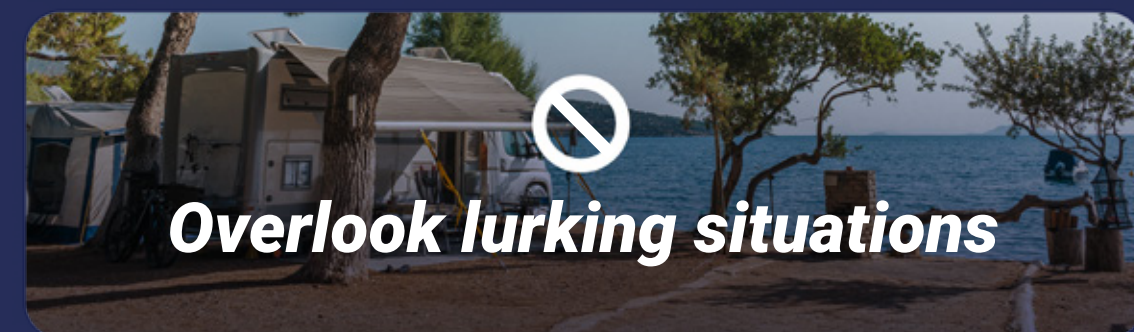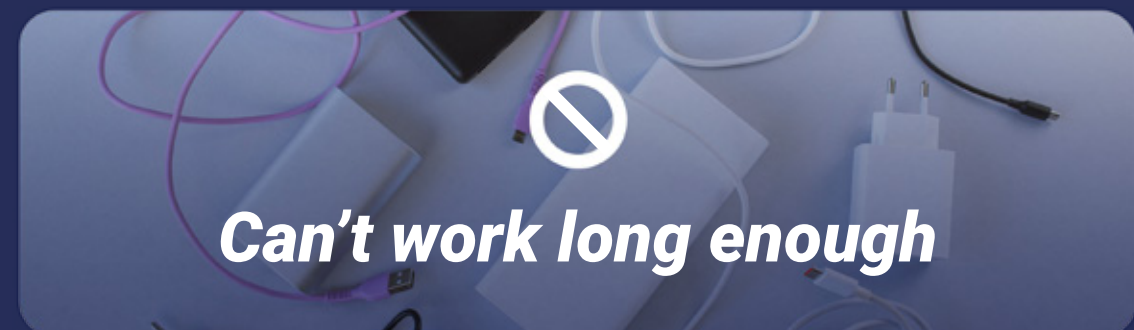# Time for battery-powered all-day recording

Unlike most battery cameras on the market, which have trouble detecting and recording videos due to short battery life and non-smart sensors, the camera is equipped with EZVIZ's groundbreaking AOV technology to enable all-day recording while ensuring a long standby time with a much greater detection distance.

About the EZVIZ AOV Technology >

AOV

24/7 EZVIZ PROTECTION

VS

Most battery cameras in the market

Miss vital moments

Can't work long enough
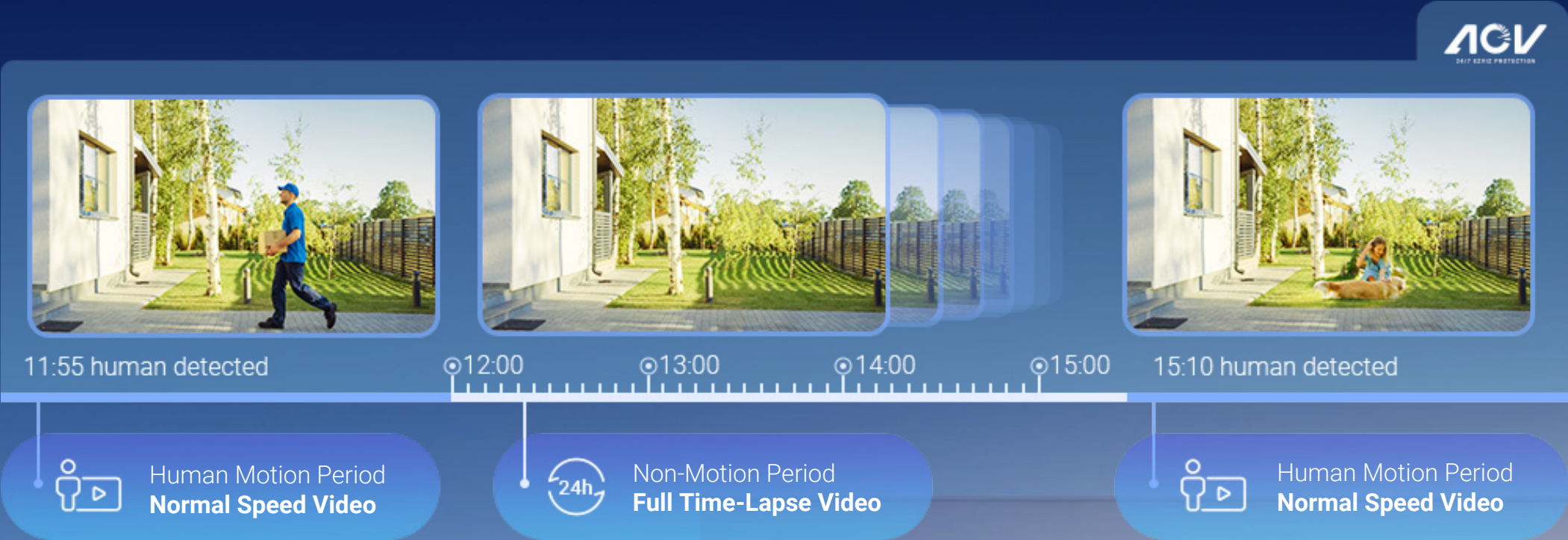
Overlook lurking situations

01 Always records, scenes or events

When on the AOV mode, the HB90 Dual can capture images at preset time intervals and process them to create a smooth time-lapse video[4] showing the changes over time, even when there is no activity. Once detecting an activity, the camera will switch to normal-speed videos to provide more information. You can now obtain all-day recording on a battery-powered camera without having to plug it into a power outlet.

Now upgraded to AOV 2.0

- Wiser Battery Consumption for All-Day Recordings
- Down to 1-Second Ultra-Short Time Interval

AOV

11:55 human detected ⊙12:00 ⊙13:00 ⊙14:00 ⊙15:00 15:10 human detected

Human Motion Period
Normal Speed Video

Non-Motion Period
Full Time-Lapse Video

Human Motion Period
Normal Speed Video

02 Always protects, far or near

Unlike other battery cameras that heavily rely on PIR sensors to capture only nearby activities, this camera can detect an approaching person or vehicle at a much greater distance. If a person or vehicle appears, it will immediately notice that and inform you straight away.

EZVIZ
AI Human Detection Alarm
(2024-10-11 10:52:22)
Now

AOV
24/7 EZVIZ PROTECTION
EZVIZ battery cameras
with all-day recording

Standard
Other battery cameras
only with PIR sensor

12-25 meters[5]

9 meters

Non-stop solar power, set-and-forget[6]

The HB90 Dual is serious about getting hassle-free. Install its included solar panel at a sunny spot, and connect it to the camera, so the system will take free, green energy to keep the watch around the clock, all by itself.[1] With just two hours of direct sunlight each day, you can enjoy uninterrupted monitoring near your premises.

8W
High Charging Efficiency

2 hours ≈ **24 hours**

10,400 mAh
Large Battery Capacity

Smarter alerts on the comes and goes

In addition to capturing human activities with a wealth of information, the HB90 Dual recognizes the shape of a car from other moving objects. If your family member pulls up in front of your driveway or someone parks in your detected area, you will be notified immediately.

AI-Powered Human / Vehicle Shape Detection

Customizable Detection Zone

FREE No Subscription Fee

Night is now bright and colorful

Blurred and pixelated night vision is now a thing of the past. The improved lens with the large F1.2 aperture captures more light and thus enables long-range color night vision of up to 35 meters.[7] What's better, you can choose between the color mode or the infrared mode as you'd like.

2 Spotlights | Full-Color Night Vision

2 IR Lights | Black & White Night Vision

Faster connections, boosted coverage

Being Wi-Fi 6-enabled means that the HB90 Dual is far less likely to face network challenges when operating outside your house. In addition to enhanced Wi-Fi connection stability, you can enjoy smoother dual 2K$^+$ video streaming and faster camera response when controlling it remotely.
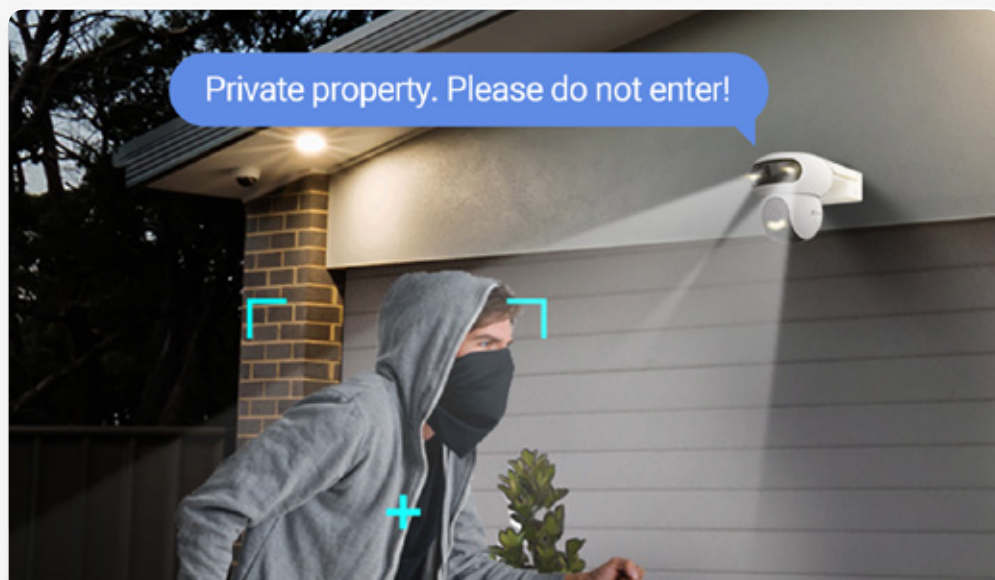
Low-Latency 2K$^+$ Streaming
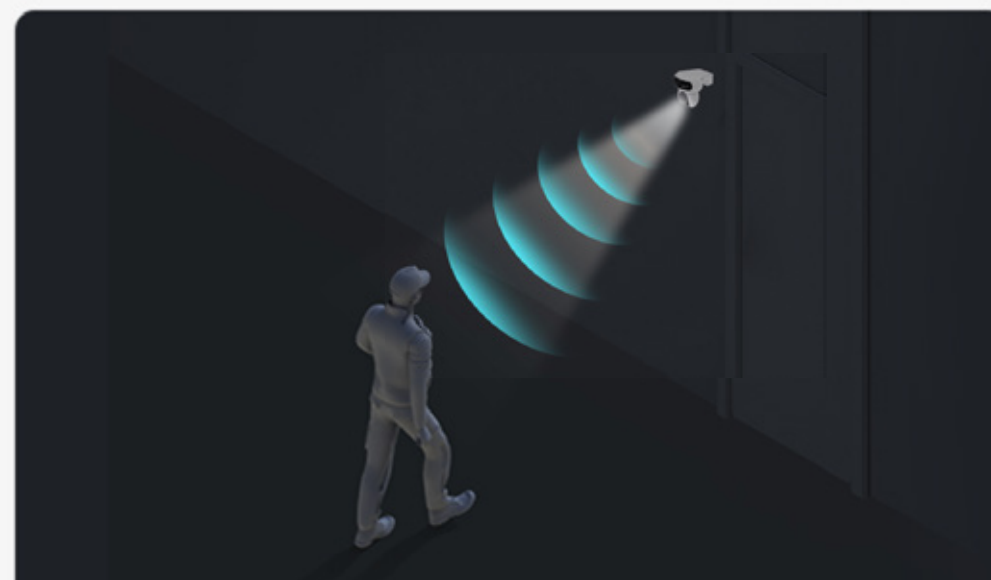
Extended Range & Coverage

Enhanced Connectivity

No Hub Required

Respond with high-quality audio

Easily respond to any visitor by simply using your phone to speak remotely. The HB90 Dual can also auto-play a recorded voice message when a motion is detected.
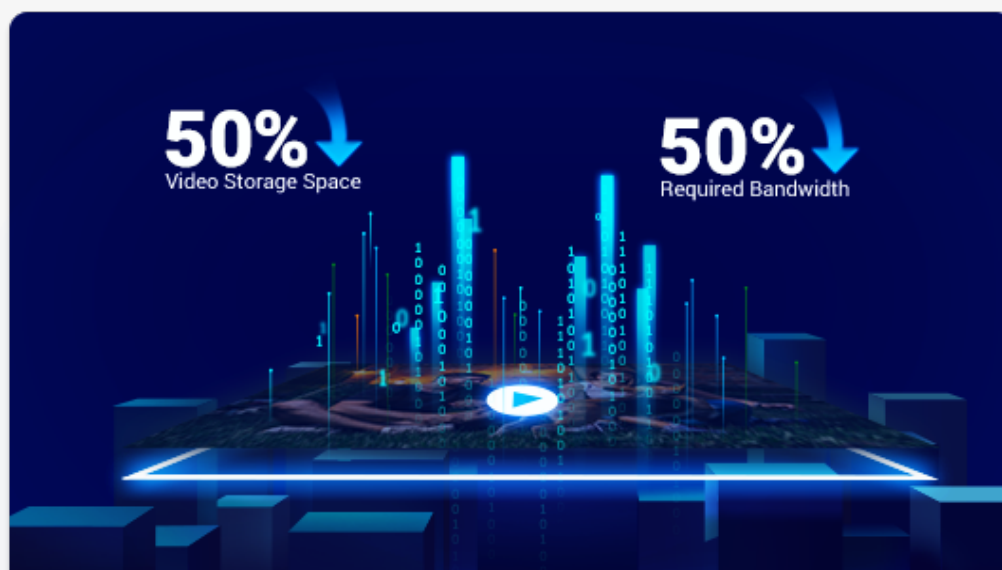

Use active defense to defer

Upon detection of intruders, the camera will set off a loud siren and flash two dazzling spotlights to let the uninvited strangers know they have been detected.
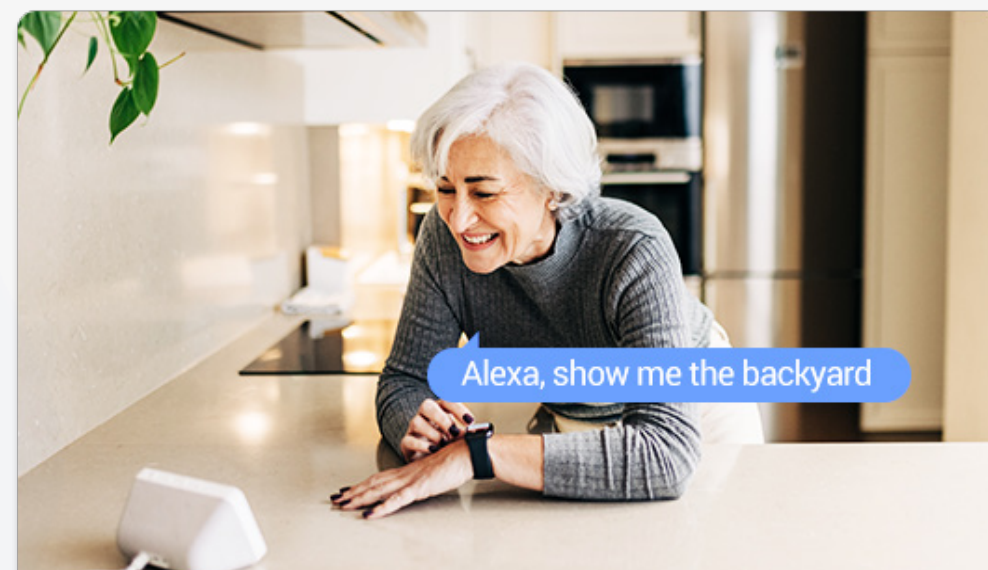

Deliver protection, rain or shine

With a robust weatherproof design, the HB90 Dual Kit ensures continuous operation, making it your reliable partner in all weather scenarios.

Enhance video experience with H.265

The H.265 creates a smoother viewing experience while only using about 50% of the data storage space required by cameras with H.264.[8]

Control with your voice, hands-free

The camera can integrate with your existing voice assistants. You can pull up the video feed by simply saying "Alexa" or "Hey Google".[2]
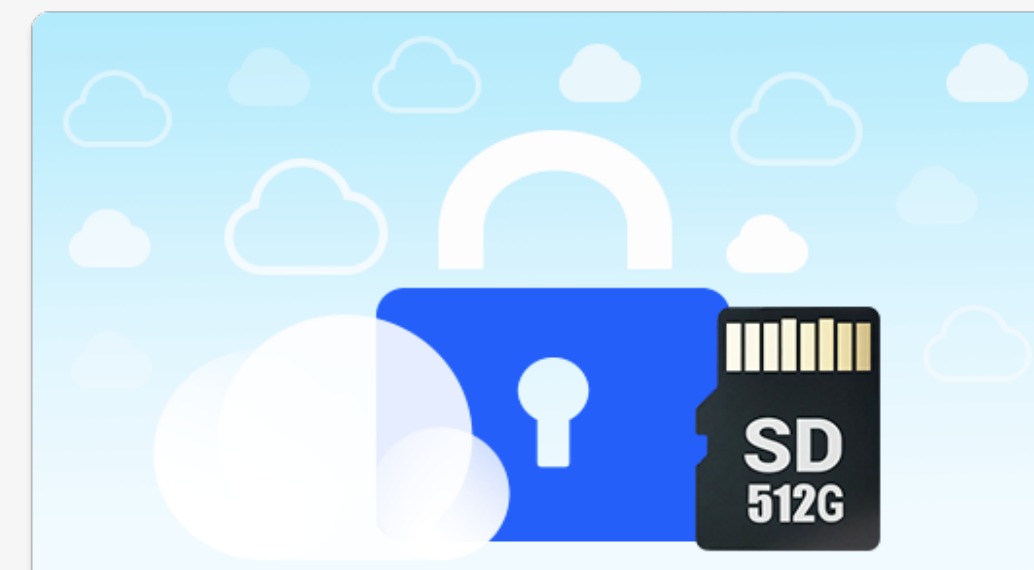
Save your videos with two options

Safely store important moments or cute memories on a large local storage card, or by subscribing to the EZVIZ CloudPlay.[3]

A cleaner planet, with an EZVIZ Green product

At EZVIZ, we design products with sustainability in mind, building a smart home that's ready for the future and responsible for the planet. By integrating the use of solar technology and planting forests, we enable you to live a smart lifestyle with less carbon emissions.

Learn more >

EZVIZ Green™

SUSTAINABILITY AWARD 2024
Initiative of the Year

EZVIZ Global Forest Plan

Reduces carbon emissions generated by a multi-device smart home

Grows the EZVIZ Global Forest Plan with locally beneficial tree

We're committed to protecting with trust

We put security as the primary goal of every product and system that we build, and assiduously improve our practices to better protect your device, data and privacy.

Learn more about our security practices >

End-to-end Data Encryption

TLS
Data Transmission Encryption

AES
Data Encryption

*Our global certifications in the fields of **information security, privacy information security,** and **cloud security***

DNV ISO/IEC 27001
DNV ISO 27017
DNV ISO 27018
DNV ISO 29151
DNV ISO/IEC 27701
DNV·GL ISO/IEC 20000
DNV ISO 38505
DNV ISO 22301
DNV CSA STAR
AICPA SOC

1 The inclusion of the supporting solar panel in the HB90 Dual is intended to provide an additional power source for the main device, helping to extend the battery life of the camera to reduce the frequency of recharging. To prolong the battery life, we recommend you to enable the AOV mode for wiser battery consumption. Please note that the HB90 Dual only supports working with the EZVIZ Solar Panels that use Type-C charging cables.

2 Amazon Alexa and Google Assistant are not available in certain languages and countries.

3 Local storage cards must be purchased separately. Cloud storage service is only available in certain markets. Please verify availability before making a purchase.

4 To use this function, a compatible microSD card (sold separately) must be inserted into the camera.

5 When the AOV mode is enabled, according to EZVIZ Lab's test results under standard conditions, the HB90 Dual is able to detect movements at a distance of up to 25 meters during the day, and up to 12 meters during the nighttime. The actual detection range may differ due to other environmental factors.

6 Data from EZVIZ Lab's test results, under the following standard condition: AM=1.5 , 25°C, 1000W/m², SMQ. The data is obtained based on the camera set on AOV mode and with the AOV interval set as AUTO. The actual charging efficiency may vary depending on sunlight intensity and other environmental factors, while the actual hours of camera use may also differ due to the frequency of camera activities and other environmental factors.

7 Data from EZVIZ Lab's test results under standard conditions. The distance figures are obtained based on the camera's four spotlights or four IR lights being switched on and pointing in the same direction. Actual distance may vary depending on battery level and other environmental factors.

8 Data from EZVIZ Lab's test results under standard conditions. The video compression efficiency will vary with the frequency and complexity of the activity captured, as well as other environmental factors.

Specifications CS-HB90/SP-R100(4MP+4MP)

Camera

Image Sensor	1/3" 4-Megapixel Progressive Scan CMOS Sensor
Shutter Speed	Self-adaptive shutter
Lens	Top Lens: 2.8mm @ F1.2, Field of view : Diagonal 110°, Horizontal 96°, Vertical 54° Bottom Lens: 6mm @ F1.2, Field of view : Diagonal 60°, Horizontal 52°, Vertical 28°
PT Angle	Top Lens: Pan: 220°, Tilt: 10° Bottom Lens: Pan: 324°, Tilt: 90°
Minimum Illumination	0.01 Lux @ (F1.2, AGC ON), 0 Lux with IR (* data is obtained from EZVIZ laboratories)
Day & Night	IR-cut filter with auto switch
DNR	3D DNR
Night Vision Distance	35 m

Video & Audio

Max. Resolution	2K$^+$ (2560 × 1440)
Frame Rate	Max. 15fps; Self-adaptive during network transmission
Video Compression	H.265 / H.264
Video Bit Rate	Quad HD; HD; Standard; Adaptive bit rate
Audio Bit Rate	Self-adaptive
Max. Bitrate	2 Mbps (Total)

Network

Bluetooth	Supports
Wi-Fi Standard	IEEE802.11b, 802.11g, 802.11n , 802.11ax
Frequency Range	2.4 GHz ~ 2.4835 GHz
Channel Bandwidth	Support 20 MHz
Security	WPA-PSK / WPA2-PSK, WPA3-Personal
Transmission Rate	11b: 11Mbps,11g: 54Mbps,11n: 72Mbps, 11ax: 114Mbps
Wi-Fi Pairing	AP pairing
Minimum Network Requirement	4 Mbps

Function

Smart Alarm	AI-Powered Human Shape Detection AI-Powered Vehicle Shape Detection
Auto Tracking	Supports
Customized Alert Area	Supports
Two-Way Talk	Supports
General Function	Anti-Flicker, Dual-Stream, Heart Beat, Password Protection, Watermark

Specifications CS-HB90/SP-R100(4MP+4MP)

Storage

Local Storage	Supports microSD card (max. 512 GB)
Cloud Storage	Supports EZVIZ CloudPlay storage (Subscription required)

General

Operating Conditions	-20°C to 50°C (-4°F to 122 °F) Humidity 95% or less (non-condensing)
Battery Capacity	10,400 mAh
IP Grade	IP65
Power Supply	DC 5 V / 2 A (Adapter needs to be purchased separately)
Power Consumption	Max. 10 W

Specifications CS-PSP8-R100-3M

Performance Parameter

Power Voltage	5.4 V ± 5%
Power Current	1.48 A ± 5%
Open Circuit Voltage	6.8 V ± 5%
Short Circuit Current	1.64 A ± 5%
Max. Power	8 W ± 5%
Interface	Type-C
Solar Cell Efficiency	23.5%
Operating Conditions	-20 °C to 60 °C (-4 °F to 140 °F), Humidity 90% or less (non-condensing)
IP Grade	IP65
Solar Cell Type	Monocrystalline solar cells
Power Cable Length	3 meter

General

Product Dimensions	HB90 Dual: 135 × 136.5 × 229.5 mm (5.31 × 5.374× 9.04 inch） Solar Panel 8W: 267.3 × 186.5 × 17.5 mm (10.45 × 7.49 × 0.61 inch）
Packaging Dimensions	300 × 204 × 175 mm (11.81 × 8.03 × 6.89 inch)
Net Weight	HB90 Dual: 890 g (31.39 oz） Solar Panel 8W: 428 g (15.09 oz)
Weight with Package	1930 g (68.08 oz)

In the box

- HB90 Dual Camera

- Solar Panel 8W

- Drilling Template

- Adjustable Mounting Bracket

- Screw Kit × 2

- Power Cable

- Regulatory Information × 4

- Quick Start Guide × 2

Certifications

CE / REACH / WEEE / RoHS

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