



HB90x Dual 4G Kit 2K+ & 2K+

Dual-Lens All-Day Recording 4G Camera + 8W Solar Panel

Next-Gen Vision, Next-level Flexibility

The HB90x Dual 4G Kit packs EZVIZ's top innovations into one powerful camera. It features ultra-wide dual-lens coverage, full-color night vision in low light, and solar-powered Always-On Video. With smart auto-switching between Wi-Fi and 4G, it adapts instantly to your environment, perfect for both remote and connected locations, with uninterrupted protection wherever you are.



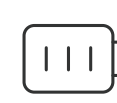
Dual Connectivity with
4G and Wi-Fi 6¹



2K+ & 2K+
Dual Lenses



Dual Rotations for
Ultra-Flexible Vision



10,400 mAh
Rechargeable
Lithium Battery



8W High-Efficiency
Solar Panel Included²



Always-On Video
Mode 2.0



AI-Powered Human /
Vehicle Shape
Detection



Co-Detection for
Auto Smart Tracking



One-Tap Control
for Linked View
Change



ColorFULL Night
Vision under
Ultra-Low Light¹



Balanced Image
Exposure with
Smart Lights¹



Two-Way Talk



Active Defense with
Siren & Strobe Light



Weatherproof
Design



Smart Integration
with Google Assistant
& Amazon Alexa³

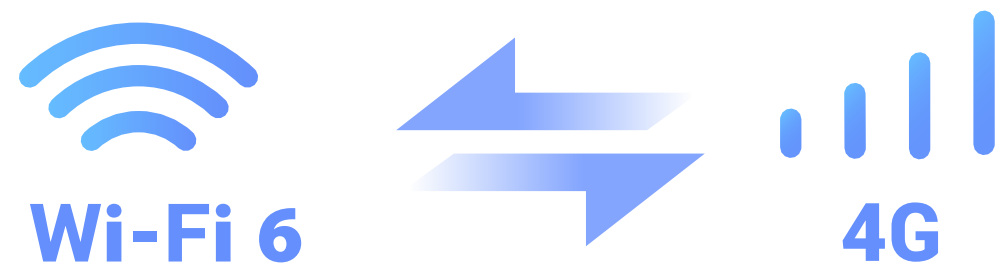


Supports MicroSD
Card (Up to 512 GB) &
EZVIZ CloudPlay Storage⁴



One camera that fits into every scenario

No matter where life takes you, this 4G camera has you covered. When Wi-Fi is spotty or goes offline, it automatically switches to 4G, so you're always connected with real-time alerts.



Nano SIM Card

Note: To use 4G connectivity, a compatible Nano SIM card and an active cellular data plan are required.

Villa Backyard



Household Garage



Forest Cabin



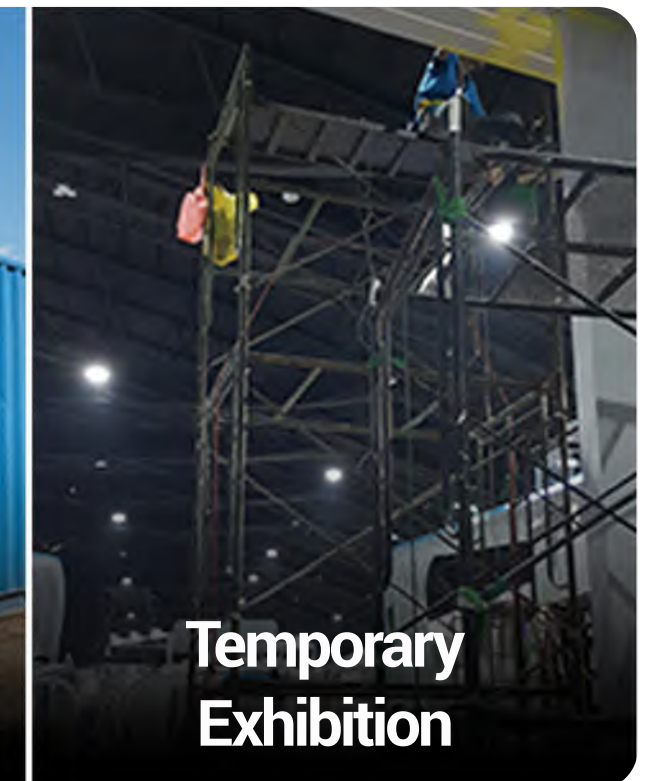
Farm Land



Construction Site Land



Temporary Exhibition



Smart robotic power doubled in one

Equipped with the EZVIZ's dual-lens technology, the HB90x Dual 4G uses three motors to ensure both cameras can smoothly swirl to reduce blind spots as much as possible.



Triple Motors to
Change Scenes Easily

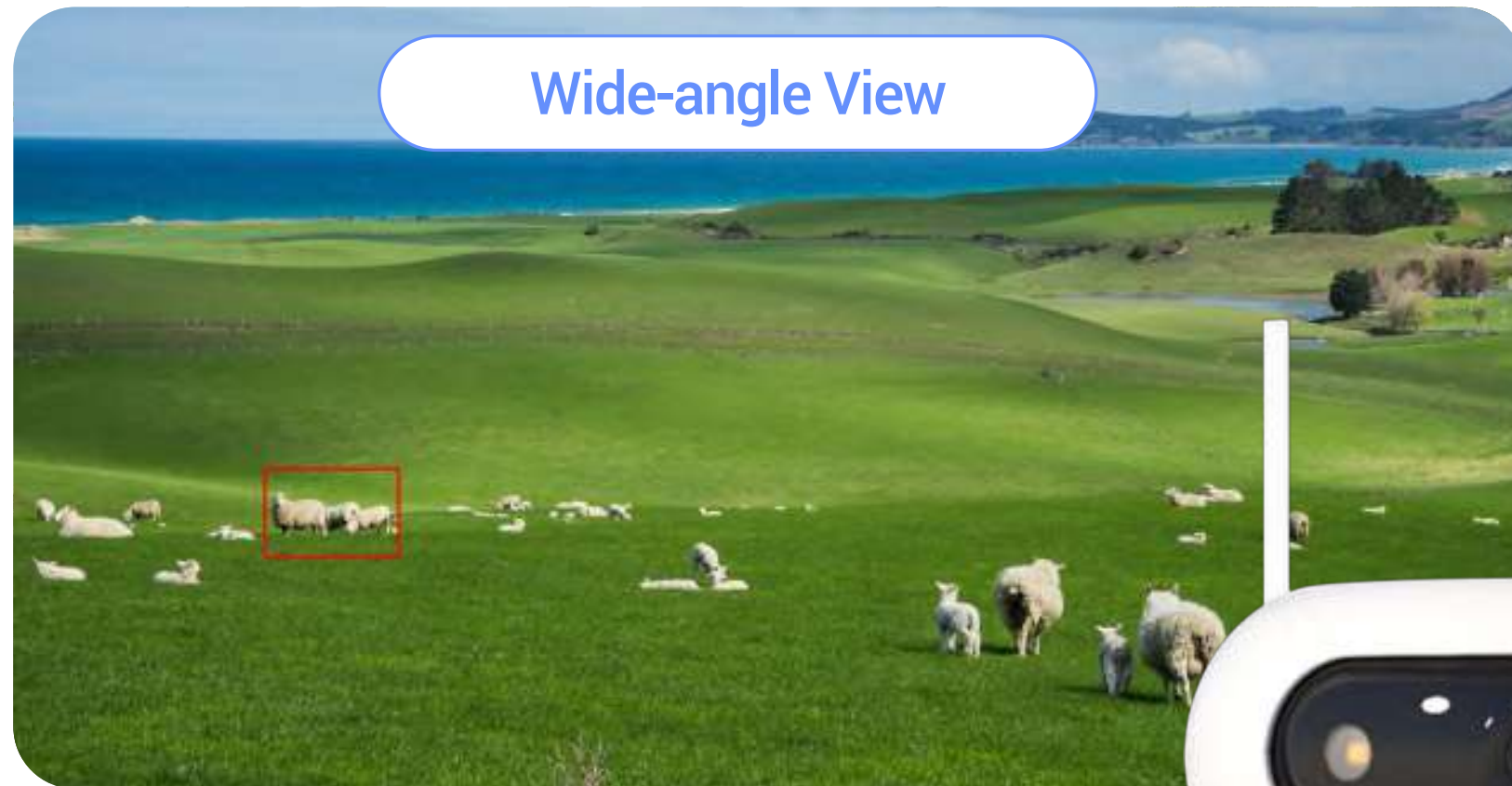


See everything that matters, from every angle to every detail

The HB90x Dual 4G makes it easy to keep an eye on more than one spot at a time. With two sharp 2K+ lenses, it captures both wide views and fine details. Each lens can point in a different direction, giving you full coverage from a single device.

Dual lenses to see wide and clear

Wide-angle View



Perspective One



Close-up View

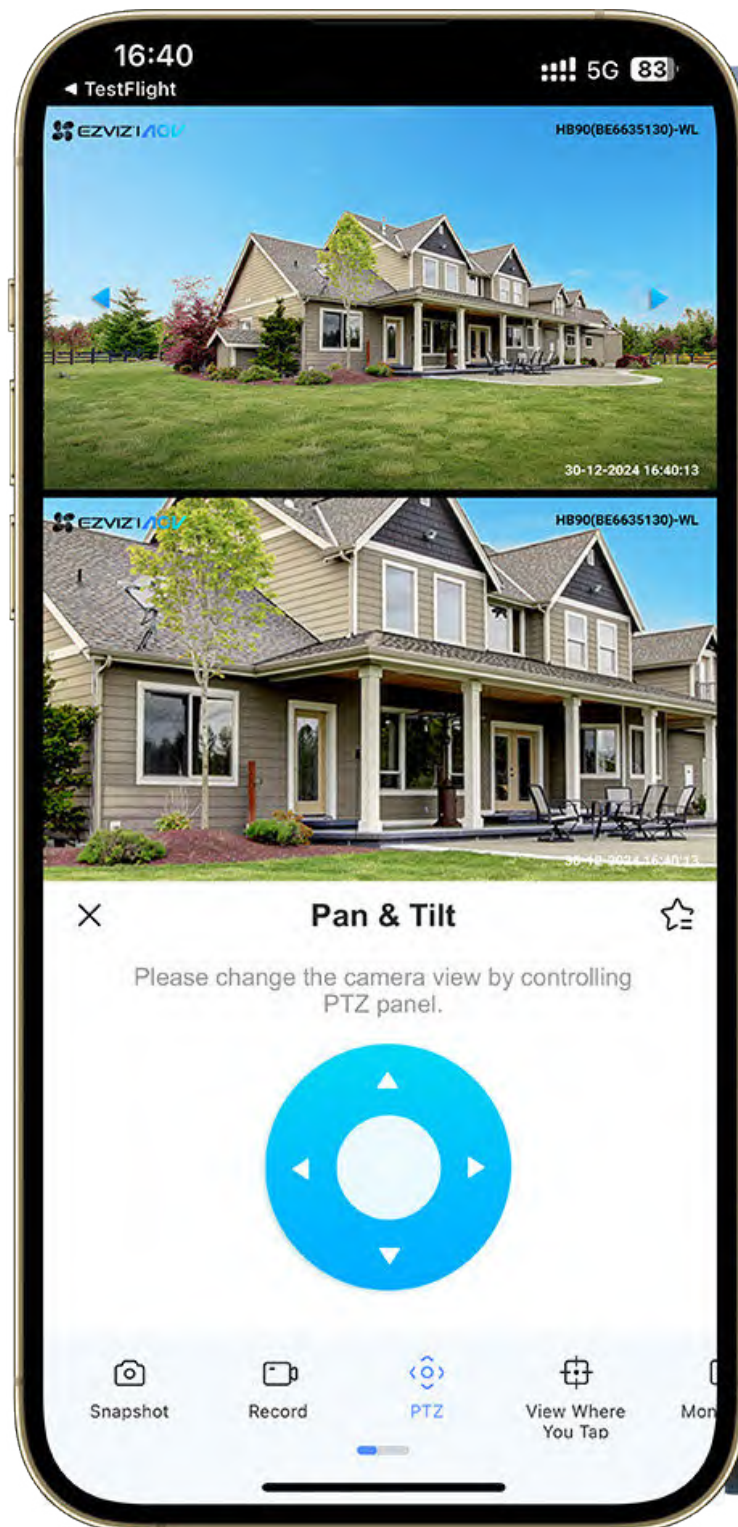


Perspective Two



Tap to control, separately or smartly together

Whether you're starting a manual patrol, adjusting viewing angles, or zooming in for a closer look, you can easily control both lenses with just a few taps in the EZVIZ App.





F / 2.8 mm Wide-angle



F / 6mm Close-up View



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.



Step 1

The top lens detects a moving person in its view



Step 2

The bottom lens rotates and follows the moving person

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 HB90x Dual 4G is smart enough to complete a complicated detection activity by involving two lenses at the same time.

The game-changing technology for battery-powered protection

Unlike most battery cameras on the market, which have trouble detecting and recording video 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 >](#)

So you no longer



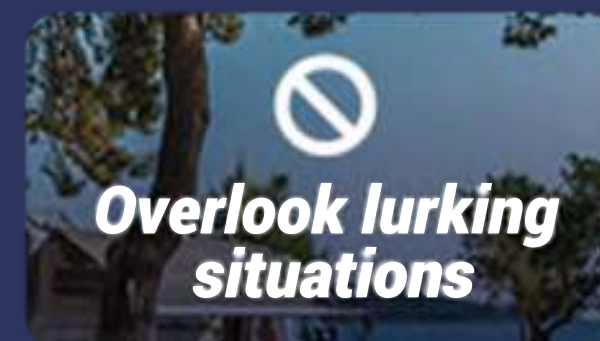
VS



Only record detection-triggered videos with no options to obtain all-day recording



Quickly die and go offline due to limited battery capacity and can't record continuously



Only detect nearby activities by relying heavily on PIR sensors with a limited detection range

Most battery cameras in the market

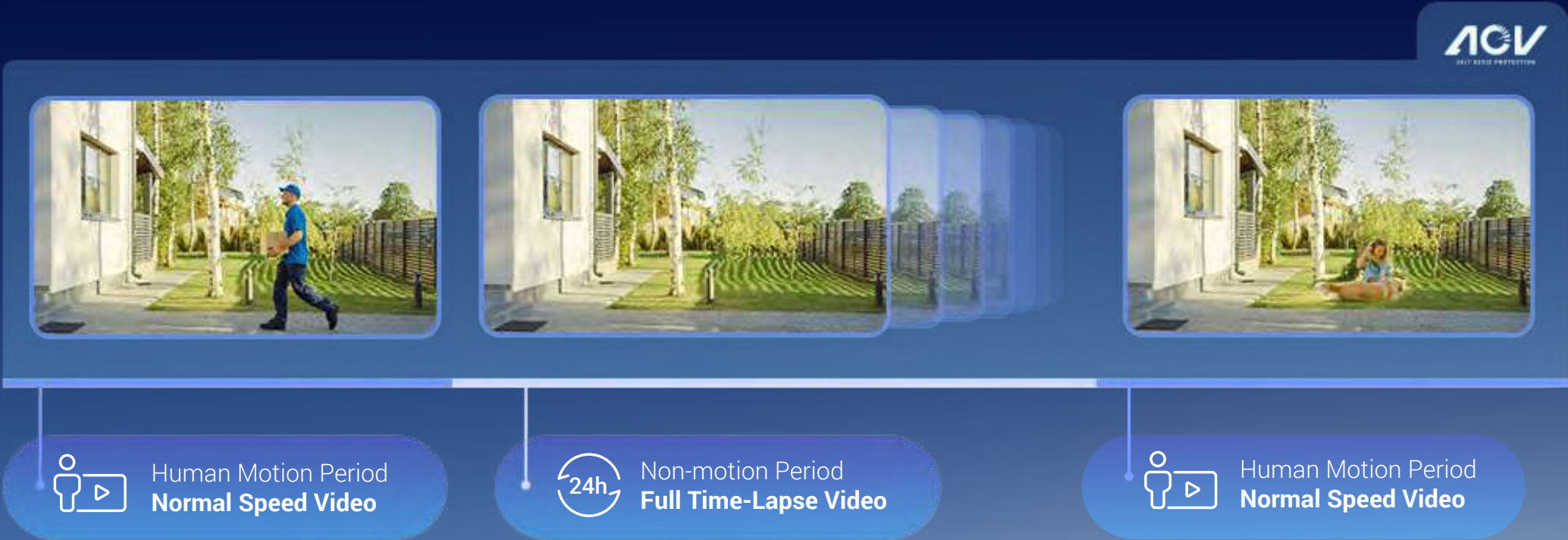
01 Always records, scenes or events

When on the AOV mode, in addition to normal detection-triggered videos, the HB90x Dual 4G camera can capture images at preset time intervals⁵ and process them to create a smooth time-lapse video showing the changes over time, even when there is no activity. 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 24/7 Recordings

Down to 1-Second Ultra-Short Time Interval



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)



EZVIZ battery cameras
with all-day recording

Standard

Other battery cameras
only with PIR sensor

12-25 meters⁶

9 meters



ColorFULL Night Vision: Always stay true to colors

Full-color vision is now made through the night, with EZVIZ's innovative ColorFULL technology¹. Even when all the lights go out, every colorful detail can still get captured and presented in a natural way.

AI-ISP Technology

-70%

motion blur for even fast-moving objects

+300%

image signal-to-noise ratio for true colors & details

ColorFULL means colorful details, fully presented

The camera faithfully captures reality in even ultra-low-light conditions – it recreates the colors with the correct light and shadow ratios throughout the entire scene, without uneven brightness or dark corners. It helps you capture finer detail, stay aware of a lurking situation and reduce the nuisance of flashes.



Color Night Vision with Spotlights



Black-and-White Night Vision



EZVIZ ColorFULL Night Vision

05-04-2025 22:31:00

Down to
0.01 Lux



Less Energy Cost
with Little Illumination
Needed



No Light Pollution
Caused by Dazzling
Spotlights



Less False Alarms
Triggered by Insects
Drawn to Light



Clearer License
Plates with Less
Light Reflected

For open area



With adaptative smart light mode



With adaptative smart light mode

For edges & corners



With adaptative smart light mode



With adaptative smart light mode

Further enhanced image quality at night, despite the complex environment

Wherever you install the HB90x Dual 4G camera, it manages to comprehend the surrounding objects to automatically create an evenly exposed, clear image, even in the dark. Users can choose to enable the "Balanced Image Exposure" option via the EZVIZ App at any time.¹

Non-stop solar power, set-and-forget⁷

The HB90x Dual 4G is serious about getting hassle-free. Install its included solar panel at a sunny spot, and connect it to the camera, so the camera will take free, green energy to keep the watch around the clock, all by itself.² Enable the AOV Auto mode, you can enjoy uninterrupted monitoring near your premises all day long.

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 HB90x Dual 4G 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 Shape Detection
(On both lenses)



AI-Powered Vehicle Shape Detection
(On both lenses)

FREE

No Subscription Fee



Respond with high-quality audio

Easily respond to any visitor by simply using your phone to speak remotely. The camera 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 dazzling spotlights to let the uninvited strangers know they have been detected.



Deliver protection, rain or shine

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



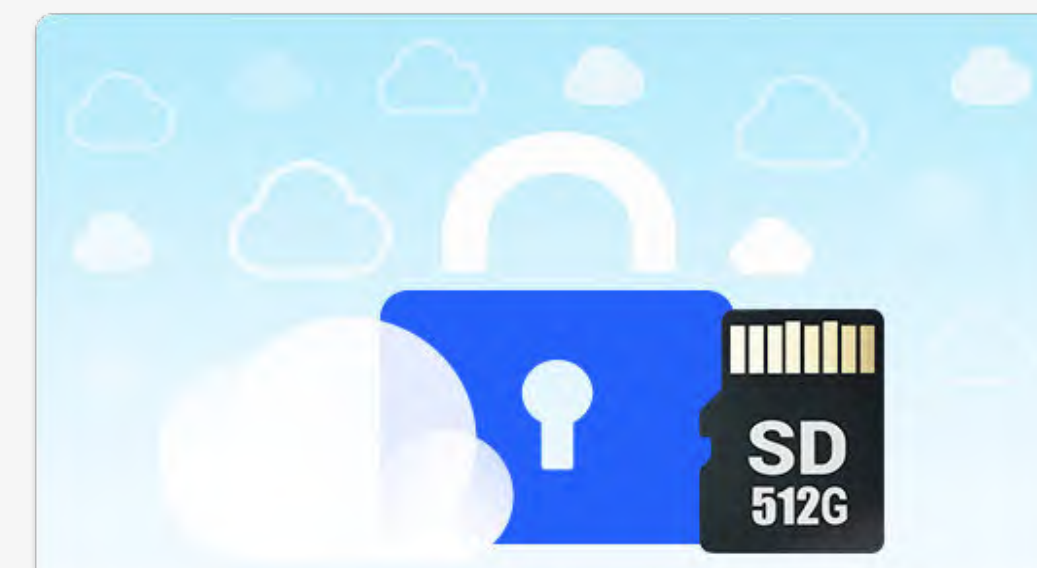
Enhance video experience with H.265

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".³



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.⁴

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.



Reduces carbon emissions generated by a multi-device smart home

[Learn more >](#)



Initiative of the Year



Grows the EZVIZ Global Forest Plan with locally beneficial tree species

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.



**End-to-end
Data Encryption**

AES
Data Encryption

TLS
Data Transmission
Encryption

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



[Learn more about our security practices >](#)

- 1 This feature requires OTA update via the EZVIZ App before using. Please check the device page on your EZVIZ App for detailed information.
- 2 The inclusion of the supporting solar panel in the HB90x Dual 4G 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 set the AOV interval as AUTO for wiser battery consumption. Please note that the HB90x Dual 4G only supports working with the EZVIZ Solar Panels that use Type-C charging cables.
- 3 Amazon Alexa and Google Assistant are not available in certain languages and countries.
- 4 The local storage card must be purchased separately. The cloud storage service is only available in certain markets. Please verify the availability before making a purchase.
- 5 To use this function, a compatible microSD card (sold separately) must be inserted into the camera.
- 6 When the AOV mode is enabled, according to EZVIZ Lab's test results under standard conditions, the camera is able to detect movements at a distance of up to 25 meters during the day, and up to 12 meters during the nighttime. Other tested battery models that use PIR-based detection usually have a detection distance of up to 9 meters. The actual detection range may differ due to 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-HB90x/SP-R100(4MP+4MP W4GA)

Camera

Image Sensor	1/2.8" 4-Megapixel Progressive Scan CMOS Sensor
Shutter Speed	Self-adaptive shutter
Lens	Top Lens: 2.8mm @ F1.2, Field of view : Diagonal 122°, Horizontal 105°, Vertical 58° Bottom Lens: 6mm @ F1.2, Field of view : Diagonal 65°, Horizontal 56°, Vertical 30°
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 (When two lenses point in the same direction)

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

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	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK
Transmission Rate	11b: 11Mbps,11g: 54Mbps,11n: 72Mbps, 11ax: 114Mbps
Wi-Fi Pairing	AP pairing
Minimum Network Requirement	4 Mbps
Frequency Bands	IN LTE-FDD: B1/B3/B5/B8 IN LTE-TDD: B34/B38/B39/B40/B41 EU LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LA LTE-FDD: B2/B3/B4/B5/B7/B8/B28/B66

Function

Smart Alarm	AI-Powered Human / 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-HB90x/SP-R100(4MP+4MP W4GA)

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
Dimensions	135 × 145 × 229.5 mm (5.32 × 5.71 × 9.04 inch)
Dimensions	300 × 204 × 175 mm (11.81 × 8.03 × 6.89 inch)
Dimensions	Net weight for HB90x: 862g Net weight for Solar Panel 8W: 428g With package: 1902g

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	≥ 22%
Operating Conditions	-20 °C ~ 60 °C (-4 °F ~ 140 °F), Humidity 90% or less (non-condensing)
IP Grade	IP65

Mechanical Data	
Solar Cell Type	Monocrystalline solar cells
Power Cable Length	3 meter
Product Dimensions	267.3 × 186.5 × 17.5 mm
Weight	428 g

In the box

- HB90x Dual 4G 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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