EZVIZ™

HB90x Dual 4G Kit

3K & 3K

Dual-Lens 4G Battery Camera +
Solar Panel 8W



Key Features

The HB90x Dual 4G Kit helps users see more, miss less, and stay protected around the clock. Its dual-lens setup delivers wider coverage and works together to follow activity more intelligently, while ColorFULL night vision reveals clear, true-to-life details even in near darkness. With Always-On Video and the included solar panel, users can enjoy longer-lasting, all-day recording with less charging and more efficient storage.

Wi-Fi 4G

Dual Connectivity with 4G & Wi-Fi

3K & 3K Dual Lenses

Dual Rotations for Ultra-Flexible Vision

10, 400 mAh Rechargeable Lithium Battery

8W High-Efficiency Solar Panel Included[1]

AOV

Always-On Video Mode 2.0[2]

AI-Powered Human / Vehicle Shape Detection

Co-Detection for Auto Smart Tracking

Tap-to-Zoom Control

Local Familiar Face Recognition[3]

ColorFULL Night Vision under Ultra-Low Light

Balanced Image Exposure with Smart Lights

Two-Way Talk

Active Warning with Red-Blue Light & Siren

Weatherproof Design

Smart Integration with Google Assistant & Amazon Alexa

Supports Local (Up to 512 GB) & EZVIZ CloudPlay Storage[4]

Auto-Switching 4G & Wi-Fi Connectivity

Stay Connected, Anywhere You Set Up

01 Keeps it online with Wi-Fi or 4G

When Wi-Fi drops, the camera keeps going. It automatically switches to 4G to keep you connected, then returns to Wi-Fi once the signal is back — helping you stay protected without lifting a finger or wasting mobile data.



Please note that 4G connectivity requires a Nano SIM card and an active cellular data plan.



02 Set it up anywhere with Wi-Fi or 4G

Set it up where ordinary cameras may struggle — beside a quiet cabin, inside a busy warehouse, at a weekend exhibition, or around an active construction site. With 4G ready to step in, security can follow you far beyond the reach of everyday Wi-Fi.



Dual 3K Lenses

Safeguards Your Home with Every Detail in 3K Clarity

Powered by dual 3K lenses, it offers a remarkable clarity leap beyond 1080p resolution. It captures every fine detail with precision, keeps full watch over your entire property from afar, and delivers protection for your home and family.



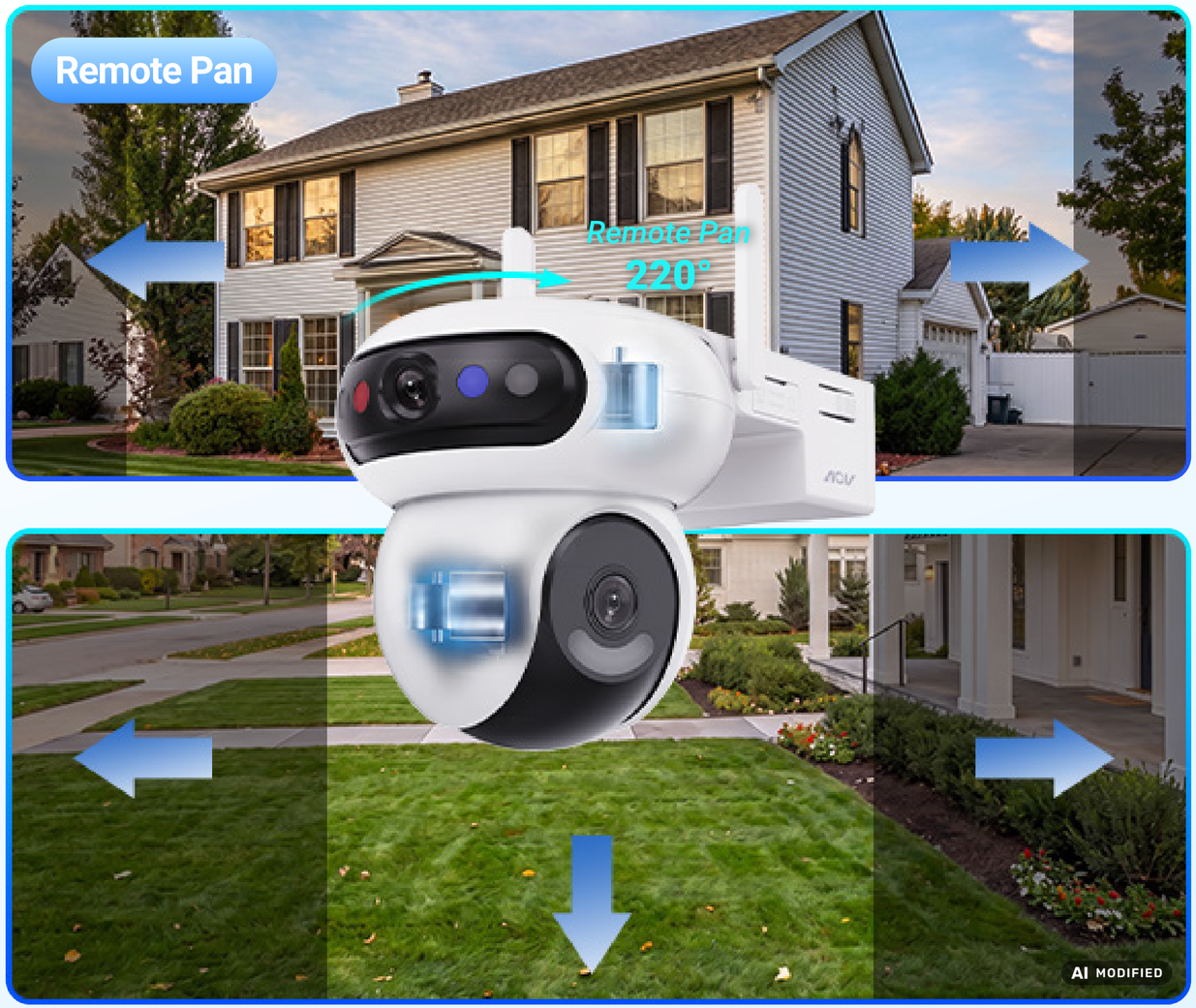


Triple Motors with Dual Rotations

Rotates Upper & Bottom Lenses Independently

Thanks to its innovative triple-motor design, the upper lens of HB90x can pan remotely while the bottom lens keeps protecting the main area, with no corner left unwatched.

⭐ EZVIZ **Triple-Motor** HB90x Dual with **Dual Rotations**



VS

Most Dual-Motor Cameras with Single Rotation



Flexible Dual-Lens Viewing

Enjoys Versatile Coverage in One Camera

With dual lenses working in flexible angles, you can easily adjust how the camera keeps an eye on your space.

Scenario 1

Dual Lenses to See Wide & Clear



Scenario 2

Dual Lenses to See Back & Front



Up to 4x Mixed Zoom

Zooms in up to 4x Smoothly to See Farther

Details that were once too far to see clearly are now within view. From people walking up your driveway to cars approaching your home, important details now stay crystal-clear.



F/2.8 mm Wide-Angle View



4× Mixed Zoom



F/6 mm Close-Up View

Ultra-Wide 360° Coverage

Keeps More in Sight with Reduced Blind Spots

By pointing the lenses in different directions, the camera reduces blind spots so you don't have to keep adjusting the camera to check different areas.



Dual-Lens Co-Detection

Unveils the Full Story with Dual Lenses Working Together

Unlike most dual-lens cameras in the market that only stitch the views of two lenses, the HB90x is smart enough to complete a complicated detection activity by involving two lenses at the same time.

Auto Tracking on People

Dual-View Display with Panorama & Details



Other cameras without Co-Detection

EZVIZ HB90x Dual with Co-Detection

Tap-to-Zoom Control

Tap for a Closer Look with Up to 4× Mixed Zoom

Point both lenses in the same direction to unlock up to 4× zoom, so you can see the full scene and zoom in on the details at the same time. Just tap the area you want via the EZVIZ App to instantly bring it closer, without missing the bigger picture.



EZVIZ ColorFULL

True Colors, Even When the Lights Go Out

Driven by advanced imaging, ColorFULL technology restores true-to-life colors even in near-total darkness (down to 0.01 lux).
By dynamically balancing light, shadow, and tone, it captures sharp, natural details after dark—without relying on harsh, blinding spotlights.

AI-ISP Technology

-70%

Motion Blur

for even fast-moving objects

+300%

Signal-to-Noise Ratio

for truer color & finer detail

0.01

Minimum Lux

full color captured in near-darkness

Why Less Light Is More

Lower Energy Cost

Less illumination needed to capture full color

Zero Light Pollution

No dazzling spotlights disturbing neighbors

Fewer False Alarms

Insects are less drawn to activated light

Sharper Identification

Clearer plates with less light reflection





Color Night Vision with Spotlights



Black & White Night Vision

Always-On Video Mode

Upgrades Your Battery-Powered All-Day Recording

Unlike typical battery cameras that struggle to compromise either recording performance or battery life, this camera features EZVIZ's groundbreaking AOV technology.

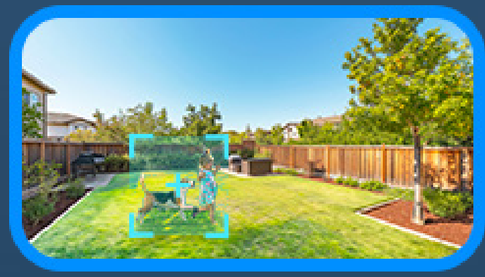
How Does EZVIZ AOV Work?

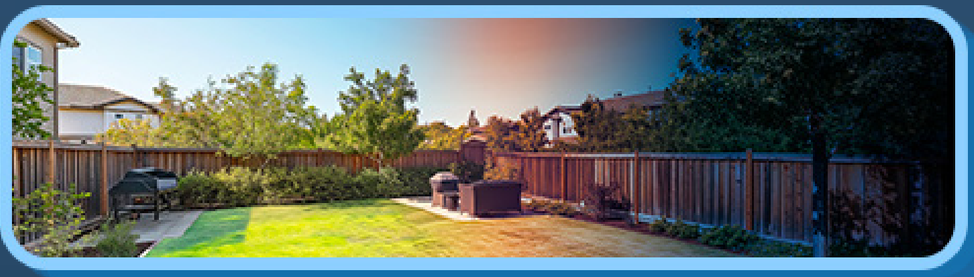
15 images/second
Normal Speed

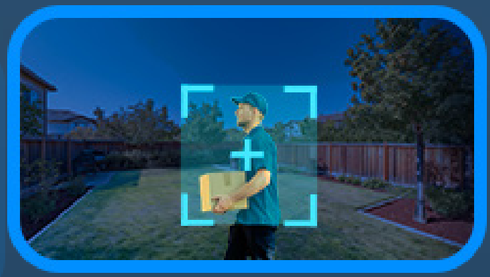
Smart Auto
Time-Lapse Video

15 images/second
Normal Speed

WITH AOV



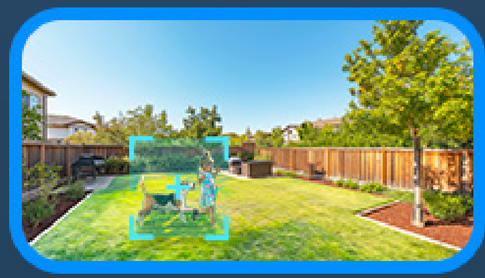




Human Detected

Human Detected

WITHOUT AOV



No Event = No Recording



Wider Longer Detection Range

To see and respond to any activity earlier

How Does EZVIZ AOV Help?



Up to 25 meters[5]

Only 9 meters

Wiser Power Consumption

To adjust recording intervals automatically based on battery power conditions



**10,400 mAh Rechargeable Battery + 8W Solar Panel =
All-Year 24/7 Continuous Protection**

Local Familiar Face Recognition

Greets the Ones That Matter to You Faster with Local AI

With EZVIZ's local familiar face recognition, the camera can quickly recognize familiar faces and let you know when someone you know arrives—so alerts are more meaningful and less distracting.[3]



AI-Powered Human Shape & Vehicle Detection

Stays Informed with Smart Alerts for Free

The camera cuts through hours of footages by telling the difference between people, vehicles, and everyday motion.
Instead of babysitting the live view, your camera will flag the crucial times and notify you on the EZVIZ App.

AI-Powered Human Shape Detection (on Both Lenses)

AI-Powered Vehicle Shape Detection (on Both Lenses)

FREE No Subscription Fee

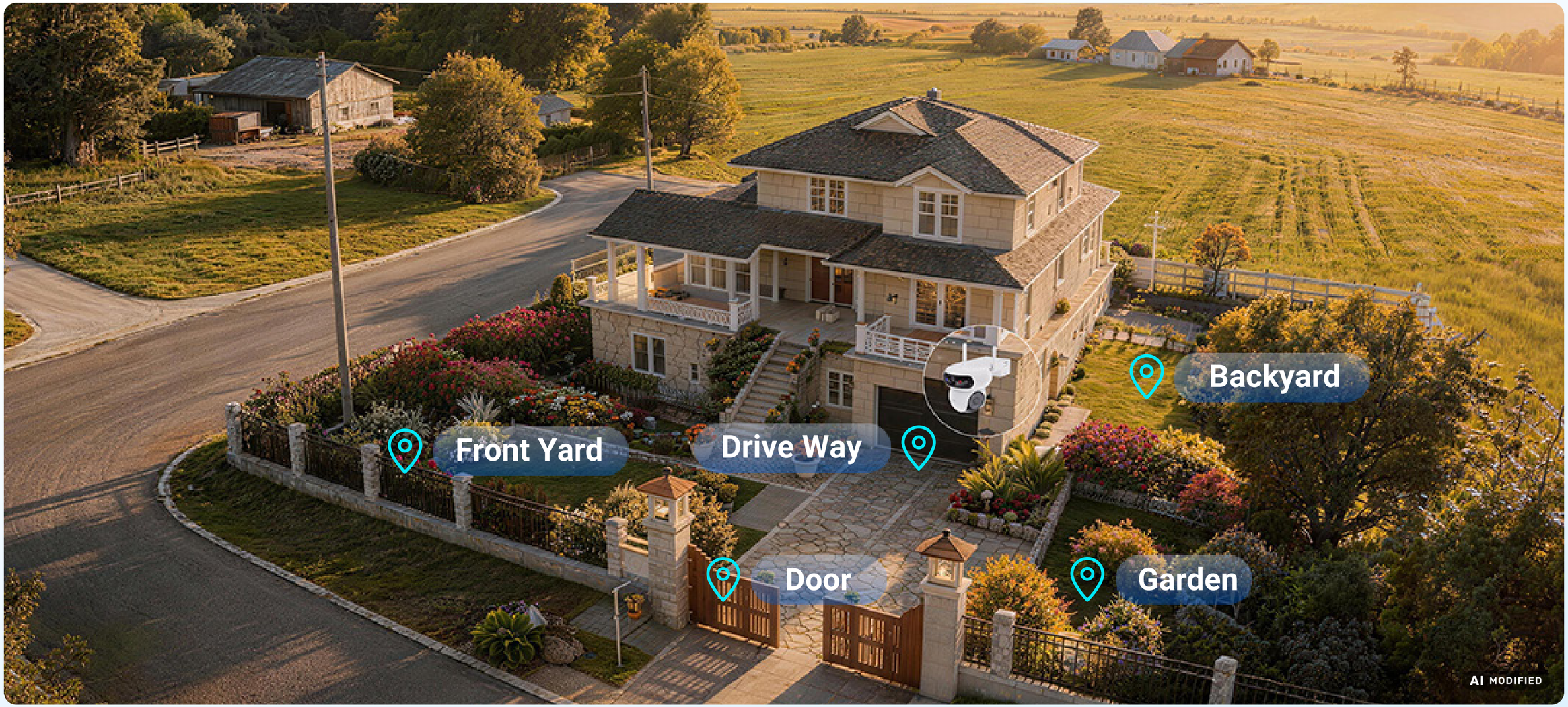




Preset Location

Saves Your Preferred Setting for Quick Views

Normally, checking specific areas requires manually adjusting the camera each time. With preset locations saved in advance, you can instantly return to important views with just one tap.



Balanced Image Exposure

Sees Every Detail Clearly in Bright and Dark Areas

Advanced exposure balancing helps the camera adjust to complex lighting conditions. Whether it’s bright sunlight or shadowed areas, important details remain visible across the entire scene.



Without adaptative smart light



With adaptative smart light

Easy Installation

Gets Your Camera Running in Minutes

With a simple mounting design and flexible placement options, you can install the camera quickly without complicated setup. It’s an easy way to start protecting your home right away.

Wall Mount



Ceiling Mount



Pole Mount

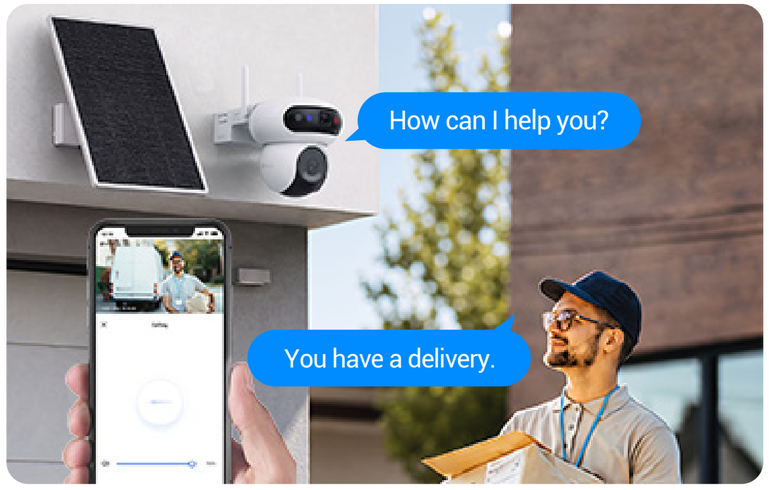


Brings More Convenience for Extra Peace of Mind



Weatherproof Design

Delivers Protection Whenever Rain or Shine



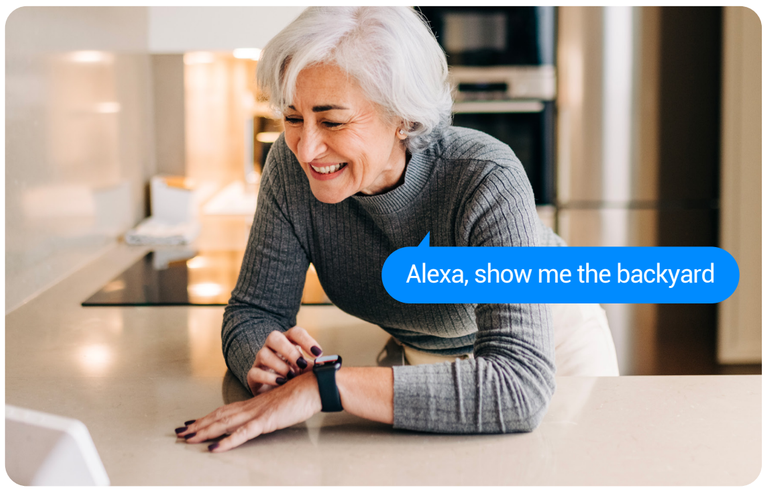
Two-Way Talk

Responds to Visitors with Your Phone



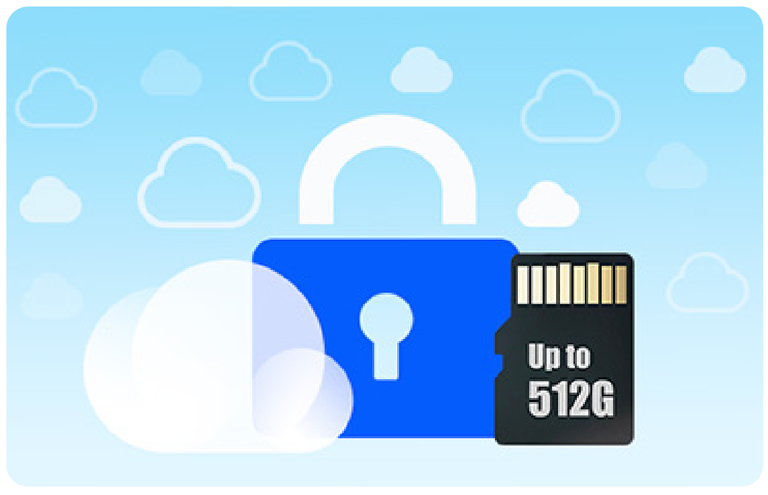
Active Defense

Deters Potential Risks with Red-Blue Light & Siren



Smart Home Integration

Controls the Camera with Your Voice



Local & Cloud Storage

Saves Your Videos with Two Options



H.265 Video Compression

Smoother Streaming Using Less Storage & Bandwidth[6]

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

AES

Data Encryption

TLS

Data Transmission Encryption

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

- INFORMATION SECURITY MANAGEMENT SYSTEM — DNV — ISO/IEC 27001
- INFORMATION SECURITY MANAGEMENT SYSTEM — DNV — ISO 27017
- INFORMATION SECURITY MANAGEMENT SYSTEM — DNV — ISO 27018
- INFORMATION SECURITY MANAGEMENT SYSTEM — DNV — ISO 29151
- PRIVACY INFORMATION MANAGEMENT SYSTEM — DNV — ISO/IEC 27701
- IT SERVICE MANAGEMENT SYSTEM — DNV·GL — ISO/IEC 20000
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- BUSINESS CONTINUITY MANAGEMENT — DNV — ISO 22301
- INFORMATION SECURITY MANAGEMENT SYSTEM — DNV — CSA STAR
- AICPA Service Organization Control Reports — AICPA SERVICE ORGANIZATIONS — SOC — aicpa.org/soc — Formerly SAS 70 Reports

1 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 enable the AOV mode 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.

2 Use of this feature requires that a compatible local storage card (sold separately) be inserted into the camera.

3 This feature is currently available only after an OTA update.

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

5 When the AOV mode is enabled, according to EZVIZ Lab's test results under standard conditions, the HB90x Dual 4G 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 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-R200(5MP+5MP W4GA)

Camera

Image Sensor	1/1.8” 5-Megapixel Progressive Scan CMOS Sensor
Shutter Speed	Self-adaptive shutter
Lens	Top Lens: 2.8mm @ F1.2, Field of view: Diagonal 132°, Horizontal 110°, Vertical 58° Bottom Lens: 6mm @ F1.2, Field of view: Diagonal 65°, Horizontal 57°, Vertical 32°
PT Angle	Top Lens: Pan: 220°, Manual 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
Black & White Night Vision	Up to 35 m when two lens facing the same direction

Video & Audio

Max. Resolution	2880 × 1620
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	2.5 Mbps (Total, 4G), 5Mbps (Total, Wi-Fi)

Network

Wi-Fi Standard	IEEE802.11b, 802.11g, 802.11n
Frequency Range	2.4 GHz ~ 2.4835 GHz
Channel Bandwidth	Support 20MHz
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
Protocol	EZVIZ cloud proprietary protocol
Interface Protocol	EZVIZ cloud proprietary protocol
Minimum Network Requirement	2.5 Mbps (Total, 4G), 5Mbps (Total, Wi-Fi)
Bluetooth	Supports
Frequency Bands	EU LTE-FDD: B1/B3/B5/B7/B8/B20/B28 EU LTE-TDD: B38/B40/B41 LA LTE-FDD: B2/B3/B4/B5/B7/B8/B28/B66 LA LTE-TDD: B38/B40/B41

Function

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

Storage

Local Storage	Supports microSD card (max. 512 GB)
Cloud Storage	EZVIZ Cloud Storage

General

Operating Conditions	-20°C to 50°C (-4°F to 122°F), Humidity 95% or less (non-condensing)
Battery Capacity	10400 mAh
IP Grade	IP65
Power Supply	DC 5V/2A (Adapter needs to be purchased separately)
Power Consumption	MAX. 10W

Specifications CS-PSP8-R100-3M

Performance Parameter

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

General

Dimensions	HB90x: 135 × 145 × 229 mm Solar panel: 267.3 × 186.5 × 17.5 mm
Packaging Dimensions	300 × 220 × 229 mm
Net Weight	HB90x: 900g Solar panel: 428g
Weight with Package	1900g

In the box

- HB90x 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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