EZVIZ™

HB90f Triple Kit

Triple-Lens Wi-Fi Battery Camera
+ Solar Panel 8W



What’s New on EZVIZ’s First Triple-Lens Battery Camera

Triple 3K Lenses



Up to 12x Mixed Zoom



Ultra-Wide 360° Coverage



Co-Detection with Auto-Zoom Tracking on People



Always-On Video Mode with 8W Solar Panel[1]



Local & Free Familiar Face Recognition



Weatherproof Design



Active Defense with Red-Blue Warning Light



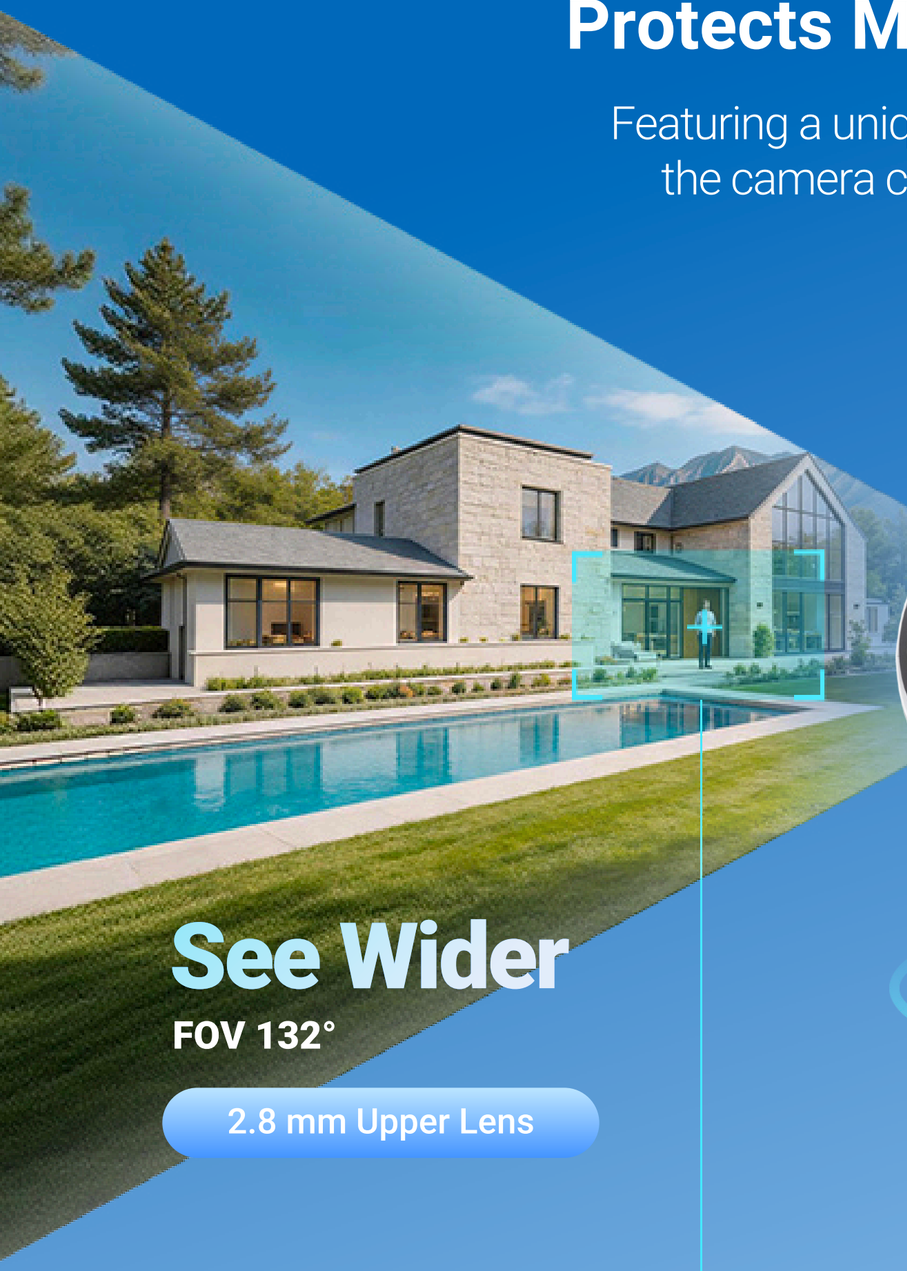
Local & Cloud Storage[2]



Triple 3K Lenses

Protects More with Triple Lenses in 3K Clarity

Featuring a unique triple-lens design with one lens on top and two below,
the camera captures more of your surroundings in sharp 3K clarity.



See Wider

FOV 132°

2.8 mm Upper Lens



See Further

360° Panoramic Coverage
Up to 12x Mixed Zoom

6 mm + 12 mm Dual Bottom Lenses

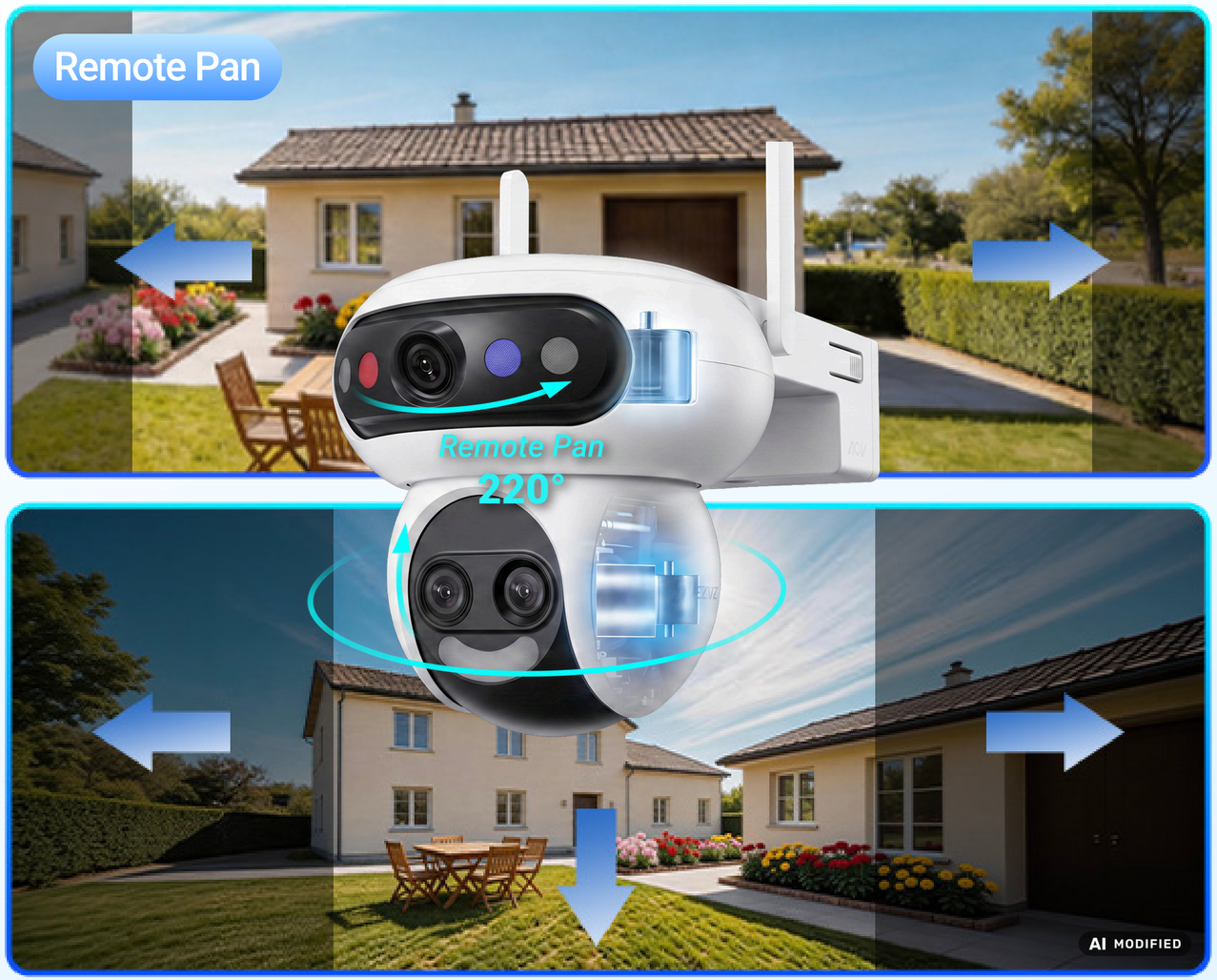


Triple Motors with Dual Rotations

Rotates Upper & Bottom Lenses Independently

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

⭐ EZVIZ **Triple-Motor** HB90f with **Dual Rotations**



Most Dual-Motor Cameras with Single Rotation





Flexible Triple-Lens Viewing

Enjoys Versatile Coverage in One Camera

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

Scenario 1

Keep an eye on what's far away



Scenario 2

Watch more of your home at once



Up to 12x Mixed Zoom

Zooms in up to 12x 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



2× Optical Zoom for Closer Details



F/6 mm Close-Up View

6× Mixed Zoom

12× Lag-Free Mixed Zoom



F/12 mm Ultra-Close View

Ultra-Wide 360° Coverage

Secures Multiple Areas at Once

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.



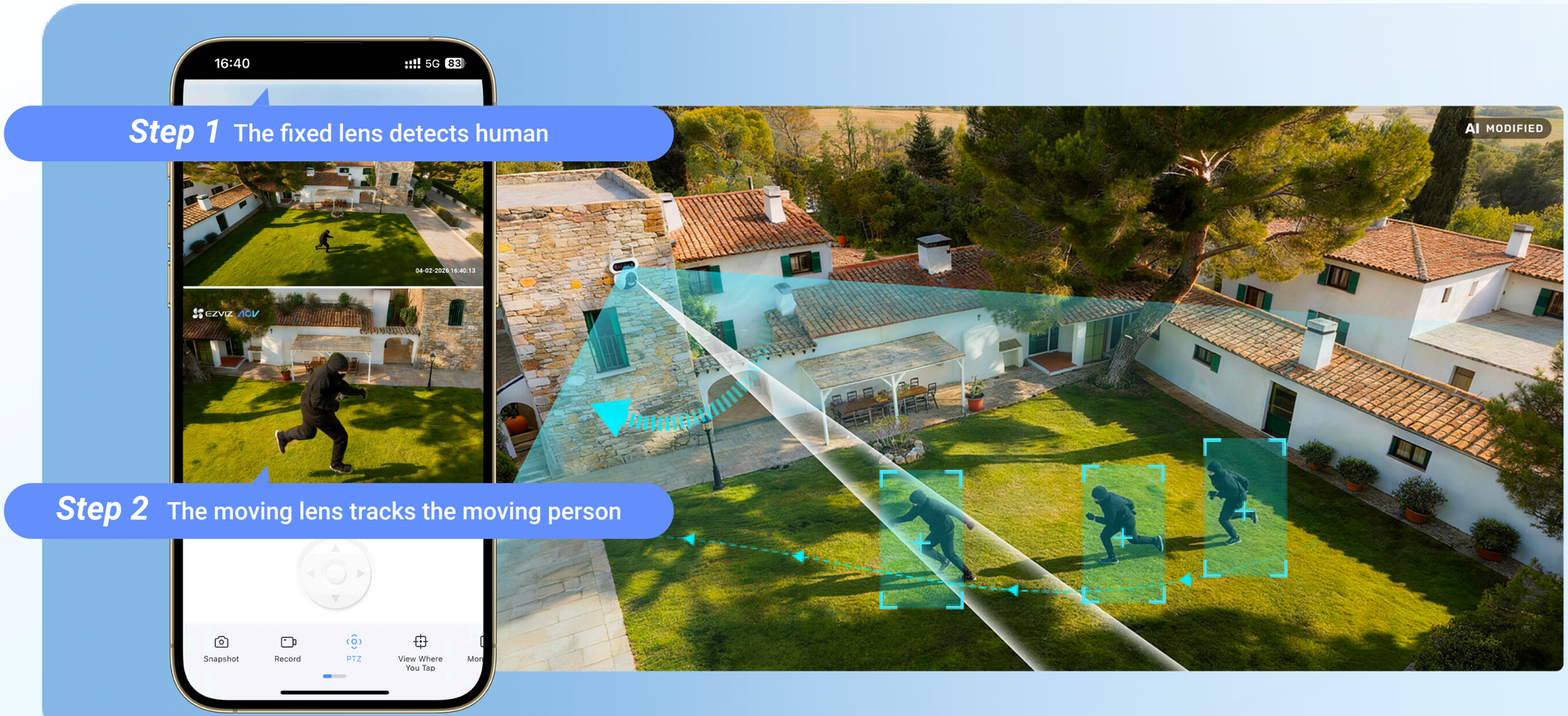
Triple-Lens Co-Detection

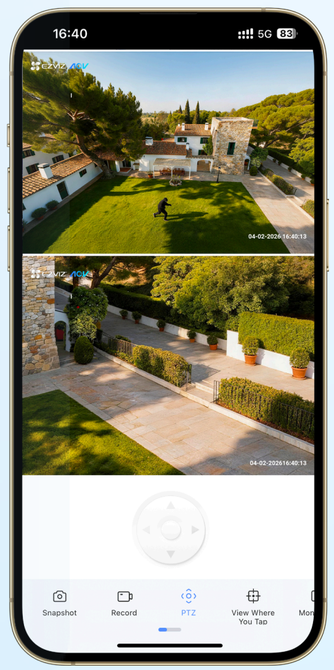
Captures the Full Event with Triple Lenses Working Together

When the upper wide-angle lens detects a person, the lower dual lenses automatically zoom in up to 12x on people at distances up to 50m. With triple-lens co-detection, the camera keeps the person in view and records the event without missing any detail.

Auto-Zoom Tracking on People

Dual-View Display with Panorama & Details





EZVIZ HB90f with Co-Detection

Other cameras without Co-Detection

Tap-to-Zoom Control

Taps the Bigger Picture and Zooms in to See Details

Simply tap any area in the wide view to instantly zoom in for a closer look.
The camera automatically focuses on the selected spot, allowing you to quickly
check important details without manually adjusting the view.



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.

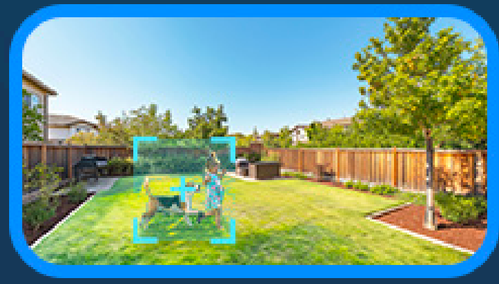
How EZVIZ AOV works?

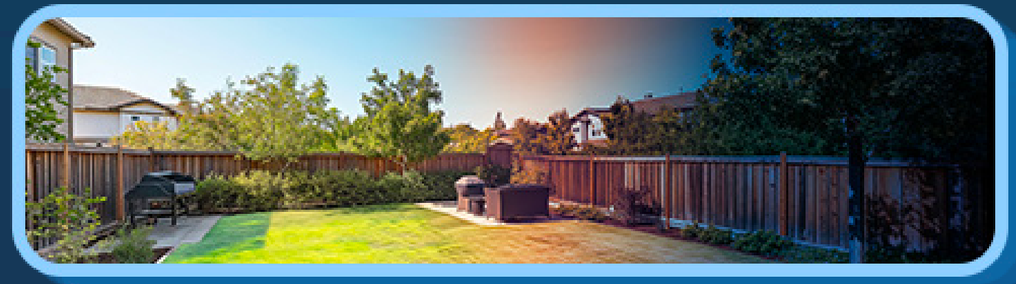
15 images/second
Normal Speed

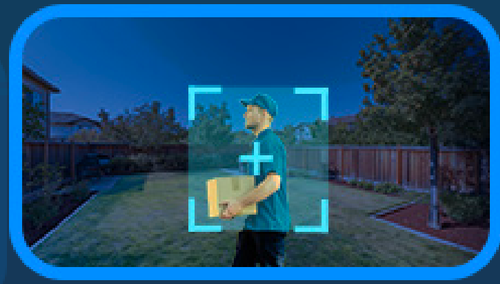
Smart Auto
Time-Lapse Video

15 images/second
Normal Speed

WITH AOV



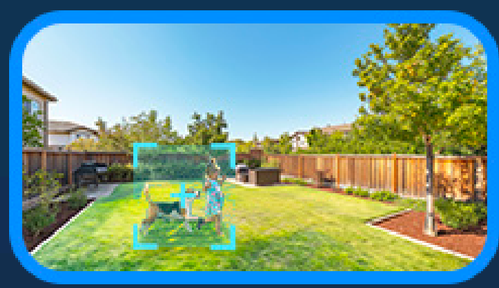




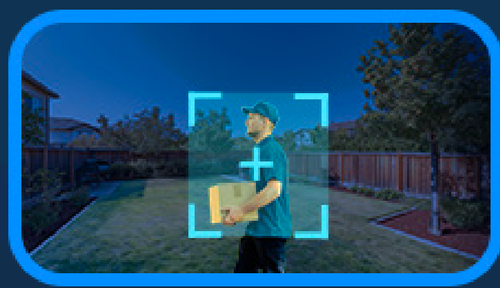
Human Detected

Human Detected

WITHOUT AOV



No Event = No Recording



Why EZVIZ AOV helps?

Wider Longer Detection Range

To see and respond to any activity earlier



Up to 25 meters[3]

Only 9 meters

2-Hour Sunshine[4] = All-Year & All-Season Protection

Wiser Power Consumption

To adjust recording intervals automatically based on battery power conditions



Local Familiar Face Recognition

Greets the Ones 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[5].



AI Human Shape & Vehicle Detection

Stays Informed with Smart Alerts for Free

The camera cuts through hours of footages by telling the differences 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.

Customizable Detection Zones

Accurate Detection Alerts





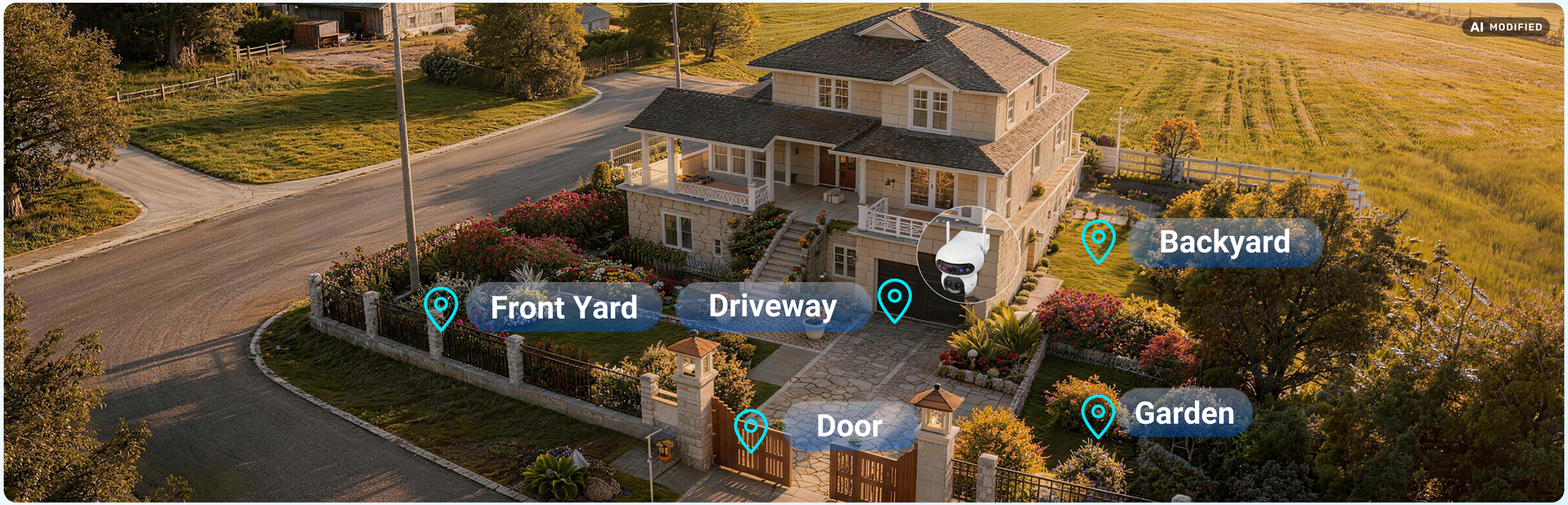
Preset Location & Zoom Ratio

Saves Your Preferred Setting for Quick Views

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

Saves Preferred Pan-Tilt Angles

Saves Zooms Ratios for Each Angle



Smart Color Night Vision

Lights up Your Night with Bright Colors

Say goodbye to blurry, washed-out night footage. Powered by built-in spotlights, the HB90f brings to life with vivid, full-color clarity, even in near-total darkness.



2 Spotlights | Full-Color Night Vision



2 IR Lights | Black & White Night Vision

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

Active Warning with Red-Blue Light & Siren

Adds an Extra Layer of Protection for Your Home

When suspicious activity is detected, the camera can trigger flashing red-blue lights and a loud siren to draw attention instantly. This active warning helps alert people nearby and makes unwanted visitors think twice.[7]



AI MODIFIED

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





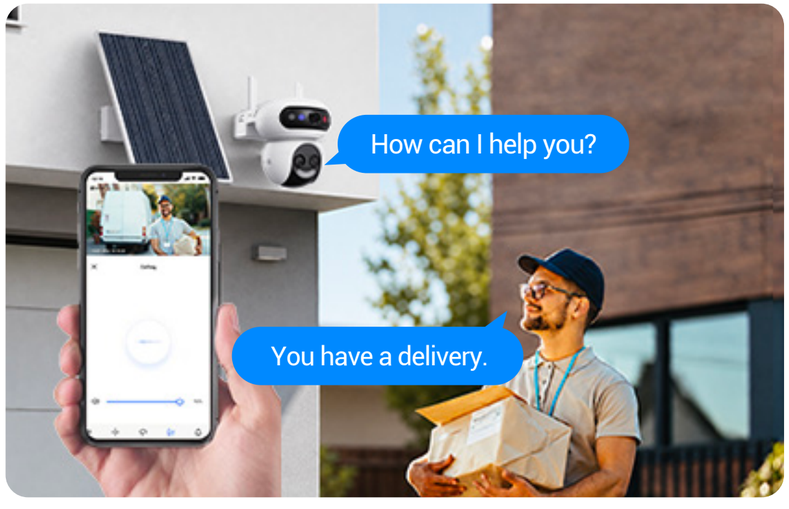


Brings More Convenience for Extra Peace of Mind



Weatherproof Design

Delivers Protection Rain or Shine



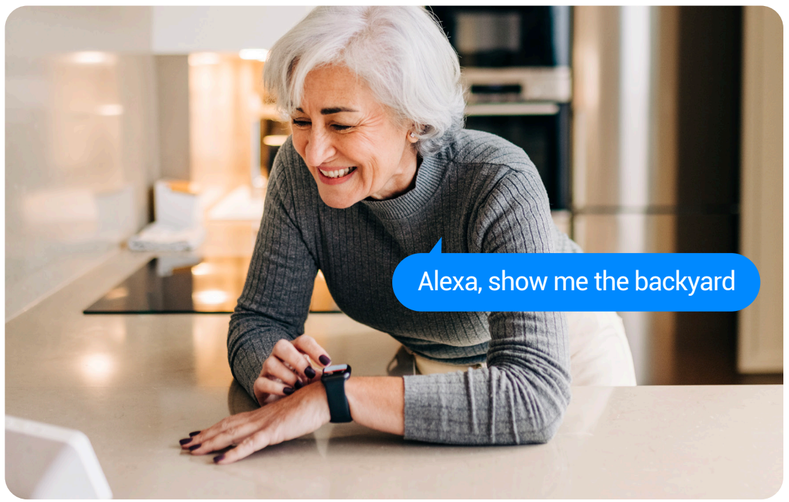
Two-Way Talk

Talks to Visitors with Phone



2.4 GHz Wi-Fi Network

Enables Smooth Video Streaming



Smart Home Integration

Controls Your Camera Easily at Home



Local & Cloud Storage

Saves Videos with Two Options



H.265 Video Compression

Enjoys Clearer Videos with Less Storage[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***



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

2 A compatible local storage card must be purchased separately. Cloud storage services are available only in selected markets; availability should be verified prior to purchase.

3 When AOV mode is enabled, EZVIZ Lab testing conducted under standard conditions indicates that the camera can detect motion at distances of up to 25 m in daylight and up to 12 m at night. Under the same test conditions, other battery-powered models using PIR-based detection typically provide a detection distance of up to 9 m. Actual detection performance may vary due to environmental conditions and installation factors.

4 Data from EZVIZ Lab's test results, under the following standard condition: AM=1.5 , 25°C, 1000W/m² and SMQ. The results are obtained based with the camera operating in AOV mode and the AOV interval set to AUTO. Actual charging efficiency may vary depending on sunlight intensity and other environmental conditions. Actual camera operating hours may also differ based on usage patterns, activity frequency, and environmental factors.

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

6 Based on EZVIZ Lab testing conducted under standard conditions. Video compression efficiency may vary depending on scene complexity, motion frequency, lighting conditions, and other environmental factors.

7 Red-blue light and siren are off by default. Please enable it in settings to use this feature.

Specifications CS-HB90f/SP-R100(5MP+5MP+5MP)

Camera

Image Sensor	1/3” 5-Megapixel Progressive Scan CMOS Sensor
Shutter Speed	Self-adaptive shutter
Lens	Top Lens: 2.8mm @ F1.6, Field of view: Diagonal 132°, Horizontal 110°, Vertical 60° Bottom Lens1: 6mm @ F1.6, Field of view: Diagonal 66°, Horizontal 58°, Vertical 30°Bottom Lens2: 12mm @ F1.6, Field of view: Diagonal 30°, Horizontal 26°, Vertical 15°
PT Angle	Top Lens: Pan: 220°, Manual Tilt: 10°Bottom Lens: Pan: 324°, Tilt: 90°
Minimum Illumination	0.01 Lux @ (F1.6, 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	35 m

Video & Audio

Max. Resolution	2880 × 1620
Frame Rate	Max: 12fps; Self-Adaptive during network transmission
Video Compression	H.265 / H.264
Video Bit Rate	Quad-HD; Full-HD; Standard. Adaptive Bit Rate
Audio Bit Rate	Self-Adaptive
Max. Bitrate	4 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 20MHz
Security	WPA-PSK/WPA2-PSK, WPA3-Personal
Transmission Rate	11b: 11Mbps, 11g: 54Mbps, 11n: 72Mbps, 11ax: 114Mbps
Wi-Fi Pairing	AP pairing
Minimum Network Require-ment	4Mbps

Function

Smart Alarm	AI-Powered Human / Vehicle Shape Detection, Familiar Face Recognition (Supported by OTA)
Auto Tracking	Supports
Customized Alert Area	Supports
Two-way Talk	Supports
General Function	Anti-Flicker, Heart Beat, Password Protection, Watermark

Storage

Local Storage	Supports Local Storage (Up to 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-R100-3Mz

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%
Operating Conditions	-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 meter

General

Dimensions	HB90f: 135 × 136.5 × 229.5 mm Solar panel: 267.3 × 186.5 × 17.5 mm
Packaging Dimensions	300 × 220 × 229 mm
Net Weight	HB90f: 930g Solar panel: 428g
Weight with Package	2242g

In the box

- HB90f Triple Camera
- Solar Panel 8W
- Drilling Template
- Adjustable Mounting Bracket
- Screw Kit × 2
- Power Cable
- Regulatory Information × 3
- Quick Start Guide × 2

Certifications

CE / REACH / WEEE / RoHS

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