



HB90 Dual Kit

3K & 3K

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



HB90 Dual keeps your home safe outside—day and night, rain or shine. With two lenses and 3K clear video, it covers a full 360° view around your home and watches two areas at once. The built-in battery and solar panel work together to keep the camera always on, so you never have to worry about charging. Powered by AOV 2.0 technology, HB90 Dual records non-stop, spots movement from farther away, and automatically follows anything important—giving you complete peace of mind around the clock.



3K Panoramic Top Vision &
3K Close-Up Vision



Triple Motors for
Dual Rotations



10,400 mAh Rechargeable
Lithium Battery



8W High-Efficiency
Solar Panel Included¹



Always-On Video
Mode 2.0²



Co-Detection for Auto
Smart Tracking



Tap-To-Zoom Control



Local Familiar Face
Recognition³



AI Human Shape/
Vehicle Detection



Color Night Vision with
Balanced Image Exposure



Two-Way Talk



Customizable
Voice Alerts



Active Defense with
Sound & Light Strobe



Weatherproof
Design



Supports Wi-Fi
Network (2.4 GHz)



Supports microSD Card
(up to 512 GB) & Cloud Storage⁴

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.

1080P Resolution



3K Resolution



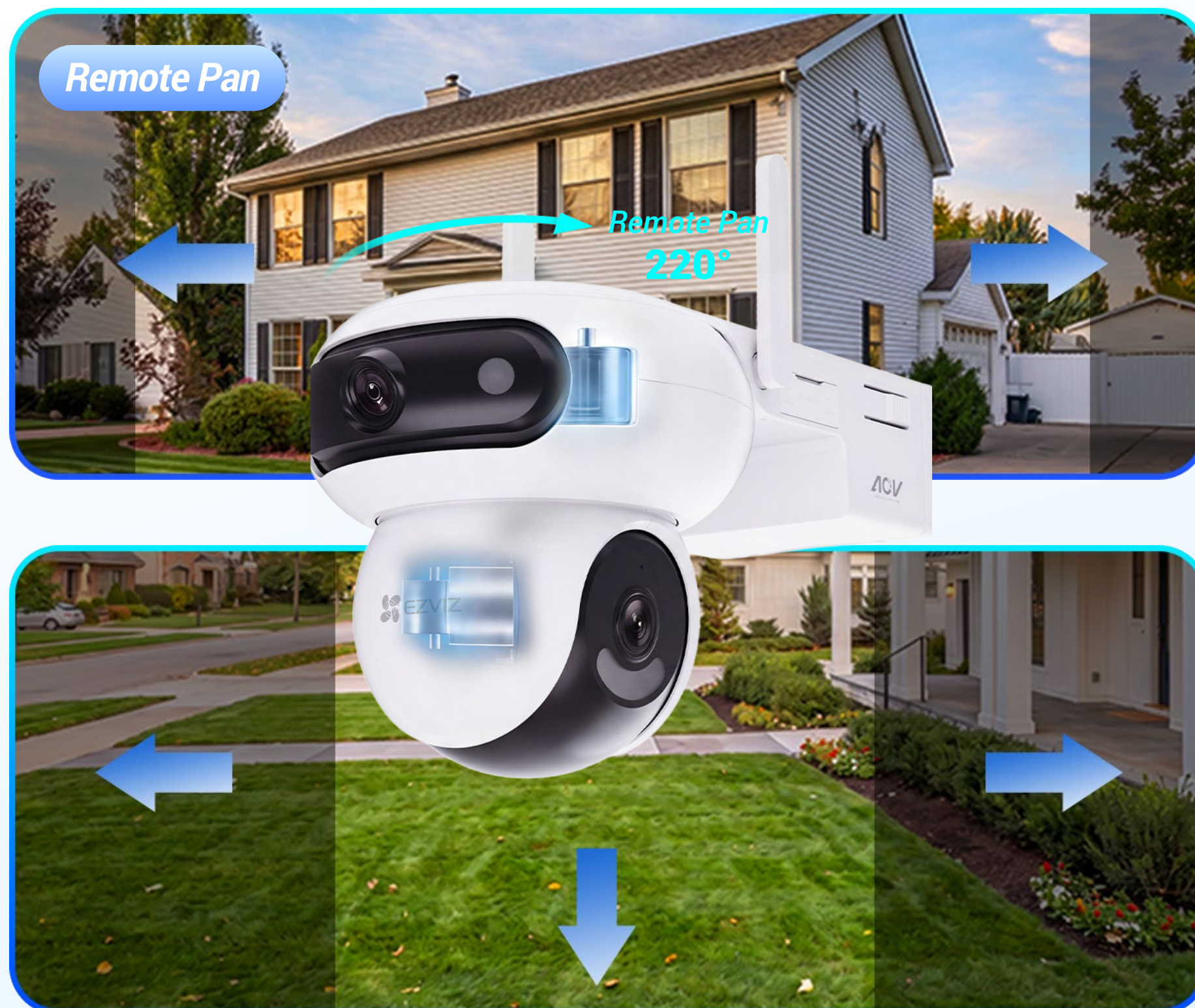
Triple Motors with Dual Rotations

Rotates Upper & Bottom Lenses Independently

Thanks to its innovative triple-motor design, the upper lens of HB90 can pan remotely while the bottom lenses keep protecting the main area, with no corner left unwatched.



EZVIZ Triple-Motor HB90 with Dual Rotations



VS

Most Dual-Motor Camera 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/2.8mm Wide-Angle View



4x Mixed Zoom



F/6mm 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.



Area 1 Garage

Area 2 Foreyard

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 HB90 Dual is smart enough to complete a complicated detection activity by involving two lenses at the same time.



Auto-Zoom Tracking on People

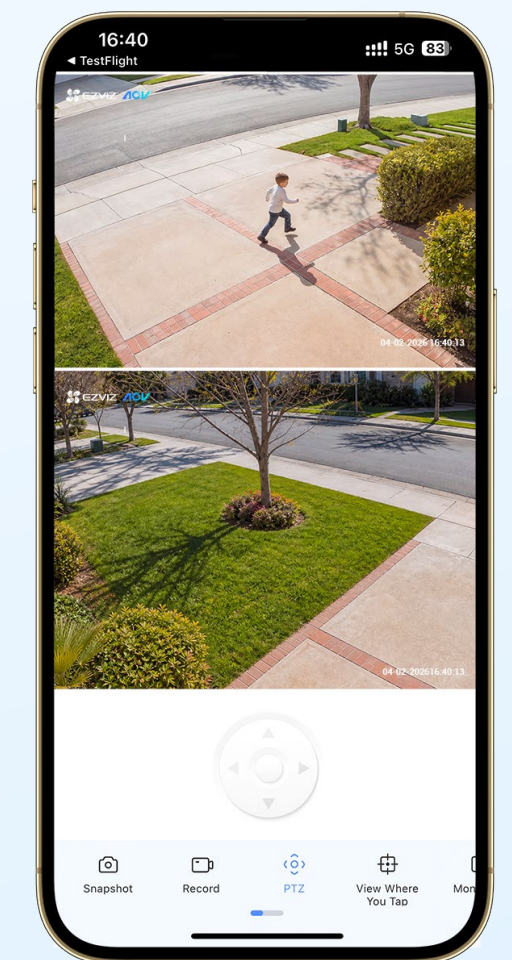
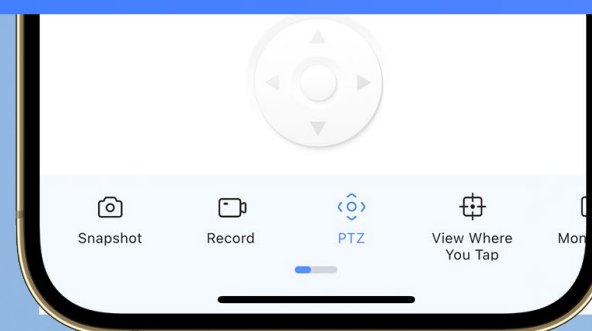


Dual-View Display with Panorama & Details

Step 1 The fixed lens detects human



Step 2 The moving lens tracks the moving person



Other Cameras
without Co-Detection



EZVIZ HB90 Dual with Co-Detection

Tap-To-Zoom Control

Clicks to Check with up to Close-Up Views

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.



Always-on Video Mode

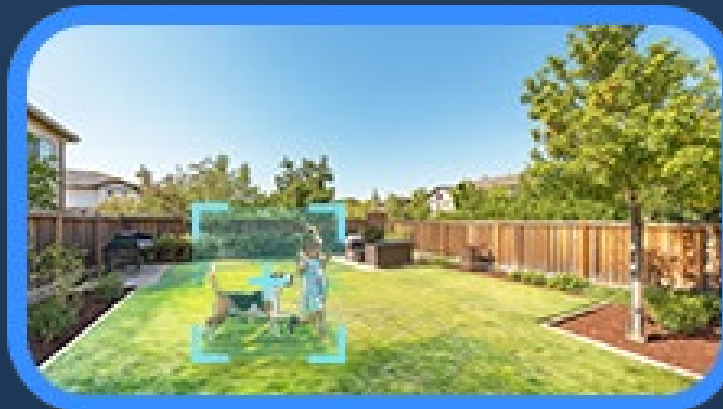
Upgrades Your Battery-Powered All-Day Recording

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?

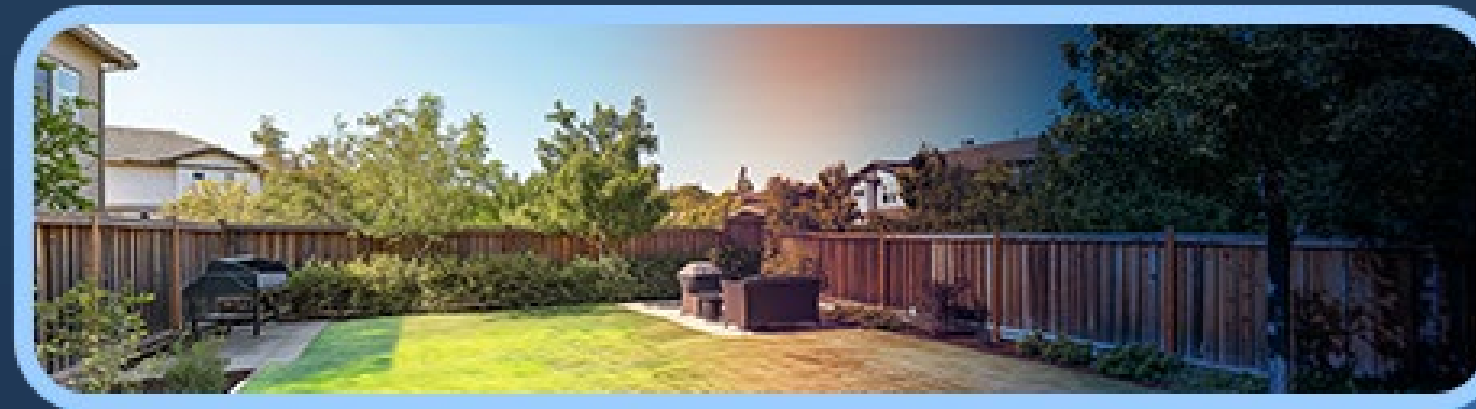
WITH AOV

15 images/second
Normal Speed



Human Detected

Smart Auto
Time-Lapse Video

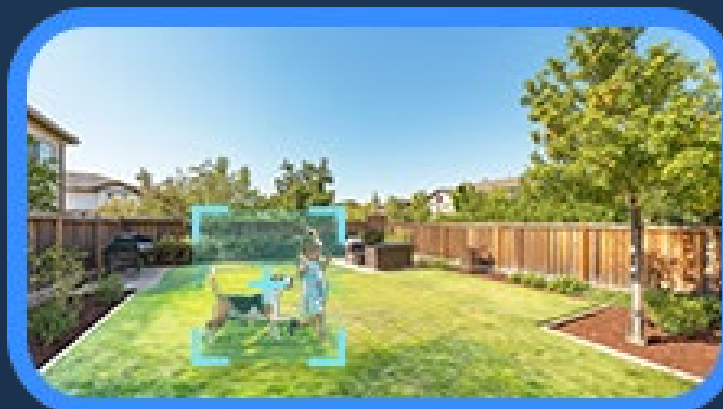


15 images/second
Normal Speed



Human Detected

WITHOUT AOV



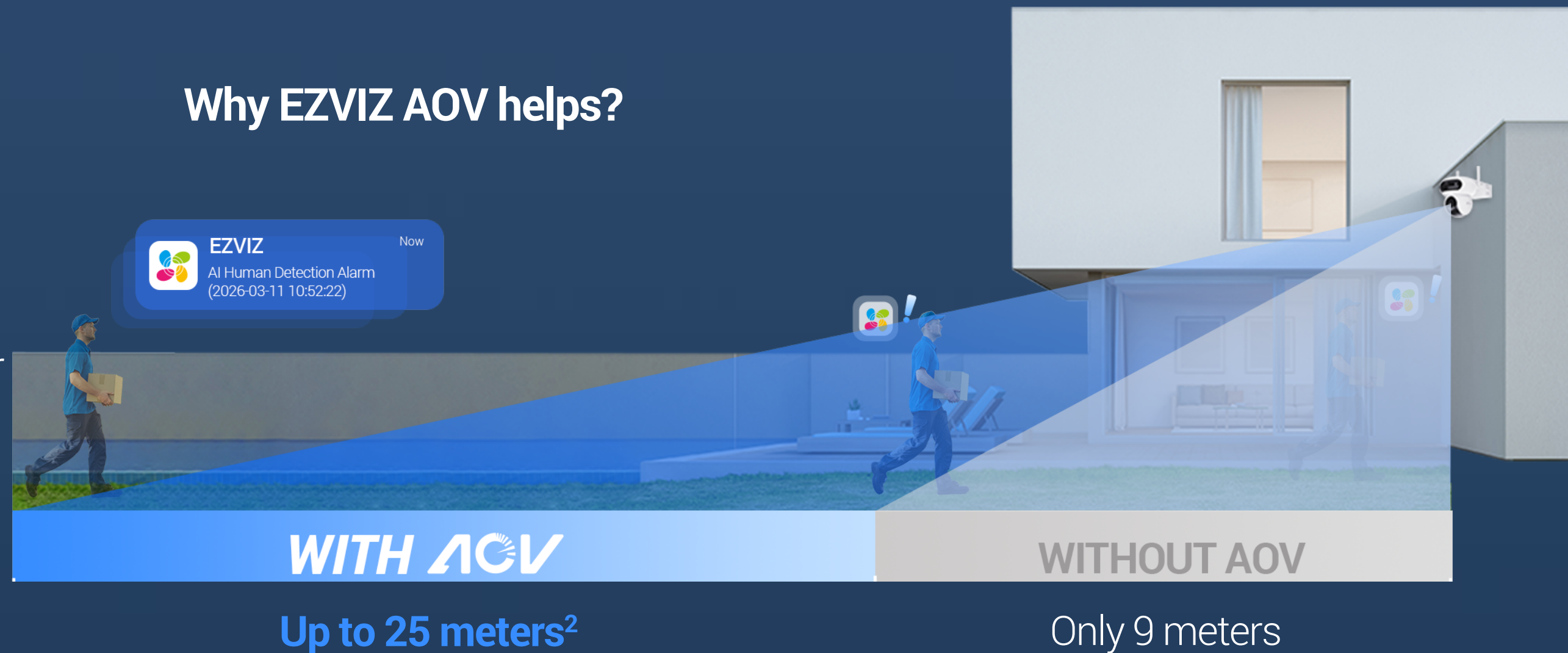
No Event = No Recording



Why EZVIZ AOV helps?

Wider Longer Detection Range

To see and respond to any activity earlier



10400 mAh Rechargeable Battery + 8W Solar Panel = All-Year 24/7 Continuous 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.³

Local & Free

Dad

Mommy

Louis

Amy



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)

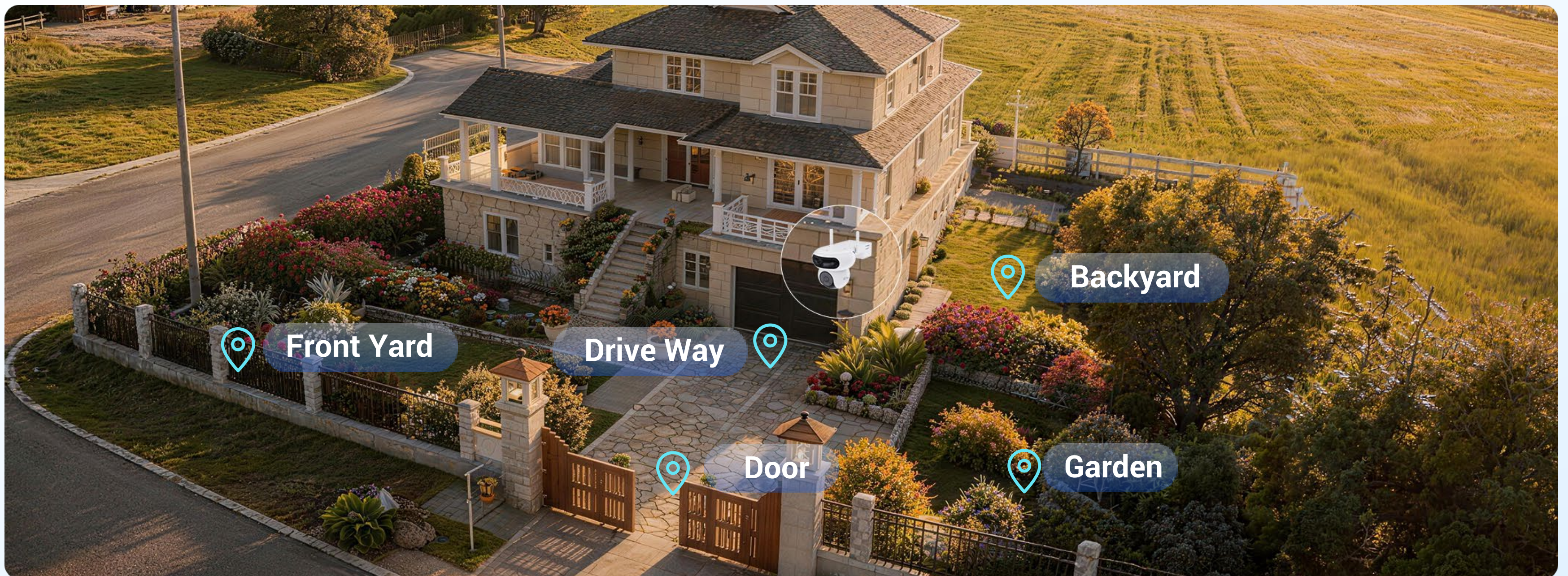
FREE No Subscription Fee



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.



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 HB90 Dual brings the night to life with vivid, full-color clarity, even in near-total darkness.



2 Spotlights | Full-Color Night Vision

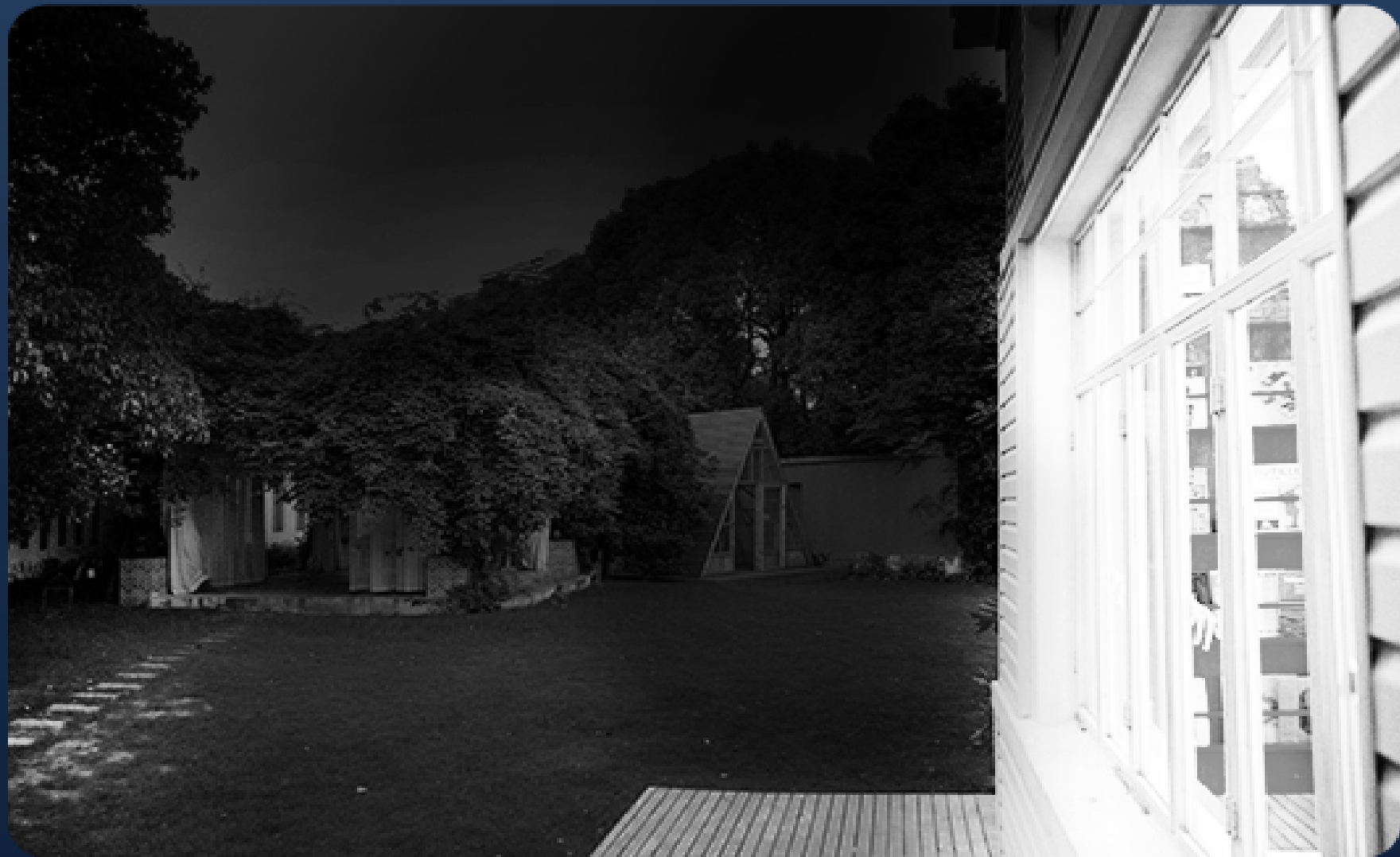


2 IR Lights | Black & White Night Vision

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 Sound & Light Strobe

Adds an Extra Layer of Protection for Your Home

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



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



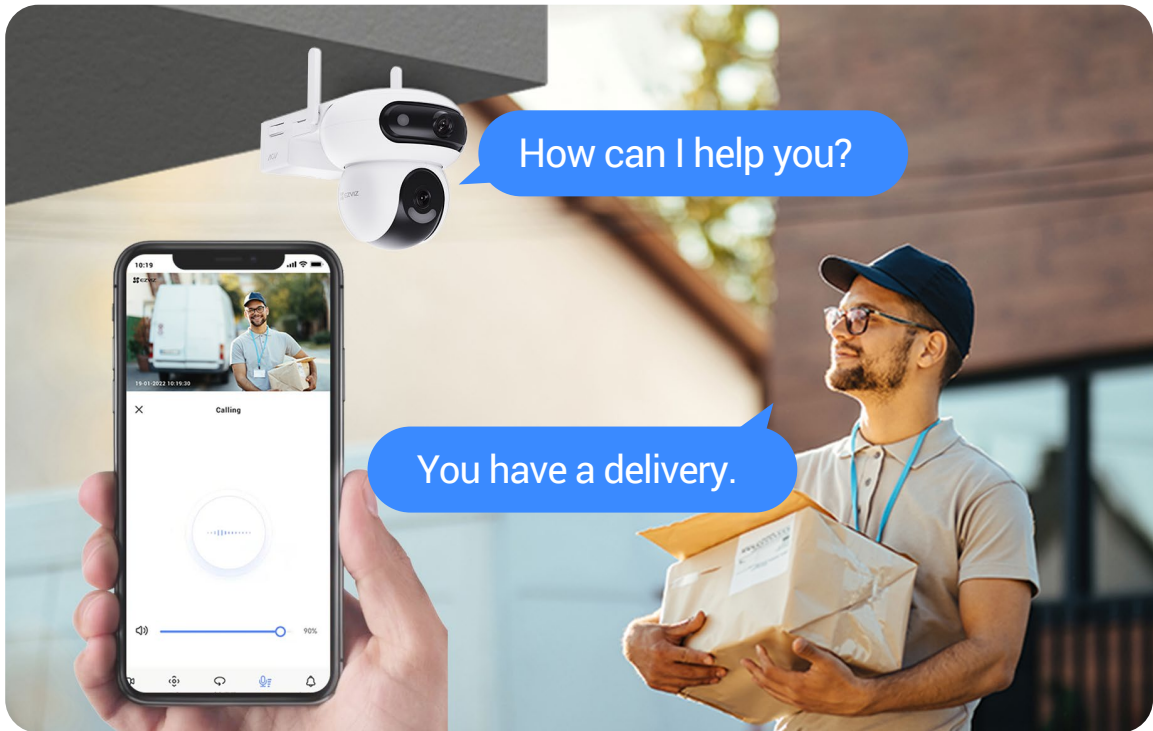
Pole Mount



Brings More Convenience for Extra Peace of Mind



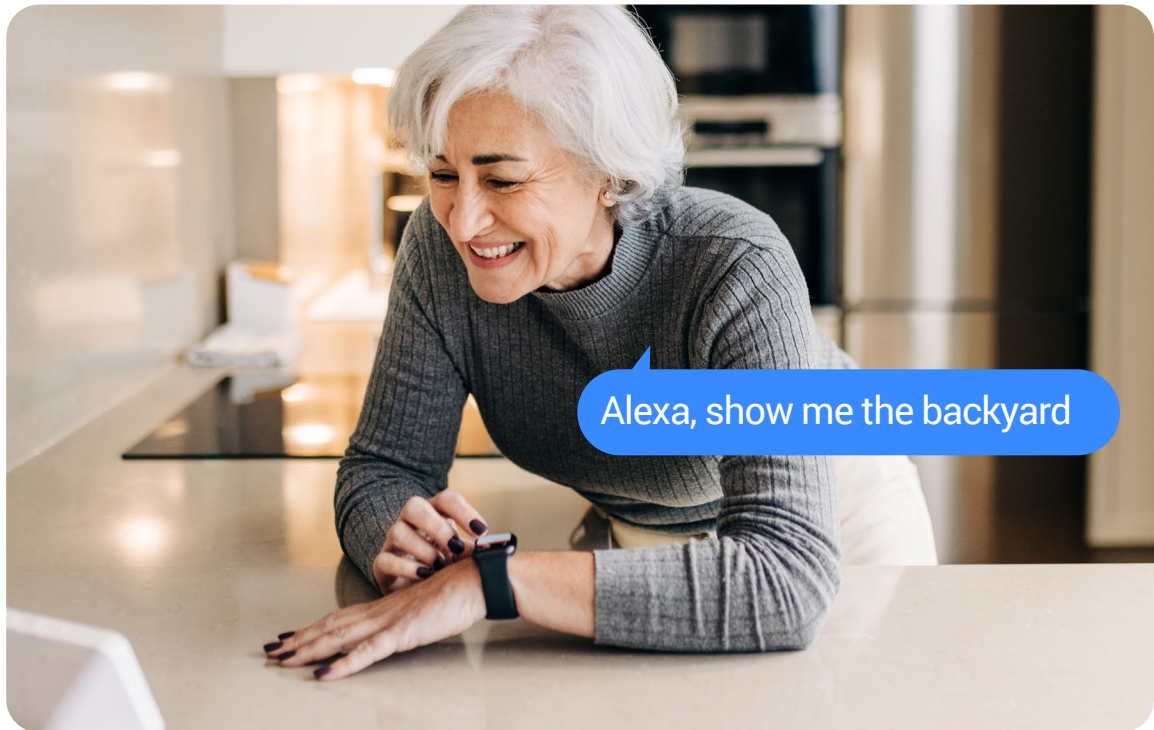
Weatherproof Design
Delivers Protection
Whenever Rain or Shine



Two-Way Talk
Responds to Visitors
with Your Phone



Wi-Fi Network (2.4GHz)
Enables Smooth Video Streaming



Smart Home Integration
Controls the Camera with Your Voice



Local & Cloud Storage
Saves Your Videos with Two Options



H.265 Video Compression
Enjoys Video Experiences with H.265⁵

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 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 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.
- 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 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.

Camera

Image Sensor	1/3" 5-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°, 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
Night Vision Distance	35 m

Video & Audio

Max. Resolution	2880 × 1620 pixel
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)

Network

Bluetooth	Supports
Wi-Fi Standard	IEEE802.11b, 802.11g, 802.11n

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 Requirement	5Mbps

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

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℃ ~ 60℃ (-4℉ ~140℉) Humidity 90% or less (non-condensing)
IP Grade	IP65
Solar Cell Type	Monocrystalline solar cells
Power Cable Length	3 meter

General

Dimensions	HB90: 135 × 136.5 × 229.5 mm Solar Panel: 267.3 × 186.5 × 17.5 mm
Packaging Dimensions	300 × 220 × 229 mm
Net Weight	HB90: 890g (31.39oz) Solar Panel: 428g (15.09oz)
Weight with Package	1930g (68.08oz)

In the box

- HB90 Dual 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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