EZVIZ™

H90f Triple

Triple-Lens Pan & Tilt Wi-Fi Camera



How EZVIZ's Triple-Lens Wi-Fi Camera Excels?

Triple 3K Lenses



Up to 12x Mixed Zoom



Ultra-Wide 360° Coverage



Co-Detection with Auto-Zoom Tracking on People / Vehicle



Local & Free Familiar Face Recognition



Smart Compression Mode for Video Storage



Dual-Band Wi-Fi (2.4 GHz / 5 GHz)



Active Defense with Red-Blue Warning Light[3]



Local & Cloud Storage[1]



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** H90f with **Dual Rotations**



Most Dual-Motor Camera 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.



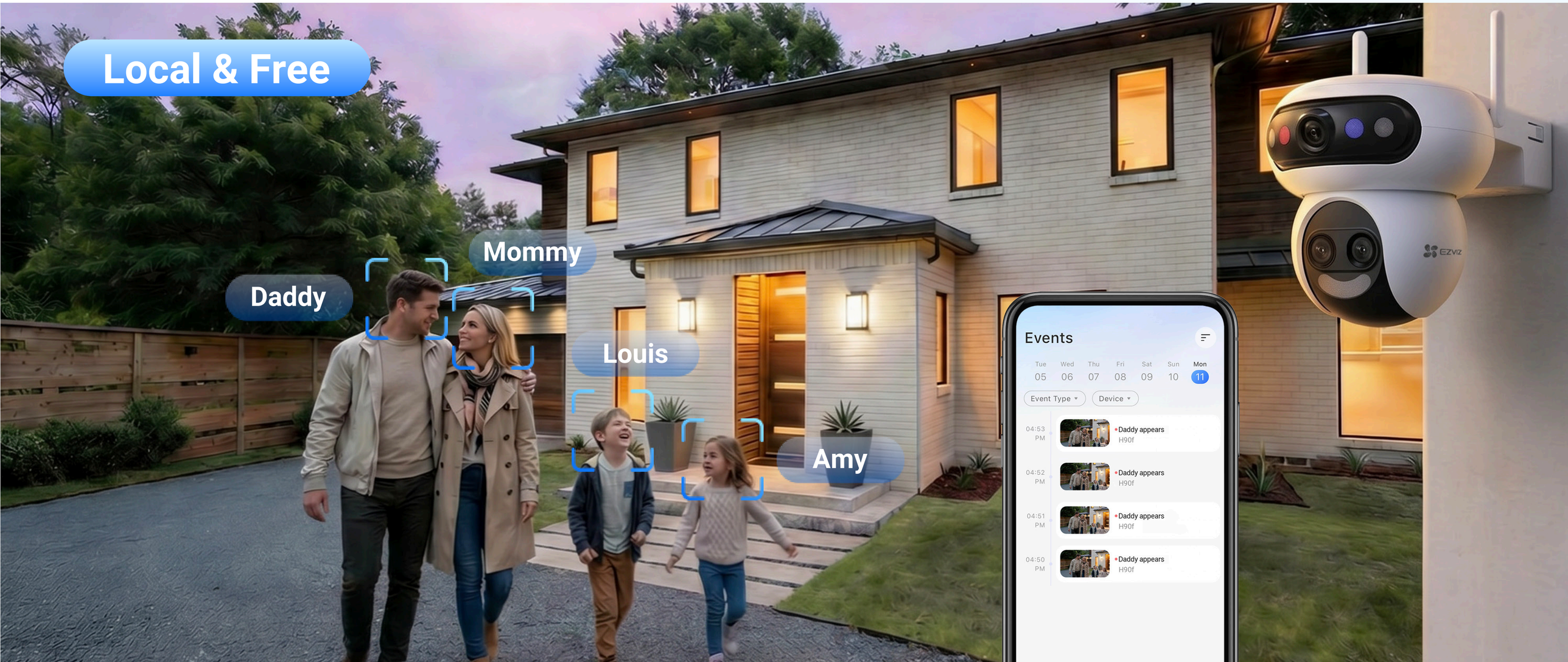
Local Familiar Face Recognition

Greets the Ones Matter to You Faster with Local AI

Now smarter than ever, the camera can tell when someone you know arrives at a distance[2] — making alerts more meaningful and less distracting.

Registers up to 30 familiar people

Stores up to 5 photos for each familiar person



AI 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.

Customizable Detection Zones

Accurate Detection Alerts





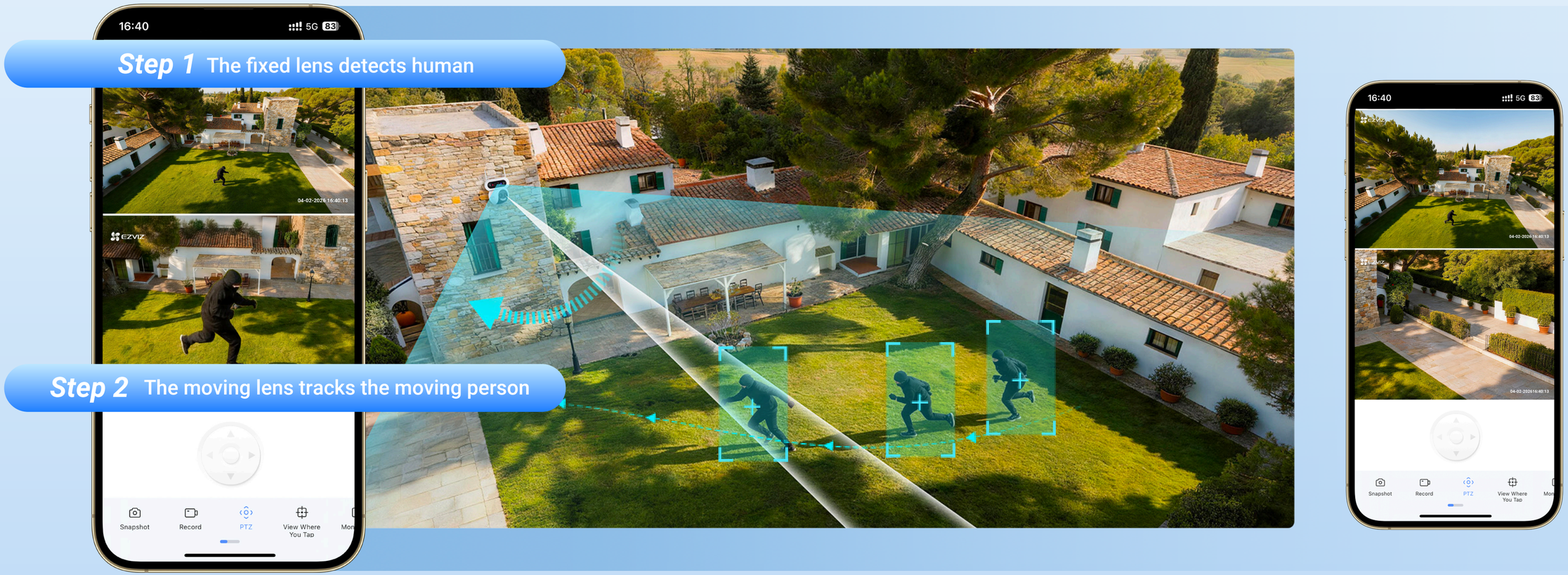
Triple-Lens Co-Detection

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 / Vehicle

Dual-View Display with Panorama & Details



EZVIZ H90f 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.



Auto Patrol Mode

Customizes Important Spots for Auto Security

Set up key spots you want the camera to watch, and it will automatically patrol between them at set intervals.



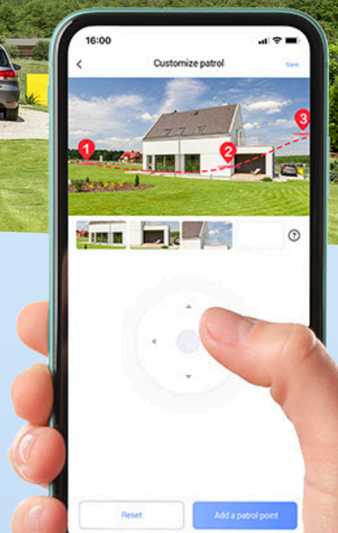
Patrol horizontally

Follow the 4 preset points









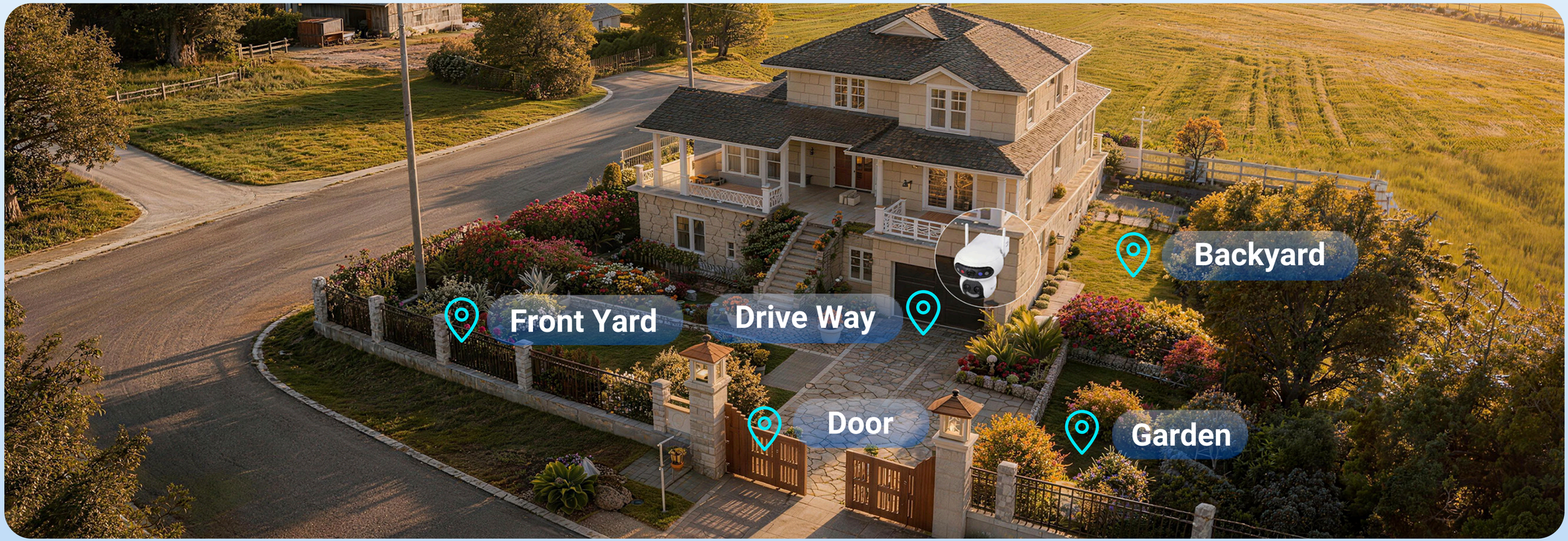
Preset Location & Zoom Ratio

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 Compression Mode for Video Storage

Enables True 24/7 Recording with Smart Storage Saving

With EZVIZ's enhanced saving mode with all-day recording, the camera captures just 1 frame per second during quiet moments to conserve storage. When an event is detected, it automatically switches to high-frame-rate recording for smooth, detailed videos.



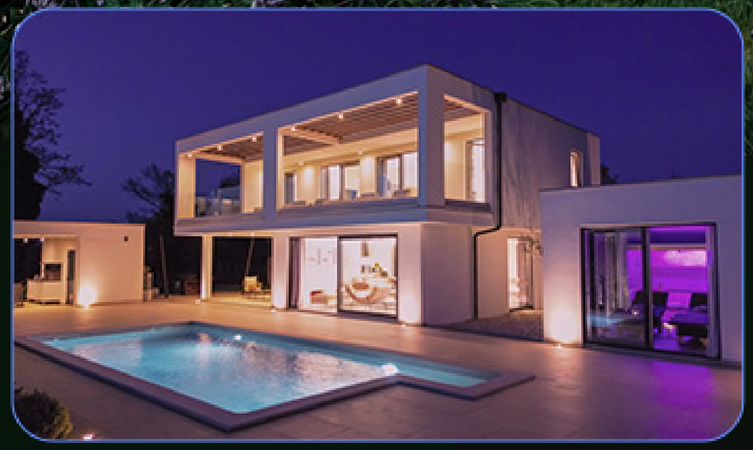
Smart Color Night Vision

Lights Up Your Night with Bright Colors

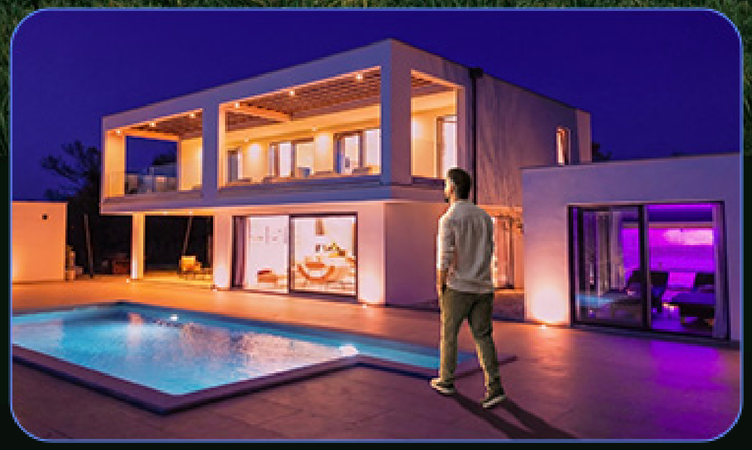
Say goodbye to blurry, washed-out night footage. Powered by built-in spotlights,
the H90f brings the night to life with vivid, full-color clarity, even in near-total darkness.

Up to 40M Color Night Vision

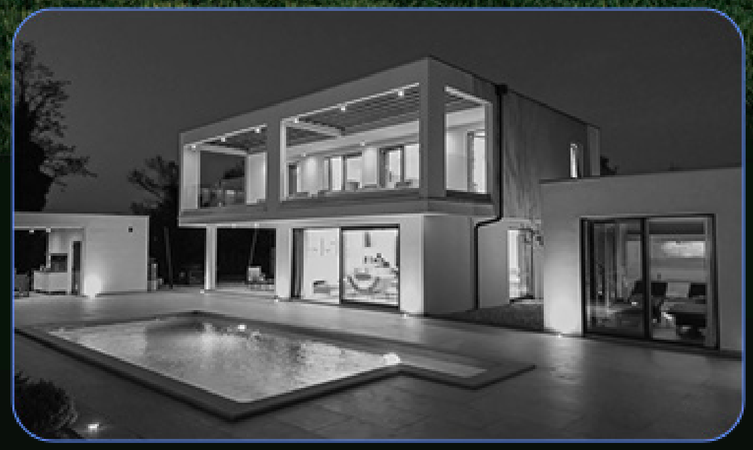
Full-Color Night Vision



Smart Color Night Vision



Black & White Night Vision



Balanced Image Exposure

Reveals 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

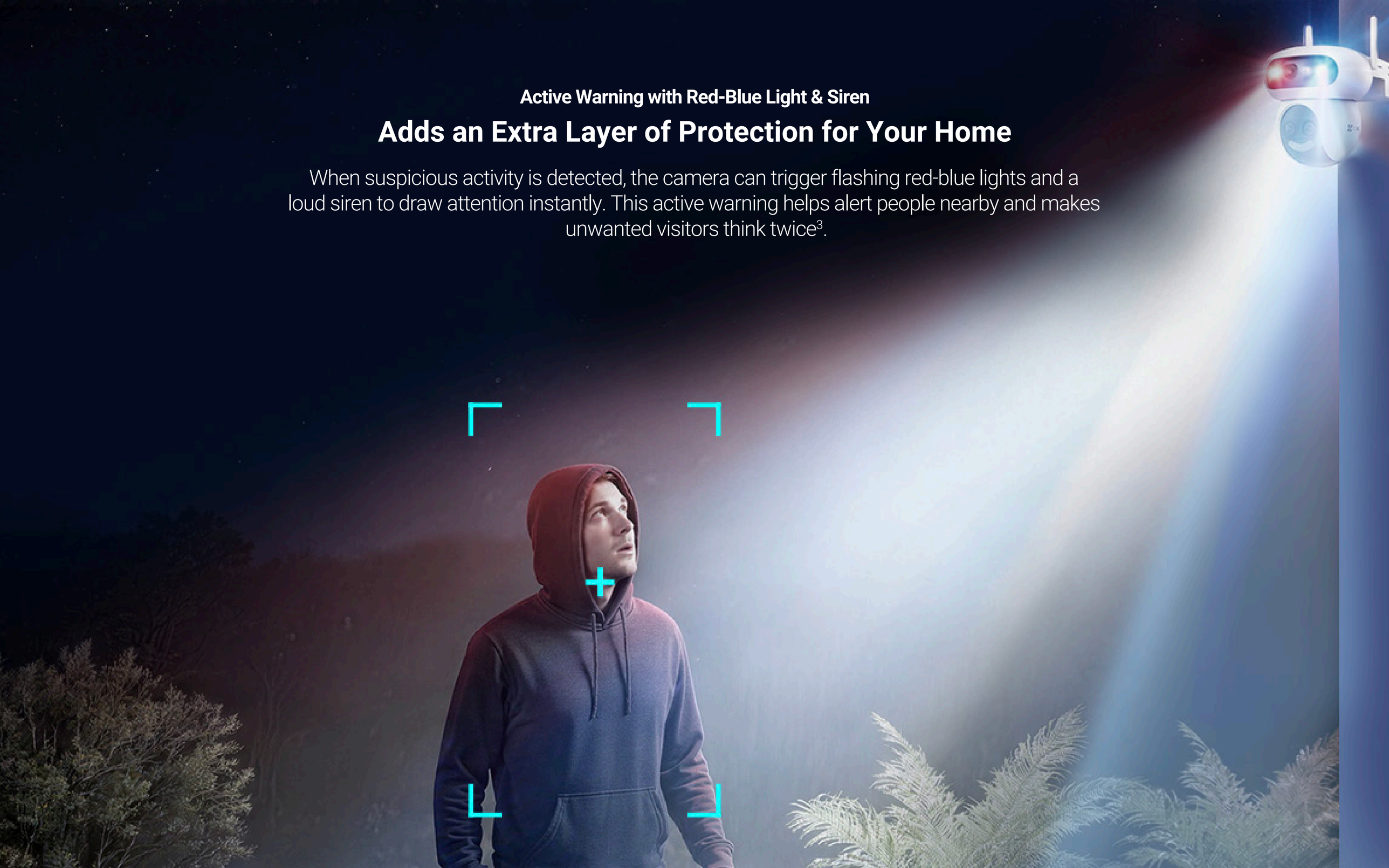


With adaptative smart light

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[3].



Wi-Fi Connectivity (2.4/5 GHz)

Enhances Live Feed For Lag-Free And Stable Clarity

With dual-band Wi-Fi, you can switch between 2.4 GHz and 5 GHz for smoother, faster streaming.
Paired with network stability, the camera maintains reliable connectivity wherever it’s installed.



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



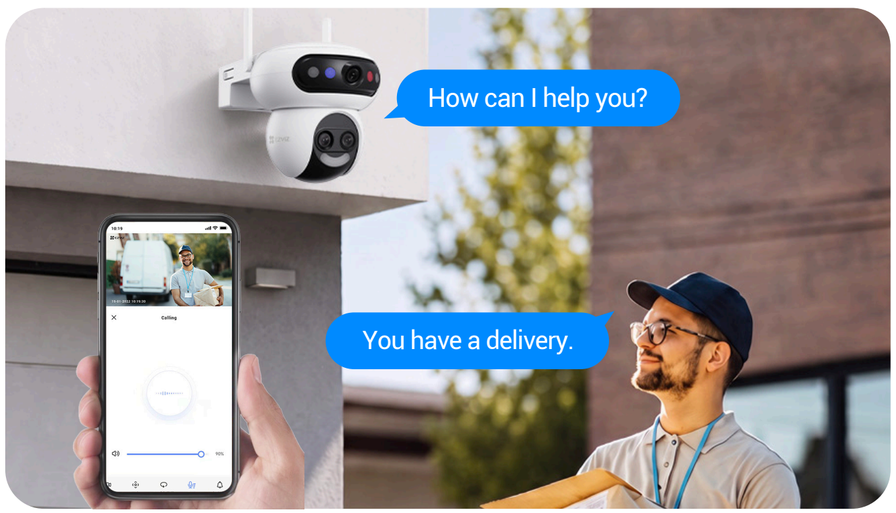
Ceiling Mount



Pole Mount

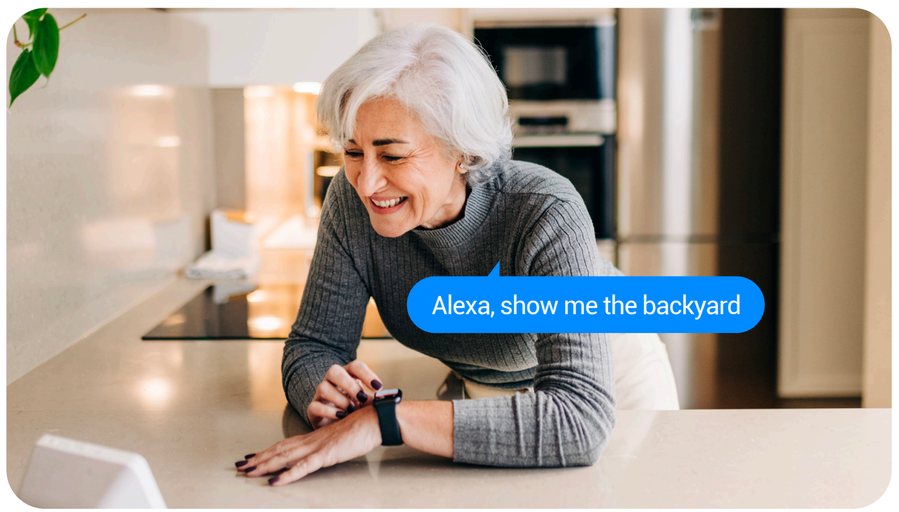


Brings More Convenience for Extra Peace of Mind



Two-Way Talk

Responds to Visitors with Your Phone



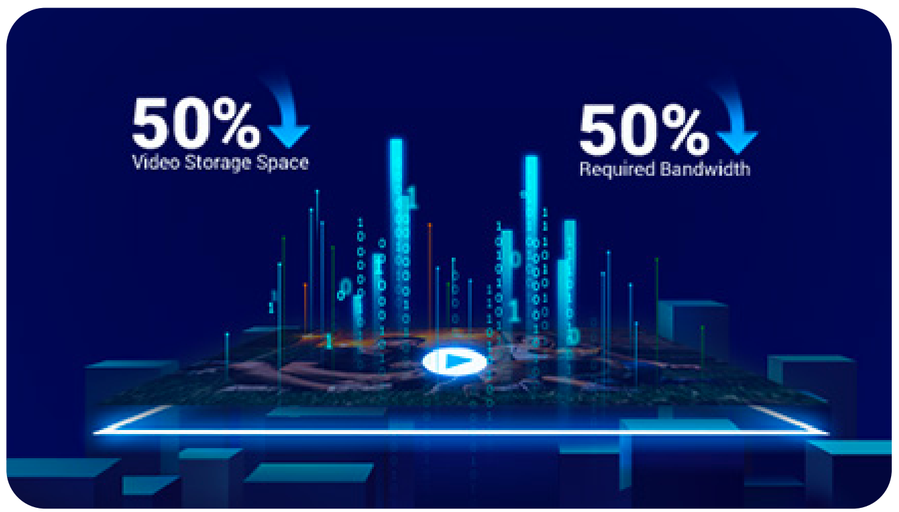
Smart Home Integration

Controls the Camera with Your Voice



Local & Cloud Storage[1]

Saves Your Videos with Two Options



H.265 Video Compression

Enjoys Video Experiences with H.265[4]

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 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.

2 The effective face recognition distance is dependent on the ambient lighting conditions and the specifications of the lens used.

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

4 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.

Specifications CS-H90f-R105-8GT5W

Camera

Image Sensor	1/3” Progressive Scan CMOS
Shutter Speed	Self-Adaptive Shutter
Lens	2.8 mm @ F1.6, viewing angle: 54° (Vertica), 96°(Horizontal), 110° (Diagonal) 6 mm @ F1.6, viewing angle: 28° (Vertica), 52° (Horizontal), 60° (Diagonal) 12 mm @ F1.6, viewing angle: 14° (Vertica), 25° (Horizontal), 29° (Diagonal)
PT Angle	Top Lens: Pan: 220°, Tilt: 10° (manual adjustment for vertical angle) Bottom Lens: Pan: 324°, Tilt: 90°
Minimum Illumination	0.05 Lux @ (F1.6, AGC ON), 0 Lux with IR (*data is obtained from EZVIZ laboratories)
Lens Mount	M12
Day & Night	IR-cut filter with auto switch
DNR	3D DNR
WDR	Digital WDR
BLC	Supports
Night Vision	30m / 98ft

Video & Audio

Max. Resolution	2880 × 1620 pixel
Frame Rate	Max.15fps Self-adaptive during network transmission
Video Compression	H.265 / H.264
H.265 Type	Main Profile
Video Bit Rate	Quad-HD; Full-HD; Standard Adaptive Bit Rate
Audio Bit Rate	Self-Adaptive

Network

Wi-Fi Standard	IEEE802.11a, 802.11b, 802.11g, 802.11n, 802.11ac, 802.11ax
Frequency Range	2.4 GHz ~ 2.4835 GHz, 5150MHz-5250MHz, 5250MHz-5350MHz, 5470MHz-5725MHz
Channel Bandwidth	Supports 20MHz@2.4G, Support 20/40/80MHz@5G
Security	WPA-PSK / WPA2-PSK
Transmission Rate	1b: 11Mbps, 11a/g: 54Mbps, 11n: 150Mbps, 11ac: 433Mbps, 11ax: 600Mbps
Wi-Fi Pairing	AP pairing
Protocol	EZVIZ Cloud Proprietary Protocol
Interface Protocol	EZVIZ Cloud Proprietary Protocol
Wired Network	RJ45 × 1(10M/100M Adaptive Ethernet Port)

Function

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

Storage

Local Storage	Supports Local Storage (Max. 512 GB)
Cloud Storage	Supports EZVIZ CloudPlay Storage (Subscription Required)

General

Operating Conditions	-30°C ~ 50°C, humidity 95% or less (non-condensing)
Power Supply	DC 12V / 1.5A
Power Consumption	Max. 18W
Dimensions	136 × 134 × 225 mm (5.35 × 5.28 × 8.86 inch)
Packaging Dimensions	255 × 176 × 194 mm (10.04 × 6.93 × 7.64 inch)
Weight	Product: 751 g (26.49 oz) With Package: 1176 g (41.48 oz)

In the box

- H90f Triple Camera × 1
- Drilling Template × 1
- Adjustable Mounting Bracket × 1
- Screw Kit × 1
- Waterproof Cap Component × 1
- Power Cable × 1
- Regulatory Information × 2
- Quick Start Guide × 1

Certifications

CE / REACH / WEEE / RoHS

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