EZVIZ™

H90 Dual

3K & 3K

Dual-Lens Pan & Tilt Wi-Fi Camera



The H90 Dual is an outdoor security camera designed to give you full awareness of what's happening around your home without missing important details, combining a wide panoramic view with a flexible close-up lens in a single device, so you can see the whole scene clearly while still capturing critical moments in detail, enhanced by high-resolution imaging andactive warning lights that help deter unwanted activity, and built to stay reliable even in unstable network conditions to keep your home protected at all times.

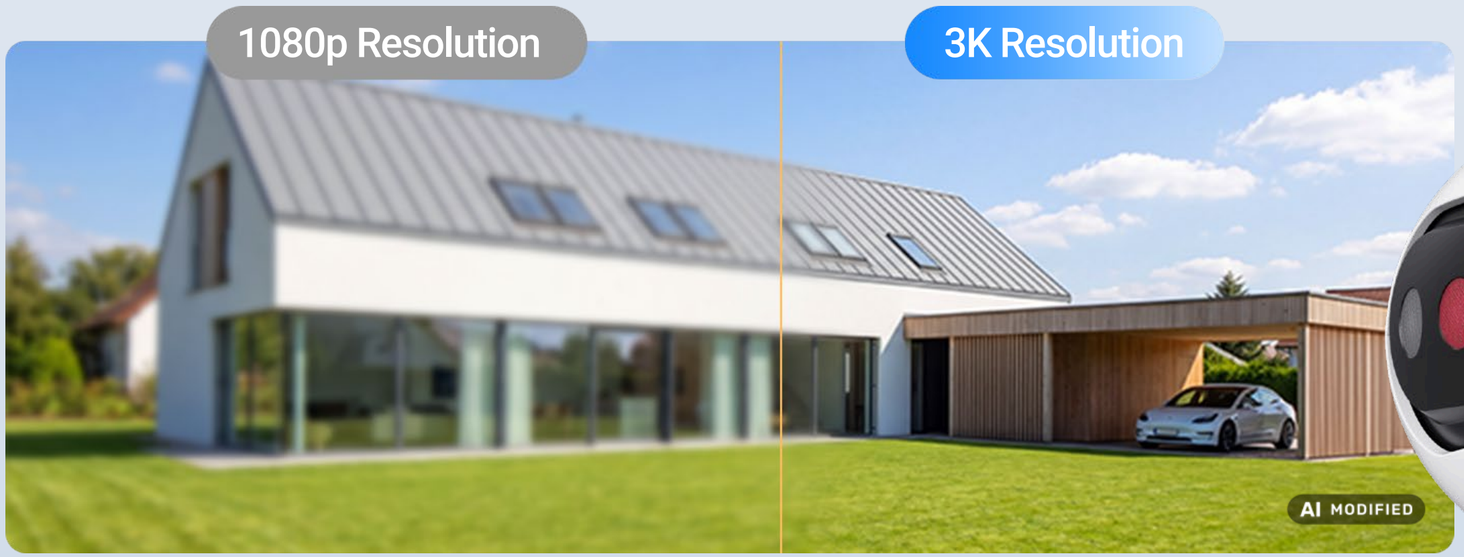
Key Features

- 3K Panoramic Top Vision & 3K Close-Up Vision
- Triple Motors for Dual Rotations
- Co-Detection for Auto Smart Tracking
- Tap-to-Zoom Control
- Two Patrol Modes for Auto Security
- AI Human Shape / Vehicle Detection
- Weatherproof Design
- Color Night Vision with Balanced Image Exposure
- Active Defense with Siren and Red-Blue Warning Light
- Supports Local Storage (up to 512 GB) & Cloud Storage[1]
- H.265 Video Compression
- Dual-Band Wi-Fi (2.4 GHz / 5 GHz)

Dual 3K Lenses

Reveals the Details You've Been Missing in 3K

Enhanced with dual 3K lenses, your view gets a major clarity boost beyond 1080p resolution, making it easier to see fine details and keep track of everything, even from afar.





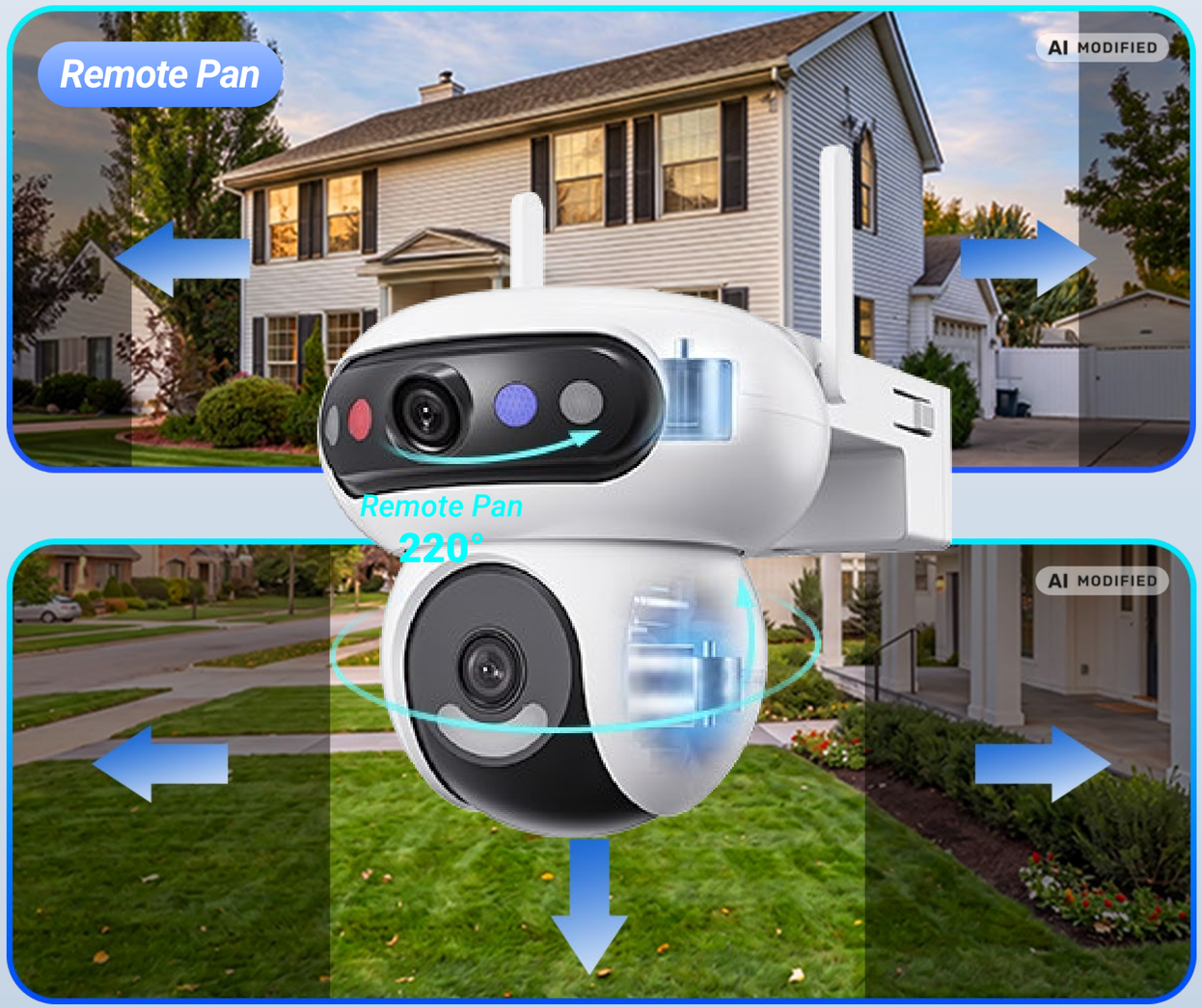


Triple Motors with Dual Rotations

Rotates Upper & Bottom Lenses Independently

Thanks to its innovative triple-motor design, the upper lens of H90 can pan remotely while the bottom lenses keep protecting the main area, with no corner left unwatched.

EZVIZ **Triple-Motor** H90 Dual with **Dual Rotations**



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 on eye on your space.

Scenario 1

Dual Lenses to See Wide & Clear



Scenario 2

Dual Lenses to See Back & Front



Tap-to-Zoom Control

Clicks to Check with 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.



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 H90 Dual is smart enough to complete a complicated detection activity by involving two lenses at the same time.



EZVIZ H90 Dual with Co-Detection

Other Cameras without Co-Detection

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.

AI-Powered Human Shape Detection (on Both Lenses)

AI-Powered Vehicle Shape Detection (on Both Lenses)

FREE No Subscription Fee





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

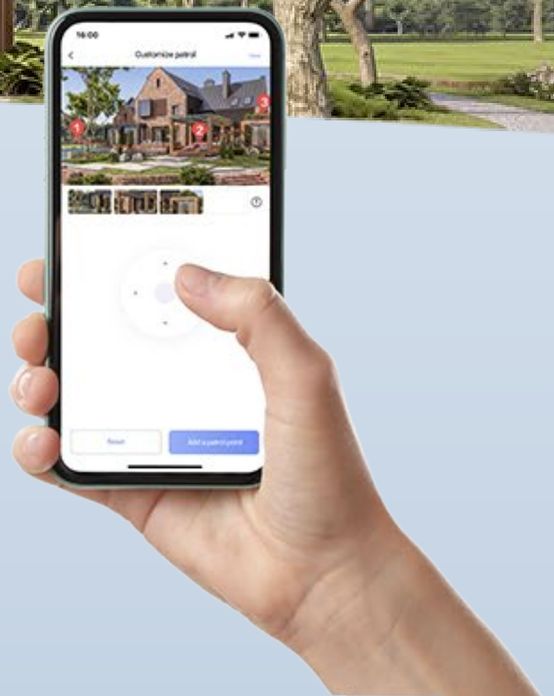
Follow the 4 Preset Points











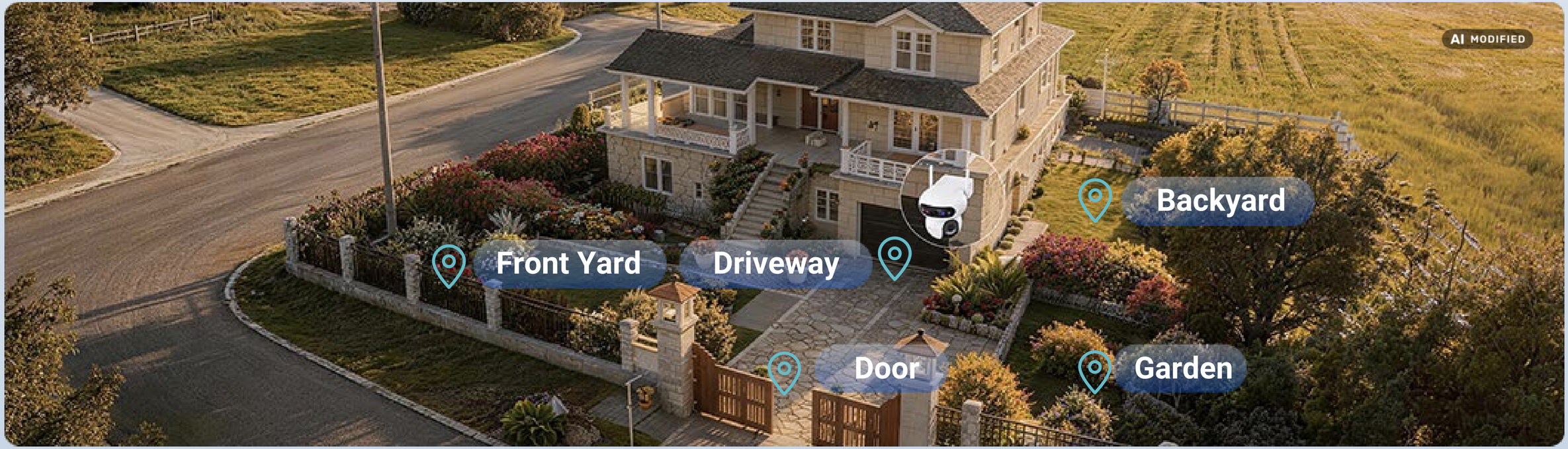
Preset Location & Zoom Ratio

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

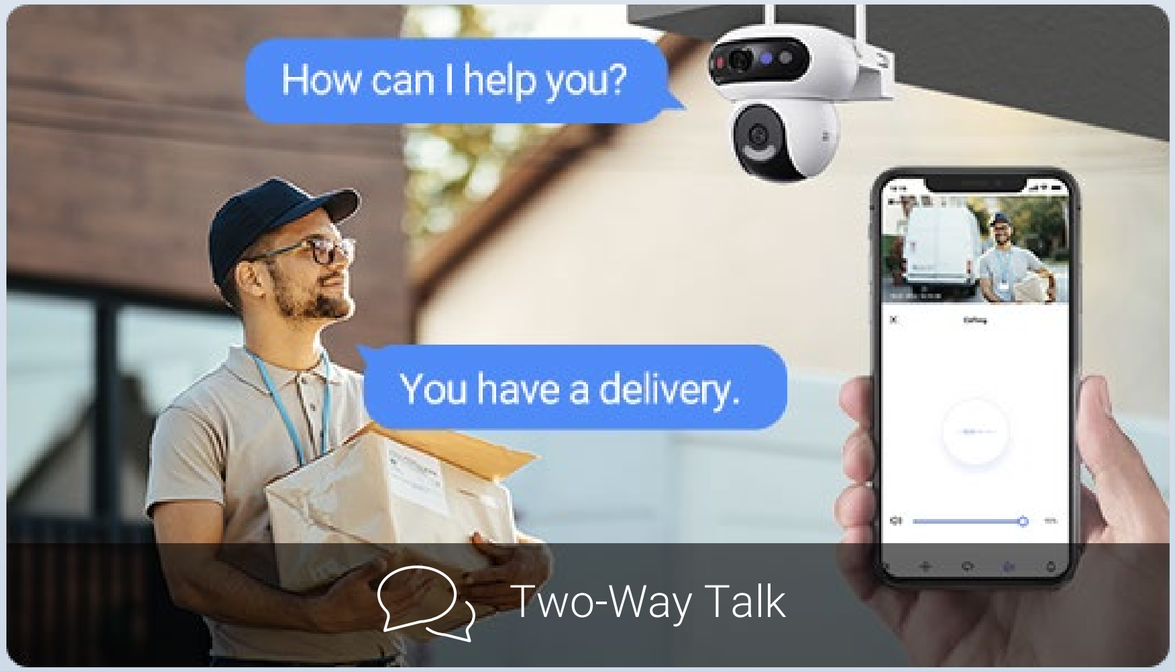
Saves Zoom Ratios for Each Angle

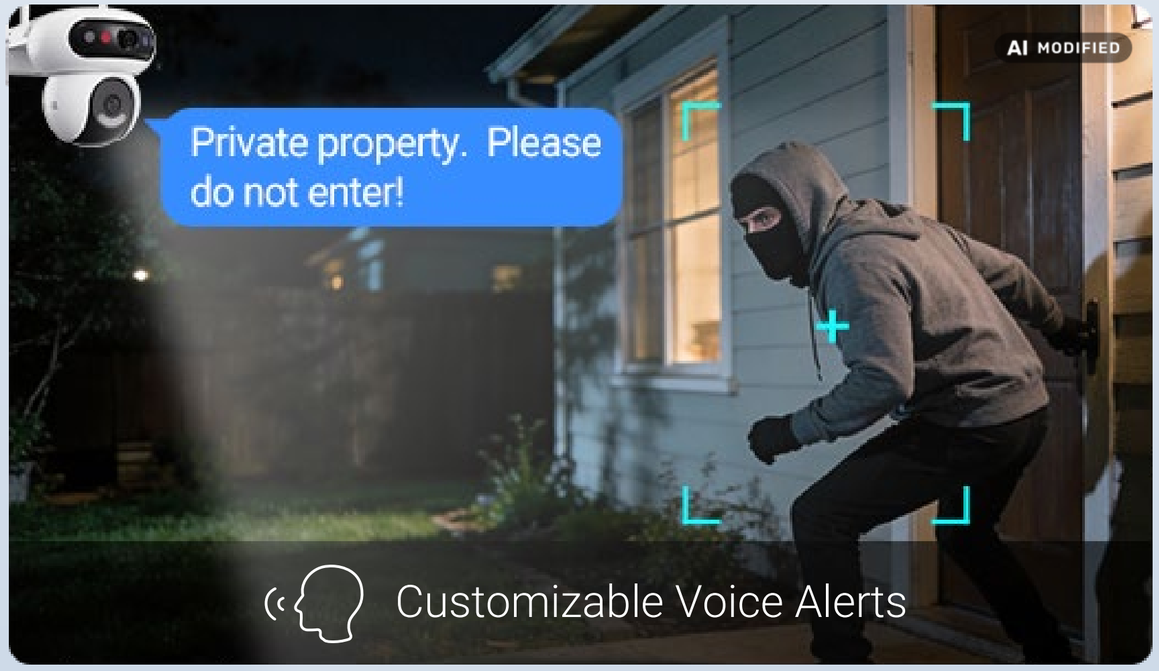


Two-Way Talk

Responds to Visitors with Tailored Voice Alerts

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.



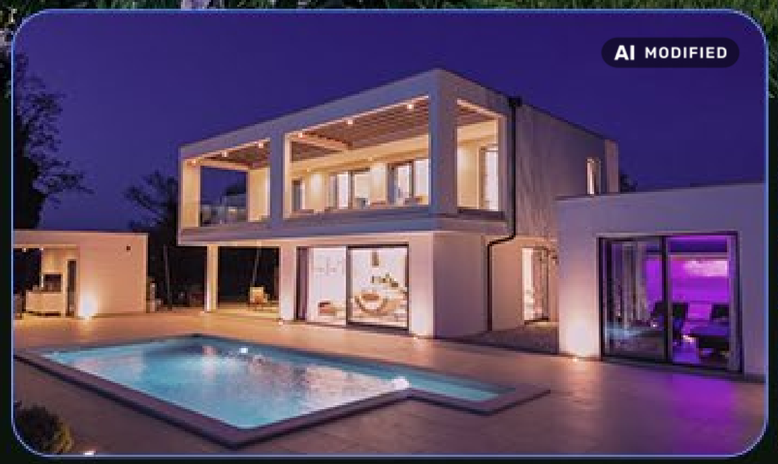


Smart Color Night Vision

Lights up Your Night with Bright Colors

Say goodbye to blurry, washed-out night footage. Powered by built-in spotlights, the H90 Dual brings the night to life with vivid, full-color clarity, even in near-total darkness[2].

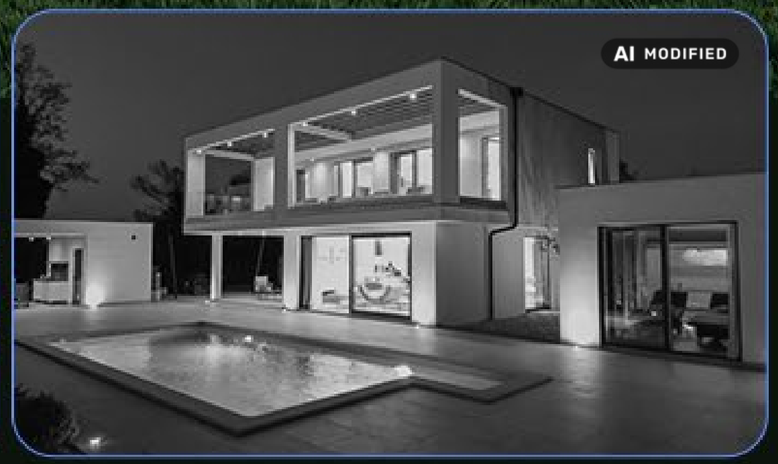
Up to **40M** Color Night Vision



2 Spotlights



Auto Switch upon Motion Detection



2 IR Lights

Balanced Image Exposure

Smartly Adapts for Even and Clear Images

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.

Smartly Reduces Brightness to Avoid Overexposure

Automatically Boosts Image Gain to See Dark Details





VS





Without adaptative smart light

With adaptative smart light

AI MODIFIED

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]



Dual-Band Wi-Fi (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. Combined with enhanced connection stability, the camera maintains reliable connectivity wherever it’s installed.



Brings More Convenience for Extra Peace of Mind



Local & Cloud Storage[1]

Saves Your Videos with Two Options



High-Performance Dual Antennas

Boosts Wi-Fi Coverage for Larger Homes[4]



H.265 Video Compression

Enjoys Video Experiences with H.265[5]

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 If the two lenses point in the same direction, the maximum color night vision range is 40 meters. If this is not the case, the maximum distance is 30 meters, based on EZVIZ Lab test results under standard conditions.

3 The red-blue warning light is off by default and can be turned on or off via the EZVIZ App.

4 Data from EZVIZ Lab's test results in open environments. The performance may vary depending on the Wi-Fi frequency, camera location, transmission technology, and other environmental factors.

5 Data from EZVIZ Lab’s test results under standard conditions. Actual video compression efficiency may vary depending on scene complexity, motion frequency, lighting conditions, and other environmental factors.

Specifications CS-H90-R105-8H55WKFL

Camera

Image Sensor	1/3 ” Progressive Scan CMOS
Shutter Speed	Self-adaptive shutter
Lens	Top Lens: 2.8mm @ F1.6, Field of view : Diagonal 110°, Horizontal 96°, Vertical 54° Bottom Lens: 6mm @ F1.6, Field of view : Diagonal 60°, Horizontal 52°, Vertical 28°
PT Angle	Top Lens: Pan: 220°, Tilt: 10° (manual adjustment for vertical angle) Bottom Lens: Pan: 324°, Tilt: 90°
Minimum Illumination	0.5 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
Night Vision	Up to 40 m (131 ft) when two lenses point in the same direction

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	Ultra-HD; Hi-Def; Standard. Adaptive bit rate.
Audio Bit Rate	Self-Adaptive

Network

Wi-Fi Standard	IEEE802.11a, 802.11b, 802.11g,802.11n,802.11ac
Frequency Range	2.4 GHz ~ 2.4835 GHz,5150MHz-5250MHz,5250MHz-5350MHz, 5470MHz-5725MHz
Channel Bandwidth	Support 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(10 M / 100 M adaptive Ethernet port)

Function

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

Storage

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

General

Operating Conditions	-30°C to 50°C (-22°F to 122 °F) Humidity 95% or less (non-condensing)
IP Grade	Weatherproof Design
Power Supply	DC 12V / 1.5A
Power Consumption	Max. 18 W
Dimensions	224 × 135 × 136 mm (8.82 × 5.31 × 5.35 inch)
Packaging Dimensions	255 × 176 × 194 mm (10.04 × 6.93 × 7.64 inch)
Weight	Net Weight: 760 g (26.81 oz) With Package: 1423 g (50.19 oz)

In the box

- H90 Dual Camera × 1
- Drilling Template × 1
- Adjustable Mounting Bracket × 1
- Screw Kit × 2
- Power Cable × 1
- Regulatory Information × 3
- Quick Start Guide × 2

Certifications

CE / REACH / WEEE / RoHS

Specifications are subject to change without notice. " ™", " EZVIZ" and other trademarks and logos are the properties of EZVIZ in various jurisdictions.

www.ezviz.com