



# H90 Dual 2K+ & 2K+

## Dual-Lens Pan & Tilt Wi-Fi Camera

### Dual cameras, dual rotations

Another innovation in the EZVIZ star range of dual-lens cameras, the H90 Dual is taking 360-degree protection to a whole new level by combining two rotating lenses in a single housing. Its orb-shaped camera inherits the beloved features from EZVIZ's pan/tilt series, and its UFO-shaped top camera adds another sweeping, ultra-wide field of view to leave no corner unwatched. The two boast additional smartness by responding to each other to complete interlinked detection and view change. In short, the H90 Dual provides unparalleled vision and efficiency for large-area monitoring.



2K+ & 2K+  
Dual Lenses



Dual Rotations  
for Ultra-Flexible  
Vision



Co-Detection  
for Auto Smart  
Tracking



One-Tap Control  
for Linked View  
Change



Two Patrol Modes  
for Auto-Security



360° Panoramic  
View



AI-Powered Human  
/ Vehicle Shape  
Detection



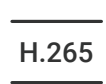
Active Defense  
with Siren &  
Strobe Light



Color  
Night Vision



Two-Way Talk



H.265 Video  
Technology



Enhanced Dual  
Wi-Fi Antennas



Weatherproof  
Design



Easy Installation



Smart Integration  
with Google Assistant  
& Amazon Alexa<sup>1</sup>



Supports MicroSD  
Card (Up to 512 GB) &  
EZVIZ CloudPlay Storage<sup>2</sup>



## Smart robotic power doubled in one

Equipped with the EZVIZ's dual-lens technology, the H90 Dual unprecedentedly uses three motors to ensure both cameras can smoothly swirl to reduce blind spots as much as possible. This two-camera system can secure two separate, wide areas simultaneously, or record the same activity with far more details.



Triple Motors to  
Change Scenes Easily



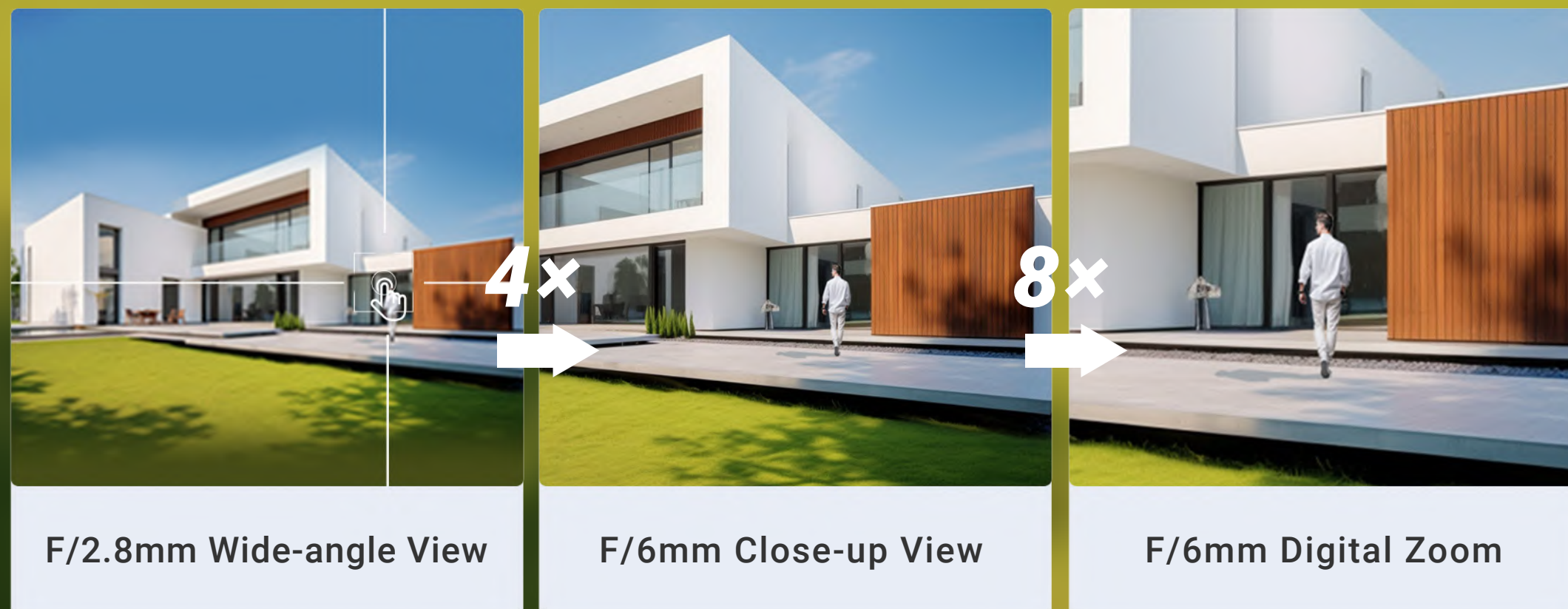
Flexible Rotations to Fit  
Various Installation Conditions



## Big and small, all truthfully captured in 2K+ resolution

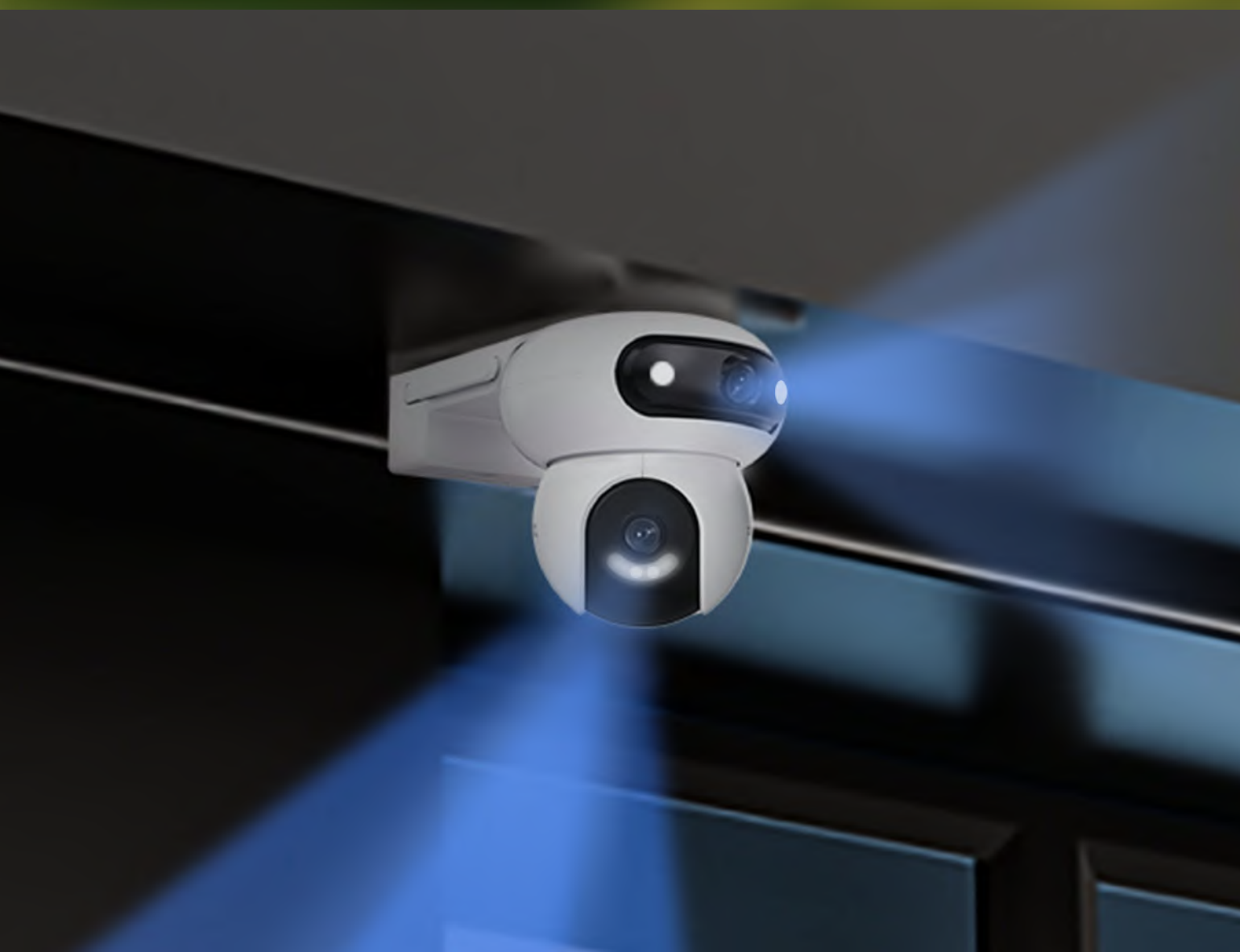
Let the H90 Dual enhance your sight to see both far and nearby, so you don't skip anything important. You can adjust the upper lens to keep a continuous watch on the big picture of a key area, and use the lower lens to secure what matters to you most.





## Click to check, with both wide and close-up views

Understand the whole, big picture while paying attention to the important details, by using the EZVIZ App. You can tap the area of interest on the wide-angle viewing box, so a close-up view will be shown on the side at the same time.



## Co-action technology ready for a complex activity

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.

### Co-Detection for Auto Smart Tracking



#### Step 1

**The top lens** detects a moving person in its ultra-wide 110° view



#### Step 2

**The bottom lens** rotates and follows the moving person

## Fully-automated rotation for extended peace of mind

On set time intervals, the lower lens can complete rotational check-ups to eliminate blind spots. You can customize patrol routes for tailored focuses, or simply ask it to complete a full-circle spin.



## Smarter alerts on the comes and goes

In addition to capturing human activities with a wealth of information, the H90 Dual recognizes the shape of a car from other moving objects. If your family member pulls up in front of your driveway or someone parks in your detected area, you will be notified immediately.



AI-Powered Human  
Shape Detection  
(On both lenses)



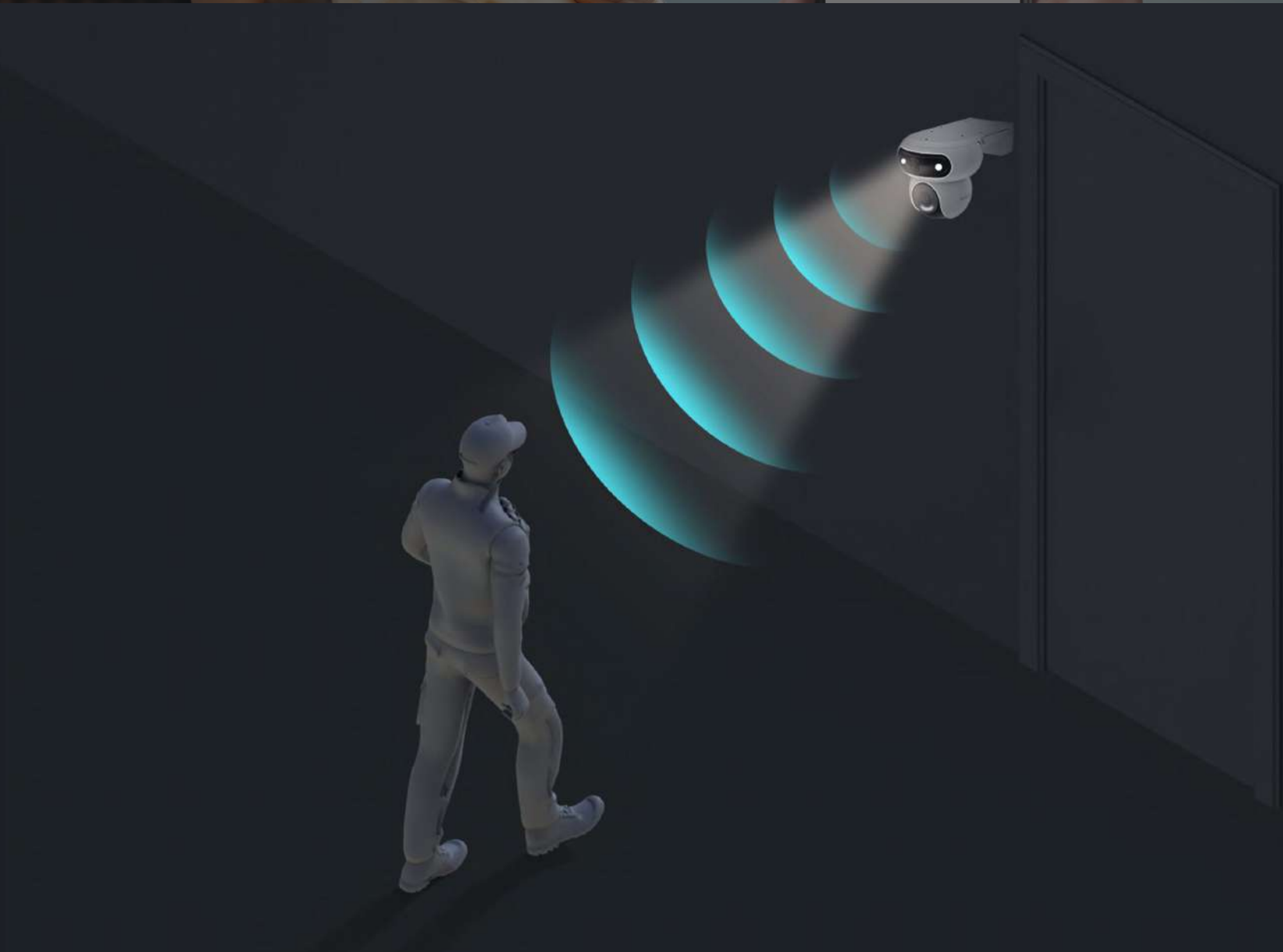
AI-Powered Vehicle  
Shape Detection  
(On both lenses)

**FREE**

No Subscription  
Fee

## Communications can be this easy

Enjoy two-way audio by simply using your smartphone. Or, pre-record a 10-second voice message that automatically plays upon human motion detection.



## A vigilant guard who works around the clock

The H90 Dual integrates EZVIZ's beloved active defense function to provide an extra layer of protection. Upon detection of intruders, the camera will set off a loud siren and flash two spotlights to warn them away.

## Designed to make protection last all night

# 01

### *Far-reaching color night vision*

With its F1.6 large-aperture lens and four built-in spotlights, the H90 Dual provides full-color night vision within an impressive range of up to 40 meters.<sup>3</sup> Nothing will easily escape your sight despite the cover of darkness.



# 02

### *Three night vision modes at your choice*

#### **Full-color mode**

Enable the spotlights to illuminate a completely dark environment for vivid details throughout the night.

#### **Black-and-white mode**

Use the infrared night vision if you don't want the strong lighting to disturb your neighbors.

#### **Smart mode**

Or, let the camera decide. A detected motion will trigger it to switch on the lights automatically.



## A durable design with versatile setups

Designed to satisfy security demands under various scenarios, the H90 Dual can easily find its best location to deliver steady, reliable performance even in rain or snow.



Easy Installation with Flexible Mounting Accessories



Weatherproof Design

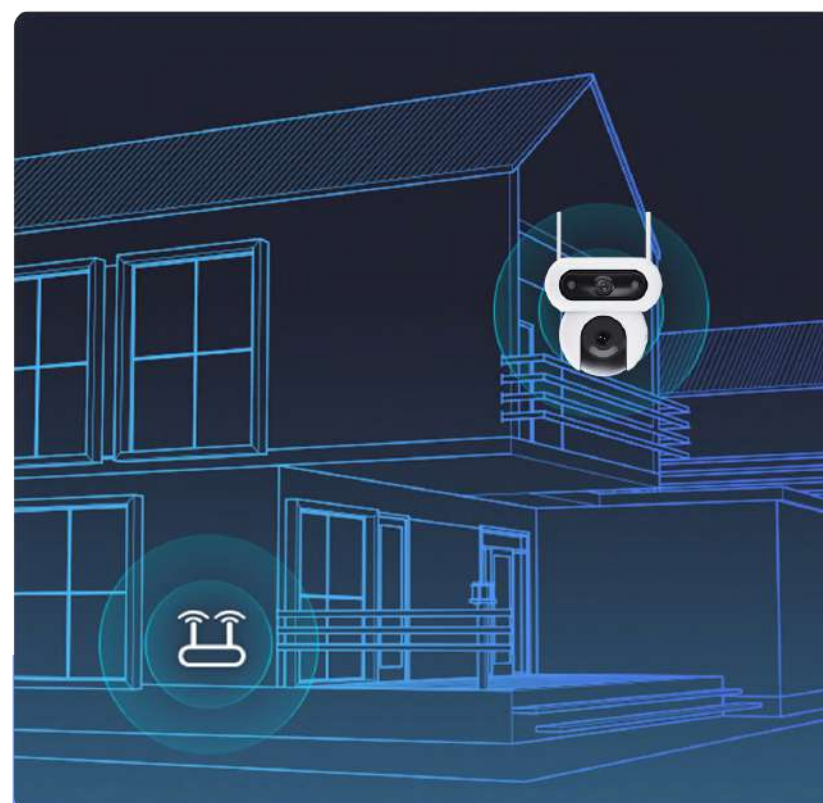
Wall Mount



Ceiling Mount

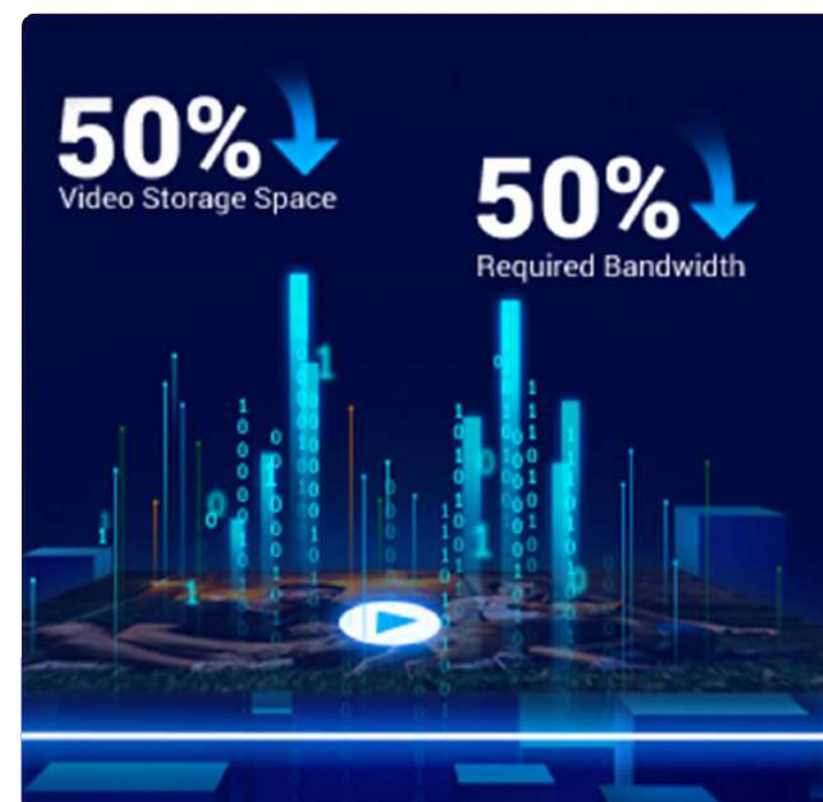


Pole Mount  
Sold separately



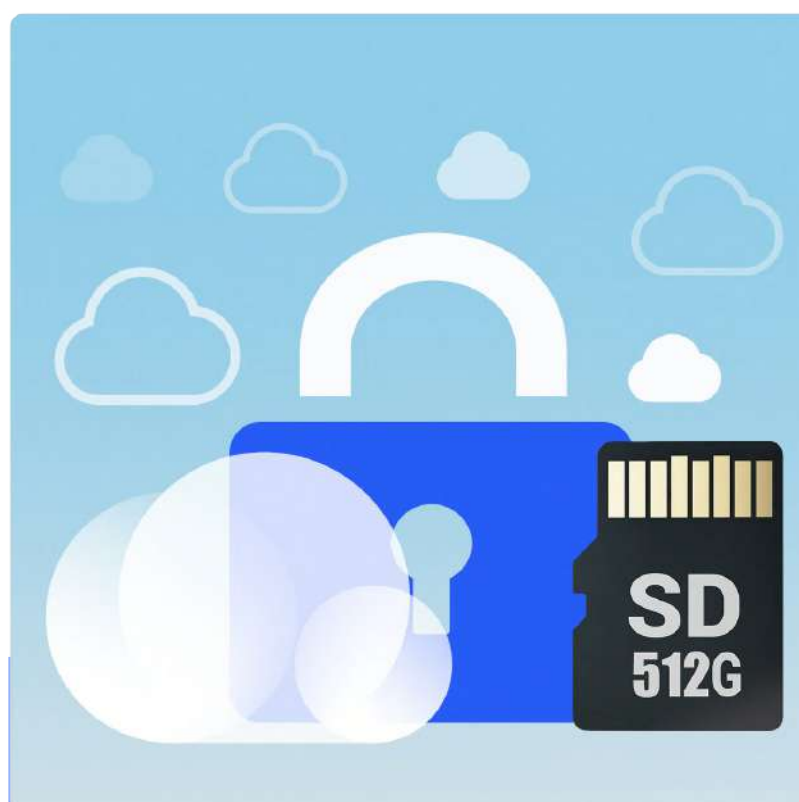
### Powerful antennas, stable connection

It boosts up to 220 m Wi-Fi coverage thanks to its high-performance dual antennas.<sup>4</sup> It also offers wired options for further convenience.



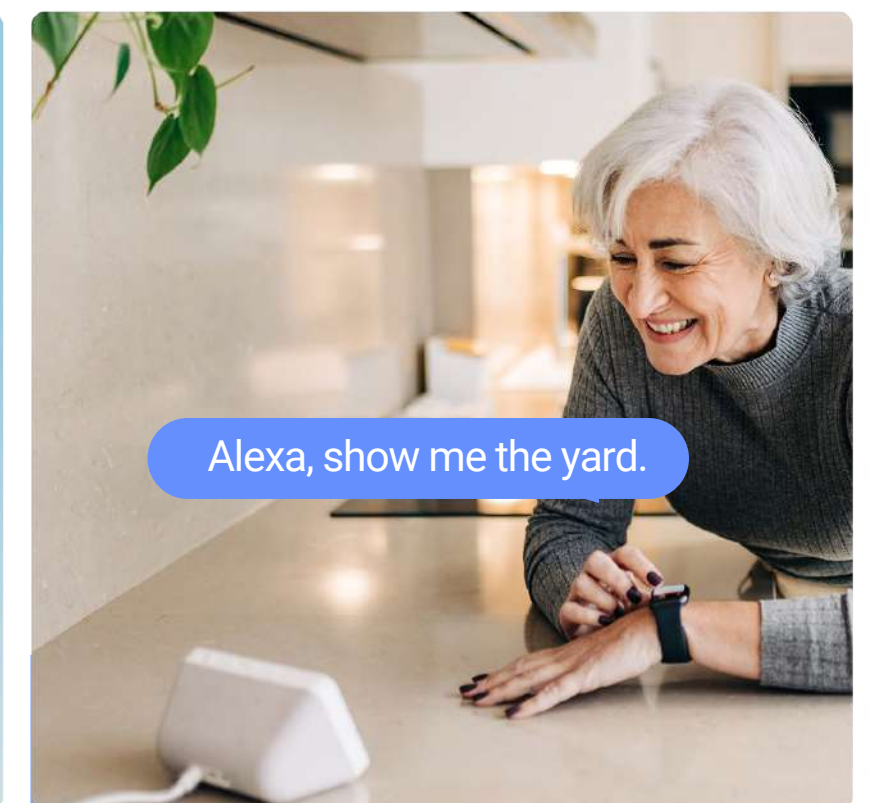
### H.265 for enhanced video experience

The H.265 creates a smoother viewing experience while only using about 50% of the data storage space required by cameras with H.264.<sup>5</sup>



### Dual storage options for important moments

The camera automatically saves detection-triggered history videos. You can choose to secure them on a large local storage card, or simply by subscribing to the EZVIZ CloudPlay.<sup>2</sup>



### Smart integration for hands-free control

The camera supports easy integration to your existing voice assistants. You can pull up the video feed by simply saying "Alexa" or "Hey Google".<sup>1</sup>

# 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 Amazon Alexa and Google Assistant are not available in certain languages and countries.
- 2 Local storage cards must be purchased separately. Cloud storage service is only available in certain markets. Please verify availability before making a purchase.
- 3 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.
- 4 Data from EZVIZ Lab's test results in open environment. Will vary with the Wi-Fi frequency, camera location, the transfer technology, and other environmental factors.
- 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.

# Specifications

CS-H90-R100-8H44WKFL

## 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°<br>Bottom Lens: 6mm @ F1.6, Field of view : Diagonal 60°, Horizontal 52°, Vertical 28° |
| PT Angle                   | Pan: 324°, Tilt: 90°                                                                                                                                                       |
| Minimum Illumination       | 0.5 Lux @ (F1.6, AGC ON ),<br>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                                                                                                                                                                |
| Black & White Night Vision | 30 m (98 ft)                                                                                                                                                               |

## Video & Audio

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Max. Resolution   | 2K+ (2880 × 1620)                                    |
| 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     | IEEE802.11b, 802.11g, 802.11n                 |
| Frequency Range    | 2.4 GHz ~ 2.4835 GHz                          |
| Channel Bandwidth  | Support 20 MHz                                |
| Security           | WPA-PSK / WPA2-PSK                            |
| Transmission Rate  | 11b: 11Mbps, 11g: 54Mbps, 11n: 150Mbps        |
| 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 shape detection<br>AI-powered vehicle shape detection<br>Motion detection |
| Auto 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 CloudPlay storage (subscription required) |

Specifications

CS-H90-R100-8H44WKFL

General

|                      |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| Operating Conditions | -30°C to 50°C ( -22°F to 122 °F )<br>Humidity 95% or less (non-condensing) |
| IP Grade             | IP65 + 2h rainstorm                                                        |
| 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: 723 g (25.51 oz)<br>With Package: 1203 g (42.43 oz)            |

## In the box

- H90 Dual 2K+ Camera
- Power Adapter
- Drill Template
- Waterproof Kit
- Screw Kit
- Regulatory Information × 2
- Quick Start Guide

## Certifications

CE / UL / WEEE / RoHS / REACH

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