# EZVIZ™

**AOV**
24/7 EZVIZ PROTECTION

**EZVIZ Green™**

# HB8 Lite 4G + Solar Panel 5W

4G & Wi-Fi Smart Home Battery Camera Kit

## Sun-powered security, wherever life takes you

By combining a powerful 5W weatherproof solar panel with EZVIZ's smart AOV Auto Mode, the HB8 Lite 4G Kit stays powered and alert all day. It smartly conserves energy while keeping an eye out for suspicious activity, giving you uninterrupted protection, minimal upkeep, and long-lasting outdoor security, perfect for remote locations or busy lifestyles.
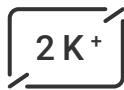
# Key Features

## HB8 Lite 4G

Dual Connectivity with 4G and Wi-Fi 6[1]

2K+ Resolution

Always-On Video Mode 2.0

Rechargeable Lithium Battery

Works with EZVZ Solar Panels (Type-C versions) for Green Power

360° Panoramic View

AI-Powered Human / Vehicle Shape Detection

Smart Tracking

Color Night Vision

Balanced Image Exposure with Smart Lights

Two-Way Talk

Active Defense with Siren & Strobe Light

Weatherproof Design

Smart Integration with Google Assistant & Amazon Alexa[2]

Supports MicroSD Card (up to 512 GB) & EZVIZ CloudPlay Storage[3]
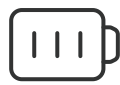
## Solar Panel 5W

Eco-Friendly & Cost-Saving Solar Power Supply

High Light Absorption with Monocrystalline Silicon Cells
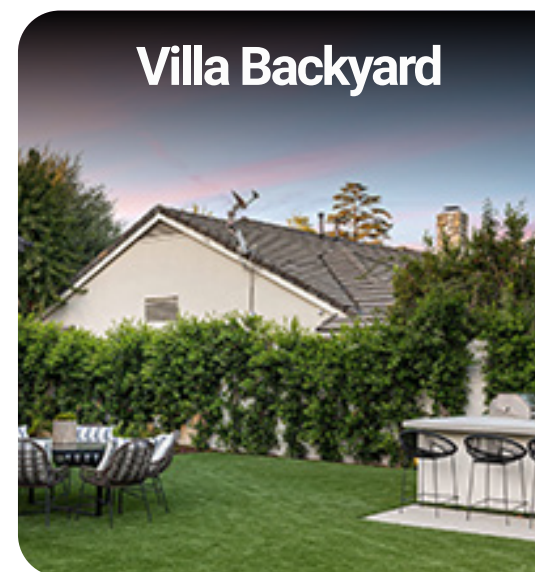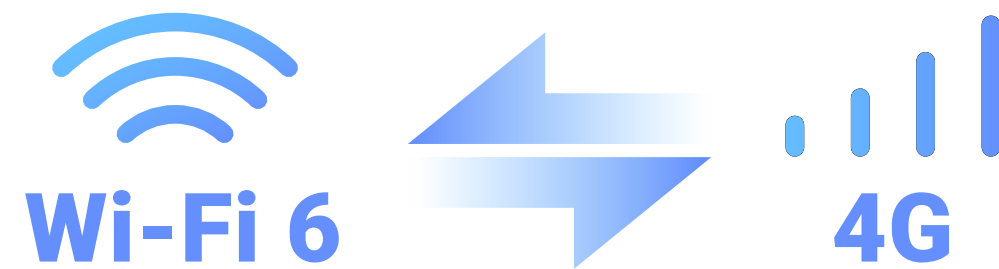
High Charging Efficiency (up to 5W)

3-Meter Cable for Mounting Flexibility

Weatherproof Design

# One camera that fits into every scenario

No matter where life takes you, this 4G camera has you covered. When Wi-Fi is spotty or goes offline, it automatically switches to 4G, so you're always connected with real-time alerts.

**Wi-Fi 6** ⇄ **4G**

Villa Backyard

Household Garage

Forest Cabin

Farm Land

Construction Site

Temporary Exhibition
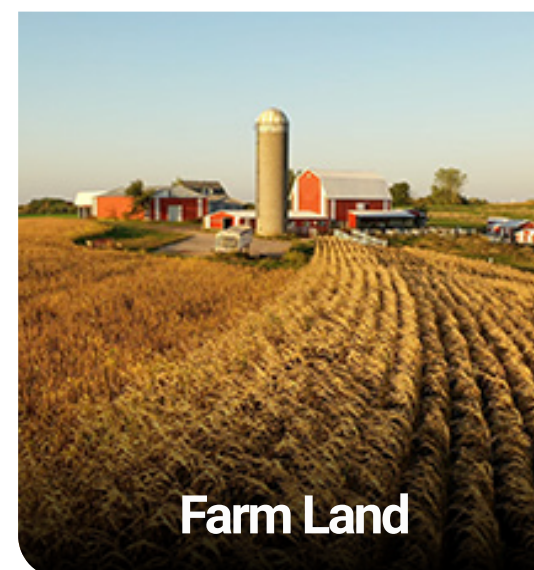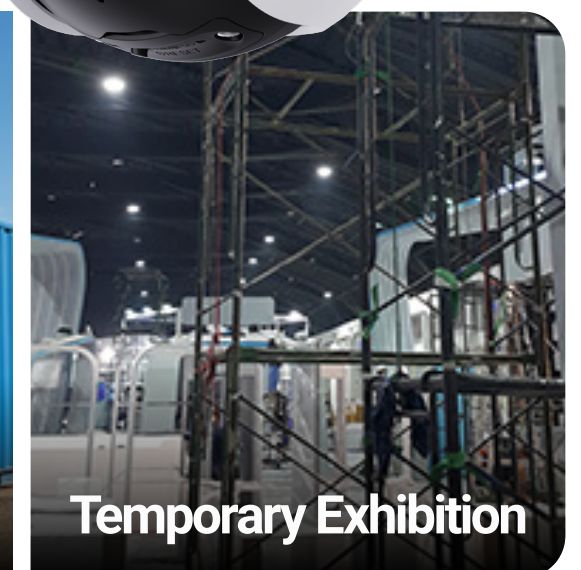
Nano SIM Card

*Note: To use 4G connectivity, a compatible Nano SIM card and an active cellular data plan are required.*

# Time for battery-powered all-day recording

Unlike most battery cameras on the market, which have trouble detecting and recording videos due to short battery life and non-smart sensors, the camera is equipped with EZVIZ's groundbreaking AOV technology to enable all-day recording while ensuring a long standby time with a much greater detection distance.
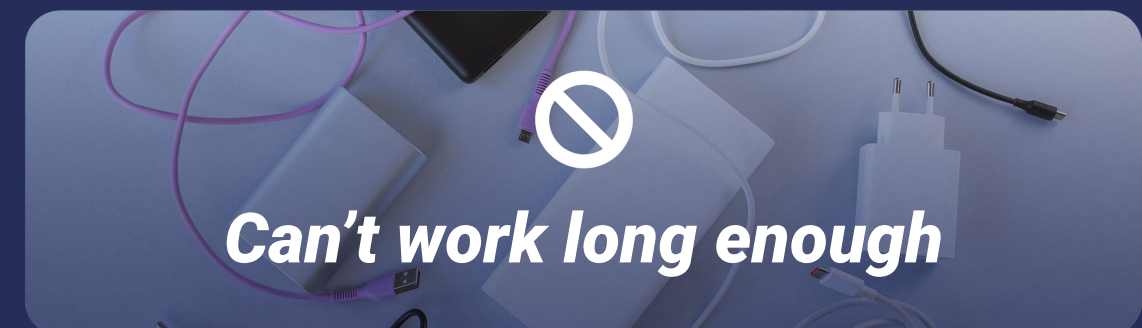
*About the EZVIZ AOV Technology >*

**AOV**

24/7 EZVIZ PROTECTION

**VS**

## Most battery cameras in the market

🚫 *Miss vital moments*

🚫 *Can't work long enough*
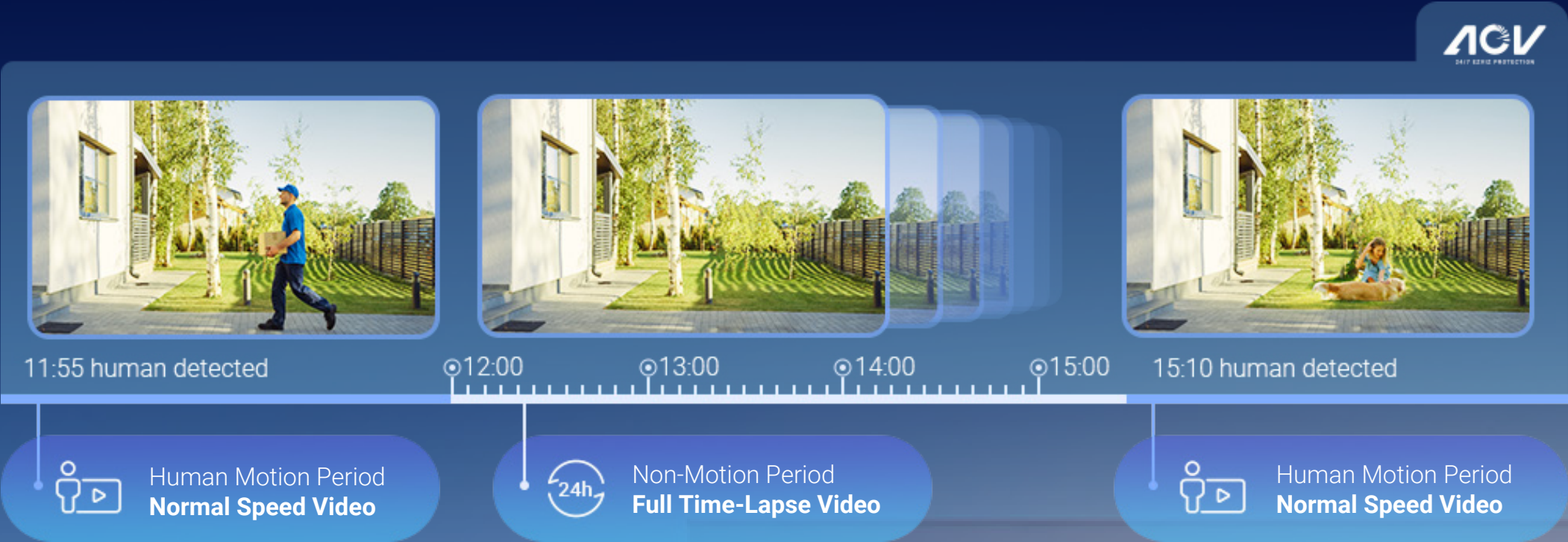
🚫 *Overlook lurking situations*

# 01 Always records, scenes or events

When on the AOV mode, the HB8 Lite 4G can capture images at preset time intervals and process them to create a smooth time-lapse video[4] showing the changes over time, even when there is no activity. Once detecting an activity, the camera will switch to normal-speed videos to provide more information. You can now obtain all-day recording on a battery-powered camera without having to plug it into a power outlet.

## Now upgraded to AOV 2.0

- Wiser Battery Consumption for All-Day Recording
- Down to 1-Second Ultra-Short Time Interval

AOV

11:55 human detected       ⊙12:00      ⊙13:00      ⊙14:00      ⊙15:00      15:10 human detected

Human Motion Period
**Normal Speed Video**

Non-Motion Period
**Full Time-Lapse Video**

Human Motion Period
**Normal Speed Video**

# 02 Always protects, far or near

Unlike other battery cameras that heavily rely on PIR sensors to capture only nearby activities, this camera can detect an approaching person or vehicle at a much greater distance. If a person or vehicle appears, it will immediately notice that and inform you straight away.

EZVIZ        Now
AI Human Detection Alarm
(2025-07-08 10:52:22)

AOV
24/7 EZVIZ PROTECTION
EZVIZ battery cameras
with all-day recording

**Standard**
Other battery cameras
only with PIR sensor

**12-25 meters**[5]

**9 meters**

# Solar-powered security that never takes a moment off

## What you face now

| Short battery runtime | Event-based recordings only | No continuous 24/7 recording |
|---|---|---|
| which disrupts camera operation | which misses important background | which is unable for full-time monitoring |

## What EZVIZ offers



**AOV Auto**

**AOV Auto**

### Rechargeable Battery
Ensures worry-free event recording with a rechargeable battery

### AOV Auto Mode
Optimizes time intervals to deliver up to 15 days[6] of all-day recording on a single charge

### 5W IP65 Solar Panel
Runs year-round on 2 hours of sunlight a day and built to handle diverse outdoor uses[7]

# 360-degree vision that is crisp and clear

Forget about installing multiple cameras to secure different directions – a single HB8 Lite 4G can pan and tilt smoothly to capture an unrestricted 360-degree view. Its sharp 2K$^+$ resolution lets you see fine details at different angles that matter to you.

**2K+**

**360° View**

**340°**
Horizontal Rotation

**80°**
Vertical Rotation

# Smarter vision, better detection

The HB8 Lite 4G is smart enough to distinguish moving people and vehicles from other objects. You no longer need to constantly watch your camera or go through long video files to find a crucial moment – set up the detection preferences and let the camera inform you when it's important.

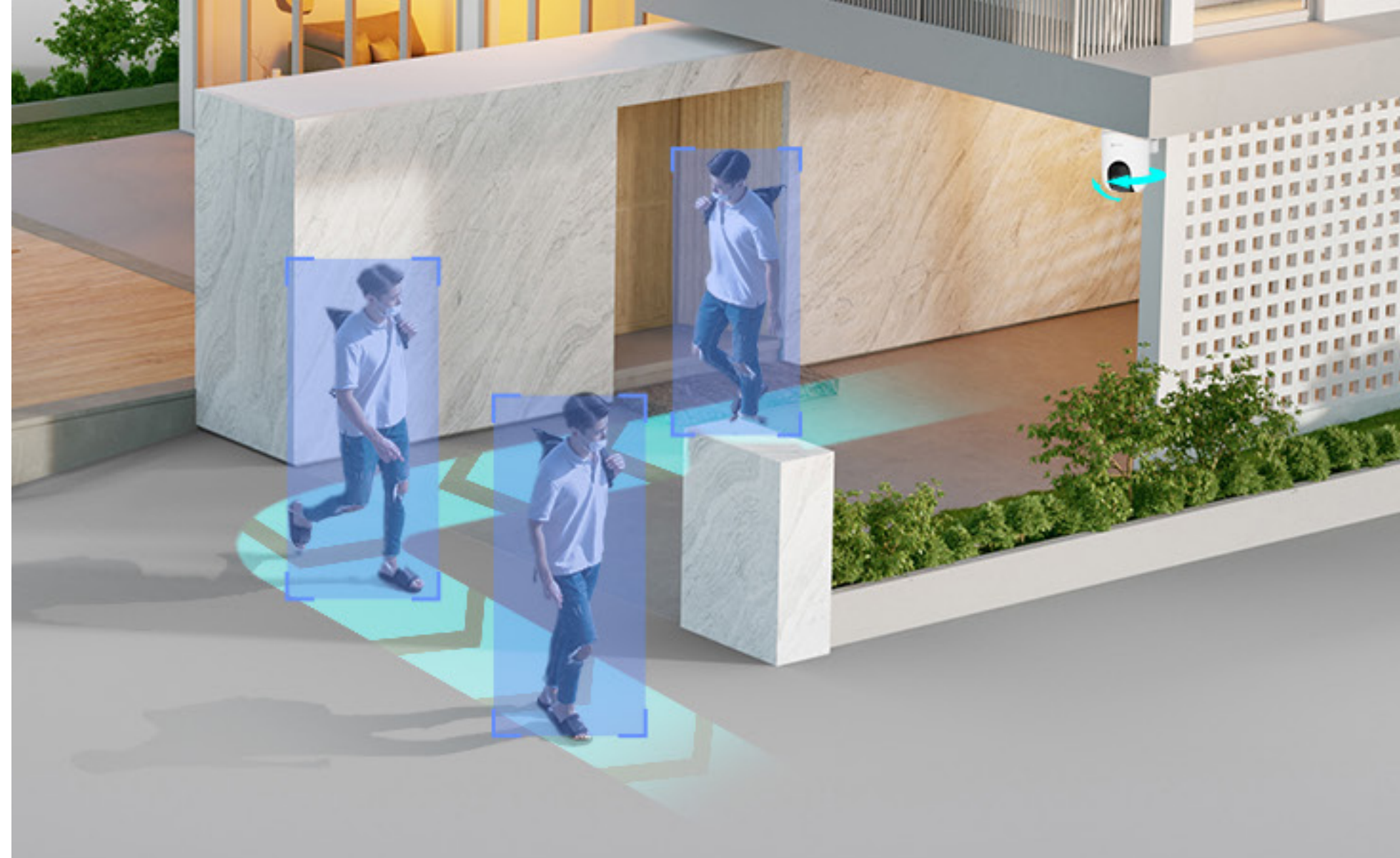**AI-Powered Human / Vehicle Shape Detection**

**Customizable Detection Zone**

**FREE** No Subscription Fee

# Record an unfolding activity with auto smart tracking

———

Unlike a fixed-angle camera, which can easily lose sight of a moving person in its limited field of view, the HB8 Lite 4G is able to change its sight to keep a close eye on an ongoing activity. As soon as a person enters the detecting zone, the HB8 Lite 4G is activated to lock on the person, rotating to follow the entire movement.



# Night is now bright and colorful

———

Blurred and pixelated night vision is now a thing of the past. Thanks to its built-in spotlights, the HB8 Lite 4G delivers vivid and crisp visuals even in the dimmest environments. You can choose between two night vision modes as you'd like.



**2 Spotlights** | Full-Color Night Vision

**2 IR Lights** | Black & White Night Vision

# Smart adaptation for even and clear images

Wherever you install the HB8 Lite 4G camera, it manages to comprehend the surrounding light to automatically create an evenly exposed, clear image, even in the dark. Users can choose to enable the "Balanced Image Exposure" option via the EZVIZ App at any time, regardless of which night vision mode the camera is in.

*For open area*

*For edges & corners*

With adaptative smart light

Without adaptative smart light

With adaptative smart light

Without adaptative smart light

How can I help you?

You have a delivery.

Private property. Please do not enter!
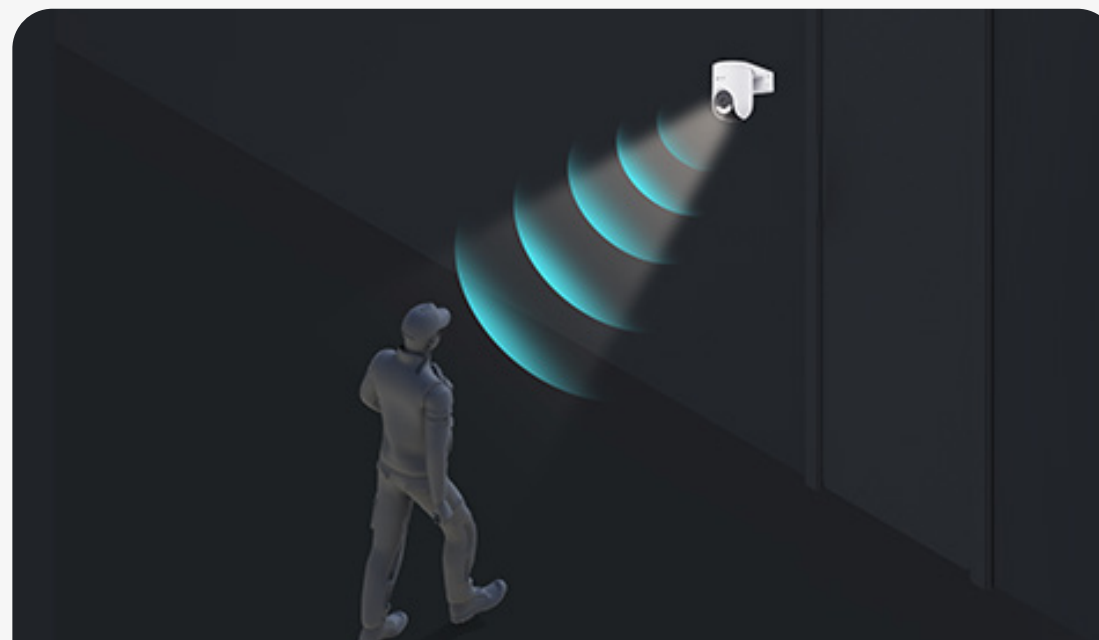
## Respond with high-quality audio

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.

## Use active defense to deter

Upon detection of intruders, the camera will set off a loud siren and flash two dazzling spotlights to let the uninvited strangers know they have been detected.

## Deliver protection, rain or shine

With a robust weatherproof design, the kit ensures continuous operation, making it your reliable partner in all weather scenarios.
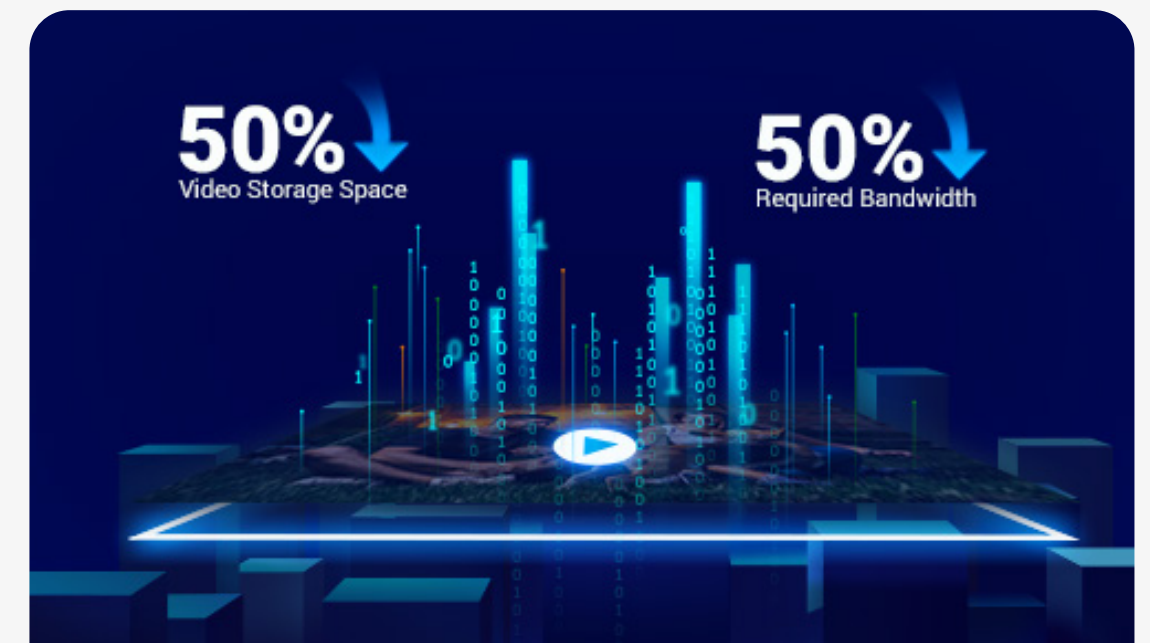
### Save your videos with two options

Safely store important moments or cute memories on a large local storage card, or by subscribing to the EZVIZ CloudPlay.[3]

### Control with your voice, hands-free

The camera can integrate with your existing voice assistants. You can pull up the video feed by simply saying "Alexa" or "Hey Google".[2]

Alexa, show me the backyard

### Enhance video experience with H.265

The H.265 creates a smoother viewing experience while only using about 50% of the data storage space required by cameras with H.264.[8]

50% ↓ Video Storage Space

50% ↓ Required Bandwidth

## A cleaner planet, with an EZVIZ Green product

At EZVIZ, we design products with sustainability in mind, building a smart home that's ready for the future and responsible for the planet. By integrating the use of solar technology and planting forests, we enable you to live a smart lifestyle with less carbon emissions.

Learn more >

*Reduces carbon emissions generated by a multi-device smart home*

EZVIZ Green™

SUSTAINABILITY AWARD 2024 | SEAL AWARD WINNER 2025
**Initiative of the Year**

EZVIZ Global Forest Plan

*Grows the EZVIZ Global Forest Plan with locally beneficial tree species*

# 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   Please note that a supported Nano SIM card and a cellular data plan are needed to enable the 4G connectivity.

2   Amazon Alexa and Google Assistant are not available in certain languages and countries.

3   The local storage card must be purchased separately. The cloud storage service is only available in certain markets. Please verify the availability before making a purchase.

4   To use this function, a compatible microSD card (sold separately) must be inserted into the camera.

5   When the AOV mode is enabled, according to EZVIZ Lab's test results under standard conditions, the camera is able to detect movements at a distance of up to 25 meters during the day, and up to 12 meters during the nighttime. Other tested battery models that use PIR-based detection usually have a detection distance of up to 9 meters. The actual detection range may differ due to environmental factors.

6   Data comes from EZVIZ Lab's test under standard conditions and may vary due to environmental factors and the frequency of camera activities.

7   Data from EZVIZ Lab's test results, under the following standard condition: AM=1.5 , 25°C, 1000W/m², SMQ. The data is obtained based on the camera set on AOV mode and with the AOV interval set as AUTO. The actual charging efficiency may vary depending on sunlight intensity and other environmental factors, while the actual hours of camera use may also differ due to the frequency of camera activities and other environmental factors.

8   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, and other environmental factors.

# Specifications CS-HB8c-R100-1N4WL4GA

## Camera

| | |
|---|---|
| Image Sensor | 1/3" 4-Megapixel Progressive Scan CMOS Sensor |
| Minimum Illumination | 0.01 Lux @(F1.2, AGC ON), 0 Lux with IR |
| Shutter Speed | Self-adaptive shutter |
| Lens | 4 mm @ F1.6  Diagonal angle: 90° Horizontal angle: 75°  Vertical angle:40° |
| PT Angle | Pan: 340°, Tilt: 80° |
| Day & Night | IR-cut filter with auto switch |
| DNR | 3D DNR |
| Night Vision | 15 m |

## Video & Audio

| | |
|---|---|
| Max Resolution | 2K$^+$ (2560 × 1440) |
| Frame Rate | 15 fps. Self-adaptive during network transmission |
| Video Compression | H.265 / H.264 |
| Video Bit Rate | Ultra-HD; Full HD; Hi-Def. Adaptive bit rate. |
| Audio Bit Rate | Self-adaptive |
| Max. Bitrate | 4 Mbps |

## Network

| | |
|---|---|
| Wi-Fi Standard | IEEE802.11b, 802.11g, 802.11n, 802.11ax |
| Frequency Range | 2.4 GHz ~ 2.4835 GHz |
| Channel Bandwidth | Supports 20 MHz |
| Security | 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK |
| Transmission Rate | 11b: 11Mbps,11g :54Mbps,11n :72Mbps, 11ax:114Mbps |
| Wi-Fi Pairing | AP pairing |
| Protocol | EZVIZ Cloud Proprietary Protocol |
| Interface Protocol | EZVIZ Cloud Proprietary Protocol |
| Minimum Network Requirement | 4 Mbps |
| Frequency Bands | IN LTE-FDD： B1/B3/B5/B8 IN LTE-TDD： B34/B38/B39/B40/B41 EU LTE-FDD： B1/B3/B5/B7/B8/B20/B28 EU LTE-TDD： B38/B40/B41 LA LTE-FDD： B2/B3/B4/B5/B7/B8/B28/B66 LA LTE-TDD： B38/B40/B41 |

## Function

| | |
|---|---|
| Smart Alarm | AI-powered human shape detection AI-powered vehicle shape detection |
| Two-Way Talk | Supports |
| General Function | Anti-Flicker, Heart Beat, Password Protection, Watermark |

# Specifications CS-HB8c-R100-1N4WL4GA

## Storage

| | |
|---|---|
| Local Storage | Supports microSD card (max. 512 GB) |
| Cloud Storage | Supports EZVIZ CloudPlay storage (Subscription required) |

## General

| | |
|---|---|
| Operating Conditions | -20 °C to 50 °C (-4 °F to 122 °F),<br>Humidity 95% or less (non-condensing) |
| IP Grade | IP65 |
| Power Supply | DC 5 V / 2 A  (Adapter needs to be purchased separately) |
| Battery Capacity | 5,200 mAh |
| Power Consumption | Max.10 W |
| Product Dimensions | 168 × 100 × 137.2 mm (6.61 × 3.94 × 5.40 inch) |
| Packaging Dimensions | 205 × 145 × 194 mm (8.07 × 5.71 × 7.64 inch) |
| Product Weight | 660 g (23.28 oz) |
| Weight with Package | 1120 g (39.50 oz) |

# Specifications   CS-PSP5-R100-3M

## Performance Parameter

| | |
|---|---|
| Power Voltage | 5.7 V |
| Power Current | 877 mA |
| Open Circuit Voltage | 6.9 V |
| Short Circuit Current | 0.92 A |
| Max. Power | 5 W |
| Interface | Type-C |
| Solar Cell Efficiency | ≥ 23.5% |
| Operating Conditions | -20°C ~ 60°C (-4°F ~ 140°F)<br>Humidity 90% or less (non-condensing) |
| IP Grade | IP65 |

## Mechanical Data

| | |
|---|---|
| Solar Cell Type | Monocrystalline solar cells |
| Power Cable Length | 3 meters |
| Product Dimensions | 210 × 154 × 33 mm (8.27 × 6.06 × 1.30 inch) |
| Packaging Dimensions | 225 × 175 × 70 mm (8.86 × 6.89 × 2.76 inch) |
| Weight | Net Weigh: 286 g (10.09 oz)<br>with package: 656 g (23.14 oz) |

# In the box

- HB8 Lite 4G Camera

- Solar Panel 5W

- Drilling Template

- Adjustable Mounting Bracket

- Screw Kit × 2

- Power Cable

- Regulatory Information × 3

- Quick Start Guide × 2

# Certifications

CE / REACH / WEEE / RoHS

www.ezviz.com