EZVIZ™

EZVIZ HP7 Battery

Smart Wireless Video Doorphone

The Freedom of Staying Connected to Your Front Door



Key Features

The EZVIZ HP7 Battery brings smarter, more flexible connectivity to your front door. Enhanced by an external antenna, the stronger and more stable Wi-Fi HaLow™ connection ensures reliable wireless performance. The outdoor intercom panel supports flexible charging options - an upgraded solar panel for more efficient charging or optional 12 V DC wired charging for continuous, always-on protection. Enjoy convenient front-door features including live view, two-way talk, and remote door or gate unlocking, all designed to make it easier to see, communicate, and take action when needed.



No Wiring Between Intercom Panel & Indoor Screen[1]



High-Performance Wi-Fi HaLow™ with Optional External Antenna



Battery-Powered Intercom Panel



2K+ Resolution



7” Color Touchscreen



Remote Door/Gate Unlock[2]



Passcode Unlock



Smart RFID Entry



2.4/5 GHz Dual-band Wi-Fi for Indoor Screen



High-Efficiency Solar Panel for Battery Charging[3]



12 V DC Hardwired Charging[3]



Name Card



IR Night Vision



Two-Way Talk



Multiple Ringtones[4]



Weatherproof Design[5]



EZVIZ Cloud Service & App Remote Control



Support Local Storage up to 512 GB & Cloud Storage[6]

AI MODIFIED

Wire-Free Connection Between Intercom Panel & Indoor Screen[1]

Enjoy Wireless Connectivity with One-Tap Control

Ideal for historic homes or entrances without pre-laid wiring, the outdoor doorphone connects wirelessly to the indoor screen via Wi-Fi HaLow™, delivering a stable and seamless connection without complicated wiring. See and communicate with visitors directly from the indoor screen, then unlock the door with just one tap for effortless access control.



Wire Length

Gate/Door Dual Controls[2]

	ø 2×0.75 mm²	ø 2×1.5 mm²	Twisted Pair (TP)
	1-10 m	1-10 m	1-10 m

AI MODIFIED

High-Performance Wi-Fi HaLow™ with Optional External Antenna

Boost Wi-Fi HaLow™ Performance with an Optional External Antenna

For large homes, villas or entrances far from the indoor screen, Wi-Fi HaLow™ offers a more stable connection over longer distances and through obstacles. With an optional external antenna, HP7 Battery further boosts Wi-Fi HaLow™ signal strength and stability, ensuring smooth, reliable wireless connection between the outdoor intercom panel and indoor screen, so you can easily communicate with visitors and control both the front door and car gate, even across greater distances.



AI MODIFIED

Battery-Powered Intercom Panel[3]

Flexible Charging Options for Reliable Outdoor Operation

Designed for outdoor entrances, HP7 Battery supports upgraded solar panel or optional 12 V DC charging options for continuous power. With outdoor-ready protection, it keeps working reliably through rain and changing weather, giving you a worry-free entrance solution without frequent charging or complicated wiring.

- Detachable Battery for Easy Recharging
- 12V 12 V DC Hardwired Charging for Continuous Operation
- Included Solar Panel for Continuous Power[3]



Note: The battery must remain installed in the device when charging via a 12 V DC wired connection or a solar panel.

AI MODIFIED

2K+ Resolution

See More in Stunning Detail

See more in crisp, vivid detail with superior 2K+ (4MP) resolution and a wide 162° viewing angle. From daylight to low-light conditions, up to 5-meter infrared night vision keeps your surroundings visible, helping you stay on top of what's happening around your front door, day and night.



7-Inch Color Touchscreen

One Screen, Complete Front-Door Control

The 7-inch color touchscreen serves as your central control panel, making it easy to customize settings, communicate remotely, and manage video recordings. When the doorbell rings, the screen lights up instantly to let you know who's outside - keeping front-door interactions simple and convenient.



Versatile features

Crisp live viewing | Gate/Door unlock[2] | Two-way talk | Video history and storage (Supports local storage of up to 512 GB)

Multiple Ways to Unlock

Access Your Home, Your Way

Unlock the way that works best for you. Whether entering with a passcode or RFID card, tapping the indoor touchscreen, granting remote access through the EZVIZ App, or sharing a temporary password with visitors, HP7 Battery makes every arrival effortless and every visit easy to manage.

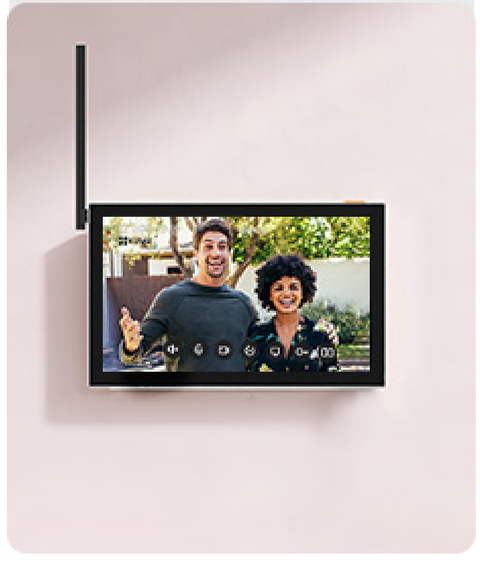
Unlock with the Passcode



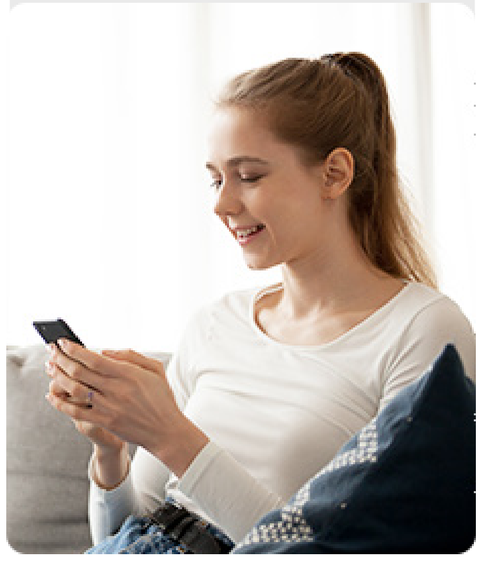
Unlock with an RFID Card



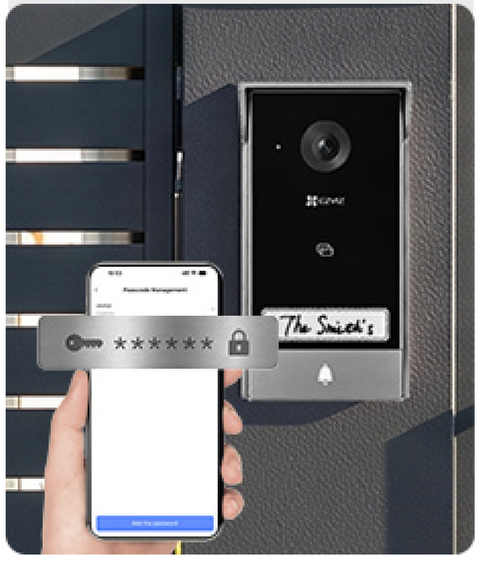
Unlock via the Indoor Screen



Unlock Remotely via the EZVIZ App



Unlock via a Temporary Password

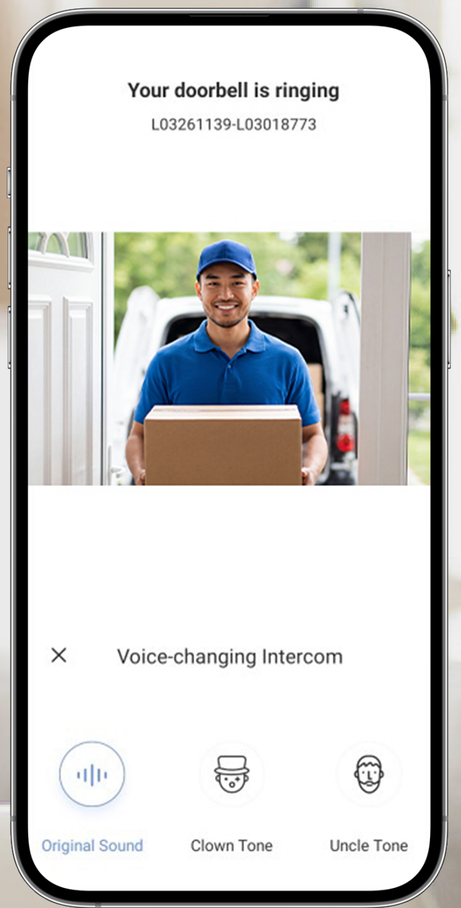


Two-Way Talk with Voice Changing

Respond with Confidence, Wherever You Are

Whether you're at home or away, HP7 Battery lets you stay connected to every visitor through the EZVIZ App. Talk to guests in real time, unlock the door remotely when needed, and enable voice changing when speaking with unfamiliar visitors to help protect your identity and enjoy greater peace of mind.

- Visitor Access Control
- Two-Way Talk
- Voice Changer for Privacy Protection
- Remote Unlock



Thank you, please leave that outside the door.

Hi, you have a delivery.

2.4/5 GHz Dual-Band Wi-Fi for Indoor Screen

Stay Connected with Greater Speed and Stability

Choose between 2.4 GHz and 5 GHz Wi-Fi on the indoor screen for lower latency, greater bandwidth, and a more stable signal, ensuring a smoother connected experience with remote controls.



Backlit Name Cards & Multiple Ringtones

Personalized Details for Everyday Convenience

Both the name cards and the keypad feature backlighting, making it easy for visitors to identify the right door, even in low light, while 20 ringtone choices let you personalize doorbell alerts to suit your preferences.



Find the Right Door with Backlit Name Cards & Keypad (3 Name Cards Included)



Personalize Your Doorbell with 20 Ringtone Choices[4]

Weatherproof Design[5]

Built for Outdoor Reliability

Built to handle everyday outdoor conditions, both the intercom panel and the solar panel are designed with weatherproof protection. Rainy days, dust or changing seasons, HP7 Battery stays ready to help keep your front-door access connected.



Refined Minimalist Design

Designed to Complement Every Modern Home

The HP7 Battery pairs a sleek, unified glossy-black finish across the keypad and solar panel with a minimalist design that complements modern homes, while the intuitive indoor touchscreen makes interaction effortless.





Local & Cloud Storage

Trust in Your Extra-Large, Safe Storage Options

You can secure your recorded videos to local storage of up to 512 GB, or subscribe to EZVIZ CloudPlay for fully encrypted cloud storage.[6]



Supports Local Storage[6]



Supports EZVIZ CloudPlay Storage[6]

H.265 Video Compression

Enhanced Viewing Pleasure with Smaller Video Files

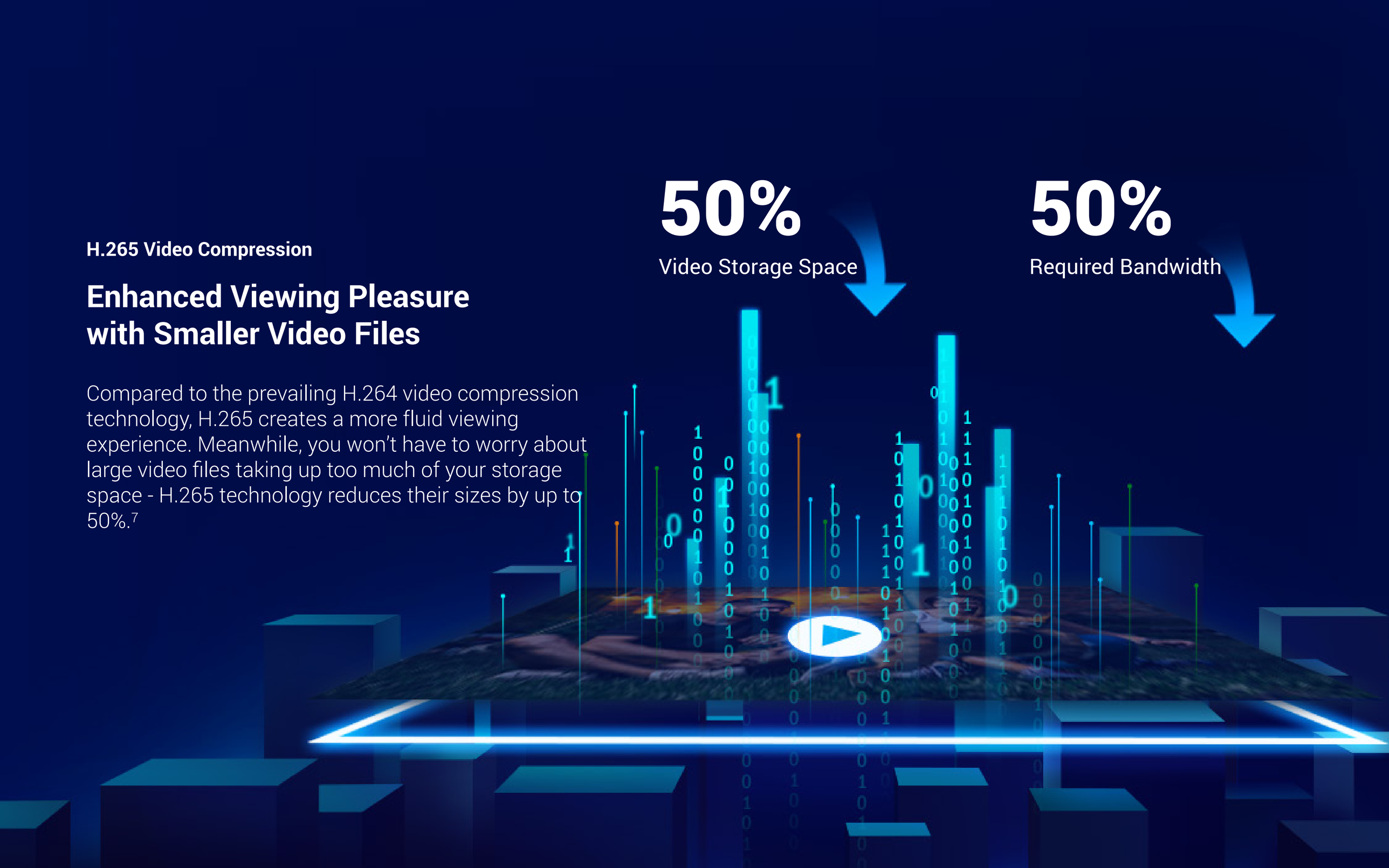
Compared to the prevailing H.264 video compression technology, H.265 creates a more fluid viewing experience. Meanwhile, you won't have to worry about large video files taking up too much of your storage space - H.265 technology reduces their sizes by up to 50%.[7]

50%

Video Storage Space

50%

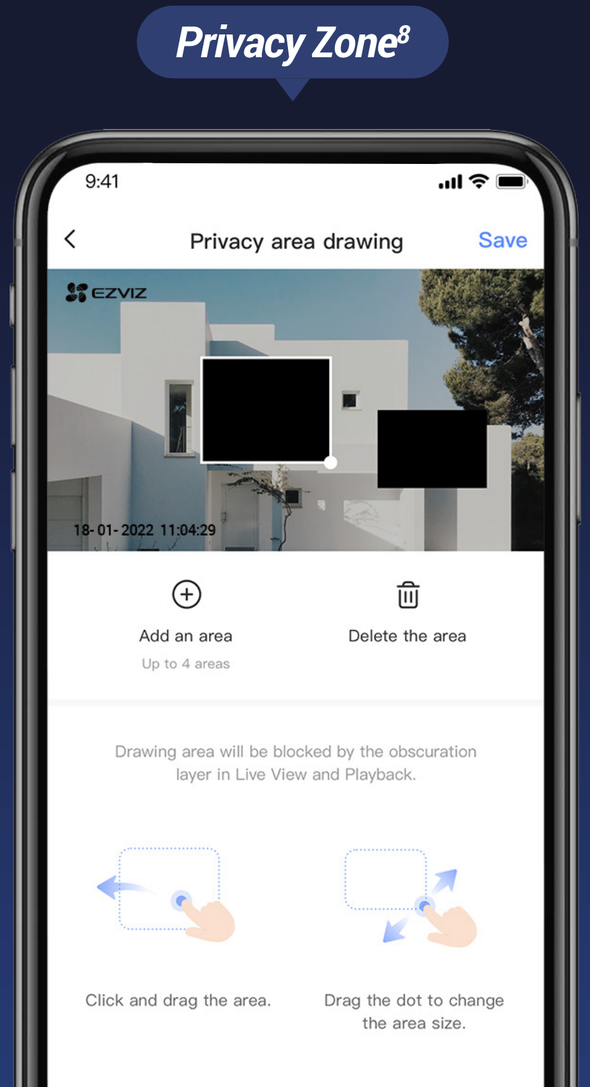
Required Bandwidth



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***

ISO/IEC 27001 · ISO 27017 · ISO 27018 · ISO 29151 · ISO/IEC 27701 · ISO/IEC 20000 · ISO 38505 · ISO 22301 · CSA STAR · SOC

1 The outdoor intercom panel connects to the indoor touchscreen via Wi-Fi HaLow™, eliminating the need for a wired network connection. However, a wired connection is still required for gate or door control. The outdoor intercom panel is battery-powered, with solar charging or 12 V DC wired power available to charge the battery. The battery is required for operation with either power option. The indoor touch screen can be powered by either a power adapter or 12 V DC wired power.

2 To check the installation requirements and product compatibility, please refer to the User Manual for detailed information.

3 Only the outdoor intercom panel supports solar panel charging and is compatible with the included solar panel. The included solar panel serves as a supplementary power source to extend battery life and reduce recharging frequency. Please note that it is not the primary or sole charging option, as charging efficiency depends heavily on sunlight exposure (affected by location, orientation, and obstructions) and the frequency of unlocking activities. If the solar panel cannot keep the device powered on, you can charge the doorphone directly via 12 V DC wired power, or remove the battery by unscrewing the battery cover and charge it indoors without moving the main device. The indoor screen needs to be connected to a power adapter or 12 V DC wired power.

4 Users are able to customize the ringtone sent by the indoor screen by touch controls or via the EZVIZ App. The outdoor intercom panel only provides one default ringtone and cannot be customized.

5 Only the outdoor video intercom panel and the solar panel are weatherproof. The touchscreen needs to be installed indoors.

6 This device is compatible with standard local storage cards widely available on the market, supporting capacities from 16 GB to 512 GB. The local storage card must be purchased separately. To ensure reliable read/write performance and device stability, a branded storage card with a speed class of Class 10 or above is recommended. The cloud storage service is only available in certain markets. Please verify the availability before making any purchase.

7 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.

8 Users can draw in rectangles to customize up to 4 privacy zones.

Specifications CS-HP7-R500-1W2HTFC (Battery)

Outdoor Intercom Panel

Image & Video Parameters

Image Sensor	1/2.7" Progressive Scan CMOS (Supports low light sensitivity)
Lens	2.0 mm @ F2.2, view angle: 162° (Diagonal)
Day & Night	IR-cut filter with auto-switching, 850 nm infrared light × 2 (max. 5 m)
Max. Resolution	2560 × 1440 (2K+)
DNR	2D / 3D DNR
Video Compression	H.265 / H.264
Frame Rate	Max: 15fps; Self-Adaptive During Network Transmission

Network

Wi-Fi Standard	IEEE802.11AH
Frequency Range	904 M-928 M (US), 865 M-867 M (EU)
Channel Bandwidth	8 M (US), 2 M (EU)
Security	64 / 128 bit WEP, WPA / WPA2, WPA-PSK / WPA2-PSK
Wi-Fi HaLow Pairing	AP pairing
External Antenna	Supports (wire length 1 m)
Max Transmission Distance for Intercom and monitor	Up to 350 m in open area; up to 80 m in two enclosed walls

Interfaces & Connections

Doorbell Button	Support, 1 button.
Name Card	Support, backlight, handwritten. 3 cards stickers included (1 sticker already on the intercom panel)
Password Keypad	0-9 10-digital password keyboard; support 20 sets of 6-10 digital passwords; press the keypad to turn on the light, the light can be turn off
Terminal	Two wiring ports to connect gate. Two wiring ports to connect electric strike plate. Two wiring ports to connect the solar panel or 12 V DC One external antenna socket One antenna switch
Open the Door (Gate)	Support. 2 wiring ports. 1-10 m distance. The intercom panel provides a “dry”-contact connection, without an electric current, to connect to the button for automated gate, gate breaking capacity: 12 V/2 A
Unlock (Electric strike plate)	Support. 2 wiring ports. 1-10 m distance. The electric strike plate or lock that you order must have a mechanical memory; the power supply to the electric strike plate or lock must not exceed 12 V/0.8 A, otherwise should do as user manual.
Door Open Method	1.RFID badge unlock (CPU card x 3 pcs) 2. Password unlock 3.App remote unlock 4.Indoor display unlock

Audio Parameters

Audio Input	Built-in high-sensitivity microphone
Audio Output	Built-in high-power speaker

General

Operation Conditions	-20°C to 60°C, Humidity 95% or less (non-condensing)
Ingress Protection Grade	Weatherproof IP65, with shield cover
Power Supply	Battery (7.3 V), charging by included EZVIZ Solar Panel or 12 V DC Hardwired Power
Battery Capacity	2600 mAh 7.3 V (5200 mAh 3.7 V) rechargeable and detachable lithium battery 85 days at the rate of using 3 minutes per day, and open the electric strike plate 10 times

Specifications CS-HP7-R500-1W2HTFC (Battery)

Internal Screen

Screen Parameters

Display size	7” touch screen
Resolution	1024 × 600

Wi-Fi Parameters

Wi-Fi Standard	IEEE802.11 b, 802.11 g, 802.11 n, 802.11 ac
Frequency Range	2.4 GHz ~ 2.4835 GHz 5.15 GHz ~ 5.25 GHz
Channel Bandwidth	Supports 20 MHz
Security	64 / 128 bit WEP, WPA / WPA2, WPA-PSK / WPA2-PSK
Transmission Rate	11 b: 11 Mbps, 11 g: 54 Mbps, 11 n: 150 Mbps, 11 ac:433.3 Mbps
Wi-Fi HaLow Pairing	AP pairing
External Antenna	Supports (foldable)

Interface

Audio Input	Built-in high-sensitivity microphone
Audio Output	Built-in high-power speaker
Button	Screen On / Off Button
Terminal	Two wiring ports to connect the power
SD card	Supports up to 512 GB

Network Parameters

Protocol	EZVIZ Cloud Proprietary Protocol
Interface Protocol	EZVIZ Cloud Proprietary Protocol
Protocol	EZVIZ EZCONNECT Protocol

Smart Features

Multiple ringtones	Up to 20 ringtones
Functions	Live view, Playback, Two-way talk, Video call

General

Operation Conditions	-10°C to 45°C, Humidity 95% or less (non-condensing)
Power Supply	12-24 V DC 1A power supply or adapter (12 V 1 A included in package)
Power Consumption	8 W, Max. 12 W

Specifications CS-HP7-R500-1W2HTFC (Battery)

Solar Panel

Performance Parameter

Power Voltage	5.7 V
Power Current	555 mA ± 5%
Open Circuit Voltage	6.4 V ± 5%
Short Circuit Current	604 mA ± 5%
Max. Power	3 W
Interface	Type-C
Solar Cell Efficiency	≥ 22%
Operation Temperature	-20°C ~60°C(-4°F~140°F) Humidity 90% or less (non-condensing)
IP Grade	IP65

*Data under standard testing conditions (STC): 1000 W/m², AM1.5, 25℃,(38000-40000 LUX)

Mechanical Data

Solar Cell Type	Monocrystalline solar cells
Power Cable Length	2 meters

General

Product Dimensions	175.5 × 86.4 × 33.8 mm (Intercom Panel) 187.3 × 111.6 × 15.6 mm (Internal Screen) 144.5 × 117 × 14.5 mm (Solar Panel)
Packaging Dimension	310 × 226 × 90 mm
Net Weight	480 g (Intercom Panel) 321 g (Internal Screen) 154 g (Solar panel)
Weight with Package	2133 g

In the box

- Monitor: 7-inch Touchscreen × 1
- Intercom Panel with a Weatherproof Shield (battery included) × 1
- Wall Bracket for Monitor × 1
- Drill Template for Monitor × 1
- Drill Template for Intercom Panel × 1
- Power Adapter for Monitor × 1
- Screwdriver for Intercom Panel × 1
- Screwdriver for Monitor × 1
- Power Cable for Battery × 1
- Badge × 3
- DC 12V Power Supply Jack Connector Cable × 1
- Screws Kit (PA4 x25) × 2
- Screws Kit (PA3 x25) × 1
- Spare Attachment Screws for Intercom Panel × 2
- Solar Panel × 1
- External Antenna Kit × 1
- Regulatory Information × 3
- Quick Start Guide × 1

Certifications

CE / WEEE / RoHS / REACH

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

www.ezviz.com