



EZVIZ HP7 *Pro* 

4K Palm Vein Video Doorphone

***Your Palm is the Key,
Your Eyes Get 4K***

EZVIZ 
HomePlay OS



The HP7 Pro redefines the concept of front door security with a truly versatile design. Instantly recognizing family and friends with their unique features, the HP7 Pro combines cutting-edge unlocking methods while putting your peace of mind first. Be alerted the moment someone approaches, see and speak to them in ultra-clear video, and even connect to other EZVIZ products – all from one device. The next level of security, designed for easy and smart living, now starts at your front door.

Key Features



4K Resolution



Palm Vein Scan
Unlocking



Face Recognition
(3D Structured Light)
Unlocking



8-Inch Touch
Screen



2-Wire Installation



Remote Door /
Gate Unlocking¹



Remote Unlocking
via the EZVIZ App



WDR & Distortion
Correction



ColorFULL Night
Vision under Low Light



Smart Human
Motion Detection



Two-Way Talk



Weatherproof
Design



Supports Dual-Band
Wi-Fi 6 (2.4 / 5 GHz)



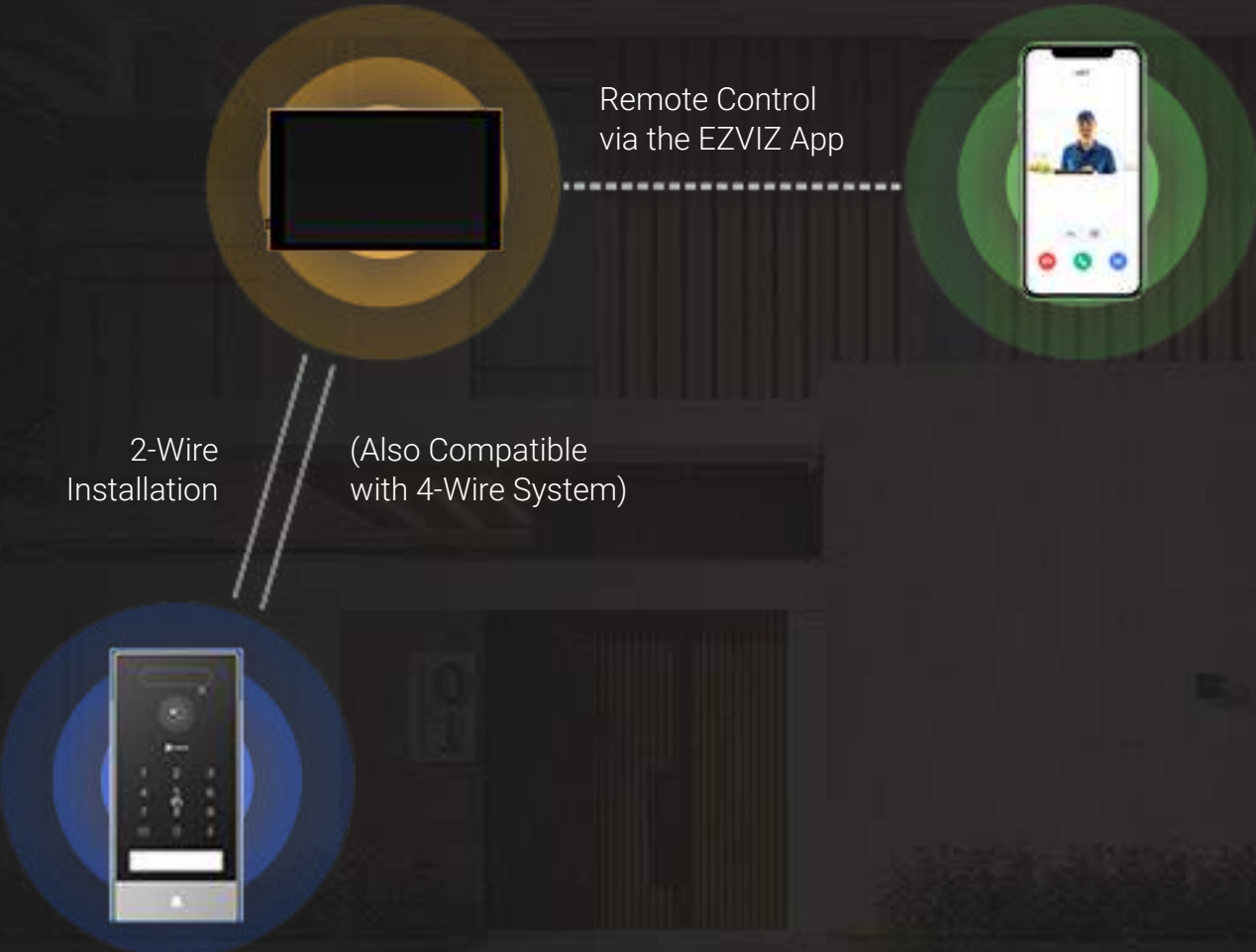
Supports microSD
Card (up to 512 GB) &
EZVIZ CloudPlay Storage²

A multi-purpose home guardian that does it all



Built to be reliable for villas

Perfect for those who seek to replace their bulky intercom systems or has just moved into the spacious villas, the HP7 Pro is your key to front door security and whole home control.



- Waterproof Doorphone
- Gate/Door Dual Controls¹

Wire Length		
	Ø 2×0.75 mm ²	Ø 2×1.5 mm ² Twisted Pair (TP)
0-50 m	0-100 m	Up to 120 m
1-10 m	1-10 m	1-10 m

An ultimate unlocking solution driven by AI

Powered by EZVIZ's self-developed technologies, the HP7 Pro verifies if you're the user and then unlocks the door for you personally with enhanced peace of mind.

Speedy

High-performance AI chip and dual-core CPU to ensure fast facial identification and palm vein recognition in less than 1.5 second³

Secure

Strict data protection and local processing on the on-device AI chip to prioritize your privacy⁴

Smart

Camera Visual Module + Imaging Algorithm

01

Simply extend your hand in front of the HP7 Pro⁶, and its integrated scanner will recognize your own hand vein patterns, granting access only to the authorized person.

Palm Vein Recognition Technology



02

Even if your hands are full after a day of shopping, the HP7 Pro will recognize you when you stand in front of the door and welcome you inside.

Facial Recognition Technology



Your access is always
unique and secure⁵

More ways to unlock your door

Heavy dangling keys can now be history. The HP7 Pro provides much easier access to verify your visitors.

Scan the QR code by
one-time visitors



Swipe open with smart RFID
by less tech-savvy families
(3 tags included)



Tap the touch screen
to open the gate side home



Enter the password
even if you forget your phone



Grant access to your visitors
remotely on your phone



Your sharp door viewer protects day or night



Stunning 4K UHD for more intricate details

As the pioneering system to introduce 4K resolution to the market, the HP7 Pro brings different scenes to life with clarity. With the touch screen by your side, you can enjoy crystal-clear footage right at your doorstep.

No worries to see clearly in the dark

Almost nothing can hide in the dark – with its advanced F1.6 large aperture, the HP7 Pro guarantees vibrant and crystal-clear live feeds around the clock. You also have the option to let the camera automatically switch between two night vision modes for your convenience.



ColorFULL Night Vision



Black & White Night Vision

Render eye-catching images with automatic processing

With advanced WDR and LDC technology, the HP7 Pro captures pictures with precision and accuracy, free from overexposure or distortion.



Balance Uneven Brightness

Correct Edge Distortion

Enhance front door security with smart detection

Whenever the HP7 Pro video doorphone detects human activity at your front door, it will send you mobile notifications right away in case there's an uninvited guest. You can always fine-tune the detection sensitivity and set up specific detection zones to reduce unwanted alerts.



AI-Powered Human Motion Detection



Adjustable Detection Sensibility



Customizable Detection Zone

FREE *No Subscription Fee*





A central hub for your whole-home security⁷

You can now keep an eye on your entire home security system through this elegant and compact touch monitor. It features a user-friendly dashboard that allows you to manage and organize all your EZVIZ security devices with ease.

An all-in-one touch monitor to communicate & control

The 8-inch color touch screen enables users to interact with visitors on a larger screen. It helps users manage their smart home with diverse functions.

Versatile features

Crisp live viewing

Gate/Door unlock

Video history and storage

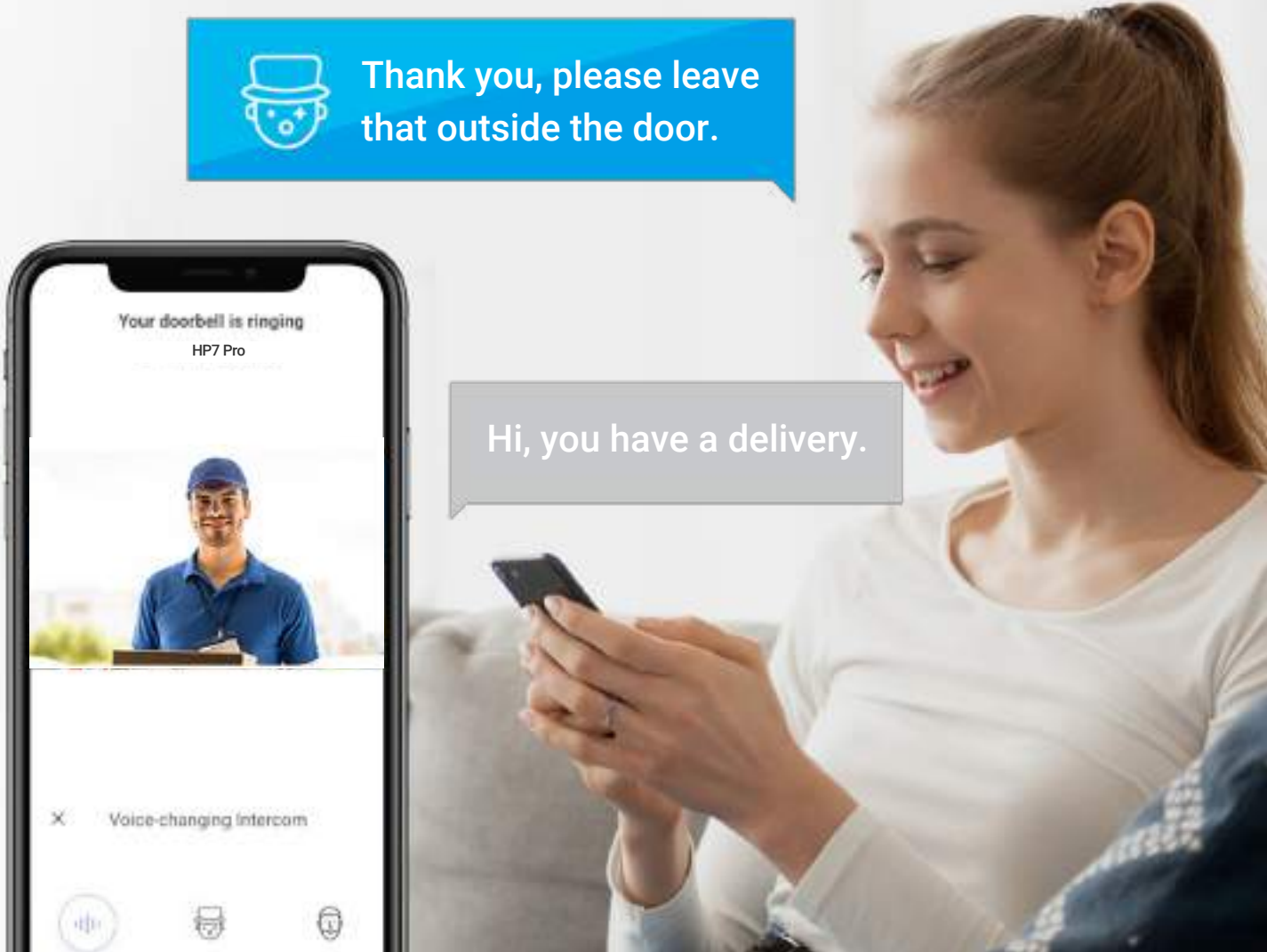
(Supports microSD card of up to 512 GB)



It's easier than ever to respond from afar

Even if you're not home, the HP7 Pro makes sure you don't miss a visitor. You can always use your phone to stay connected, and open the door for guests remotely. When responding to uninvited strangers, you can enable change the voice feature to keep yourself unidentified and to add another layer of protection.

-  Two-way talk
-  Remote unlock
-  Voice changer for privacy protection



Thoughtful features for additional convenience



Know the right door to knock with backlit name cards



Customize your pleasant ring with multiple ringtone choices⁸

Reliable performance, faster transmission

With the HP7 Pro, distance will barely bother you. Equipped with cutting-edge Wi-Fi 6 technology, it provides stable and fast connectivity between the indoor screen and your router, even in large homes with multiple walls.

Dual-Band Wi-Fi 6



2.4 GHz

5 GHz



Enhanced viewing pleasure with smaller video files

Compared to the prevailing H.264 video compression technology, H.265 creates a more fluid viewing experience with recorded videos. 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%.⁹

50% ↓
Video Storage Space

50% ↓
Required Bandwidth



Extra-large, safe storage options that you can trust

You can secure your recorded videos on a local microSD card of up to 512 GB, or subscribe to EZVIZ CloudPlay for fully-encrypted cloud storage.²



Supports MicroSD Card



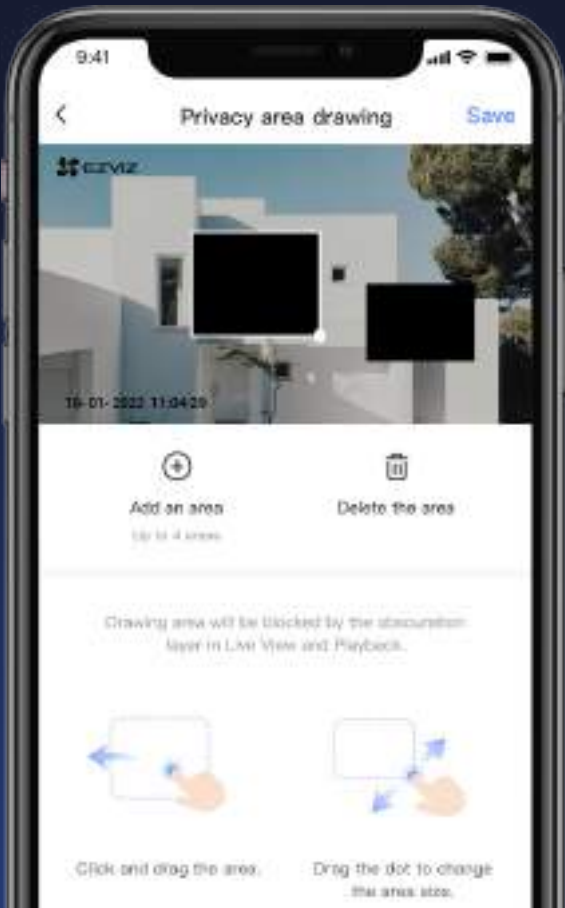
Supports EZVIZ CloudPlay Storage

We're committed to protecting with trust

We put security as the primary goal of every product and system that we build. We have also developed various privacy features and flexible settings that you can use at any time to feel even safer.

[Learn more about our security practices >](#)

Privacy Zone¹⁰



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 To check the installation requirements and product compatibility, please refer to the User Manual for detailed information.
- 2 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.
- 3 Data from EZVIZ Lab’s testing results based on standard conditions. The actual recognition speed may vary due to environmental factors.
- 4 The HP7 Pro does not store the original images of human faces or palm vein patterns. It only stores the processed images locally on the device to support the authorized unlocking as you wish.
- 5 The bio recognition technology in HP7 Pro operates ENTIRELY LOCALLY on the product that you control and manage yourself, and only serves the sole purpose of supporting your decision of unlocking.
During the whole course, the saved data always only contains technical value, i.e. the biometric data obtained from the templates you proactively provided in advance (such as facial images, palm vein template), which cannot be used to reconstruct your original data.
- 6 The optimal palm vein scanning distance ranges from 15 cm to 25 cm for adults, with a recommended distance of 10 cm for children. These distances may vary depending on environmental conditions, such as strong sunlight.
- 7 Please note that the HP7 Pro only supports managing EZVIZ devices.
- 8 Users are able to customize the ringtone sent by the indoor display by touch controls or via the EZVIZ App. The outdoor doorbell only provides one default ringtone and cannot be customized.
- 9 Data from EZVIZ Lab’s test results under standard conditions. Will vary with the frequency and complexity of the activity captured, and other environmental factors.
- 10 Users can draw in rectangles to customize up to 4 privacy zones.

Specifications

CS-HP7-R400-1W2TFD (Pro)

Outdoor Panel Parameters

Image Sensor	1/2.8" Progressive Scan CMOS (supports low light sensitivity)
Lens	2.0 mm @ F1.6,view angle: 158° (diagonal)
Day & Night	IR-cut filter with auto-switching
Max. Resolution	4K (3840 × 2160)
DNR	2D / 3D DNR
Video Compression	H.265 / H.264
Frame Rate	Max: 15fps; Self-adaptive during network transmission

Connection and Function

Connection Method	Wired connection (2-Wired, capable with 4-Wired), digital signal transmission
Transmission Distance	Φ 2 x 0.75mm ² , max. 50m Φ 2 x 1.5mm ² , max. 100m Twisted pair, max. 120m
Open the Door (Gate)	Support 2 wiring ports. 1-10m distance. The intercom panel provides a “dry”-contact connection, without an electric current, to connect to the button for automated gate, gate breaking capacity: 12V / 2A
Unlock (Electric strike plate)	Support 2 wiring ports. 1-10m 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 12V / 1.1A, otherwise should do as user manual.
Door Open Methods	1. Palm vein scan unlocking 2. Face recognition unlocking 3. RFID badge unlock (CPU card × 3 pcs) 4. App remote unlocking 5. Indoor display unlocking 6. Passwords unlocking 7. QR code unlocking

Outdoor Doorbell Interface

Audio Input	Built-in high-sensitivity microphone
Audio Output	Built-in high-power speaker
Doorbell Button	Supports, 1 button. Can set the light on or off.
Name Card	Supports, handwritten. 3 cards stickers included (1 sticker already on the intercom panel). Can set the light on or off.
Terminal	Two wiring ports to connect screen. Two wiring ports to connect gate. Two wiring ports to connect electric strike plate.

Functions

Intelligent Alarm	Smart human motion detection, Lingering Detection
Tamper Alarm	Supports
Video Intercom	Long-distance video two-way talk

General (Ourdoor Panel)

Operation Conditions	-30°C to 60°C , humidity 95% or less (non-condensing)
Ingress Protection Grade	Waterproof, with shield cover
Size	191.8 × 91 × 40 mm (7.6 × 3.6 × 1.6 inch)
Power Supply	24 V DC from screen

Specifications

CS-HP7-R400-1W2TFD (Pro)

Indoor Monitor

Display size	8" touch screen
Resolution	1280 × 800

Interface

Audio Input	Built-in high-sensitivity microphone
Audio Output	Built-in high-power speaker
Button	Screen On / Off Button
Terminal	Two wiring ports are available for connecting the outdoor doorbell. Two wiring ports are available for connecting the power supply.
Storage	Supports microSD card (max. 512 GB)

Network Parameters

Protocol	EZVIZ Cloud Proprietary Protocol
Interface Protocol	EZVIZ Cloud Proprietary Protocol
Protocol	EZVIZ Connect Protocol

Wi-Fi Parameters

Wi-Fi Standard	IEEE 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac, 802.11ax
Frequency Range	2.4 GHz ~ 2.4835 GHz; 5.15 GHz ~ 5.35 GHz; 5.47 GHz ~ 5.725 GHz
Channel Bandwidth	Supports 20 MHz @ 2.4 G, supports 80 MHz @ 5G
Security	WPA / WPA2 / WPA3, WPA-PSK / WPA2-PSK / WPA3-PSK
Transmission Rate	11b: 11 Mbps, 11g: 54 Mbps,11a:54 Mbps, 11n: MCS7, 11ac:MCS9, 11ax:MCS11

General (Indoor Monitor)

Multiple Ringtones	Up to 20 ringtones
Functions	Live view, playback, two-way talk, video call
Operation Conditions	-10°C to 45°C, humidity 95% or less (non-condensing)
Size	200.3 × 123 × 15 mm (7.9 × 4.8 × 0.6 inch)

General (HP7 Pro Kit)

Weight	Net weight: 1130 g (39.9 oz) With package: 2418 g (85.3 oz)
Power Supply	DC 24V / 1A power supply, adaptor (100- 240Vac)
Power Consumption	8 W, Max. 36 W

In the box

- 8" Touch Screen Monitor
- Wall Bracket for Monitor
- Power Adapter for Monitor
- Intercom Panel (Doorbell) with a Weather-Proof Shield
- Drill Template for Intercom Panel
- Drill Template for Monitor
- Screwdriver
- Power Supply Jack Connector Cable
- Badges × 3
- Screw Kit × 2
- Name Card × 3
- Wires and Wire Connectors × 2
- Regulatory Information × 3
- Quick Start Guide

Certifications

CE / REACH / WEEE / RoHS

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