

HF-PVR15

Portable Biometric PVR Terminal



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HF-PVR15 is a secure handheld terminal designed for mobile identity verification. Its standout feature is advanced palm vein recognition, a highly secure and contactless biometric method. Paired with face recognition, it offers flexible authentication. Built for performance and portability, it features an 8000mAh battery, Android 11 OS, making it perfect for access control, field work, and secure mobile applications.

Next-generation authentication solutions

Smart device with dual authentication using palm vein and facial recognition.(Portable Biometric PVR Terminal (Ruggedized Model))

In harsh operating environments characterized by high temperatures, high humidity, and dust, traditional or physical card-based management methods have proven inadequate. HFSecurity portable biometric PVR terminal(HF PVR15), utilizing revolutionary live internal feature recognition technology, provides unparalleled reliability, security, and management efficiency for labor-intensive environments.

Core Technology:

Unstealable and Unforgeable Live Biometric Authentication

★Palm Vein Recognition Technology(PVR Technology)

☑Inherently Secure:

Identifies the unique vein pattern located beneath the skin of the palm. This feature is internal live biometric information and

cannot be replicated or stolen through contact residue, photos, or models, fundamentally preventing identity theft and providing superior anti-counterfeiting capabilities.

☑Environmental Adaptability:

Completely unaffected by moisture, oil, dust, or minor abrasions on the hand surface. Particularly suitable for environments such as fisheries processing, construction sites, palm oil plantations, and manufacturing, allowing employees to pass verification quickly without needing to stop for cleaning.

★Live Facial Recognition Assistance

☑Dynamic Anti-Counterfeiting:

Built-in algorithms effectively defend against photo and video recognition.

☑Flexible Verification Modes:

Supports "Palm Vein Priority," "Fast Facial Recognition," and "Dual Authentication" modes, allowing flexible configuration based on the security level requirements of different identities (e.g., students & teachers).

Product resilience designed for demanding environments.

Long-lasting Battery Life and Always-On Connectivity

★Extended Operating Capability:

An 8000mAh high-capacity battery ensures the device can operate continuously for 7-8 hours on a single charge, perfectly covering standard shift durations and supporting mobile inspections and temporary deployment site operations.

★Full Carrier Network Compatibility:

Ensures stable access to major mobile networks such as [Telkomsel, XL Smart Smart, and Indosat], enabling real-time data synchronization and cloud management at remote project sites.

Industrial-Grade Rugged Design

★IP Protection Rating:

Suitable for outdoor use.

★Dual Camera System:

8-megapixel front camera and 13-megapixel rear camera, optimized for facial recognition; extended applications include material verification, document recording, or ID scanning.

Customized Development

★Tailored solutions based on your business processes.

Localized Services:

★Local language support (Vietnamese, Indonesian, French, etc.), technical support, on-site installation and training, and rapid response maintenance.

Marketing:

★Collaboratively explore markets, educate users, and establish industry benchmarks.

Free:

★SDK, API

Staff Attendance



Employee Attendance Management

★Eliminating False Timekeeping

☑Scenario:

Large industrial parks, construction sites, factory workshops.

☑Pain Points:

Widespread proxy clocking-in, inefficient and error-prone manual record-keeping, frequent disputes over working hours and wages.

☑Solution:

- Utilizing palm vein recognition technology to achieve a unique binding of "person-time-location," completely eliminating identity fraud.
- Data is uploaded in real-time via 4G network, allowing managers to access real-time data on the number of employees present, attendance rates, and reports on late arrivals and early departures.
- Automatic generation of working hour statistics, seamlessly integrated with the payroll system.

☑Value Creation:

Achieving 100% accurate and transparent attendance data, reducing management costs, and significantly reducing labor disputes.

Meal Distribution on Verification

Verified meal and welfare distribution.



★Control costs and eliminate waste

☑Scenario:

Employee cafeteria, school meal service, welfare distribution at project sites.

☑Pain points:

Duplicate claims and fraudulent claims lead to serious resource waste and uncontrollable costs.

☑Solution:

- Bind (claiming) privileges to employees biometric data, implementing a "one person, one verification one claim per time" strategy.
- The system automatically records and limits the number of claims, and can set specific claiming periods for different teams and night shift personnel.

☑Value creation:

Achieves precise control over material distribution, expected to reduce unnecessary consumption by 20%-30%, and improve the fairness of welfare distribution.

Kitchen Team Attendance

Verify authenticity.



★Strengthening Compliance and Security

☑Scenarios:

Food processing kitchens, sterile workshops, critical warehouses, server rooms.

☑Pain Point:

False employee attendance records.

☑Solution:

- Kitchen Team Attendance:

Only chefs who have passed health checks and are registered are allowed entry. Records are traceable, meeting food safety audit requirements.

☑Value Creation:

Enhances regional security levels, establishes auditable access records, and meets international and local compliance standards.

Specification

Dimensions	191mm*80mm*23.1mm
Weight	415g (including battery)
Display	5.0" HD 1280*720 IPS Capacitive Multi-Touch Screen
Camera	13MP Rear-Facing; 8MP Front-Facing,support face recognition
Battery	3.8V/8000mAh lithium battery;
Power Supply	Output DC 5V/2A;
Ports	USB Type C X 1 , USB Type A X 1 , DC X 1
Wireless	Wi-Fi 2.4GHz/5GHz ; Bluetooth 4.2(BLE)
Physical Key	scanner power volume+,voume-
Ingress Protection	IP65

Hardware

Operating System	Android 11 or Above
CPU	4XCortex-A53 up to 2.0Ghz/4XCortex-A53 up to 1.5Ghz
Memory	2GB+32GB
Audio	Speaker *1
NFC	Type A/B, Mifare, 13.56MHZ, Comp liance with ISO14443

Palm Vein

Palm-Scanning Angle	Pitch angle 30°, Roll angle 30°, Yaw angle 360°
Comparison Mode	1v1, 1vN
Accuracy	FAR 0.0001% FRR 0.01%
Host Computer Processing Requirements	Recommended 4*A17 @1.8GHZ
Algorithm Deployment	Supports local deployment
Resolution Time	450ms
Image Processing	Built-in high-performance ISP / Built-in Palm AE
Security	Palm feature information encryption

Scanner(Optional)

1D/2DBar code Scanner	UPC/EAN/JAN , GS1DataBar , Code 39 , Code 128 , Code 32 , Code 93 , Codabar/NW7 , Interleaved 2 of 5 , Code 2 of 5 , Matrix 2 of 5 , MSI , Telepen , Trioptic , China Post
2D Stacked	PDF417, MicroPDF417 , GS1 Composite Scanner

Network

4G: TD-LTE/FDD-LTE, 3G: WCDNA, 2G: GPRS/GSM ;
Support Telkomsel, XL Smart, Indosat

Card Slots

TF Card*1 , SIM Card*2+PSAM*1or , SIM Card*1+PSAM*2