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The Future of Contactless Biometric Security

Nuveq Embedded Palm Vein Recognition Terminal (EP-100PV)

Secure. Contactless. Intelligent.

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The Invisible Key: Internal & Unfakeable

Unlike fingerprints or facial features which are external and copyable, palm vein patterns are hidden beneath theskin. This internal structure makes them virtually impossible to replicate or steal.

Internal & Unique: Identification is based on the complex blood vessel network inside the palm.

Unforgeable: Subcutaneous patterns effectively protect user privacy and make replication extremely difficult.

Liveness Detection: Infrared sensing prevents fake or reproduced biometric attacks (spoofing).

Intelligent Engineering on a Linux Core

Linux Operating System

Stable, enterprise-grade architecture for continuous operation.

Infrared Imaging & Optical Sensing

Multi-spectrum scanning to penetrate the skin surface.

Integrated Molding

Durable ABS Structure designed for embedded installation.

AI Recognition Algorithm

Self-developed proprietary logic for precision mapping.

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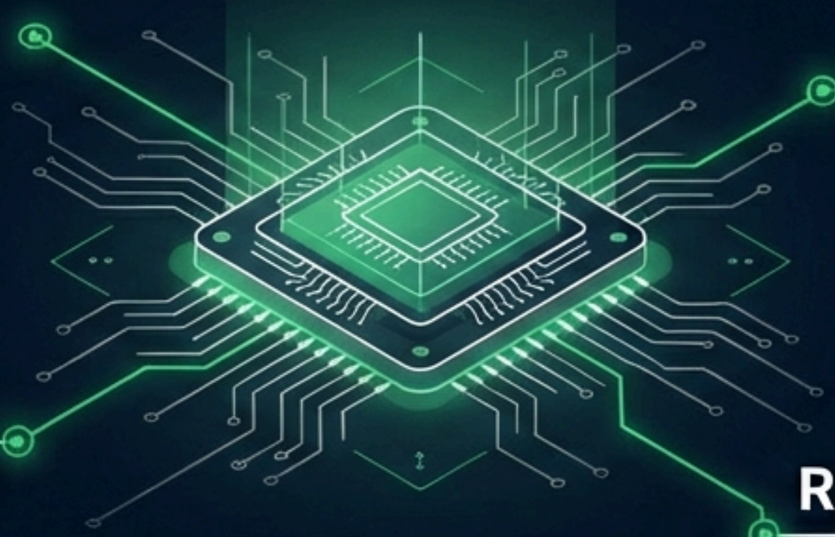
Intelligent Edge Processing

Operating System

Robust Linux-based architecture



Storage Capacity

100,000 Event Logs

10,000 User Templates

Operating Range

-20°C to 60°C (Operation)

Reliability

Watchdog functions to prevent freezing

High-Precision Authentication in Milliseconds

< 0.5s

Recognition Speed

Instant access for high-traffic flow.

< 0.0001%

False Acceptance Rate (FAR)

Enterprise-grade security precision.

< 0.4%

False Rejection Rate (FRR)

Reliable access for authorized users.

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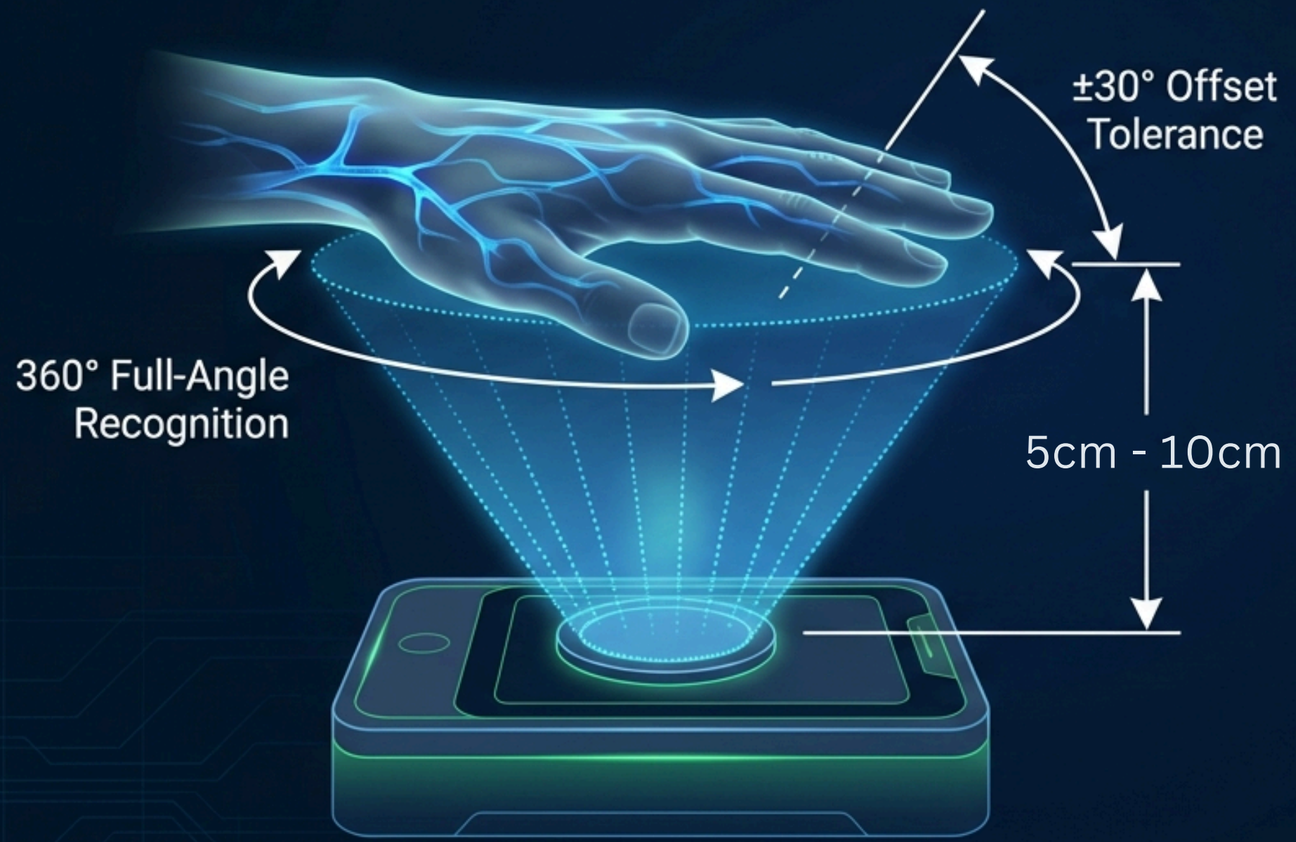
A Frictionless User Experience

Forgiving tolerances for natural interaction.



- **Non-Contact & Hygienic:** Users do not need to touch the surface, reducing germ transmission.

Uncompromising Performance in Any Environment

Water Mist Tolerance: maintains recognition even when the camera lens is obscured by condensation or mist.

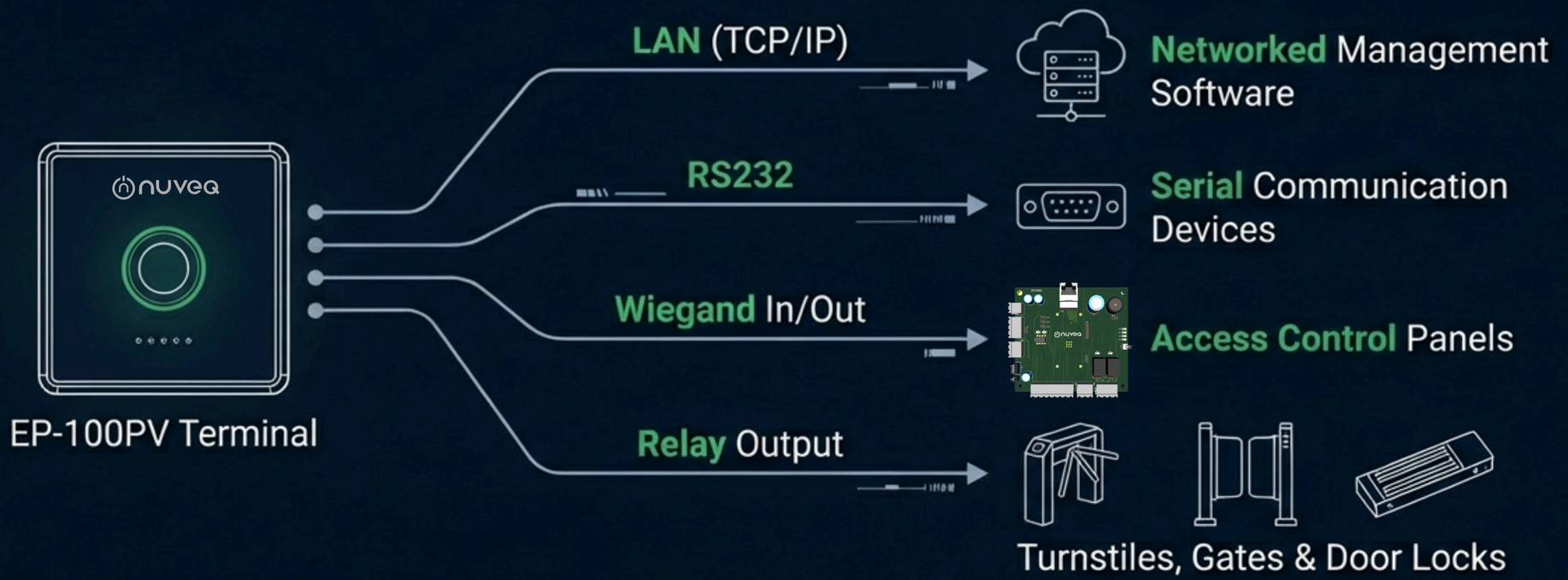
Wet Hand Operation: Hygiene-friendly performance that isn't disrupted by water on the skin.

Backlight / Strong Light: Instant recognition in direct sunlight or high-contrast lighting conditions.

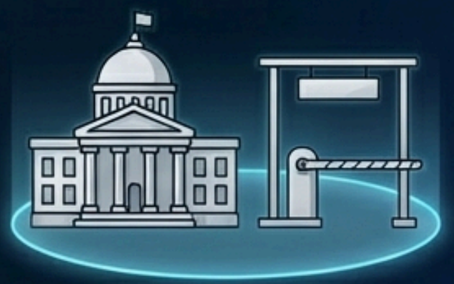
Extreme Temperatures: Reliable operation from -20°C to 60°C.

Seamless System Integration

Flexible connectivity for diverse security ecosystems.



Designed for Critical Access Points



Government & Defense

Customs, Immigration Checkpoints, and Border Defense facilities.

Commercial Infrastructure

Smart Office Buildings, Logistics Hubs, and Ports.

Residential

High-end Communities, Gated Zones, and VIP areas.

Hardware Integration

Compatible with Turnstiles, Speed Gates, Kiosks, and Wall-mounts.

Technical Specifications

Model No	**EP-100PV**
Palm Vein Capacity	**10,000** Templates
Log Storage	**100,000** Records
Operating System	Linux
Recognition Accuracy	FAR **<0.0001%** / FRR **<0.4%**
Communication	LAN, RS232, Wiegand In/Out, Relay Output
Operating Voltage	DC12V / 2A
Working Environment	Indoor / Outdoor (shelter)
Temperature / Humidity	**-20~60°C** / **10~95%** (No freeze)
Dimensions	86 * 86 * 30mm

RoHS COMPLIANT

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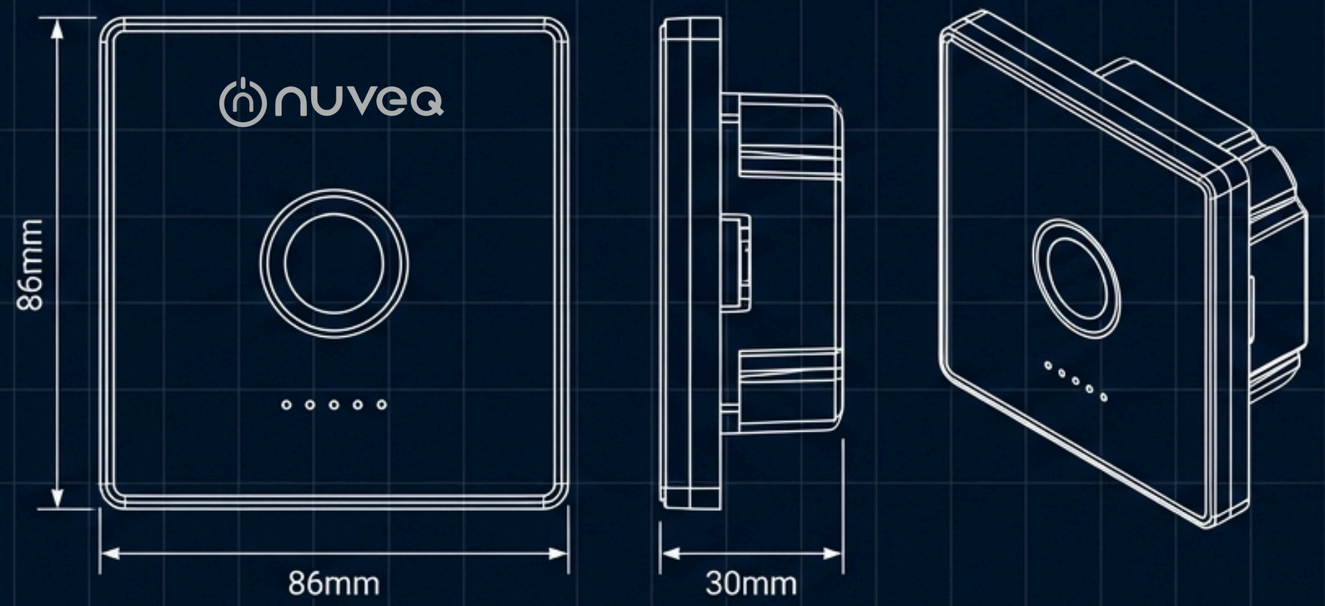
Compact, Embedded Design



- **Build Material:** Integrated Molding, Durable ABS Structure
- **Installation:** Embedded installation for flush finish, Wall Mounting, or Mounting Box
- **Standard:** Fits standard architectural integration requirements

Secure Your Future Operations

Take the first step towards a more secure and efficient access control system.

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