

NEXU-X

EP-100PV

Embedded Palm Vein Recognition Terminal

Non-contact Identification | Embedded Installation
Applicable to Multi- scenarios



NUVEQ EMBEDDED PALM VEIN RECOGNITION TERMINAL

SECURE, CONTACTLESS BIOMETRIC IDENTIFICATION

The Nuveq Embedded Palm Vein Recognition Terminal is a Linux-based biometric authentication solution designed for high-security access environments. Using advanced infrared imaging and proprietary AI recognition algorithms, it accurately captures and verifies palm vein patterns for reliable, contactless identification with built-in liveness detection.

Engineered for embedded and wall-mounted deployment, the terminal integrates seamlessly with access control systems, gates, turnstiles, and self-service kiosks. It is ideal for applications across commercial buildings, residential communities, customs and immigration, border security, ports, and other controlled-access facilities.

High-speed Authentication

Recognition Speed <0.5s



All-angles Recognition

360° full-angle recognition



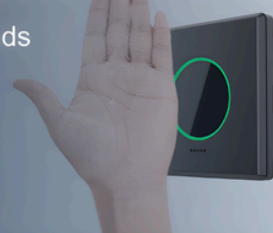
Recognizable with Offset

The palm can still be identified if it is offset by $\pm 30^\circ$



Normal Recognition of Wet Hands

Not afraid of wet hands



Recognizable in Water Mist Environment

Normal recognition when terminal camera is in water mist state



Backlight Recognition

Not afraid of strong light and backlight, instant recognition



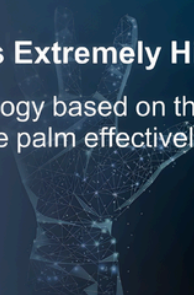
Uniqueness of Identification Characteristics

Individual palm vein patterns are unique



Authentication Security is Extremely High

Biometric identification technology based on the blood vessel network inside the palm effectively protects user privacy



SPECIFICATIONS

MODEL NO:	EP-100PV
Equipment Library Capacity:	10,000 Palm Vein
Storage Records:	100000
Structure:	Integrated Molding, ABS Structure
Operating System:	Linux
Palm Vein Recognition Accuracy:	FAR<0.0001%, FRR<0.4%
External Communication:	LAN, RS232, relay output, Wiegand in/out
Operating Voltage:	DC12V/2A
Operation Temperature:	-20~60°C
Storage Temperature:	-30-70°C
Operation Humidity:	10 ~ 95% (No freeze)
Working Environment:	Indoor / Outdoor (shelter)
Installation:	Wall Mounting or Mounting Box
Dimension:	86 * 86 * 30mm

