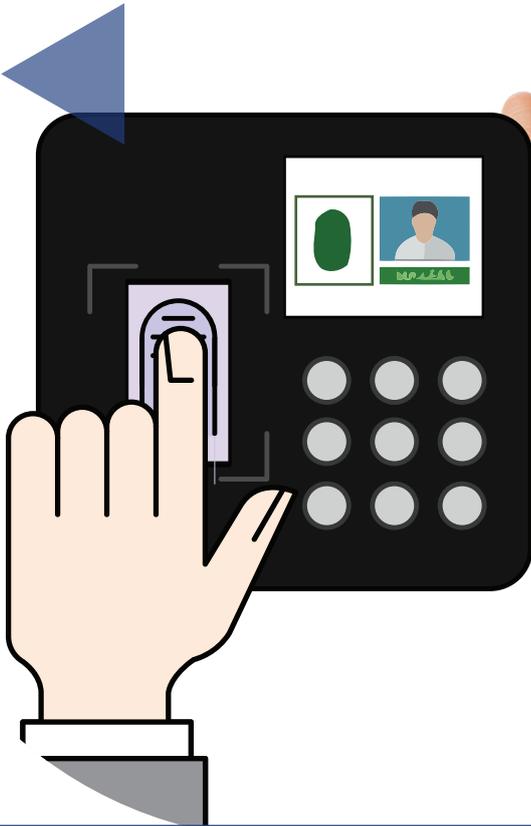




# Finger Vein Authentication Solution

The key to advanced security and convenience



## ACCURATE AND FRIENDLY IDENTITY MANAGEMENT

With the rapid advancement of information and mobile technologies, the demand for a secure operating environment has increased dramatically. Transaction Systems introduces a Finger Vein Authentication solution, that allows individuals and businesses worldwide to operate in a safe and secure digital environment.

Finger vein recognition is a type of biometric identifier using finger vein patterns for verifying or identifying a person. Finger vein technology is a secure, reliable, accurate, non-invasive biometric method which provides fast and highly accurate identity authentication for access to data or secure areas. Unlike other biometric solutions, finger vein patterns are virtually impossible to replicate, enabling the most secure and accurate biometric technology.

## FINGER-VEIN RECOGNITION CHARACTERISTICS

Finger vein recognition solutions combine the highest level of accuracy and security with speed and efficiency. These advantages can be attributed to the following features:



Finger vein patterns are unique to each individual—even among identical twins—with a very low false acceptance rate (close to zero).



Placing a hand or finger is less intrusive compared to other biometric technologies.



Since veins are located inside the body, it is extremely difficult to read or steal, so the risk of forgery or theft is eliminated.



Finger veins do not leave any trace during the authentication process, so they cannot be duplicated.



Finger vein patterns remain relatively constant through the adult years, so it is not necessary to re-enroll the vein pattern.



Finger veins are less likely to be influenced by changes in the weather or the physical condition of the individual.



Rashes, cracked and rough skin do not affect the result of authentication.

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VEIN RECOGNITION DEVICE

## MOREOVER, THE FINGER VEIN AUTHENTICATION METHOD OFFERS:

- Is an easy to use, innovative alternative to traditional OTP or Chip/PIN techniques
- Removes the reliance on PIN in various devices such as ATMs
- Offers high level of self service capability for clients
- Allows for smooth 'frictionless' login and authorization of payments with no PIN/OTP within high-volume transaction environments

## SMOOTH, SECURE AND CONVENIENT IDENTITY MANAGEMENT

- Identity Management – Single Sign On (SSO)
- The combined HW & SW package enables organizations to implement a secure, cost effective identity management solution.

## FINGER VEIN VS OTHERS

Compared to other biometrics the finger vein authentication has all the strengths without any of the weaknesses

	ACCURACY	SECURITY	SPEED	EASY OF USE	PRIVACY	USER RESISTANCE	SIZE	COST
 FINGER VEIN	High	High	Fast	High	High	Low	Small	Low
 FINGER PRINT	Low	Low	Fast	Fast	Very Low	High	Small	Low
 IRIS	High	Medium	Slow	Low	Medium	High	Large	High
 FACE	Low	Low	Medium	Low	Low	Low	Medium	Medium

An easy-to-use, fast and accurate system to record employees' working hours and site security; suitable for all types of businesses, from SME's up to large organizations, it manages time & attendance, as well as security and software requirements, in one integrated security management system.