Fujitsu PalmSecure

The solution for user-friendly and reliable authentication –
more secure than the competition.

A guideline for biometric authentication.

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Biometric authentication:
You are the only key

Quality of biometric systems

The false acceptance rate (FAR) is used to identify the security level of a biometric system, and the false rejection rate (FRR) is the benchmark for describing the usability of a biometric system. The chart below provides an overview of the precision of the various technologies:

Authentication Method	FAR (%) =	IF FRR (%) =
Face recognition	~ 1.3	~ 2.6
Voice pattern	~ 0.01	~ 0.3
Fingerprint	~ 0.001	~ 0.1
Finger vein	~ 0.0001	~ 0.01
Iris/retina	~ 0.0001	~ 0.01
Fujitsu PalmVein	< 0.00001	~ 0.01

a) Visible ray image

b) Infrared ray image

c) Extracted vein pattern
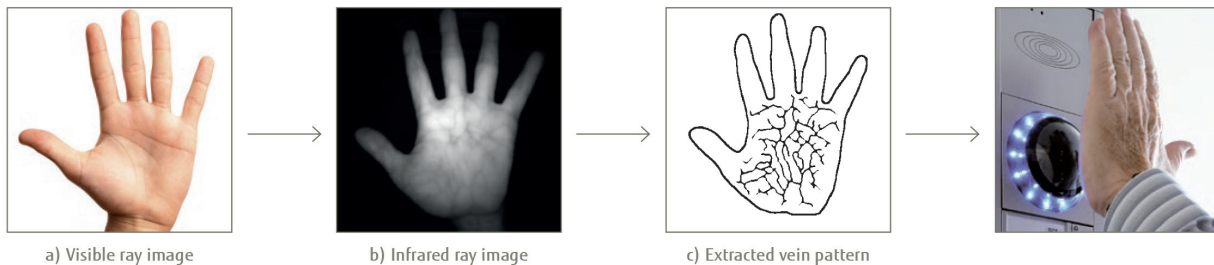
Benefits of palm vein technology

- Contactless operation
  - Hygienic
  - Less resistance from users
  - Suitable for public use
  - Quick recognition
- Applicability rate
  - Almost everyone can register (fingerprints: two to three percent cannot register)
  - More complex: There are more factors to be differentiated in order to avoid failures
- Uses information from inside the body
  - Difficult to forge palm vein data (blood is always flowing)
  - Palm veins are unique and permanent throughout our lives
- High performance, high security
  - FRR = 0.01 percent (rejection rate for authorized users)
  - FAR = 0.00001 percent (acceptance rate for un-authorized users)

PalmSecure truedentity®
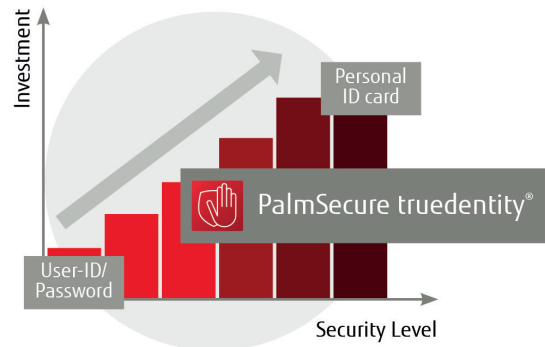
A brief overview of PalmSecure's features in

Highly accurate
PalmSecure has a proven false rejection rate of 0.01 percent and a false acceptance rate of less than 0.00001 percent. No other system in the world can match this performance

Easy to use
PalmSecure is effortless to use. The scanning process is conducted in a simple and natural way that is not awkward for the user or difficult in any way. Users intuitively sense the natural quality of the system and feel no psychological resistance to it.

Hygienic and non-invasive
Because the system is contactless, it is completely hygienic – a consideration of significant importance to everyone, but especially to those in hospitals and other medical settings. In addition, PalmSecure is non-invasive: The near-infrared rays used in the scanner have no effect whatsoever on the body.

Can be embedded
The PalmSecure system can be embedded in all kinds of flat type products, including laptop computers, copiers, printers, fax machines, wall-mounted room access systems, and eventually even mobile phones.

A wide range of applications

Retail solutions

PalmSecure "Jacket" option for the STYLISTIC Q775 tablet, used for customer authentication in retail stores (cashless payment) for B2B customers.

- Self-authentication kiosks
- Self-registration kiosks
- Cashless payment (for example, cafeterias, dining halls)
- At any point of sale as a match on device

Office and company solutions

PS Time & Attendance Terminal & Software is available for all enterprises that are seeking secured time-management solutions for controlling and monitoring employee attendance for wage or insurance purposes. It is perfect for advanced systems like cardless employee time recorders and for cardless, keyless access to doors, computers, printers, copiers, and other office equipment.

Appropriate for environments with:
- Hygienic requirements, for example, hospitals
- Frequently changing staff, including restaurants and hotels
- On-call staff with part-time contracts, such as weekend/summer/ winter employees
- Private schools

Healthcare solutions

PalmSecure can be integrated into an existing medical records system to unfailingly guarantee patient identity. PalmSecure stops the wrong medicines or medical services from being provided to patients, prevents medical identity theft/insurance fraud, and eliminates duplicate medical records. In addition, PalmSecure systems can greatly accelerate registration efficiency and convenience and foster the development of patient services.

PalmSecure's option for the STYLISTIC Q775 tablet can to be used in hospitals and other medical venues. A big advantage is the hygienic contactless user interface.
- For patient identification
- For mobile visits
- For treatment room and rehabilitation center access

Finance solutions

Identity fraud and card fraud are major challenges in the finance sector. Fujitsu offers banks throughout the world a system that combines palm vein authentication with the use of a smart card.

Fujitsu PalmSecure enables:
- Secured financial (online) transactions via PC
- Building infrastructure security, for example, locker rooms
- ATM or safe deposit-box integration

Facility, building, and data center solutions

PalmSecure Physical Access Control Terminal/Controller/Software is available for all enterprises that are looking for secured solutions to allow, control, and monitor the access of authorized individuals to secured areas in buildings, facilities, data centers, and control centers.

- Company employees; guests and members of hotels and sport and fitness centers; business people in VIP areas/lounges
- Access control management for secured areas
- Sensitive areas like control centers, airports, and research and development
- Data centers or rack access management
- Parking bays or underground tenants parking

Public-sector solutions

Fujitsu's PalmSecure multi-modal middleware can provide highly secure authentication for large segments of the population:

- National ID cards
- Social security/welfare applications
- Immigration/visa services
- Public library systems
- Airport security

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