Fact Sheet 
FUJITSU PalmSecure for mobile devices

Award-winning palm vein imaging technology for secure identification and authentication

Fujitsu has always been passionate about designing products to protect our customers’ business-critical information and privacy long before stories about enterprise level security breaches were headline news. To this end, we have developed and adopted a number of technologies from fingerprint and palm vein sensors to TPM chips, BIOS capabilities, and web privacy enhancements to Advanced Theft Protection.

As a result, Fujitsu mobile devices are now as well-known for their comprehensive security features as they are for outstanding functionality. Fujitsu has developed the world’s smallest and slimmest palm vein authentication sensor that is now integrated in select FUJITSU LIFEBOOK® notebook and STYLIS® tablet devices.

Located inside FUJITSU tablet PCs and notebooks is a powerful palm vein based authentication solution that utilizes industry-leading vascular pattern biometric technology called Fujitsu PalmSecure®. This award-winning innovation provides a highly reliable, contactless biometric authentication solution that is extremely easy to use and extremely difficult to bypass.

The PalmSecure sensor uses near-infrared light to capture a person’s palm vein pattern, generating a unique biometric template that is matched against pre-registered user palm vein patterns. The palm vein device can only recognize the pattern if the blood is actively flowing within the individual’s veins, which means that forgery is virtually impossible.

This advanced, vascular pattern recognition technology provides highly reliable authentication. The PalmSecure technology false accept rate is just 0.0008 percent with an exceptional false reject rate of 0.01 percent, all in a small form factor that generates extremely fast authentication which is usually under one second.

Today, passwords, personal identification numbers (four-digit PIN numbers), and ID cards are used for personal identification. However, cards can be lost or stolen and passwords and numbers can be guessed or forgotten. Another issue is how to handle growing numbers of passwords. These result in higher security risks. Passwords are often recorded in places that are not saved or on paper, which results in passwords being lost, copied, stolen, or forgotten—this creates extra administration effort that is necessary to create new passwords and cards. PalmSecure technology provides the solution.

In our society of ubiquitous networks, where individuals can easily access their information anytime, anywhere, we are also faced with the risk that others can easily access the same information – anytime and anywhere. Because of this risk, personal identification technology that can distinguish between registered, legitimate users and imposters is generating increasing interest.

FUJITSU PalmSecure technology has been deployed worldwide in an expansive range of vertical markets, including security, financial/banking, healthcare, commercial enterprises and educational facilities.

Features

- **Contactless operation**
  - Hygienic and quick recognition
  - Suitable for shared use; less resistance from users

- **Biometric uniqueness**
  - Difficult to forge palm vein data (blood is always flowing)
  - Palm veins are unique and permanent throughout our lives

- **High applicability**
  - Almost everyone can register palm vein pattern (2-3% cannot register fingerprint)
  - More complex, more secure: There are more unique factors in veins to be differentiated making authentications extremely difficult to forge.

- **Ultimate security**
  - False Rejection Rate 0.01% (for authorized users)
  - False Acceptance Rate 0.000008% (for unauthorized users)
  - PalmSecure Authentication recognized by leading International Security Bodies, including International Common Criteria and CNIL
Overview of FUJITSU PalmSecure features

**Highly Accurate**
- PalmSecure has a proven false rejection rate of 0.01 percent and a false acceptance rate of less than 0.00008 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 or difficult for the user.
- Users intuitively sense the natural quality of the system and feel no psychological resistance to it.

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

**Key vertical: Healthcare**
Fujitsu tablets and notebooks with PalmSecure technology can be optimally utilized in hospitals, clinics and other medical environments. The primary advantage of these devices in this vertical market is the hygienic, contactless and efficient user authentication experience. PalmSecure technology allows doctors, nurses, and other healthcare professionals to effortlessly “swipe in” to their system in an extremely secure fashion without touching an interface.

**PalmSecure Meets FUJITSU Workplace Protect security software**
FUJITSU Workplace Protect is a security software suite included with your FUJITSU LIFEBOOK notebook or STYLISTIC tablet device consisting of several authentication modules designed for different working environments and security levels. It relies on biometrics as well as more “traditional” authentication methods.

Please contact your Fujitsu Sales team for any questions about LIFEBOOK or STYLISTIC products with PalmSecure.

## About Fujitsu America

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