

PalmSecure®

Palm Vein Authentication Solution

Award-winning Palm Vein Imaging Technology For Secure Identification and Authentication

Robust biometric authentication technology for your high-security applications

Accurate and Secure

- Advanced biometric authentication algorithm delivers ultra-low FAR (false accept rate) and FRR (false reject rate)
- Contactless palm vein authentication is hygienic and noninvasive - No Residual Trace Technology
- Encrypted repository for template storage & enterprise level event logging capability
- PalmSecure Authentication recognized by leading International Security Bodies, including International Common Criteria and CNIL

Speed and Extensibility

- Quick-start deployment across the enterprise raises security and adds value
- SDK (Software Development Kit) for organizations deploying PalmSecure technology
- Fast and easy registration with virtually no enrollment error.
- Biometric integration for third party Single Sign-On (SSO) solutions with PalmSecure OmniPass™



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PalmSecure

Palm Vein Authentication Technology

The Fujitsu PalmSecure technology is a palm vein based strong authentication solution that utilizes industry-leading vascular pattern biometric technology. This award-winning innovation offers a highly reliable, contactless biometric authentication solution that is non-intrusive and easy to use.

PalmSecure technology has been deployed worldwide in a wide range of vertical markets, including security, financial/banking, healthcare, commercial enterprises and educational facilities. Additional applications include physical access control, logical access control, retail POS systems, ATMs, kiosks, time and attendance management systems, visitor ID management and other industry-specific biometric applications.

The Fujitsu 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 0.00008 percent with an exceptional false reject rate of 0.01 percent, all in a small form factor that generates extremely fast authentication, usually under one second.

To ease work flow and protect digital assets, Fujitsu also developed PalmSecure OmniPass™ which seamlessly works with many leading Single Sign-On (SSO) software solutions and increases security, while significantly reducing the costs associated with password management.

PalmSecure Specifications

Supply voltage (from USB power)

4.4 to 5.4V (Input current: up to 500mA)

Power consumption

2.5W or less

FAR (false accept rate)

0.00008% (in guideless mode)

FRR (false reject rate)

0.01%

Palm focal length (from sensor surface)

2 inches from the surface of the sensor (+/- a half inch)

Reliability

MTBF (mean time between failure):
1 million hours

Authentication response time

Less than 1 second

Sensor surface material

Glass

Acoustic noise

None

Operating temperature

0°C to 60°C

Outer dimensions (sensor only)

1.37(W) x 1.37(D) x 1.06(H) inches

Supported OS

Windows XP SP3 or later; Windows 7 SP1 or later
Windows 8; Windows 8.1 (SDK V32 only)
Windows Server 2008 R2 SP1 or later; Windows Server 2012
Linux (kernel 2.6.32 or later)

Hardware Components	
FAT13M3S1	PalmSecure Sensor (includes IP License)
FAT13H1B1S	PalmSecure Silver Shell Sensor Holder
F3U138-06	PalmSecure USB Cable
FAT13G1B02	Flip Flop Hand Guide
FAT1362C02	Mouse Hand Guide
FAT14M3M01	PalmSecure Mouse
FAT13G1C02	PalmSecure Hand Guide
Software Components	
FAT13S1C01	SDK, V32

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