

Items	Specification	Reference
Dimensions	W35 x D35 x H27 mm	
Weight	Below 50g	
Supply Voltage	4.4 to 5.4V	
Power Requirement	Below 2.5W	Powered by USB Bus Power USB2.0 recommended
Interface	USB2.0/1.1(Hi speed/Full Speed) * In case of using USB1.1, the host device must be UHCI.	
Interface Connector	USB mini-B (5 pins)	
Interface Cable	Maximum 4m (USB2.0) USB compliant cable connector must be used.	
Operating Temperature	0 to 60 degree centigrade	
Electrostatic Withstand Voltage	8kV (Indirect, Direct, Contact)	No direct sun light to sensors. No halogen/incandescent light to sensors.
Operating luminance	Ambient light (Sun light): below 3000 lux Fluorescent light: below 3000 lux Halogen/incandescent lamp: below 700 lux	
Photography Distance	From sensor to palm: 50mm (+/- 10mm)	
Supported OS	Windows (client side) : Windows2000 Pro (SP4 or above) : Windows XP Pro (SP2 or above) : Windows VISTA (SP1) Windows (server side) : Windows Server 2003 Linux (both client & server side) : Redhat Linux Ver.3 : Redhat Linux Ver.4 : Redhat Linux Ver.5	
Encryption Method	AES (Key Length higher than 128bit)	
Enrolment	Requires 2 scans Note: Excluding testing	
FRR/FAR	FRR: Below 0.01% (Allowing 1 time re-scan) FAR: If meeting the above condition, Below 0.00008%	Measurement methods recommended by JIS



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**PalmSecure**<sup>TM</sup>



**Biometric Authentication System**  
*Your hand is the key*

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**Maximum security**

**Hygienic handling**



**Maximum precision**

### Added Security with PalmSecure

The PalmSecure sensor developed by Fujitsu is a biometric authentication solution offering optimum levels of security. PalmSecure detects the structure of the pattern of veins on the palm of the human hand with the utmost precision. The sensor emits a near-infrared beam towards the palm of the hand and the blood flowing through these back to the heart with reduced oxygen absorbs this radiation, causing the veins to appear as a black pattern. This pattern is recorded by the sensor and is stored in encrypted form in a database, on a token or on a smart card. To verify or identify a person who is already registered, the detected vein

pattern is compared with the pattern stored in the database for that person. Every person has a unique structure and position of veins in the palm of the hand and this does not change throughout the person's life even twins have a unique vein pattern. As the biometric information detected is located inside the human body and the vein pattern is extremely complex, it is virtually impossible to manipulate or falsify. The scanning process is extremely fast and does not involve any contact meaning that PalmSecure meets the stringent hygienic requirements that are normally necessary for use in public environments. PalmSecure has a wide range of possible applications, which are discussed below:



Contactless detection of hand vein patterns



Generating near-infrared image



Conversion of image data for encrypted database archiving



### ACCESS CONTROL

- Immediate access without key cards, passwords or pins
- Secure your employees, premises and assets
- For use at the office or at home
- Maximum security with unique vein patterns
- High accuracy rates and real-time operation
- Hygienic, contactless handling
- Cut the cost of crime against your business
- Ability to link to time and attendance

### ELECTRONIC POINT OF SALE

- Cashless and non-token payment means
- Reduce theft against person, premises and devices
- Reduce fraudulent front-end activities
- Improve online marketing techniques
- Accurate, fast and contactless
- Reduce staffing costs, increase facility use
- Highly secure and unique lifetime recognition

### SYSTEM LOG-IN

- Secure PC login to applications and web-site
- Sign on once for unequivocal access
- No need anymore to remember multiple passwords and pins
- Portable, contactless and accurate
- Reduce password management expense
- Achieve regulatory compliance and increase productivity

### MATCH ON CARD

- Integral secure and privacy-enhancing smart card solution
- Biometric template stored on card
- No security issues compared to matching on server or database
- Safeguards user privacy and prevents data intrusion
- Operating in an embedded environment offers increased security
- Highly accurate and fast
- Easier and cheaper to install in existing infrastructure