

Fujitsu Biometric Authentication PalmSecure-F Pro+



Embedded/Logon shared palm vein authentication sensor

Fujitsu palm vein authentication, PalmSecure is a safe, secure and convenient biometric authentication. It provides a contactless, hygienic method of authentication and is used in various industries.

3 points to choose PalmSecure

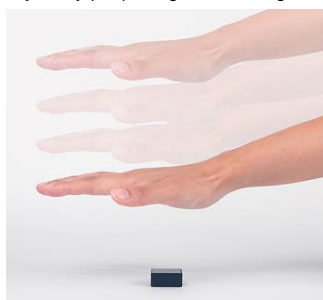
POINT 01 High Security

- Palm veins are internal information, therefore, it is difficult to steal, and impersonation by forgery is extremely difficult.
- The veins in the palm of the hand have many thick blood vessels and intersect intricately, so the pattern is complicated which results in high authentication accuracy.



POINT 02 Simple and stable authentication method

- Quick identification with a natural movement of holding your hand over the sensor.
- Stable authentication is possible regardless of the condition of the skin surface.
- It can be used by many people regardless of age and lifestyle.



POINT 03 Space-saving installation is possible

- You can easily install a login system using palm vein authentication on your personal computer.
- If it is a mouse type, 1 device can serve 2 functions. Space-saving installation is possible.



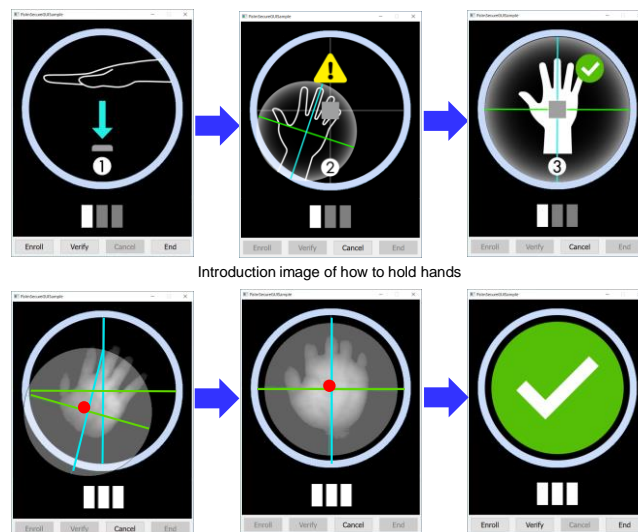
Not to be forgotten, lost nor misused

- Unlike conventional authentication methods (passwords, cards), biometrics can be authenticated with your body, reducing the risk of theft, loss, and forgery.

Intuitive GUI makes hand-positioning easier

- The guidance range during the capture process is expanded.
- Using a GUI that is easy to understand visually.
- It can be used intuitively without explanation or guide and realizing a completely guideless hand positioning.

*This functionality is provided in PalmSecure SDK V02. It is necessary to modify the application supporting palm vein authentication and replace the authentication library supporting this function.



Introduction image of how to hold hands

Hand holding guidance (adjust the hand position so that the green and light blue crosses overlap)

Realize large-scale identification up to 10 million just by palm vein authentication!



- When used in combination with the Authentication Library Millions Edition, it is possible to achieve 1: N identification up to 10 million at high speed and high accuracy using only palm vein authentication. (Top scale in biometrics)

*The PalmSecure SDK V02 is required separately to develop authentication systems.

- Enhance security at a higher level
- No ID card or password, just hand-held authentication
- Improved environmental resistance (temperature and external light resistance) suitable for embedding to devices

PalmSecure-F Pro⁺ is fully compatible with the conventional PalmSecure-F Pro models.
Customers who have already deployed a system with PalmSecure-F Pro can replace them with PalmSecure-F Pro⁺.

Specifications

Product name	PalmSecure-F Pro ⁺ (for embedding)	PalmSecure-F Pro ⁺ Standard
Type name	KD04215-B051	KD04215-A151
Outlook		
Dimensions	29(W)×29(D)×13(H)mm	46(W)×46(D)×16(H)mm
Weight	Below 12g	Below 25g (without cable)
Host interface	USB2.0 (Note 1) (only Hi Speed, and USB3.0 port is required when using High-power mode)	
Interface cable	USB Cable (Not included) (Up to 4m) (Note 2)	USB Cable (1m) (extension cable not allowed)
Sensor surface	Glass	
Voltage/current (Note 3)	DC 5V, 500mA (max at Normal-power mode) DC 5V, 900mA (max at High-power mode) 50mA (max at power saving mode)	
Power source	USB bus power	
Temperature	-40 to 85 degrees Celsius	5 to 35 degrees Celsius
Humidity	20 to 90%RH (Non-condensing)	20 to 80%RH (Non-condensing)
Lightning environment (Authentication) (Note 4)	Natural light(sunlight), fluorescent light, LED lighting: under 45,000 (High-power mode: under 80,000 lux) Incandescent and halogen lights: under 9,000 lux (High-power mode: under 18,000 lux)	
Authentication method	Verification (one-to-one authentication) Identification (1 to N with Millions Edition, N up to 10 million)	
Authentication Accuracy	When FRR is 0.01% (with 1 retry), FAR is below 0.000001%	

(Note 1) Always connect directly to the USB port on the computer. Operation is not guaranteed when it is connected via a USB hub.

(Note 2) This is the maximum length of the USB cable that can be used when the USB cable is embedded. Use a cable that meets the specifications described in the PalmSecure SDK V02 (sold separately) manual.

(Note 3) The sensor automatically enters power saving mode when command processing is completed and returns to operation mode when a new command is received.


(Note 4) Keep out of direct sunlight. Avoid direct exposure to incandescent or halogen light.

Notes on palm vein authentication

- The PalmSecure-F Pro⁺ can be used in combination with applications that support palm vein authentication, not by the sensor itself.
- These are the specifications and system requirements of PalmSecure-F Pro⁺. It may differ from the specifications and system environment of your application.
- This product does not guarantee 100% security.

● The company names, product names and standard names in this product are the trademarks or registered trademarks of their respective companies. ● PalmSecure and the PalmSecure logo are registered trademarks. ● Product structure and accessories are subject to change.

● The specifications and designs shown in this catalog are subject to change without notice. Also, since the photo is printed, the color of the product may differ.

 Safety Precautions	Please read the instruction manual before using the product. Do not install in areas subject to excessive water, moisture, dust, or oil smoke. Doing so creates the risk of fire, malfunction, or electric shock. Use the product under the correct power supply, voltage and environmental conditions.
	The mouse and vein sensors used in this product are Class 1 laser compliant.

For inquiries about products and services

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