

INNOVATIVE IDLINK PALM VEIN READER

(SAFETY & SECURITY ASIA 2011 BOOTH NUMBER: G25)



1. Product Innovation

IDLink Systems was one of the first Asian companies to use Palm vein biometrics vascular technology for access control security application which is contactless in nature. Compared to other biometrics technology, the access control product is easy to use, easy to maintain (comes with self-diagnostics firmware) with web-based management software for configuration of all the devices. Therefore, using this technology for access control was an innovative choice as compared to other biometric technologies. Conventional biometric technologies such as fingerprint have issues with dry, wet fingers or bad fingerprints. A high percentage of users also cannot enrol into the systems, therefore reverting them back to using Pins or RF Cards is a security lapse in the system. 2D Facial recognition has issues with outdoor sunlight and IRIS recognition is intrusive.

The product has in-built web server and allows for integration with many 3rd party RFID products as well as software applications.

(150 words)

2. Design

Palm Vein Access is compact and simple in design. It has an overriding key that is in-built to ensure easy installation. During emergency situations, overriding keys are used to open the door, as illustrated in Figure 2. If overriding key feature is not required, the switch can be used for RFID Card bypass, especially when servicing the device.

The palm guide design is for the ease of palm placement. As long as you rest your palm on the guide, there is no requirement for distance adjustment from the palm to the sensor. The palm guide is designed such that it is extremely comfortable to rest or relax the palm on the guide (Figure 1). The Palm guide is also easily removable from the front. If customers want to detach the palm guide, they can just remove and the open allotment can be covered as illustrated below in Figure 3.

(149 words)



Figure 1 : Relaxing the palm on the guide



Figure 2 : Overriding Switch & reset

Underneath



Figure 3 : Palm vein with the Guide removed

3. Benefits to Consumers

- Highly Reliable and Secure
- Contactless and Hygienic
- One of the lowest FAR and FRR (The accuracy is equivalent to IRIS matching technology)
- Removes the issue of false rejection rates as unlike fingerprint, the Palm vein will match even if the palm is wet or dry etc
- The IDCube software allows for seamless integration with 3rd party applications being both web or windows based
- The IDCube software is scalable in that it can generate multiple reports
- Device heartbeat feature which actively informs and sends alarm event to customer if device is down or offline
- Self diagnostics firmware for vendors to easily maintain the hardware
- Allows for Work code or Job code feature
- Can achieve 100% registration success rate to ensure security is not compromised & everyone needs to authenticate through palm verification or identification

(143 words)

4. User-Friendliness of product

The product produces voice feedback which is customizable when the person is being identified. It also gives a visual LED indication and beep sound with LCD messages.

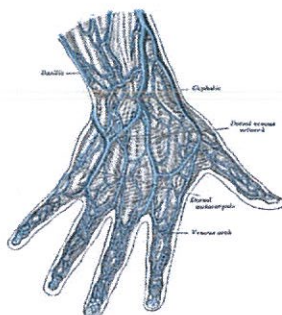
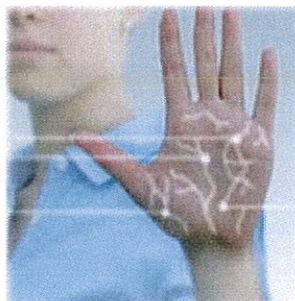
The device has 4 customizable function keys and the functions can be changed easily at the software level without any hardware settings. One of the function keys allows for checking the status of the devices such as the number of users, the firmware version, serial number, etc. It also has a function key to trigger self-diagnostics easily for ease of maintenance such as checking the state of the sensor.

The device also has a graphical LCD which can easily be configured for multiple languages.

When the palm is not placed properly, the LCD message will inform and guide the user. However, this is hardly necessary due to the innovative design of the palm guide.

(141 words)

5. Significant of Unique Feature



- Contactless authentication
- Operates in network mode
- Web-based administration for user profile management, transaction management, remote management and report management
- Role-based administration
- User-defined profile grouping and time zones
- Supports 26-bit Wiegand and other customizable formats

Product Specifications:

Description	Specification
Sensor	Fujitsu PalmSecure Sensor
Matching type	1:1 verification or 1:N identification
Enrollment time	5 seconds
Verification time	2 seconds
False acceptance rate	0.00008%
False rejection rate	0.01%
ID number	1 to 10 digits
Number of templates	4,000 (expandable to 10,000)
Number of transactions	50,000 (expandable to 100,000)
Communications interface	TCP/IP
Wiegand input and output	Supports 26-bit. Formats customizable.
Power	12V DC, 4A
Weight	1 kg
Dimensions	174mm (W) x 147mm (H) x 55mm (D)

(118 words)

Total: 701 words

