ET-3300
Palm Vein Reader

Feature:

Infrared Sensors: The palm vein system uses

I**nfrared sensors** to test for absorption and reflection Deoxidized hemoglobin in the bloodstream absorbs infrared light while other parts of the hand reflect it, resulting in the distinctive pattern.

Difficult to forge: The pattern is said to be much more

Difficult to forge: than a fingerprint or hand geometry.

Contact less: Because the user's hand

Doesn't come into contact with the sensor, the palm-vein method is acceptable to people who dislike touching something immediately after someone else. It also doesn't have the criminal connotation of requiring the user to be fingerprinted before it can be used.

Lowest Error Rate: According to information from Fujitsu that palm-vein system will incorrectly reject an authorized user about once every 10,000 scans (including try once again) and incorrectly accept an unauthorized user about once every 1.25 million scans. In contrast fingerprint sensors erroneously accept an unauthorized user about once every 100,000 scans, and "All companies have vulnerability on fingerprints"

More secure: This makes for a system that offers a higher level of security than competing technologies including voice print, facial recognition, fingerprint recognition, and iris scan, according to Fujitsu. For this reason, it's finding favor in applications where security needs are high, especially those involving money or human lives. In addition to the recent bank ATM deals, the system has also been adopted by the University of Tokyo Hospital for access to some rooms in the hospital that hold patient's records or computers with personal data. The hospital had previously used a fingerprint-based access system but upgraded because the palm-vein system offers higher security.

Integrated and built in Fujitsu Palm Vein sensor: The sensor area is 35mm by 35mm.

Communication: Built in Ethernet port (TCPIP protocol) for communication.

Application for "Time Attendance System", "Access Control System". Near 100% successful enrollment rate and lowest fault rate, suitable for Enterprise, Office, Bank, ..etc.

Specification:

Display	2 lines x 24characters
Voice	
Keypad：16 Keys	0-9, R (enter), DEL, F1-F4
Palm Vein Scanner	
	Sensor Near Infrared sensor Sensor area 35mm * 35mm Template data 832bytes to 2448bytes Matching speed (1 to 1) less than 0.07- 0.25 second (depend on CPU) Scanning speed 1.0 – 2.5 seconds (depend on CPU) FRR less than 1% (include more once) FAR less than 0.001%
Central Processing Unit	32 bits
Capacity	Users more than 1,000 persons (large capacity model >10,000 persons) Each person 2 templates of Palm Vein Log data more than 10,000 records
Access Control	
	2 Input Magnetic sensor, switch Button 2 Output EM Lock, Alarm Relay output 30VDC 1A or 100VDC/125VAC 0.3A
Ethernet port RJ45	TCP/IP
RS232 port	Reserved
WIEGAND Input/ output	26-35 Bits
Size (cm)	16.0(W) * 25.0(H) *11.5(D)(Including mounting frame)
Weight	3200g
Power	Adapter output DC 12V/ 4A