

## **SECURITY AT YOUR FINGERTIPS- by Rupa Damodaran**

Hassle-free, no cards, no PINS or personal identification number and no keys. One's finger print is one's key and passwords plus the user need never worry about keeping track of a card or key.

Compared with other ordinary access control systems, e-Jari has a higher level of identification technique, it provides instant verification and foolproof identification for use in the access control and attendance applications.

Unlike the traditional optical fingerprint scanner, e-Jari uses an advanced fingerprint sensor to create a state-of-the art fingerprint identification product for use in various security environments.

A novel fingerprint access control system developed by Sirim Bhd, it is the first stand-alone product using an embedded microcontroller technology and real multi-tasking operating system in biometrics applications.

By pressing one's thumb against a device in the system, e-Jari can verify one's identity to determine if he is the valid user.

Following an agreement with Sirim on May 27, Neural Services Sdn Bhd was given the license to manufacture and market its biometric security products: Time Management System and Standalone Access Control System.

What does Neural e-Jari do? It is a security control that uses one-touch access control to enter the premises.

Not only does it use an individual's fingerprint as identification, it also records the movement of people in a building.

International Trade and Industry Minister Datuk Seri Rafidah Aziz, launched Neural e-Jari in Kuala Lumpur in August.

Neural Services chief executive officer Aziz Ayob said though the technology was available in the market, what was special about Neural e-Jari was that it was a Malaysian product, where the design and every component had been sourced locally.

Sirim recently developed a product using a combination of finger print technology with my-card for identification called Neural 2-in1.

“With the launching of Neural e-Jari, Neural Services is taking a big step in exploring new markets, both locally and internationally, especially in Southeast Asia,” he said, adding that through continuous R&D and technology innovations, the company hoped to make it a worldwide security brand.

The fingerprint sensor has low power consumption (less than 0.2 W) and can capture up to 500-dpi resolution fingerprint image. The fingerprint algorithms will compress and convert the image into a fingerprint template.

The fingerprint template is stored in a flash memory, which is more secure than storing it in the disk on chip or RAM for computer.

The information captured from the sensor is analyzed through the use of complex algorithms to provide positive identification of authorized individuals.

The verification process will be completed in fewer than 0.25 seconds.

Sirim president Datuk Dr. Mohd Ariffin Aton described the product as bringing a new level of confidence to government, business, home security and other top security requirements.

The e-Jari supports multi-clock applications using technology compatible to the standard TCP/IP or transmission control protocol/Internet protocol.

Companies using e-Jari can transfer data and monitor their employees on line.

The product has won several awards at competitions locally and internationally including the Michael Chai Best IT Invention Award, The P.Kandiah Award and the WIPO gold medal.