

MiPRINT Biometric System

POWERED BY NEUROMUSCULAR TECHNOLOGY



MiPRINT Biometric System

Covert Capture Controls

The MiPRINT System uses Palm Vein Scanning and has the option of one or more of the following Biometric, covert capture controls.:

- ◆ Palm Vein Scanning.
- ◆ Fingerprint Scanning.
- ◆ Iris Recognition.
- ◆ Facial Recognition.
- ◆ Speaker Recognition.

Possible Scenario for Covert Operation:

- ① The Palm Vein Scan can be said to be an “Infra Red Cleanser” and the subject places one or both hands near the indicated device and the palm capture is completed.
- ② An accompanying Biometric control could be captured at this time by the subject interacting with one of the secondary optional capture devices listed above.
- ③ The Palm Vein scan and the other biometric controls would be processed immediately by the software and a unique identifier created which would be securely stored in the local database.
- ④ The system at intervals connects securely to the Main Database system and is queried by the system control server to “Match records” for the region – at this point new enrolments are transferred to the server and any regional updates are fed to that local system.



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Overt Capture Controls

The MiPRINT System uses Palm Vein Scanning and has the option of one or more of the following overt, Biometric capture controls:

- ◆ Palm Vein Scanning.
- ◆ Fingerprint Scanning.
- ◆ Iris Recognition.
- ◆ Facial Recognition.
- ◆ Speaker Recognition.
- ◆ RFID / Barcode.

Possible Scenario for Overt Operation:

- ① The Subject to be enrolled places their palm near the indicated device and the palm capture is completed.
- ② An accompanying Biometric control could be captured at this time by the subject interacting with one of the secondary optional capture devices listed above.
- ③ The Palm Vein scan and the other biometric controls would be processed immediately by the software and a unique identifier created which would be securely stored in the local database.
- ④ The system at intervals connects securely to the Main Database system and is queried by the system control server to “Match records” for the region – at this point new enrolments are transferred to the server and any regional updates are fed to that local system.



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Registration and Inductance

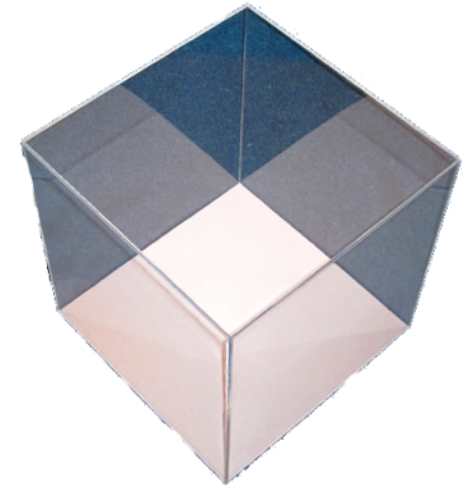
- ◆ The MiPRINT sensor uses near-infrared light to capture a person's palm vein pattern, generating a unique biometric template that is matched against pre-registered user palm vein patterns.
- ◆ The palm vein device can only recognize the pattern if the blood is actively flowing within the individual's veins, which means that forgery is virtually impossible.
- ◆ This advanced, vascular pattern recognition technology provides highly reliable authentication.
- ◆ The MiPRINT technology's false accept rate is just 0.0008 percent with an exceptional false reject rate of 0.01 percent and it's in a small form factor that generates extremely fast authentication, usually under one second.



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Security Vetting and Capture

- ◆ The Clear Perspex Booth can aid in effecting a good Biometric recording and ensuring that an individual is not being coerced.
- ◆ The enrolling area may be fenced with traditional security fencing so that enrollees that arrive and await their approach to the entrance are provided with an organized approach.
- ◆ The subject to be interviewed passes through the entrance and into the clear Perspex booth. Generally – only one subject will be admitted at a time, although there may be multiple booths.
- ◆ The individual will be instructed via recorded voice commands (in the appropriate language) or by a live operator - to place their hand near the palm scanner and await the signal for “Completed”. If there is some difficulty in reading the palm, further instructions will be given. An additional secondary Biometric recording may be taken during, before or after the Palm Scan. Following successful capture the door will open allowing the individual to pass into the next secure area.



MiPRINT Biometric System

Data Handling

◆ Remote Database Updates

In instances where the remoteness of the region prohibits automatic connection to the central Database system the “Export” function can be used to export to a media such as an external HDD, Thumb Drive or DVD. An “Import” function exists to allow remote updating from the central Database system. An external HDD is supplied to backup data at regular intervals.

◆ Secure User Access to Subject data

The MiPRINT system has a user access control so that only an administrator can import and Export Data. The Administrator has access to program settings, user creation and editing controls. A “User” can log into the MiPRINT system and by the logging of their actions are accountable for the subjects that they have enrolled or verified.

◆ Data Security

All transmissions of Data can be carried out under encryption and if connecting to a WAN (Wide area Network) or LAN (Local Area Network) are under a Secure Socket Layer.



MiPRINT Biometric System

Verification

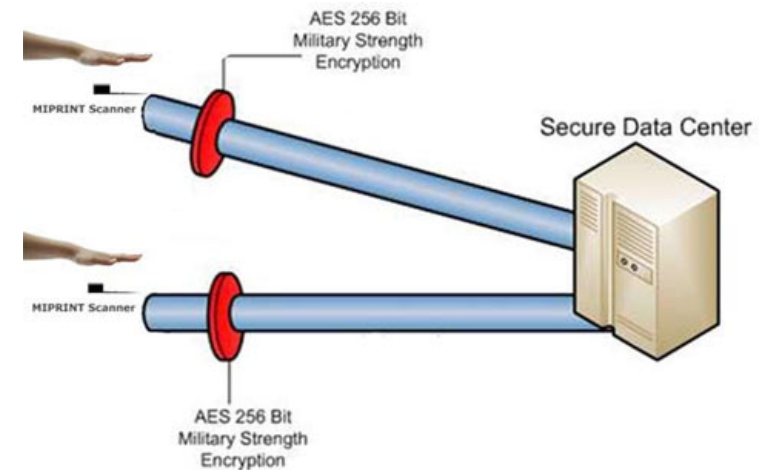
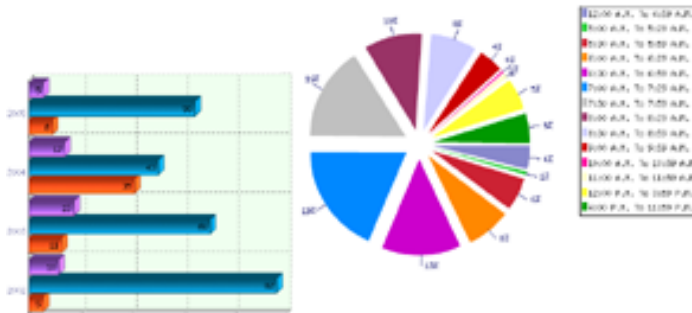
- ◆ Verification is the process of accepting or rejecting the identity claimed by a subject.
- ◆ The Verification process is carried out by the subject placing their palm near the palm scanner and the operator running a scan. The Palm scanner will then match the subject's palm scan through the database of subject digital "Keys" and trigger an acceptance code if the match is positive.
- ◆ Other Biometric controls may be added to further enhance the security and/or match an existing entry point protocol.



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Features

- ◆ The MiPRINT system can be concealed and operate from a rechargeable battery storage in the event of power failure.
- ◆ The MiPRINT server has an administration facility and report generation facility in order to generate reports and statistics indicating soldier access.
- ◆ Activity patterns of Soldiers and other people can be easily monitored to allow better supervision
- ◆ The MiPRINT palm scanner technology uses a near-infrared light to capture a user's palm vein pattern, generating a unique biometric template that is matched against pre-registered users' palm vein patterns. This unique "Key" is the only data required when performing an authentication and is in a secure unrecognizable format.
- ◆ All data is encrypted prior to transmission to the servers. The data sent to and retrieved from the central server containing the system Database is encrypted.



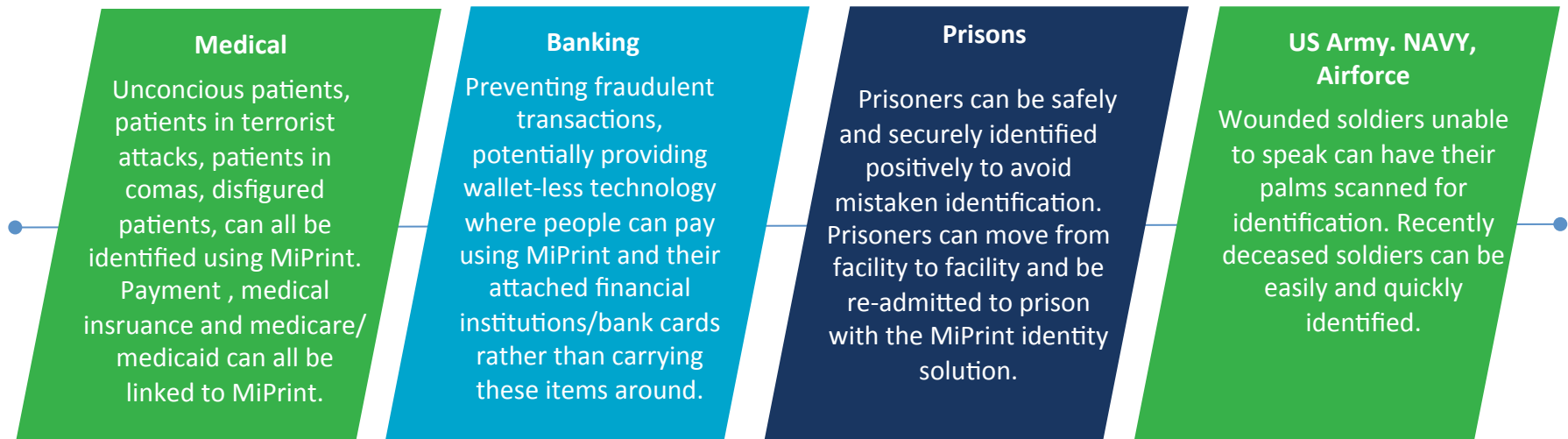
MiPRINT Biometric System

MARKET ADVANTAGE

- ◆ The MiPrint Biometric system provides an incredibly accurate identification gateway that utilizes sophisticated biometrics to ensure accuracy every time.
- ◆ Unlike retina, fingerprint or other biometric identification systems MiPrint can positively identify a subject with much higher accuracy every time.
- ◆ MiPrint is securely stored and transferred so it's not able to be hacked or accessed by un-authorized parties.
- ◆ MiPrint data is stored economically on computer clusters to avoid software crashes that often occur with other biometric identification systems.
- ◆ MiPrint enrolment is safe and easy to aid with streamlined user registration.

MARKETS

MiPrint can provide an effective identification and authentication gateway to a number of markets:



WHO IS

ISOTECHNOLOGY

- ◆ MiPRINT has been pioneered by Dr Terence Vardy, an international expert in medical devices, and his qualified team, over the past 35 years.
- ◆ Dr Vardy, whose educational credentials and qualifications are extensive, has also:
 - Practised in Harley Street, London, United Kingdom from 1988 to 1991.
 - Lectured at NASA – at the Ames Research Center, San Jose and Houston Space Center between 1994 and 1997 on Exercise Countermeasures for -1G.
 - Consulted to US Government Officials on health and medical devices development.
 - Been a Prime Contractor to the USA Government Department Of Defense from 1999.
 - Been extensively involved in various research projects in the USA, UK, Australia and Russia, and has a number of articles published across a wide range of related medical topics.
- ◆ IsoTechnology has assembled a team of technical and industry experts to assist in the development of this technology. These research personnel and associates, located in various countries, are actively working with the product to ensure the the company develops the leading edge technology in every aspect – practically and efficiently.



Dr. Terence Vardy
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IsoTechnology 

MiPRINT

Biometric Access System

Convenient, Secure Physical Access

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