VIVI

Security and ID Authentication

Fingerprint ID Card Using the VSCODE™

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The VSCODE™ uses biometrics to ensure that only the authorized holder of an identification card can use that card.

VSCODE™ Secure is ideal for bankcards or high security buildings.
VSCODE™ representing fingerprints, retinal scans, or other biometric data can be printed at the same time an identification card is created.   VSCODE™ can be printed on documents or even etched onto highly sensitive objects (such as firearms or computers) to uniquely link an object to an individual.

How easy is it for someone to fraudulently use a stolen or faked ID Card?

Tamper proof materials can help against a fake or an altered ID.   Protective measures, such as a photograph or password may provide some limited verification of identity.
But photographs rely on the attentiveness and judgment of personnel.   Passwords can be shared or stolen.   Biometric data, such as fingerprint or retinal and iris scan, facial features, voice print, and signature are increasingly being used to positively match an individual to an identification card.

How easy is it to read the VSCODE™?

At a facility entrance or other security checkpoints, a fingerprint scanner scans the cardholder's fingertip, while a card scanner views the encoded VSCODE™ symbol.   If the fingerprint matches the data encrypted on the card, access is approved.

Privacy Protection

VSCODE™ Secure offers secure access, but not at the expense of privacy.
Since VSCODE™ Secure compares biometric data to the data on a card, there is no need to store individual's private data in a central database.   The data stored on the card represent biometric data points and cannot be "reverse engineered" to create a fingerprint impression. Comparing a 'live' fingerprint scan to previouly encoded and printed VSCODE™ fingerprint data can positively ID an individual.   VSCODE™ can be printed with a conventional printer. VSCODE™ does not need to be hooked up to a database or network.

VSCODE™ Secure System

To make ID card

Read your fingerprint by a scanner. (The software encodes the data as VSCODE™.)
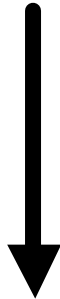
+ Add Personal data (such as name, address, sex etc.)

System configuration

Fingerprint scanner + printer and input devices

Print the ID card with VSCODE™ (your fingerprint data).

## *To identify the ID card owner (with fingerprint + VSCODE™)*

Insert the card and touch the panel. The software decodes the VSCODE™ to compare with your fingerprint on the panel.
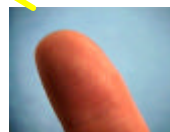
VSCODE™

- ? Stores up to 4,450 bytes of data – the biggest capacity 2D code
- ? Newest 2D code developed based Vericode®* to increase the reading speed and reliability.
- ? Patent-protected by Vericode®* and CP code®**. (You can use this code safely in the world.)
- ? Effective error correction – all fields except for user and control data fields are usable for error correction.
- ? Rectangular/square shape is available to fit the print space.
- ? Customize available – able to make non-decodable by other users if necessary.

- ? Suitable for security use with its big capacity and user-customizable
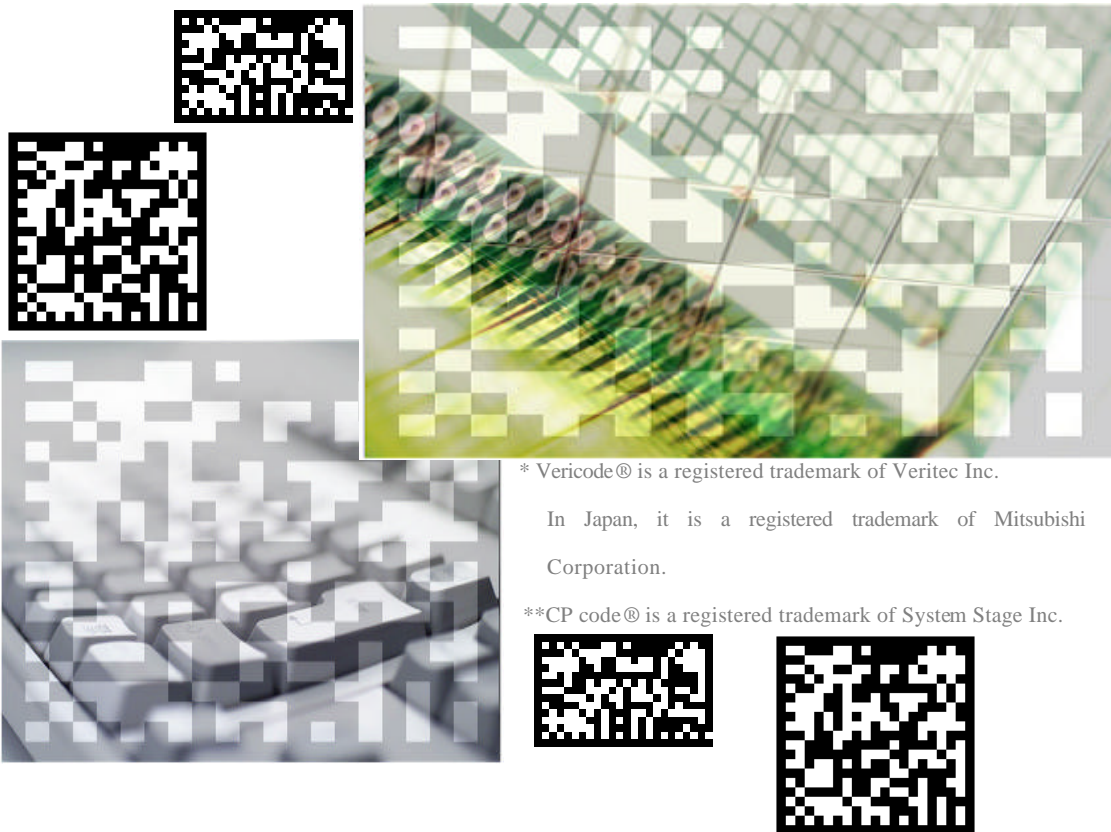
* Vericode® is a registered trademark of Veritec Inc.

In Japan, it is a registered trademark of Mitsubishi Corporation.

**CP code® is a registered trademark of System Stage Inc.