COSEC DOOR PVR
Palm Vein Based Door Controller
Palm is the Key for Access
Reads Internal Vein Pattern of Palm
Completely Contactless = Hygienic
Works where other Biometrics Fail
Palm Vein Pattern

- Complex Biometric Pattern
- Stored Within the User Palm
- Unchanged through the Course of Life
- Unique to Individuals
- No Influence of Skin Contamination and Injury
- Non-invasive near Infrared Radiation
COSEC DOOR PVR

- For Access Control and Time-Attendance Application
- Stand-alone or Network Operation
- Reads Palm, Card and PIN
- Contactless Reader Technology
- Very Low False Acceptance Rate (<0.00008%)
- Unique Hand Guide Option
- 20,000 Template Storage
- 1:1, 1:G and 1:N Matching Algorithm
COSEC DOOR PVR

- LEDs
- Dot Matrix LCD
- Touch Sense Keypad
- Detachable Hand Guide
- Palm Vein Reader
- Card Reader
Benefits of Palm Vein Reader

- Extremely Secured as it Works on Palm Vein Pattern
- Contactless Technology = Hygiene
- Stress Free to Use Even in Public
- Difficult to Forge
Target Customers:

- Educational Institutes
- Clubs
- Corporate Offices
- R & D Labs
- Government Organizations
- Remote Sites
- Shopping Malls
- Factories
Application
Hospital

- Improves Security for Vital Areas like ICU, Operational Theater etc.
- Increases Productivity of Staff
- Protects Expensive Medical Instruments
- Hygienic as it is a Contactless Device
- Round the Clock Access Control
Mines and Factory

- Insensitive to Dirt, Grease, Hand Lotion, Scratch etc.
- Physical Contact is not Required
- Works where other Biometrics Fail in User Identification
- Protects Expensive Instruments
- Round the Clock Security
Research & Development (R&D)

- Increases Security of Valuable Assets, Data and Employee
- Minimizes Forgery of Duplicating Biometric Credentials
- Round the Clock Security
Research & Development (R&D)

• Increases Security of Valuable Assets, Data and Employee
• Minimizes Forgery of Duplicating Biometric Credentials
• Round the Clock Security
Architecture
Architecture

COSEC Application Server

LAN

COSEC DOOR PVR

Wi-Fi/3G
Connectivity
# Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reader Type</td>
<td>Palm Vein Reader and RFID Card Reader</td>
</tr>
<tr>
<td>RFID Card Reader (CPM Module)</td>
<td>EM PROX, HID PROX, Mifare and HID iCLASS</td>
</tr>
<tr>
<td>LCD (128x64 Dot-Matrix)</td>
<td>Yes</td>
</tr>
<tr>
<td>Touch Sense Keys (16)</td>
<td>Yes</td>
</tr>
<tr>
<td>Hand Guide</td>
<td>Detachable Hand Guide</td>
</tr>
<tr>
<td>USB</td>
<td>2 Ports (for Wireless Connectivity and Data Transfer)</td>
</tr>
<tr>
<td>Palm Templates</td>
<td>20,000</td>
</tr>
<tr>
<td>Templates per User</td>
<td>2</td>
</tr>
<tr>
<td>Communication</td>
<td>Ethernet, Wireless</td>
</tr>
<tr>
<td>Verification Method</td>
<td>1:1, 1:N and 1:G</td>
</tr>
<tr>
<td>Events Buffer</td>
<td>100,000</td>
</tr>
<tr>
<td>External Reader</td>
<td>Yes</td>
</tr>
<tr>
<td>Exit Switch Port</td>
<td>Yes</td>
</tr>
<tr>
<td>Auxiliary Input Port</td>
<td>Yes</td>
</tr>
<tr>
<td>Auxiliary Output Port</td>
<td>Yes</td>
</tr>
<tr>
<td>Tamper Detection</td>
<td>Yes</td>
</tr>
<tr>
<td>LED Indication</td>
<td>4 LEDs (Status, Alarm, Allowed and Denied)</td>
</tr>
</tbody>
</table>
# Technical Specifications

<table>
<thead>
<tr>
<th><strong>Reading System</strong></th>
<th>Reading by Near-infrared Light</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scope of Capture</strong></td>
<td>Entire Palm</td>
</tr>
<tr>
<td><strong>Capturing Distance</strong></td>
<td>40 to 60mm (1.5’ to 2.3”)</td>
</tr>
<tr>
<td><strong>Drip-Proof</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>FRR</strong></td>
<td>&lt;0.01%</td>
</tr>
<tr>
<td><strong>FAR</strong></td>
<td>&lt;0.00008%</td>
</tr>
<tr>
<td><strong>Encryption</strong></td>
<td>AES (Cryptography&gt;128 bit)</td>
</tr>
</tbody>
</table>
COSEC DOOR PVR ES

- COSEC DOOR PVR ES comes with Additional Hand Guide
## Hand Guide Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand Guide</td>
<td>External with Sensor</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>Feed from Door Controller through USB</td>
</tr>
<tr>
<td>Interface</td>
<td>USB 2.0 High Speed/Full Speed, Plug and Play</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C to +50°C (32°F to 122°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>5% to 95% RH Non-Condensing</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>130.2 x 170 x 108.3 mm</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>260 Grams</td>
</tr>
</tbody>
</table>
Key Features
Verification Methods

• Different Methods for Palm Identification and Verification

1:1

**** Or

1:N

1:G

• To Increase Speed and Security
Detachable Hand Guide

• Detachable Hand Guide Option
• Attractive Design which Enhances Overall Product Look
• Helpful for Enrollment Process for Accurate Palm Enrollment
• Easily Removable in Normal Use
Highly Secure

• Works on Unique Palm Pattern of an User
• Stored Inside the Skin Layer
• Unchanged throughout Human Life
• Advanced Authentication Algorithm
• No Risk of being Stolen or Duplicated

FAR<0.00008%
FRR<0.01%
Hygienic

- Completely Contactless
- Need to Show Palm from a Distance
- No Possibility of Transferring Germs from other Users through Sensor
- Ideal for Hospitals, R&D Centers and Areas where Hygiene is of Utmost Concern
Web based Application

• Built-in Web based Application Software
• Program the System and Generate Reports without Location Barriers
• Monitor User Attendance and Access Remotely
• Apply for Leave/Tour and Check Attendance
Operations from Door Controller

- Easy Operation from Door Controller with Touch Sense Keypad and Dot Matrix Display
- 16 Touch Sense Numeric and Function Keys
- Functions from Door Controller

<table>
<thead>
<tr>
<th>Admin/HRD</th>
<th>Alarm</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enroll</td>
<td>Panic</td>
<td>Regular</td>
</tr>
<tr>
<td>User Profile</td>
<td>Mute</td>
<td>Break</td>
</tr>
<tr>
<td>Late In</td>
<td>Clear</td>
<td>Overtime</td>
</tr>
<tr>
<td>Early Out</td>
<td></td>
<td>Official</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Short Leave</td>
</tr>
</tbody>
</table>
USB Connectivity

• 2 USB Ports for Various Applications
• Connect Memory Stick and Internet Dongle
• Easy Data Transfer from Controller to Server
• Connect Remote Sites with 3G/GPRS/GSM/CDMA USB Internet Dongle
• Connect USB Printer for Canteen Application
Wi-Fi Connectivity

- Simple Connectivity between Controller and Server
- No Wiring is Required
- Real-time Events and Report Generation
- Ideal for Applications where Ethernet is not Possible because of Aesthetic Purpose or Architectural Limitations
User Identification through Server

- Helps in Speeding up the User Identification Verification Time
## Certifications

<p>| | |</p>
<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CE</td>
<td>![CE Logo]</td>
</tr>
<tr>
<td>FCC</td>
<td>![FCC Logo]</td>
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<tr>
<td>RoHS</td>
<td>![RoHS Logo]</td>
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</tbody>
</table>
For Further information, Please Contact

<table>
<thead>
<tr>
<th>Email</th>
<th><a href="mailto:More@MatrixComSec.com">More@MatrixComSec.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact No</td>
<td>+91 265 2630555</td>
</tr>
<tr>
<td>Website</td>
<td><a href="http://www.MatrixSecuSol.com">www.MatrixSecuSol.com</a></td>
</tr>
<tr>
<td>Address</td>
<td>394-GIDC Makarpura, Vadodara-390010, Gujarat, India</td>
</tr>
</tbody>
</table>
We put more in the box so your business can think more out of the box.

Thank You.