

# COSEC DOOR PVR

# Palm Vein Based Door Controller

EXPECT MORE.

# Palm is the Key for Access



# Reads Internal Vein Pattern of Palm



# Completely Contactless = Hygienic

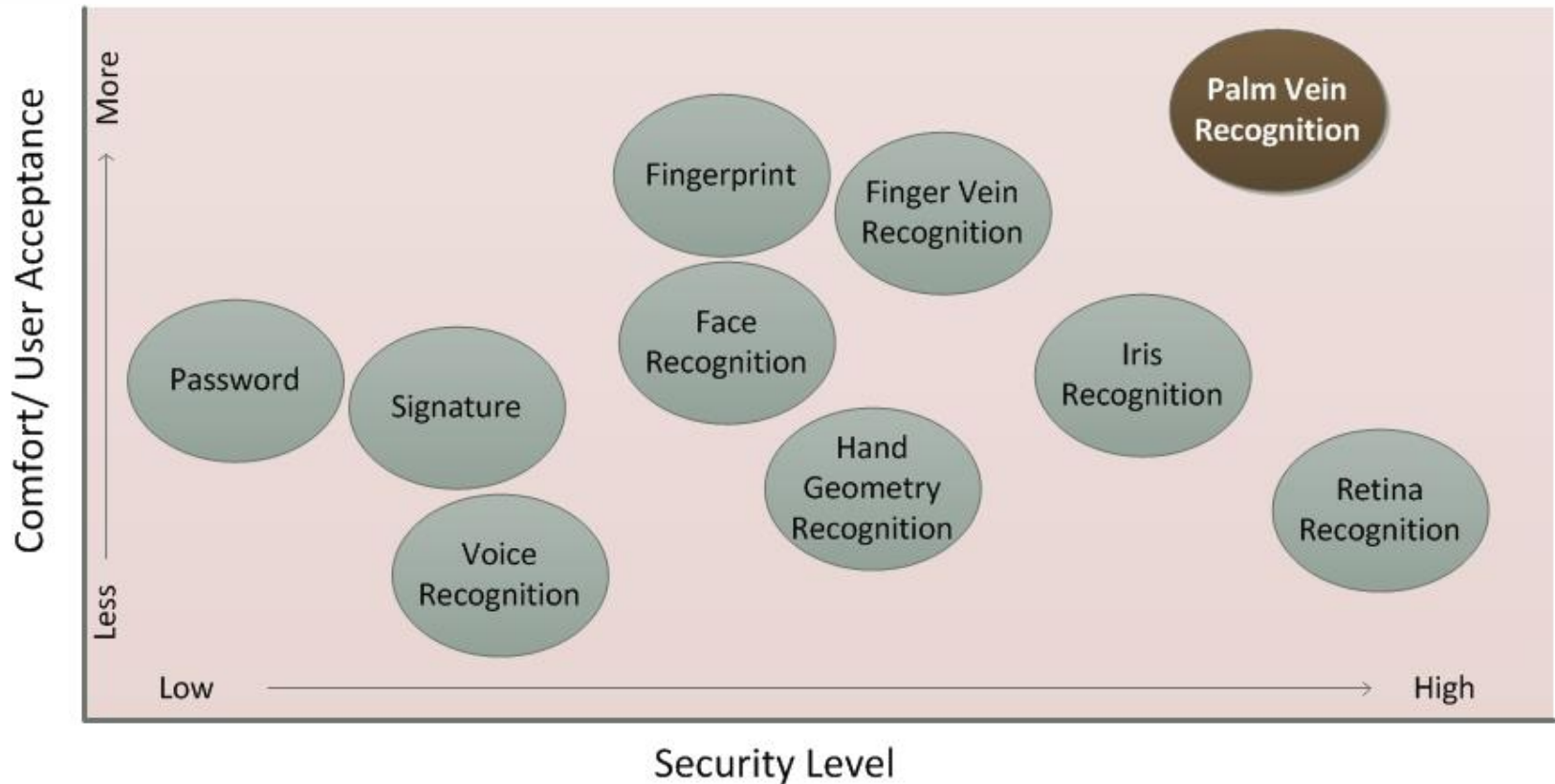




# Extremely Secure



# 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



# 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



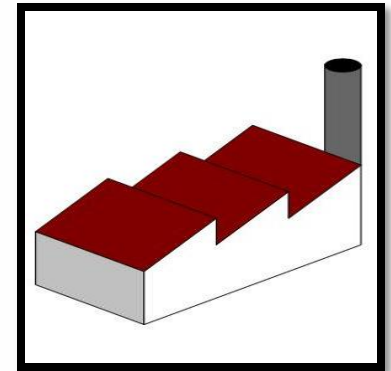
Government  
Organizations



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



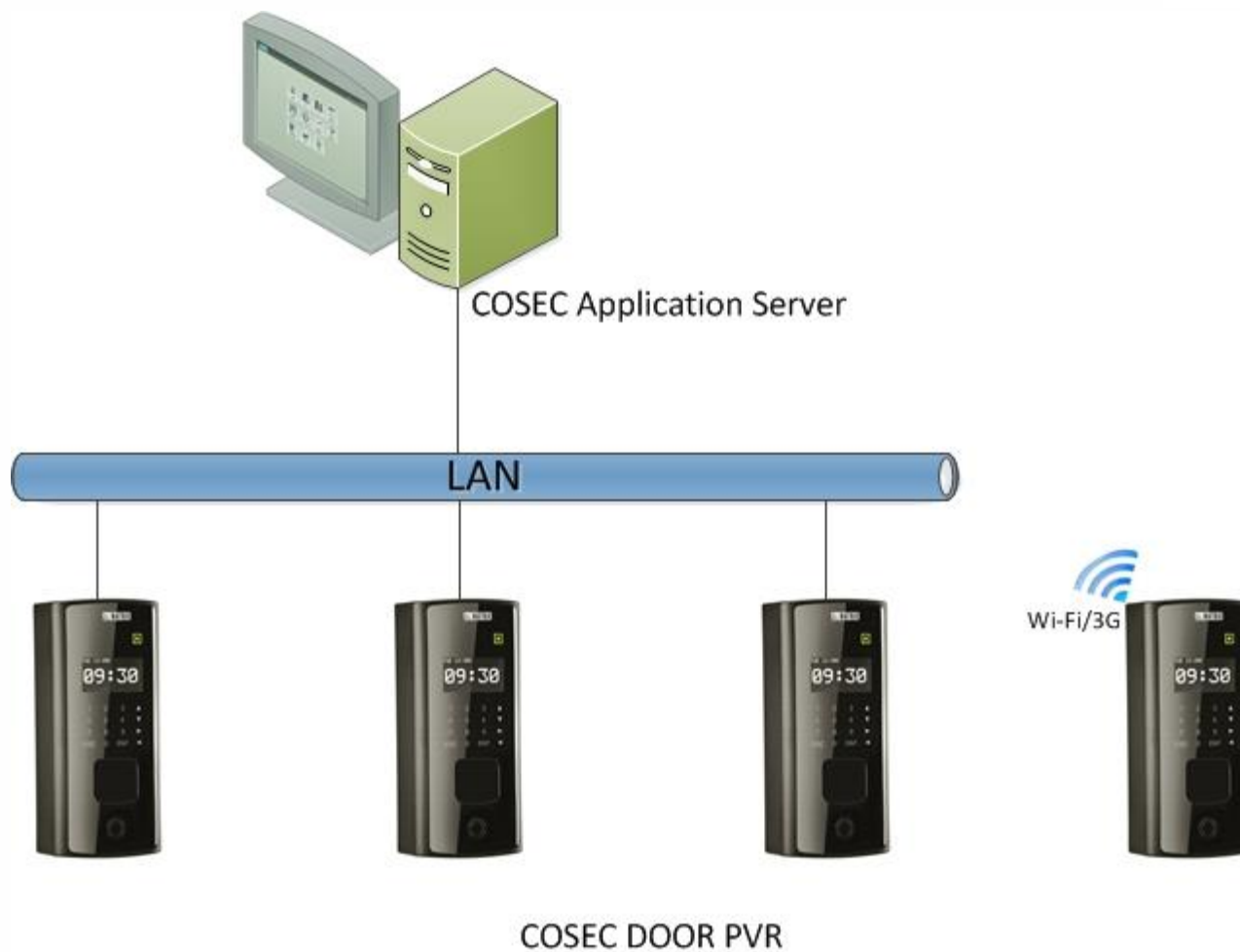
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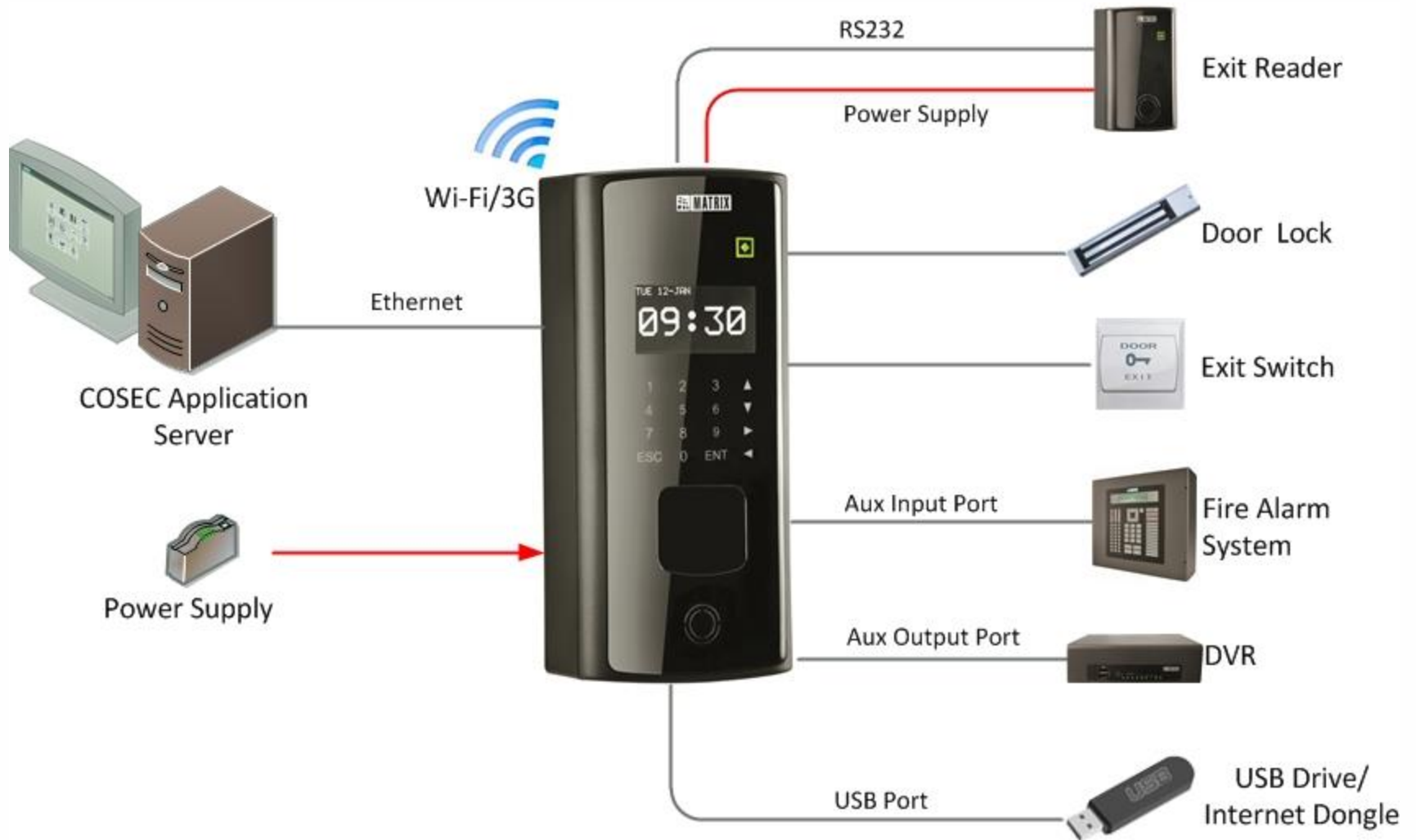
# Architecture

# Architecture





# Connectivity



# Technical Specifications



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

# Technical Specifications



Reading System	Reading by Near-infrared Light
Scope of Capture	Entire Palm
Capturing Distance	40 to 60mm (1.5' to 2.3")
Drip-Proof	Yes
FRR	<0.01%
FAR	<0.00008%
Encryption	AES (Cryptography>128 bit)



# Key Features

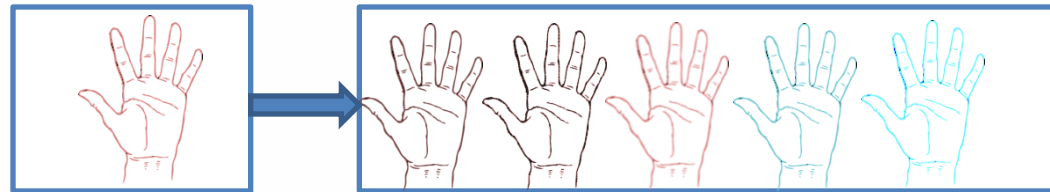
# Verification Methods

- Different Methods for Palm Identification and Verification

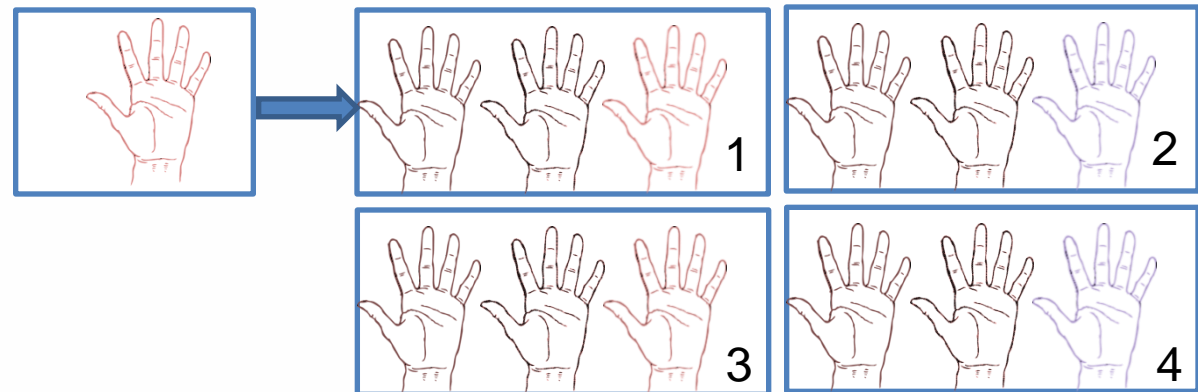
1:1



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

## **Admin/HRD**

Enroll

User Profile

Late In

Early Out

## **Alarm**

Panic

Mute

Clear

## **Attendance**

Regular

Break

Overtime

Official

Short Leave



# 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



# Wi-Fi Connectivity

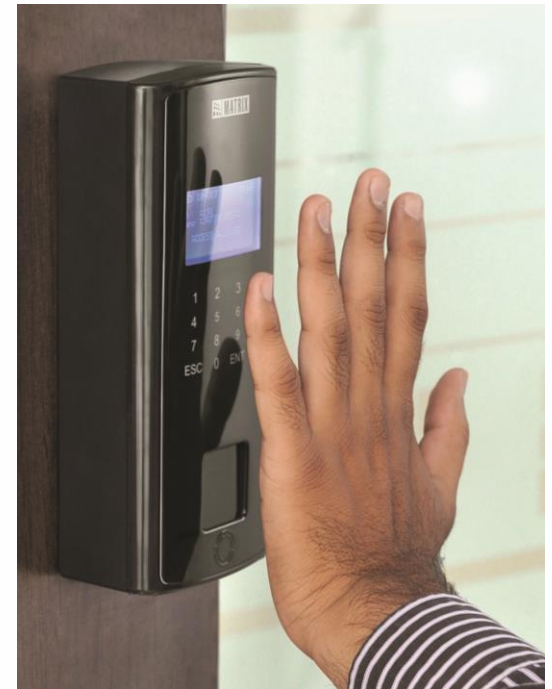
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# Software Modules

# Access Control Module (ACM)

- Define Various Access Policies
- Define User-wise Access Rights
- Configure Input and Output Ports and Linking
- Generate Access Reports



# Time-attendance Module (TAM)

- Define Organizational Hierarchy
- Create Various Attendance Related Policies
- Manual Entry and Correction of the Attendance Events
- Attendance Authorization
- Holiday and Shift Schedule Management
- Generate Time-attendance Reports



# Leave Management Module

- New Leave Creation
- Accurate Leave Balance Management
- Leave Carry Forward and Encashment
- Leave Request and Approval
- Automatic Leave Report Generation





# Employee Self Service Portal



- Portal for Employees and Reporting Officers
- Employees can See their Time-attendance and Leave Details
- Leave/Tour Request and Approval
- Attendance Summary for the Month
- Company News/Notice/General Information on Web Page
- Monthly Shift and Schedule



# Admin Module

- Perform Administrative Functions
- Create User Roles for the Organization
- Assigning Role based Access Rights to Users
- Import and Export Data
- Backup and Restore Database
- Maintain Software Licensing Information



*Administrator*

# User Module

- Perform Human Resource Functions
- Create Full-fledged User Profile
- Maintain User Database
- User Enrollment
- Assign Door Controllers to User



# Visitor Management Module(VMM)






- Visitor Pre-Registration
- Visitor Access Rights
- Block Unwanted Visitors
- Maintain Visitor Database
- Visitor Photograph and Document Record
- Visitor Reports

# Roster Management(RSM)

- Placing Right People with the Right Skill in the Right Place at the Right Time
- Designation and Qualification wise Task Assignment
- Planning by Forecasting Requirements of Employees
- Provides Complete Workforce Analysis Reports
- Export Data to Third Party Payroll Software



# Certifications

CE	
FCC	
RoHS	

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**in the box**

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**out of**  
**the box.**



Thank You.