

Matrix Security Solutions Range

Access Control Systems

Time-Attendance Systems

Fire Alarm Panels

Digital Video Recorder (DVRs)

Network Video Recorder (NVRs)





■ MATRIX MANUFACTURING

Based at Vadodra in India, Matrix manufacturing unit is operated by a team of professionally qualified and dedicated engineers. Spread over an area of 25,000 sq. ft, the structure houses departments like In-house R&D, Assembly, Testing, Quality Control, etc. Matrix has a production capacity of about 1,000,000 ports per annum. The factory also houses a full-fledged technical support center spread over an area of 10,000 sq. ft, manned by trained and efficient engineers. The center provides immediate technical assistance to Matrix channel partners and customers in installation, operation and maintenance of the products.



■ MATRIX MARKETING

The marketing team at Matrix strongly believes in value-based marketing and strong networking. A special customer care cell provides prompt and professional response to the customers. Backed by an extensive network of more than 500 channel partners, Matrix ensures that the products serve the communication needs, faster and longer.



■ MATRIX R&D

All Matrix products are indigenously designed. With around 30% of its human resources dedicated to the development of new products, Matrix R&D is the foundation of its growth and sustenance. Matrix R&D is located at its corporate office and is spread over an area of 15,000 sq. ft. The R&D team designs products conforming to relevant international standards. Matrix makes substantial investment in R&D tools and equipment to stay abreast of the latest technological changes.



■ MATRIX ACHIEVEMENTS

- In the year 2011, Matrix won IF Product Design Award for its Security Products
- In the year 2010, Matrix won the EFY Readers' Choice Award for the Best PBX- KTS Company.
- In the year 2009, Matrix received the Best Electronics Company Award from the Gujarat Electronics and Software Industries Association (GESIA).
- In the year 2008, Matrix was conferred the Best SSI Unit Award by the Federation of Gujarat Industries
- In the year 2008, Matrix received the Best Electronics Company Award from the Gujarat Electronics and Software Industries Association (GESIA).
- In the year 2007, Matrix was conferred the 9th IETE Corporate Award for Excellence in Computer & Telecommunication Systems by the Institution of Electronics & Telecommunication Engineers, India.
- In the year 2007, Matrix won the EFY Readers' Choice Award for the Best PBX- KTS Company for the fourth Year in a row.
- In the year 2006, Matrix won the EFY Readers' Choice Award for the Best PBX- KTS Company.
- In the year 2005, Matrix won the EFY Readers' Choice Award for the Best PBX-KTS Company.
- In the year 2004, Matrix won the EFY Readers' Choice Award for the Best PBX- KTS Company.
- In the year 2004, Matrix won the Award for Excellence in Professional Electronics conferred by the Ministry of Communication and Information Technology.

■ MATRIX AT A GLANCE

- Over 40 Telecom Products
- 200+ Man-years of R&D Experience
- 500+ Channel Partners Worldwide
- 150,000+ Satisfied Customers
- 1,500,000+ Line-units Installed
- 15,000,000+ Calls Connected Everyday
- Growing at 1500+ Line-units a Day
- Global Footprint: Asia, Europe, Africa, North America and South America
- Quality Certifications: ISO, CE, FCC, TEC, RoHS

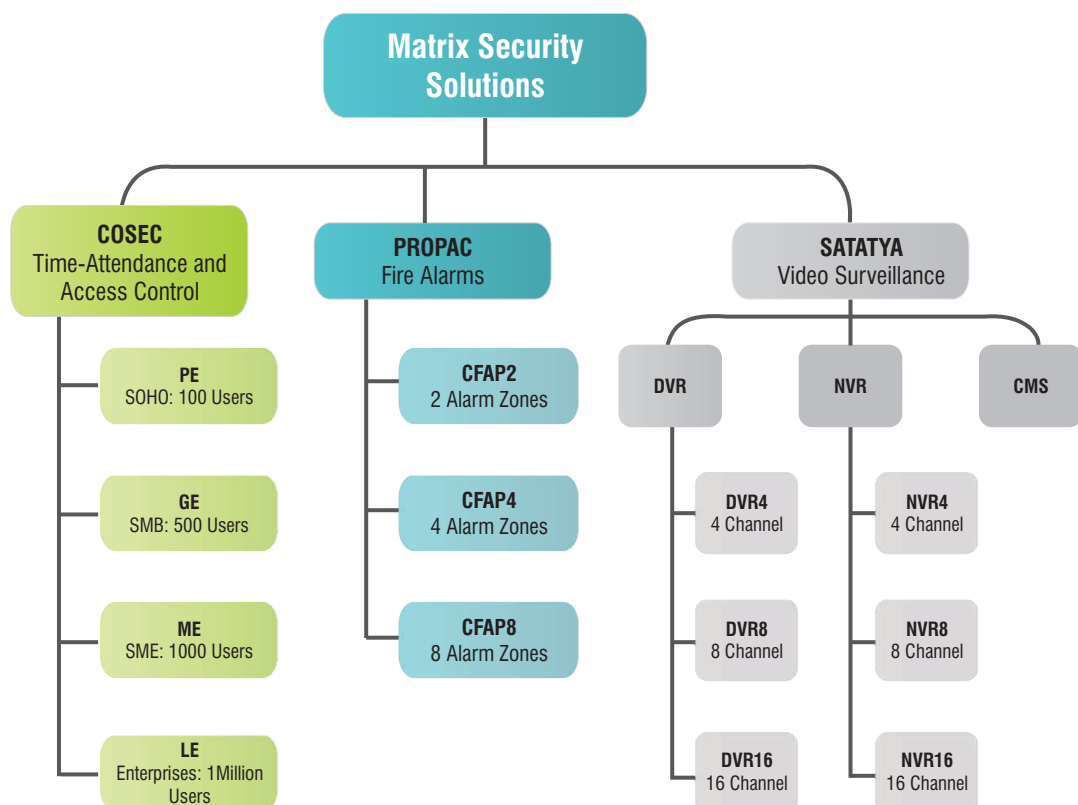


The Most Adaptive Security Range of Products

Safety and security of human, physical and intellectual assets are of vital importance for all decision makers. These objectives have to be achieved without compromising dependability, reliability, efficiency and productivity of the organization. Success of an organization depends on these contradictory needs. It is not surprising that all progressive organizations feel the need for security solutions that help them to achieve the desired level of security and productivity.

Matrix presents a comprehensive range of security solutions designed to ensure safety, security and productivity for modern organizations. Matrix security solutions include Time-Attendance Systems, Access Control Systems, Fire Alarm Panels and range of Video Surveillance Systems. Built-on cutting-edge technology, Matrix security solutions offer wide range of functions, features and benefits. They are ideal for any industry vertical of any size from a Small Business with 10 Users to a Large Enterprise with 1million users spread across multiple offices in different countries.

MATRIX SECURITY PRODUCTS FAMILY TREE



Time-Attendance and Access Control

COSEC DOOR FCX

Next Generation Door Terminal

Matrix COSEC DOOR FCX is a high-end door controller to meet functional and aesthetic needs of any modern organization. This compact and elegant terminal comes with advanced features like multimedia, capacitive fingerprint sensor, camera, large TFT LCD, voice guidance and Wi-Fi connectivity.



- 3.1 MP Camera
- 7" Touch Sense TFT LCD
- Wi-Fi and Ethernet
- USB Port
- Photo Capture and Storage
- Graphical User Interface
- Multimedia Functions
- Multiple Languages
- Integration with DVR and NVR
- Voice Guidance
- 100,000 Events Storage
- 10,000 Users
- 19,200 Finger Templates

COSEC

Premium Door Controllers

Matrix COSEC premium door controllers are front-end terminals to record and control entries and exits through various credentials like fingerprint, proximity cards and smart cards. These Ethernet-ready door controllers can be connected directly with the application software or with COSEC PANELS. They are also available with premium features like Wi-Fi, USB, touch sense keypad and dot matrix LCD display.



DOOR CAP
Card Reader



DOOR FOP
Card and Optical
Fingerprint Readers



DOOR FCP
Card and Capacitive
Fingerprint Readers

- 128x64 Dot Matrix LCD Display
- Smart or Proximity Card
- Touch Sense Keypad
- USB Port
- Wi-Fi, Ethernet and RS485
- 50,000 Events Storage
- 9600 Fingerprint Storage
- Tamper Detection
- 4 LEDs and Buzzer
- Auxiliary Input Port
- Auxiliary Output Port
- Door Lock
- Door Sense
- Exit Reader Interface
- Exit Switch Port
- 16-Bit Microcontroller

COSEC

Standard Door Controllers

Matrix COSEC standard door controllers are compact and cost-effective front-end terminals to record and control entries and exits through various credentials like fingerprint, proximity cards and smart cards. These Ethernet-ready door controllers can be connected directly with the application software or through COSEC PANEL. They can be interfaced with exit reader, door relay, door sense, auxiliary input and output and exit switch for various applications.



DOOR CAS
Card Reader

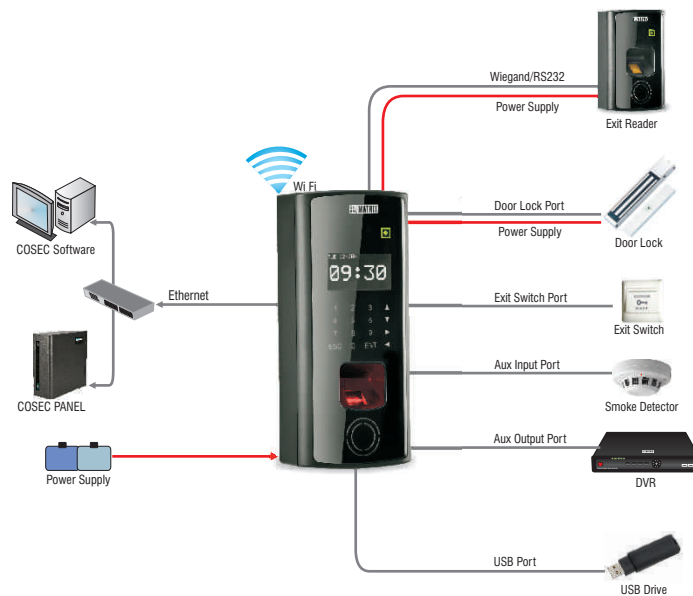


DOOR FOS
Card and Optical
Fingerprint Reader



DOOR FCS
Card and Capacitive
Fingerprint Reader

- Smart or Proximity Cards
- Ethernet and RS485
- 50,000 Events
- 9600 Fingerprint
- 4 LEDs and Buzzer
- Tamper Detection
- Door Lock
- Door Sense
- Auxiliary Input Port
- Auxiliary Output Port
- Exit Reader Interface
- Exit Switch Port
- 16-Bit Microcontroller



COSEC Door Controller Interfaces

COSEC READERS

Exit Readers for Door Controllers

Matrix COSEC READERS can be connected with any COSEC door controller through wiegand or RS232 interface.



READER CA
Card Reader



READER FO
Optical
Fingerprint Reader



READER FC
Capacitive
Fingerprint Reader

- 9,600 Finger Templates
- Power Supply from Door Controller
- Tamper Detection
- Wiegand/ RS232 Interface
- 4 LED Indicators and Buzzer

COSEC PANELS

Site Controllers to Manage Multiple Door Controllers

Matrix COSEC PANELs manages multiple door controllers and acts as local bridges between the door controllers and the central server. They are responsible for synchronizing all the door controllers and implementing advanced access control features.

- 100,000 Events
- 10,000 Users
- Ethernet and RS485
- USB Port
- Tamper Detection*
- Built-in Power Supply with Battery Backup*
- Auxiliary Input Port
- Auxiliary Output Port
- 32-Bit RISC Processor
- LED Indicators

* COSEC PANEL Features



PANEL
75 Door Controllers



PANEL LITE
16 Door Controllers

COSEC ENROLL

PC based Enrollment Stations

COSEC Enroll is a central enrollment station for registering all the employees with their fingerprints and cards.

- PC based
- Mass Enrollment
- USB Connectivity



ENROLL CARD
Card Enrollment



ENROLL FINGER
Fingerprint Enrollment

COSEC CPMs

Pluggable Card Reader Modules

COSEC CPM are pluggable card personality reader modules for any COSEC door controller and COSEC reader



Product	Technology	Interface
COSEC CPM EM PROX	EM Proximity	Serial
COSEC CPM HID PROX	HID Proximity	Wiegand
COSEC CPM MIFARE SMART	Mifare Smart	Serial
COSEC CPM HID ICLASS	HID iClass	Serial

COSEC DOOR PSBB

Door Controller Power Supply with Battery Backup

- Used for PANEL LITE and Door Controller
- Main Input: 100-265VAC
- Battery: 12VDC, 3.2Ah



COSEC PLATFORM

System Management Application Software

Matrix COSEC PLATFORM is comprehensive application software for time attendance, leave management and access control. The platform is powerful enough to control up to 10,000 door controllers and 1million users. Its web based access allows the users to access the system from anywhere. Modular architecture allows adding value-added functional modules and increasing user and door capacities to scale up with the organization growth.



PLATFORM	Built-in		Expandable	
	Users	DOORs	Users	DOORs
COSEC PE	100	4	NA	NA
COSEC GE	100	16	500	NA
COSEC ME	500	32	1000	NA
COSEC LE	1000	64	1million	10,000

Time-Attendance

- Integration with ERP, HRM and Payroll
- Multiple Organizations
- Shifts and Schedules
- Manual Entry and Corrections
- SMS and E-mail Notification
- Live Monitoring and Supervision
- Real-Time Processing of Events
- Web based Multi User Application
- Remote Views and Reports
- Drill-Down on Reports
- Automatic Fingerprint Distribution
- Attendance Summary
- Past Adjustment of User Records
- Organization-wise Policies
- User Creation and Management
- Integration with DVR
- Leave Management

Access Control

- Time, Zone and User based Access
- 2-Person Rule
- Do Not Disturb (DND)
- First-in User Rule
- Occupancy Control
- Man Trap
- Dead-Man Zone
- Anti-Pass Back
- Guard Tour
- Do Not Disturb
- Access Policies
- Home Zone
- Visit Zone
- Access Level
- User Groups
- VIP Access
- Panel and Door Management
- Alarm Management

Additional Licenses

License Name	Description
COSEC USER100	100 Users License for COSEC GE and COSEC ME PLATFORMs
COSEC USER1000	1000 Users License for COSEC LE PLATFORM
COSEC DOOR8	8 Door License for COSEC LE PLATFORM

COSEC ESS

Employee Self Service Portal

COSEC web based ESS portal enables users to view their attendance, leave details and apply for leave and tour requests from anywhere. Reporting officer can authorize these requests and also plan for the shift and schedules.

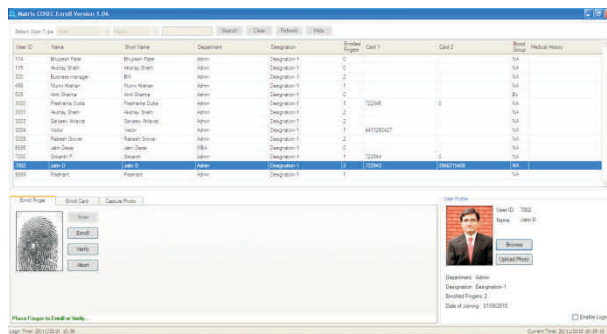
- Web Access from Anywhere
- View Attendance and Leave Status
- Plan and View Shift Schedules
- Request and Authorize Attendance
- Request and Approve Leaves
- Message Board
- Reporting Officer Self Service
- SMS and Email Notifications



COSEC EMM

Enrollment Management Module

COSEC EMM is centralized enrollment management software for HRD for card and fingerprint enrollment. It offers centralized employee registration, fingerprint distribution, view user profile, delete credentials and fingerprint verification.



- Enrollment for Users and Visitors
- Cards and Finger Enrollment
- Fingerprint Verification
- Centralized Fingerprint Distribution
- Capture and Adjust Photographs
- Search Users and View their Profiles
- Delete Credentials
- Available for All COSEC PLATFORMS

COSEC VMM

Visitor Management Module

COSEC VMM tracks and manages visitors to the organization increasing overall security and enhancing productivity of security and reception personnel.



- Visitor Access Rights
- E-Pass and Paper Pass
- Visitor Escort
- Visitor Pre-Registration
- Visitor's Photo and Document Scanning
- Frequent and Blocked Visitors
- Visitor Reports
- Available for All COSEC PLATFORMS

Fire Alarm Panel

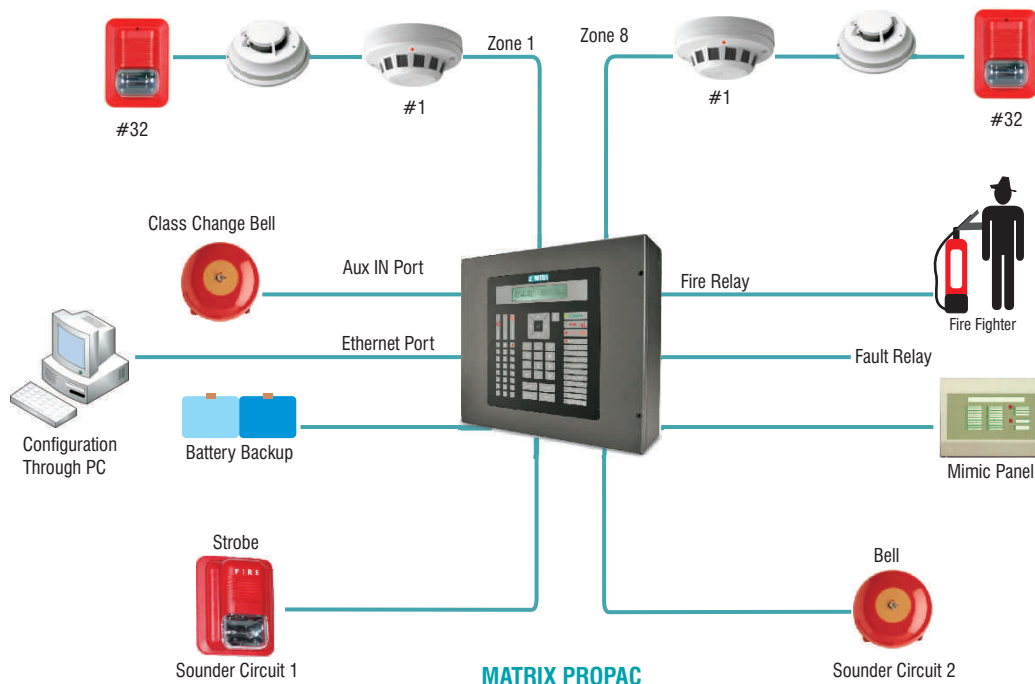
PROPAC CFAP

Conventional Fire Alarm Panels

Matrix PROPAC is a family of reliable conventional fire alarm panels for monitoring smoke, heat, flame and spark. It incorporates latest features designed to simplify installation, operation and maintenance. Sophisticated touchsense keypad and display make operation simple and easy.

Models	Zones	Notification Circuits
PROPAC CFAP2	2	2
PROPAC CFAP4	4	2
PROPAC CFAP8	8	4

PROPAC ETHERNET: Add-on Ethernet Module for Events Download and Programming from PC



- 2x24 Character LCD Display
- Walk Test, Sounder Test and Lamp Test
- 32 Devices per Zone
- 32 Touch-Sense Keys
- 4 User Access Levels
- 999 Events Log
- Ethernet Connectivity
- Class Change Facility
- Acknowledge Fire and Faults

- Mimic Panel Support
- Alarm Silence
- Delayed Mode
- Evacuation
- Fault Detection and Reporting
- Fire and Fault Relay
- Fire Detection and Reporting
- Integration with All Standard Sensors

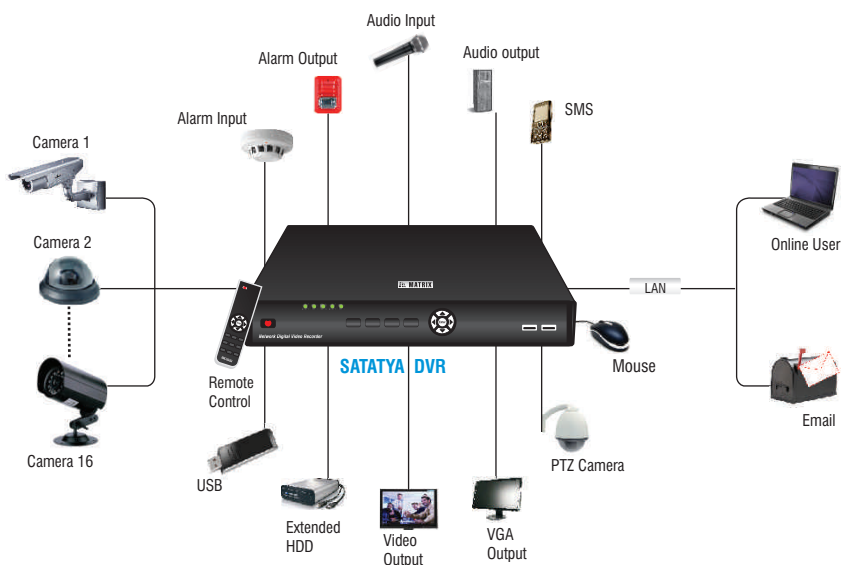
Video Surveillance System

SATATYA DVR

Digital Video Recorders (DVR) *Launching Soon!*

Matrix SATATYA DVRs are new-generation, feature-rich and vigilant video recording systems for recording and viewing video and audio streams from multiple cameras. They record using latest H.264 video compression format and are accessible from anywhere through the LAN/WAN/Internet. Professional surveillance functions and features like Pentaplex Functions, SMS/Email notifications and Privacy Masking are built-in.

Models	Channels
SATATYA DVR4	4
SATATYA DVR8	8
SATATYA DVR16	16



- 4, 8 and 16 Video Channels
- 4, 8 and 16 Audio Inputs
- H.264 Video and G.711 Audio Codecs
- QCIF, CIF, 2CIF, 4CIF and D1
- Network based Access
- Manual and Scheduled Backup
- Manual and Scheduled Recording
- Pentaplex Functions

- Advanced Search
- SMS and E-mail Notification
- 10,000 Events Log
- Attractive GUI
- Centralized Management Software
- Different Monitoring Modes
- Dual Video Codecs
- Intelligent Motion Detection

- IR Remote Control, Mouse and Keypad
- Live and Remote PTZ Control
- Privacy Masking
- Up to 16 Synchronous Playback
- Up to 4 SATA Drive Interfaces
- Video Export to USB, HDD and FTP

SATATYA NVR

Network Video Recorders (NVR) *Launching Soon!*

Matrix SATATYA NVR are high-end Network Video Recorders (NVR) for remote monitoring and recording of video and audio streams from multiple cameras. They record with H.264, M-JPEG and MPEG-4 video compression formats. They can be set up in an Ethernet ready environment without any complex wiring. Professional surveillance functions like intelligent video analytics, D1 real-time recording, Pentaplex Function are embedded in the NVRs.

Models	Channels
SATATYA NVR4	4
SATATYA NVR8	8
SATATYA NVR16	16

- H.264, M-JPEG and MPEG-4
- D1 Real Time Recording
- QCIF, CIF, 2CIF, 4CIF, D1 and MP
- Pentaplex Functions
- Intelligent Video Analytics
- Backup on USB and FTP
- Intelligent Search Options
- Centralized Management Software
- SMS and Email Notification
- Different Monitoring Modes
- Digital Zoom on Live and Playback
- E-Map Facility
- Export File in Native and AVI
- Image Upload on FTP and Email Server
- IP PTZ Control
- Manual, Schedule and Trigger based Recording
- Pre-Alarm and Post-Alarm Recording
- Multiple Login Users
- One Touch Auto Backup
- Scheduled Backup
- Picture in Picture (PIP)
- Raid 0 and Raid 1
- Up to 2 SATA Hard Disks with 2TB each
- Smart Playback Options
- User Friendly GUI
- Various Alarms Detection
- 10,000 Events Log

SATATYA CMS

Central Management System for DVR and NVR *Launching Soon!*

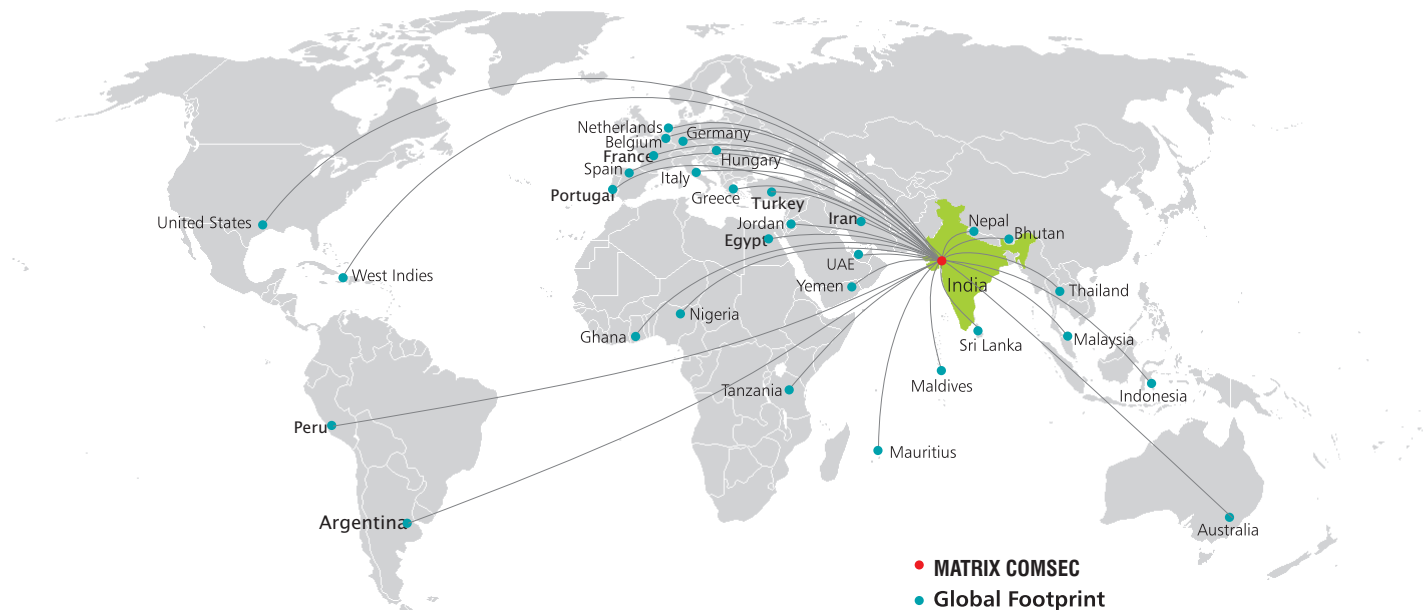
Matrix SATATYA CMS is an advanced video surveillance application software platform to control and monitor multiple DVRs and NVRs from a single place.



- Multiple DVR and NVR
- 36 Channels Simultaneous Display
- 24 Video Layouts
- Intelligent E-map
- Schedule Record
- Lock Current View
- Digital Zoom on Live and Playback
- Playback with Controls
- Audio Visual Alerts with Notifications
- Monitor Plans
- Image Capture
- Resume with Live View
- PTZ Controls
- Health Status of Devices



MATRIX NETWORK



MATRIX CUSTOMERS

Over the past 18 years, Matrix products have contributed significantly to improving efficiency and productivity of many organizations by providing dependable telecom solutions to them. Matrix customers are diverse and include large corporate offices, telecom service providers, institutions, factories, call centers, hotels, hospitals, housing societies and apartment buildings and residences. To name a few:

ABB
 Alfa Laval
 American Express
 Bajaj Auto
 Bayer
 Bharat Petroleum
 Blue Dart Express
 Cadilla Pharma
 Carrier Aircon
 Dr. Reddy's Lab
 Du-Pont
 Garnier Laboratories

GEC Alstom
 Grindwell Norton
 Hindustan Lever
 Hutch
 Indian Oil Corporation
 Indian Space Research Organisation
 Johnson & Johnson
 Larsen & Toubro
 L'Oreal India
 McDowells
 National Bank of Abudhabi
 Pentasoft Technologies

Pepsi
 PriceWaterCoopers
 Raymonds
 Reliance Infocom
 Samsung Corporation
 SmithKline Beecham
 State Bank of India
 Tata Telecom Services
 Tommy Hilfiger
 US Embassy, Mauritius
 World Bank, Ghana
 Writers Corporation

ABOUT MATRIX

An ISO 9001 Company, Matrix is a leader in Telecom and Security solutions for modern businesses and enterprises. An innovative, technology driven and customer focused organization; the company is committed to keep pace with the revolutions in the telecom and security industries. With around 30% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge telecom products like IP-PBX, Universal Gateways, VoIP Gateways and Terminals, GSM Gateways, Access Control and Time-Attendance Systems and Fire Alarm Systems. These solutions are feature-rich, reliable and conform to the international standards. Having global foot-prints in Asia, Europe, North America, South America and Africa through an extensive network of more than 500 channel partners, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of more than 150,000 customers representing the entire spectrum of industries. Matrix has won many awards for its innovative products.



For further information, please contact:



MATRIX COMSEC PVT. LTD.

Head Office

394 - GIDC, Makarpura, Vadodara - 390 010, India.
 Ph: +91 265 2630555, Fax: +91 265 2636598
 E-mail: Inquiry@MatrixComSec.com
 SMS 'MATRIX' to 99987 55555

Factory

39 GIDC, Waghodia, Dist. Vadodara - 391 760, India.
 Ph: +91 2668 262056/57, Fax: +91 2668 262631

www.MatrixComSec.com

Due to continuous technology upgradations, product specifications are subject to change without notice.