

MATRIX SATATYA

Video Surveillance Solution for Enterprises

Video surveillance is an important part of any organization's security strategy. Security and safety of human resources, physical and intellectual assets are of utmost importance. In addition, productivity and discipline aspects are also linked with video surveillance. However, the video surveillance solutions available in the market today offer reactive security. Moreover, these solutions stop at mere monitoring and recording, lacking the intelligent features that offer centralized control over the solution. Furthermore, with the advent of IP solutions, bandwidth and storage requirements have dramatically increased leading to higher cost of overall solution preventing organizations to shift to the superior IP solution.

Matrix presents SATATYA – a family of Video Surveillance solutions specifically engineered for large organizations to address their enterprise grade applications. The offering in terms of solution includes an enterprise VMS, NVRs and IP camera. Considering the need of today's globalized organizations, the entire Matrix solution focuses on four major aspects, which are preventive security, centralized control with ease of management, storage space optimization and efficient bandwidth utilization.



MATRIX SATATYA: SOLUTIONS OFFERED

VIDEO MANAGEMENT SOFTWARE	NETWORK VIDEO RECORDER	IP CAMERAS
Intelligent Video Analytics	64 Channel NVR <ul style="list-style-type: none"> • SATATYA NVR64P • SATATYA NVR64S 	IP PTZ Camera
Cognitive Monitoring Analysis and Response Engine (CMARE)		
Vehicle Parking Management	24 Channel NVR <ul style="list-style-type: none"> • SATATYA NVR24P 	3MP Cameras <ul style="list-style-type: none"> • 3MP Motorized Varifocal • 3MP Manual Varifocal • 3MP Fixed Lens
Command and Control Center	16 Channel NVR <ul style="list-style-type: none"> • SATATYA NVR16H • SATATYA NVR16S 	
People Management Solutions	8 Channel NVR <ul style="list-style-type: none"> • SATATYA NVR8S 	2MP Cameras <ul style="list-style-type: none"> • 2MP Motorized Varifocal • 2MP Manual Varifocal • 2MP Fixed Lens
Mobile Application for VMS		

CENTRALIZED V/S LOCAL VIDEO SURVEILLANCE

FUNCTIONS	LOCALIZED VIDEO SURVEILLANCE	CENTRALIZED VIDEO SURVEILLANCE (MATRIX SATATYA SAMAS)
Capturing	Difficult and costly to deploy, configure, monitor, upgrade and troubleshoot IP cameras at dispersed and remote locations.	Use Plug-n-Play, Auto Search, Status Monitoring and Remote Upgrade to install, monitor, upgrade and troubleshoot all cameras from a central location.
Monitoring	Monitoring at multiple locations require multiple people, equipment and space. Dispersed monitoring also restricts analytics, processing and integration possibilities.	Single dashboard for consolidated live view of video and events from multiple locations spread across the planet breaking distance and time barriers.
Storage Management	Localized recording with data scattered over multiple locations. Video with very little security, encryption and compression.	Centralized video surveillance offers flexibility of distributed, centralized as well as cloud based storage. It also provides higher security of data, scheduled backup with audio and video compression, latest encryption and higher RAID support to NAS.
Playback and Investigation	Difficulties and delays in investigation, conclusions and response. Requires transporting either video files or people.	Instant playback and investigation from the central location of all video files. Smart Investigation with Intelligent Video Analytics (IVA) designed to find specific events from the recorded videos instantly. Improves investigation accuracy and reduces response time and cost.
Intelligent Video Analytics (IVA)	Local video surveillance systems just dump the captured data making it difficult to monitor and take required actions.	Centralized solutions take data from disparate locations and perform analytics like Missing Object, Intrusion Detection, Vehicle Counting, Face Detection etc. for anomaly detection and video indexing.
Real-time Notifications	Limited notifications restrict ability to correlate and respond. Disconnected analytics and investigation confine such solutions to reactive security.	Centralized dashboard with real-time notifications for undesired events and exceptions help prevent accidents and security lapses.
Integration	Hardware integration only between local devices only for triggering local alarms. Software, API and database integrations not possible.	Seamless integration with diverse systems such as access control, fire-alarm, building management and IoT at physical, API and database layers to enhance effectiveness of all the systems.
Centralized System Management	Separate IT-NW-electrical teams to manage servers, devices, cameras, networks, power, etc. Each local system is designed for single user running on a single PC server. Real-time health status of all these scattered systems is not available.	Small central team can manage the entire video surveillance infrastructure. Real-time working status of entire video surveillance is system available on the central dashboard.
Organization Structure	Difficulty in mapping and aligning video surveillance rights and responsibilities with organization structure, hierarchy and physical layouts of campuses, buildings, plants and offices.	Users profiles exactly matching their titles, roles, responsibilities and rights. Hierarchical video surveillance system matching with organization's physical layout.
Interoperability and Open Standards	Most small (local) solutions are "closed" and lack open standards and compatibility to work with cameras and devices from multiple vendors.	Built on open ONVIF and other networking standards. Open platform having built-in compatibility with popular IP camera brands. Well documented API integration with other third party solutions.
Real life Business Applications	Largely an isolated appliance limited to capturing, monitoring, recording and occasional playback. 1wLimited video analytics/ interpretation lacking capabilities to address real life business applications.	Intelligent and integrated video surveillance system capable of interpreting video streams and thus offering solution for real life business problems such as integration with weighbridge, POS, etc.

SATATYA SAMAS – ENTERPRISE VIDEO MANAGEMENT SOFTWARE

MORE LOCATIONS | MORE CONTROL | MORE VISIBILITY

REDUCE OPERATING COST

- No Public IP Required
- Camera-wise Recording Retention
- Adaptive Recording and Streaming
- No Server Required for Regional Monitoring

CENTRALIZED CONTROL

- Distributed Architecture
- Edge Recording
- User based Roles and Rights
- Integrated Solution

CENTRALIZED VISIBILITY

- 100,000 Cameras
- 1,000 Simultaneous Users
- E-Map Monitoring
- Daily Highlights

INSTANT NOTIFICATION

- SMS
- Email with Snapshot
- Video Pop-up
- Audio Alarm

DATA SECURITY

- Redundancy
- SSL Transfer
- Health Status Reports
- TCP Notification within 5Kbps

SMART IDENTIFICATION

- Perimeter Security
- Asset Security
- Human Security
- Vehicle Security

CENTRALIZED CONTROL AND MONITORING



E-map Monitoring

Monitor Cameras and Sensors Placed on the Organizational Layout with Notification



Sequencing and Camera Grouping

Logical Grouping and Sequencing of Cameras – Branch-wise and Domain-wise



Daily Highlights

Camera-wise Motion based Daily Summary for Quick Analysis



User Defined Roles and Rights

Camera and Function based User Login Roles and Rights

PREVENTIVE SECURITY AND SAFETY



Motion Detection

Notification on Occurrence of Motion in Defined Areas



License Plate Recognition

Detect and Recognize the License Plate Number and Save it to Database



No Motion Detection

Notifications on No Motion for a Defined Time in a Defined Area



Trip Wire

Notifications on Object/Person Crossing a Line in a Defined Direction



Intrusion Detection

Notifications on Intrusion of any Object/Person in a Defined Area



People Counting

Direction based Counting of Heads Passing through a Defined Area



Face Detection

Notifications on Detection of Faces in a Defined Area



Loitering

Notifications on any Movement in a Defined Area for a Defined Period



Missing Object Detection

Notifications on Detection of Object Moving out of a Marked Area



Vehicle Counting

Count Number of Vehicles Passing in or out from a Defined Area



Tail-gating

Notification on Multiple Entries from a Defined Entry/Exit in a Defined Time



Unauthorized Parking

Notification on Parking on a Spot in a Wrong Slot



Prohibited Parking

Notification on Parking in No Parking Zone



Improper Parking

Notification on Parking Outside Defined Slots



Wrong Way

Notification on Vehicles Moving against Defined Direction



Premise Availability

Real-time Status of the Number of Empty Parking Slots in the Premises



Audio Exception

Notification on Abnormally Loud Audio

REAL-TIME NOTIFICATIONS



Email with Snapshot

Email Notification with a Snapshot/Video Recording for Pictorial Evidence



Video Pop-up

Event based Video Pop-up with Multiple Window Stacking



SMS

Camera-wise Event based SMS Notification



Audio Alarm & Buzzer

Event based Audio, Alarm and Buzzer to Alert Security Personnel

RELIABILITY



Evidence Lock

Restrict Deletion of Important Evidence by Defining a Locking Period



Redundancy

No Loss of Recording in Case of any Failure of Recording Server



Clip Export

Instantly Export Proof by Sending Event based Clips to Central Location



Health Status Reports

Ensure Functions like Live View, Recording and Connectivity for Entities like Cameras, Server and Sensors are Operating Smoothly

LOW COST OF SOLUTION - BANDWIDTH, STORAGE, SERVER



Edge Recording

Flexibility of Videos/Snapshot Storage as per the Availability of Bandwidth and Priority of Event



Internet Dongles with Private IP

Connects all Video Recorders/Cameras Centrally without a Public IP as Device Initiates Connection to a Central Location



Multi-streaming

4 Stream Support for: Live View, Recording, Remote View, Mobile Monitoring



Two Level Data Compression & Archiving

Deletes Audio files during First Level of Compression and Removes P Frames for further Compression after a Defined Period of Time



Adaptive Recording

Records at Lower Frame Rate during No Activity Period



Camera-wise Recording Retention

Define Camera-wise Storage Days to Retain the Recording based on Importance of Camera



NAS and FTP

Supports NAS/FTP for Storage and Backup of Videos/Snapshots

INTEGRATED SECURITY SOLUTION



Integration

Information such as Snapshot, Recorded Clip, Event Notification and Bookmark can be Stamped for any Third Party Event



Interoperability

Cameras Support ONVIF 2.0 Version along with other Major Brands

MOBILE APPLICATION FOR VIDEO RECORDERS: SATATYA VISION

Overview

Matrix SATATYA VISION is a comprehensive Video Surveillance application for mobile devices. It is designed for smart phones and tablets running on popular operating systems such as Android and iOS. It connects multiple recording servers, cameras and video recorders and allows viewing all the locations and cameras from a single window with sequencing.

Features



Configure Public and Private IP



Group Cameras from Different Servers and Video Recorders



Define Favorite Template



Playback



Bandwidth Optimization



PTZ Control



Pictorial Evidence



Audio



SATATYA SAMAS SCALABILITY

Number of Cameras	1,00,000
Number of Devices	10,000
Number of Recording Server	1,000
Number of Simultaneous Users	1,000

LICENSING OF SATATYA SAMAS	SATATYA SAMAS PLATFORM		
	GE	ME	LE
In-built Cameras	20	50	200
Maximum Camera Supported	100	250	1,00,000
In-built Simultaneous Users	2	5	5
Maximum Simultaneous Users Supported	1,000	1,000	1,000
Maximum Number of Cameras per Server	255	255	255
No License is Required for Recording Server			

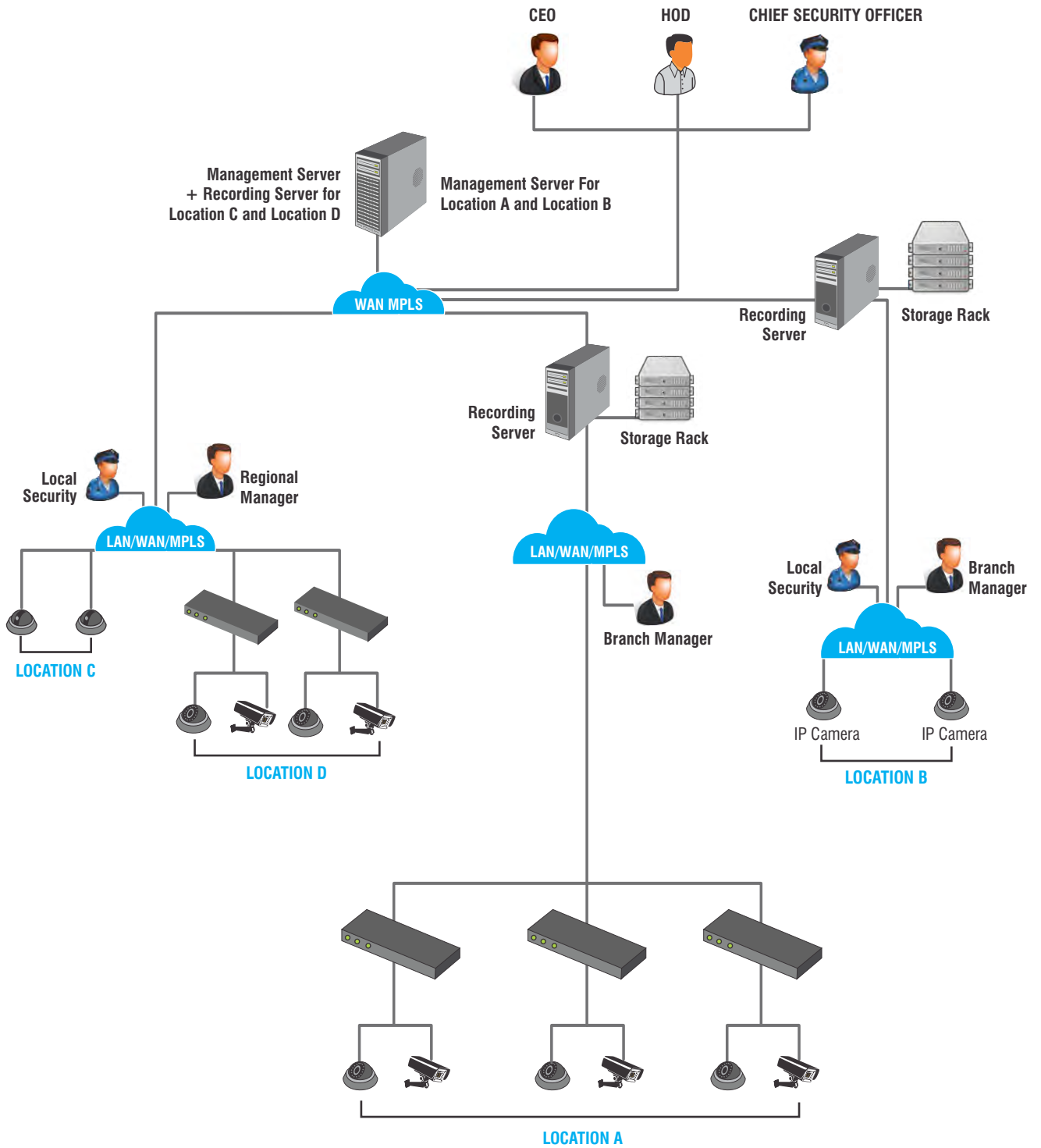
SATATYA SAMAS LICENSING MODULES

BASIC PLATFORM	VEHICLE TRACKING & PARKING MANAGEMENT
ENTERPRISE INTELLIGENT VIDEO ANALYTICS	COGNITIVE MONITORING ANALYSIS AND RESPONSE ENGINE
AUTOMATIC NUMBER PLATE RECOGNITION	PEOPLE MOVEMENT AND TRACKING
FACE RECOGNITION	ADDITIONAL CAMERA LICENSE
ADDITIONAL USER LICENSE	ADDITIONAL UPGRADATION LICENSE

SATATYA SAMAS SERVER AND CLIENT MODULES

SATATYA SAMAS Management Server	Management Server is for administration of all connected entities such as Recording Servers, Devices, Cameras, Access Control Devices, Sensors and Alarms.
SATATYA SAMAS Recording Server	Recording Server is used for recording a camera stream on a server administrated under the Management Server.
SATATYA SAMAS Admin Client	Admin Client is for system administrators to configure and manage entire SATATYA SAMAS. Multiple admin clients with different login rights are supported for managing various aspects including Servers, Devices, Live View, Recording, Streaming, Storage, Backup, Archival, Alerts and Notifications.
SATATYA SAMAS Smart Client	Smart Client is for users which allow them to manage all video surveillance activities including Live View, Playback, Investigation, Video Analytics, Alarms and Integration. Multiple users can log in simultaneously with different login roles and rights.
SATATYA SAMAS Media Client	Media Client is for users to view backup videos stored in the backup drive.
SATATYA SAMAS Mobile Client	SATATYA VISION is the Android and iOS mobile application for SATATYA SAMAS which is used for remote monitoring.

MATRIX SATATYA SAMAS ARCHITECTURE



DEPLOYMENTS

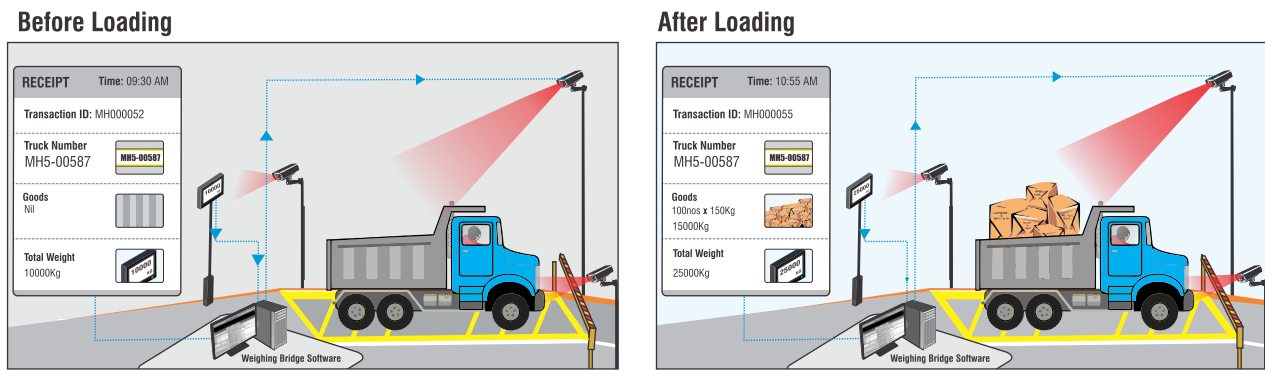
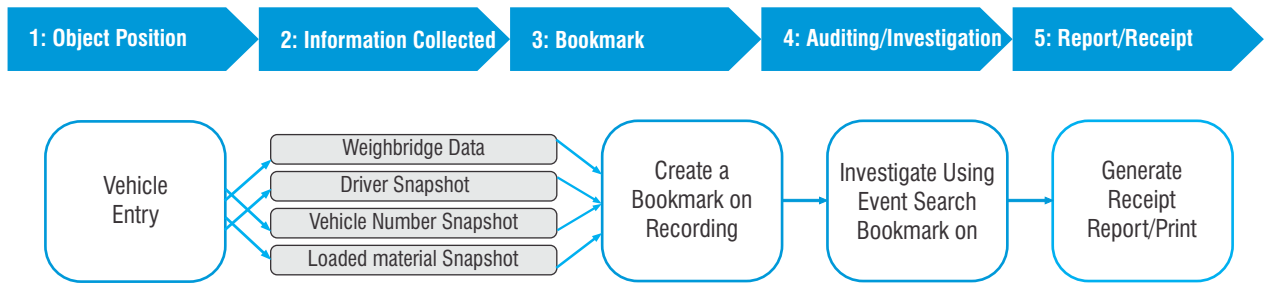
DEPLOYMENT A	Management Server	→	Recording Server	→	Devices	→	Camera
DEPLOYMENT B	Management Server	→	Recording Server	→	IP Camera		
DEPLOYMENT C	Management Server	+	Recording Server	→	IP Camera		
DEPLOYMENT D	Management Server	+	Recording Server	→	Devices	→	Camera

Note: Deployment C and Deployment D have a common recording server for regional management.

WEIGH BRIDGE (USING WEB API)

SATATYA SAMAS provides users with the flexibility to collect pictorial evidence of inward or outward material. Mapping of unique number such as License Plate/Challan Number/ Token number with each vehicle is also possible for carrying out

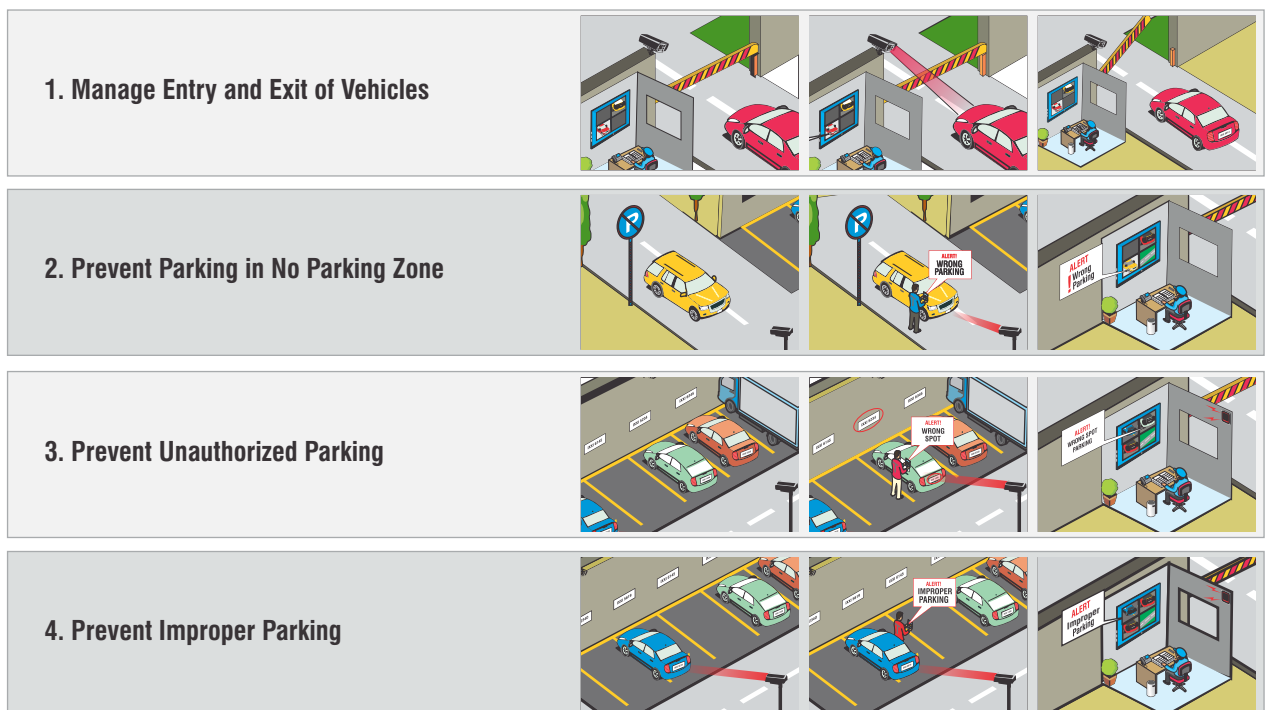
further verification and auditing. Vehicle search can be carried out using any of the unique "Bookmarks" mentioned above for quick validation, using snap shots from various angles of payload, vehicle, driver, weighing scale, etc.



PARKING MANAGEMENT

Matrix SATATYA SAMAS brings you the perfect solution to put an end to all your parking woes. It is a comprehensive solution for your premises that will prevent people from parking haphazardly,

parking in restricted areas, parking in others' slots, moving in a wrong direction and also give real-time status of vacant parking spaces.



SATATYA VIDEO RECORDERS



Matrix Video Surveillance consists of a wide portfolio of hardware and software products. Network Video Recorder (NVR), Software for Centralized Monitoring and Mobile Application are a part of this portfolio. Our products are designed considering the challenges experienced in the video surveillance market like high bandwidth, storage, difficulty in management of multiple cameras and integration. Below is the list of our salient features:

MANAGEMENT AND MONITORING



Cascading

Enables Monitoring of up to 19 other Devices with a Single Device without using a Server



Playback and Search

Provides Synchronous Playback to Enable Timeline and Event based Search



E-map Monitoring

Monitor Cameras and Sensors Placed on the Organizational Layout with Notification



Two Way Audio

Allows Listening to Audio from the Camera's End as well as Enables Speaking to the Camera

PREVENTIVE SECURITY



Calling from Mobile App

Provides Flexibility to Call a SIM Number or an Extension (MATRIX EPABX) Assigned to any Camera Directly from the Mobile Device



Instant Notifications

Provides SMS Notification, Email Notification with Snapshot, Video Pop-up, Audio Alarm and Buzzer Notifications

BANDWIDTH OPTIMIZATION



Multi-streaming with CBR and VBR

Provides Flexibility to Customize the Streams as per Requirement and Availability of Bandwidth



TCP based Notifications

System Sends Push Notifications about Functioning Status of all Cameras and Devices within 5Kbps

REDUCED STORAGE COSTS



Adaptive Recording

Records at Lower Frame Rate during No Activity Period



Scheduled and Manual Backup over NAS/FTP

Supports up to 2 NAS with 16TB each and RAID Functionality



Higher In-built Storage

Provides Higher Storage on Local Drive with 6TB HDD per Slot



Camera-wise Recording Retention

Provides Camera-wise Flexibility to Configure the Number of Days for Retaining Recording based on Priority of Camera



H.265 Compression

Consumes 50% less Storage compare to H.264

INTEGRATED SECURITY



Integration

Allows Database Level Integration with Matrix Access Control



Interoperability

Supports Connection of all ONVIF, RTP or RTSP Compliant Cameras with Matrix Video Recorders

IP SOLUTION: NETWORK VIDEO RECORDERS

Matrix SATATYA NVR64P is a 64 channel premium Network Video Recorder suitable for enterprises, built on a Core i3 processor for smooth and reliable performance. Throughput: 354Mbps and Storage capacity: 24TB

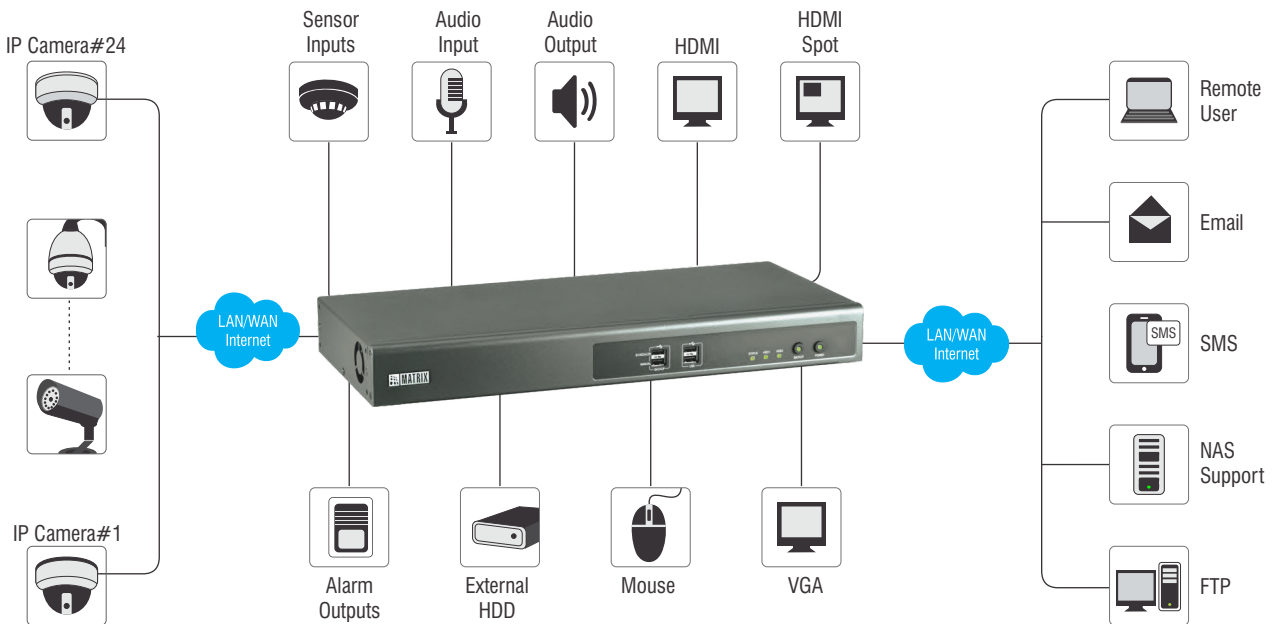
Matrix SATATYA NVR64S is a 64 channel standard Network Video Recorder suitable for enterprises, built on a Core2 Duo processor for smooth and reliable performance. Throughput: 256Mbps and Storage capacity: 24TB

Matrix SATATYA NVR16H is a 16 channel High end Network Video Recorder, which is expandable up to 24 Channels, designed to provide enterprise grade performance and reliability. Throughput: 144Mbps and Storage capacity: 24TB

Matrix SATATYA NVR24P is a 24 channel Premium Network Video Recorder, designed for performance and reliability that organizations expect from a professional Video Surveillance solution. Throughput: 144Mbps and Storage capacity: 12TB

Matrix SATATYA NVR16S is a 16 channel standard Network Video Recorder, which is expandable up to 24 Channels, designed for performance and reliability that organizations expect from a professional Video Surveillance solution. Throughput: 144Mbps and Storage capacity: 6TB

Matrix SATATYA NVR8S is an 8 channel Network Video Recorder designed for SOHO and SME organizations. Throughput: 48Mbps and Storage capacity: 6TB



		SATATYA NVR8S	SATATYA NVR16S	SATATYA NVR24P	SATATYA NVR16H	SATATYA NVR64P	SATATYA NVR64S
Video	IP Channels	8	24	24	24	64	64
	VGA Main	1	1	1	1	1	1
	HDMI Main	1	1	1	1	1	1
	HDMI Spot	X	X	1	1	X	X
Audio	Input	X	X	1	X	1	1
	Output	X	X	1	X	1	1
Alarm	Input	X	4	8	8	4	4
	Output	X	1	4	3	2	2
Storage	SATA Ports (6TB Per Port)	1	1	2	4	4	4
Interfaces	10/100Mbps Adaptive Interface	1	X	X	X	X	X
	Gigabit Ethernet Interfaces	X	2	2	2	2	2
	USB Ports	2	2	4	4	4	4

MATRIX SATATYA VIDEO SURVEILLANCE SOFTWARE FOR RECORDERS

Remote viewing and monitoring of an organization is of very high importance for any owner. The SATATYA Video Surveillance software for recorders helps in monitoring the NVRs even when the owner is not on the premises. This helps in increasing productivity, efficiency and discipline of the organization.

Key Features

- View and Configure a SATATYA NVR
- Addition of Multiple NVRs
- Synchronous/Asynchronous Playback
- Playback from Event Log
- Health Status of Connected Device
- Camera-wise Recording Retention
- Camera-wise Constant and Variable Bit Rate
- SMS and Email Notifications
- Camera, Device and Sensor Event Alerts
- Storage Calculator
- User Access Rights
- Integration with Access Control
- Multi-OS Device Client for MAC Support
- Video Pop-up for Events
- Centralized Recording Plan
- Monitoring Plan
- Camera Grouping and Sequencing
- Event Log Search
- Audio Visual Alerts
- Video Display Alerts
- Intelligent E-map



SATATYA SIGHT: MOBILE APPLICATION

SATATYA SIGHT is a mobile application for Matrix Video Surveillance which permits organizations to monitor and manage their premises remotely. To further enhance the remote viewing experience for an enterprise level user, SATATYA SIGHT provides more flexibility and enhanced security with the features it offers.

Key Features

- 4x4 layout in live view
- Addition of up to 50 Devices
- Scene can be Viewed either in Mainstream or Sub-Stream
- Playback of Recorded Data
- Favorite Channel
- Digital Zoom
- PTZ Control
- Calling per Channel in Case of any Event
- Support for Android, iOS and Windows Mobile Phone/Tablets



SATATYA CAMERAS



Matrix introduces a range of best in class 2MP and 3MP Cameras, designed to meet varied security requirements of enterprises. Powered by Sony's EXMOR technology sensor, these cameras provide crystal clear image quality with exceptional low light performance. It comes with True WDR to provide consistent image quality under varying light conditions. These weather proof cameras come in both, bullet and dome variants, and can be used for closer inspection of events.

HIGH IMAGE QUALITY



SONY's STARVIS series sensor with EXMOR technology

Sensor is back-illuminated giving color images at 0.08lux, thereby providing crystal clear night vision.



TRUE WDR

Smartly rectifies the over and under-exposed areas in the scene, thus giving more informative and clear image.

OPTIMIZED BANDWIDTH AND STORAGE



H.265 Compression

Consumes 50% less bit-rate compare to H.264



Adaptive Streaming

Records at lower frame-rate during non-activity period to save up to 50% on storage and bandwidth.



Smart Streaming

Divides a single stream into multiple bit-rates based on its importance to optimize bandwidth and storage consumption.



Region of Interest (ROI)

Matrix cameras provide ROI which allows streaming and recording of only critical areas from the entire image to optimize bandwidth and storage.



Quad Stream Support

Matrix cameras have four stream support allowing different streams for viewing, storing and recording.



SD Card Support

Local Storage of up to 128GB

GREATER FIELD OF VIEW



Greater Field of View

Get greater field of view as compared to any other camera (90° FOV at 3.6mm lens, 2MP resolution)

NO PUBLIC IP REQUIRED



Push Technology

Here, communication with the server is initiated from camera's end, which reduces load on the server and helps in uninterrupted network connection, in turn eliminating the need of public IP at each location.

REAL-TIME SECURITY



Early Detection

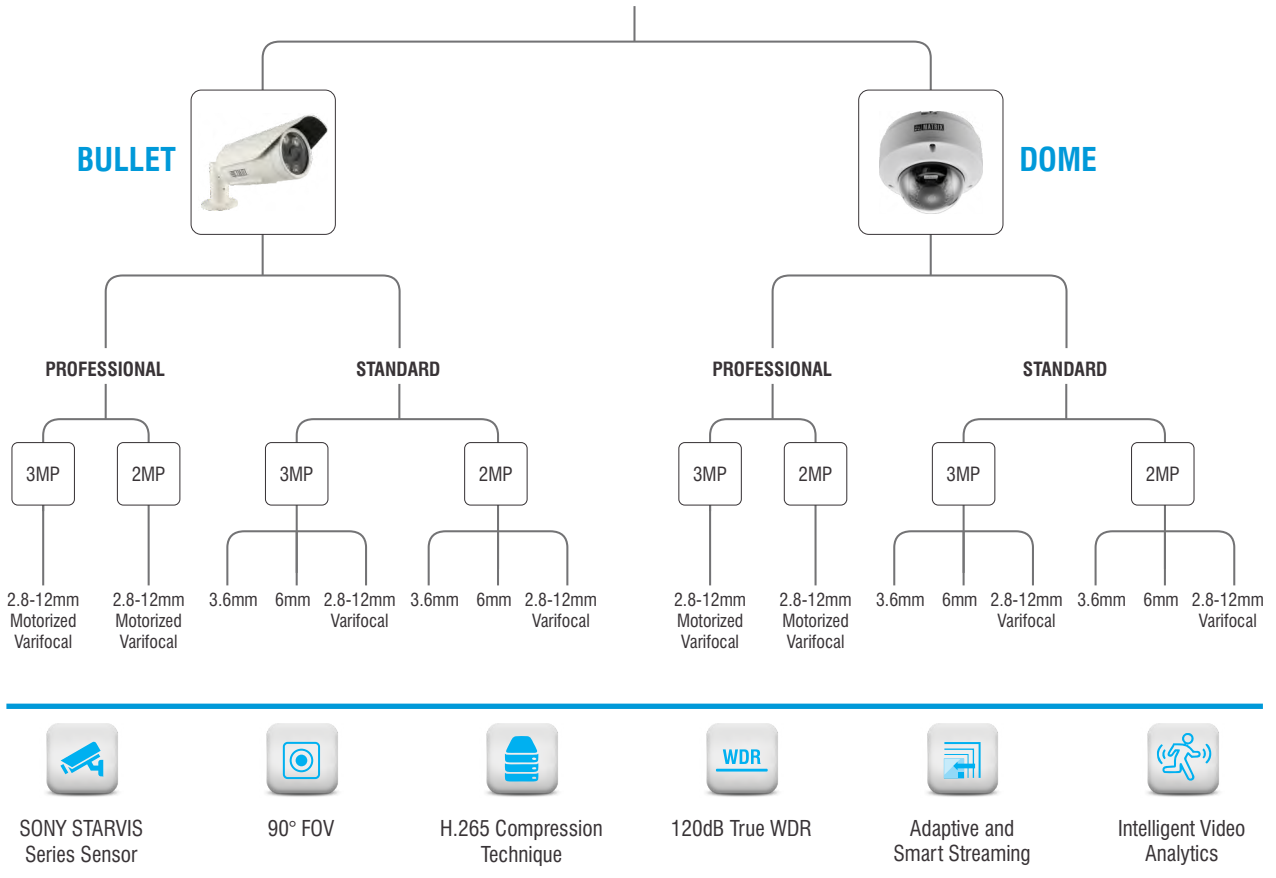
Matrix IP Cameras come with IVA's like Motion Detection, Intrusion Detection and Trip Wire for instant detection of suspicious events.



Instant Notifications

On detection of threat, cameras send instant alerts like SMS, Email with Snapshot, Pre and Post Alarm based Recording, Upload Image/Clip, Ring Alarm and Schedule Snapshot for real-time security.

MATRIX IP CAMERAS



3MP IP CAMERAS

PREMIUM
SATATYA CIDR30MVL12CWP 3MP IR Dome Camera, Motorized Varifocal Lens with 2.8-12mm Lens, Professional Series
SATATYA CIBR30MVL12CWP 3MP IR Bullet Camera, Motorized Varifocal Lens with 2.8-12mm Lens, Professional Series
STANDARD
SATATYA CIDR30FL36CWS 3MP IR Dome Camera, Fixed Lens with 3.6mm Lens
SATATYA CIDR30FL60CWS 3MP IR Dome Camera, Fixed Lens with 6.0mm Lens
SATATYA CIDR30VL12CWS 3MP IR Dome Camera, Varifocal Lens with 2.8-12mm Lens
SATATYA CIBR30FL36CWS 3MP IR Bullet Camera, Fixed Lens with 3.6mm Lens
SATATYA CIBR30FL60CWS 3MP IR Bullet Camera, Fixed Lens with 6.0mm Lens
SATATYA CIBR30VL12CWS 3MP IR Bullet Camera, Varifocal lens with 2.8-12mm Lens

2MP IP CAMERAS

PREMIUM
SATATYA CIDR20MVL12CWP 2MP IR Dome Camera, Motorized Varifocal Lens with 2.8-12mm Lens, Professional Series
SATATYA CIBR20MVL12CWP 2MP IR Bullet Camera, Motorized Varifocal Lens with 2.8-12mm Lens, Professional Series
STANDARD
SATATYA CIDR20FL36CWS 2MP IR Dome Camera, Fixed Lens with 3.6mm Lens
SATATYA CIDR20FL60CWS 2MP IR Dome Camera, Fixed Lens with 6.0mm Lens
SATATYA CIDR20VL12CWS 2MP IR Dome Camera, Varifocal Lens with 2.8-12mm Lens
SATATYA CIBR20FL36CWS 2MP IR Bullet Camera, Fixed Lens with 3.6mm Lens
SATATYA CIBR20FL60CWS 2MP IR Bullet Camera, Fixed Lens with 6.0mm Lens
SATATYA CIBR20VL12CWS 2MP IR Bullet Camera, Varifocal lens with 2.8-12mm Lens

2MP PTZ CAMERA: SATATYA CIDRP20VL130CW

Matrix SATATYA IP PTZ camera comes with a varifocal lens of 4.3-129mm which can cover an IR range of 120m. Furthermore, this camera also has 30x optical zooming capabilities which allow closer inspection.



Key Features

- In-built Analytics: Intrusion Detection and Trip Wire
- 30x Optical Zoom, 4.3-129mm Varifocal Lens
- 6 Piece IR Array LEDs with IR Distance of 120m
- 1 Audio Input & 1 Audio Output
- 1 Alarm Input & 1 Alarm Output
- H.264/M-JPEG, Quad Streams
- 128GB SD Card
- IP66, TVS 4,000V Lightning Protection
- CE, RoHS and UL Certified

IP CAMERAS: SPECIFICATIONS

2MP IP CAMERAS									
	STANDARD						PREMIUM		PTZ CAMERA
	SATATYA CIDR20FL36CWS	SATATYA CIBR20FL36CWS	SATATYA CIDR20FL60CWS	SATATYA CIBR20FL60CWS	SATATYA CIDR20VL12CWS	SATATYA CIBR20VL12CWS	SATATYA CIDR20MVL12CWP	SATATYA CIBR20MVL12CWP	SATATYA CIDRP20VL130CW
Type of Camera	IR Dome	IR Bullet	IR Dome	IR Bullet	IR Dome	IR Bullet	IR Dome	IR Bullet	PTZ
Image Sensor	1 / 2.8" SONY CMOS (EXMOR Technology STARVIS Series)								1/2.8" DIS
Lens Size	3.6mm	3.6mm	6mm	6mm	2.8-12mm	2.8-12mm	2.8-12mm	2.8-12mm	4.3-129mm
IR Camera Range	20-30m								120m
Field of View	90	90	56	56	98-33	98-33	98-33	98-33	
Analytics	Motion Detection, Trip Wire, Intrusion Detection, Camera Tamper								
Certifications	CE, FCC, IK10(Dome), IP66								
True WDR	120dB								-
SD Card	128GB								

3MP IP CAMERAS								
	STANDARD						PREMIUM	
	SATATYA CIDR30FL36CWS	SATATYA CIBR30FL36CWS	SATATYA CIDR30FL60CWS	SATATYA CIBR30FL60CWS	SATATYA CIDR30VL12CWS	SATATYA CIBR30VL12CWS	SATATYA CIDR30MVL12CWP	SATATYA CIBR30MVL12CWP
Type of Camera	IR Dome	IR Bullet	IR Dome	IR Bullet	IR Dome	IR Bullet	IR Dome	IR Bullet
Image Sensor	1 / 2.8" SONY CMOS (EXMOR Technology STARVIS Series)							
Lens Size	3.6mm	3.6mm	6mm	6mm	2.8-12mm	2.8-12mm	2.8-12mm	2.8-12mm
IR Camera Range	20-30m							
Field of View	82	82	52	52	88-30	88-30	88-30	88-30
Analytics	Motion Detection, Trip Wire, Intrusion Detection, Camera Tamper							
Certifications	CE, FCC, IK10(Dome), IP66							
True WDR	120dB							
SD Card	128GB							

MATRIX FEATURES PERFORMANCE

Higher Field of View



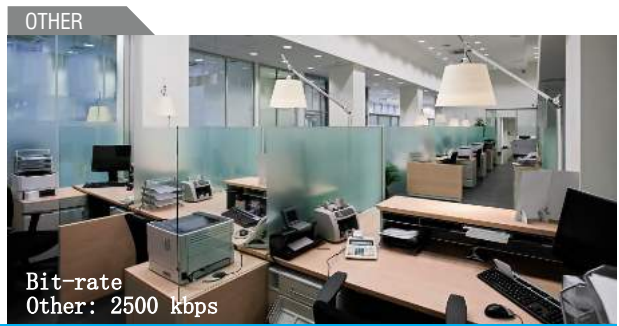
Image Enhancement with True WDR



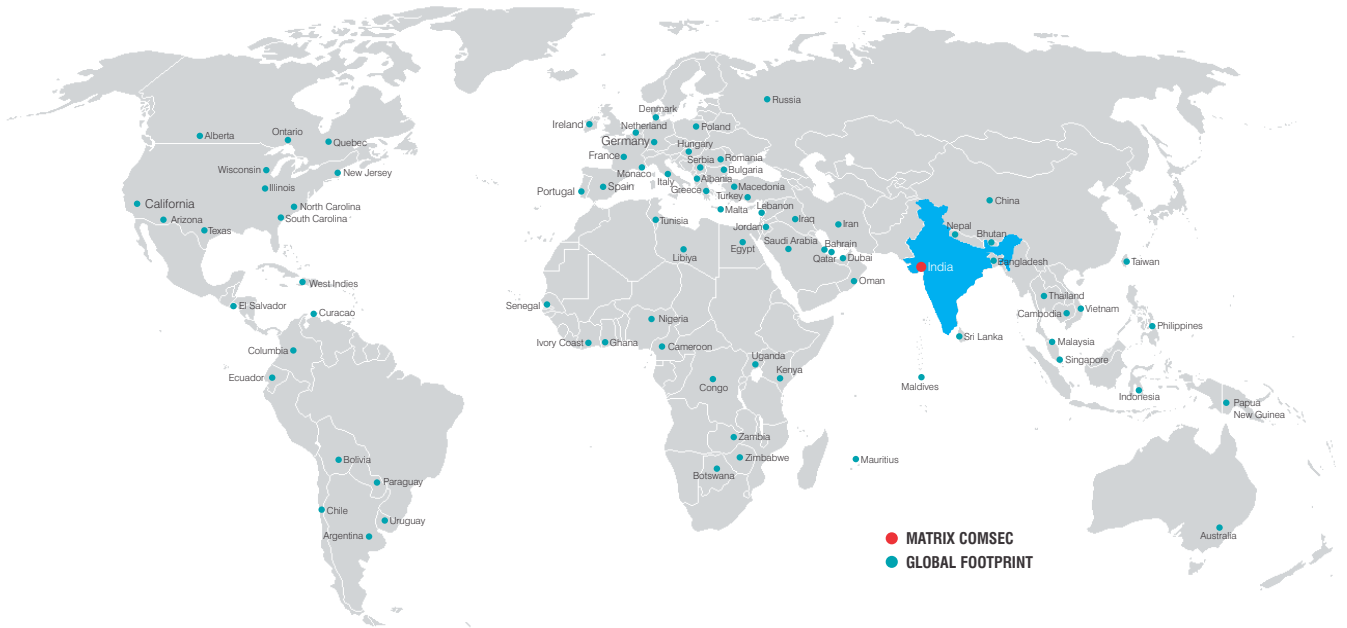
Exceptional Low Light Performance



Activity based Frame Rate Reduction



MATRIX NETWORK



MATRIX SATATYA CUSTOMERS

CORPORATE

- Samsung C&T
- TCS Technology
- SGI Corp
- Tata Technologies
- Raymond Ind.
- Jaypeekint Lab
- COX & KINGS
- Honda Trading Corporation India Pvt. Ltd.
- Rustom Jee

EDUCATION

- IIT
- RBK International School
- NIFT
- Chitkara Group of Institute
- GITAM University

GOVERNMENT

- Indian Railways
- Indian Air Force
- NTPC
- Patna Airport
- Bhubaneswar Airport

MANUFACTURING

- Godrej Ware House
- Tata Motors
- Tata Chemicals
- General Electronics
- Schneider Electric
- Colourtex
- Yamaha Motors
- Jasani
- Cooper Corporation

MEDIA

- Network 18
- Times of India
- Matrimony.com

OTHERS

- Lenskart
- Tanishq
- Taj Group
- Sanofi Pharma
- Deccan Chemicals
- Raheja Hospital
- Hotel Royal Park
- NESCO
- BTI Payments
- Nashik Railways
- Dnata Group

ABOUT MATRIX

Established in 1991, Matrix is a leader in security and telecom solutions for modern businesses and enterprises. Matrix, an innovative, technology driven and customer focused organization, is committed to keep pace with the revolutions in security and telecom industries. With more than 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products such as Unified Communications, IP-PBX, Universal Gateways, Convergence, VOIP Gateways, GSM Gateways, IP Video Surveillance, Access Control and Time-Attendance. These solutions are feature-rich, reliable and conform to the international standards. Having global footprints in Europe, North America, South America, Africa and Asia through an extensive network of more than 1000 system integrators, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of customers representing the entire spectrum of industries. Matrix has won many national and international awards for its innovative products.

For further information, please contact:



MATRIX COMSEC

Head Office

394-GIDC, Makarpura, Vadodara-390 010, India.
Ph: +91 265 2630555
E-mail: Inquiry@MatrixComSec.com

Factory

19-GIDC, Waghodia, Dist. Vadodara-391 760, India.
Ph: +91 2668 263172/73

www.MatrixVideoSurveillance.com