



Enhancing Security with Matrix Video Surveillance Systems

Importance of Video Surveillance



Centralized
Surveillance



Safety of
People



Safety of
Assets



Enhanced
Productivity



Crime
Prevention



Evidence
Gathering



Ensure
Compliance



Proactive
Surveillance



Peace of
Mind

Video Surveillance Essentials



Cameras: Primary Component to Capture Video Footage



Recording Devices: to store video footage for retrieval and analysis



Video Management Software (VMS): to manage and control the video surveillance system



Real-time Alerts and updates

Matrix Video Surveillance Offering



IP Cameras – Bullet, Dome, Turret, Turret All Color, Ruggedized, and PTZ



Network Video Recorders – NVRXS, NVRX, VMSP



SATATYA SAMAS Video Management System



SATATYA Sight / Vision

Matrix SATATYA IP Video Surveillance



Network Cameras
Network Video Recorders

Enterprise Network Video Recorders
Video Management Software
Mobile Applications

NDAA-Compliant IP Video Surveillance Portfolio

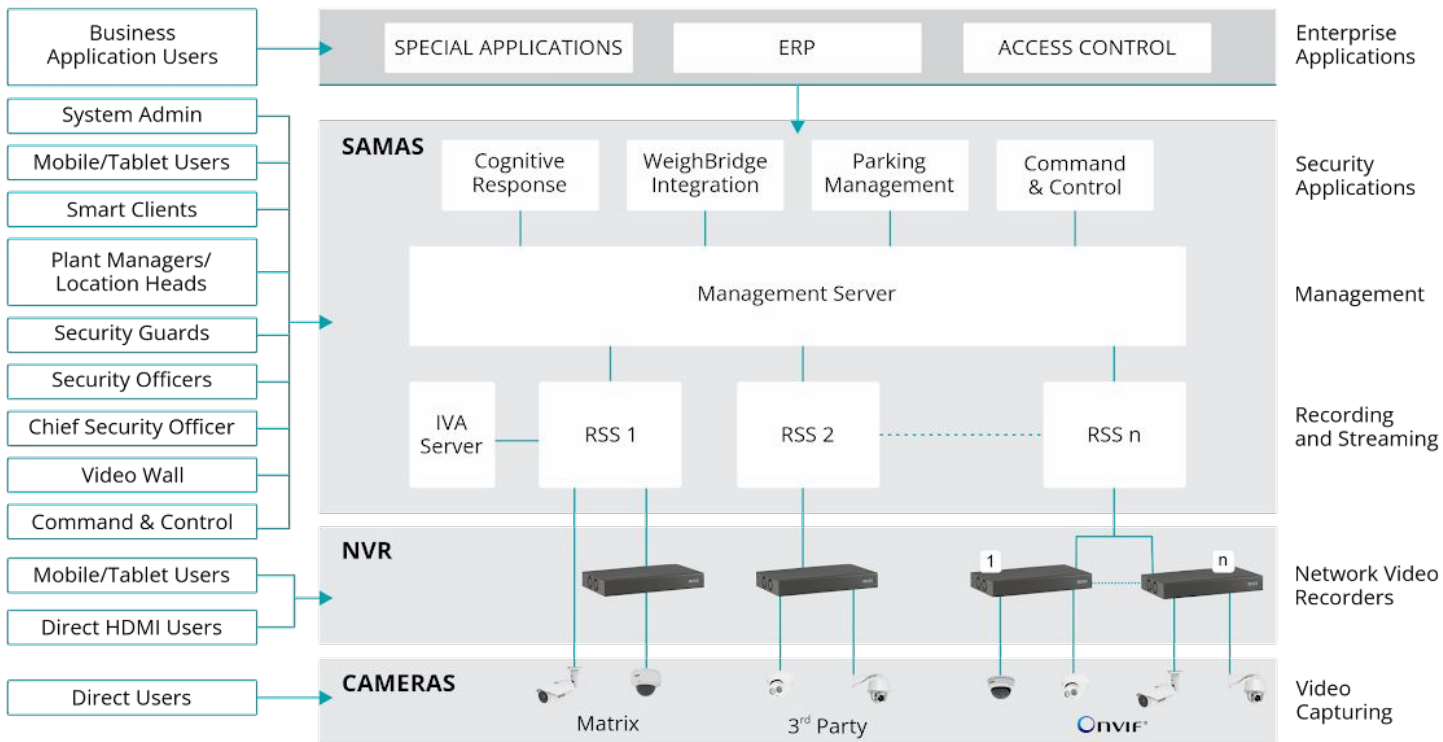
What is NDAA Compliance?

NDAA (National Defense Authorization Act) compliance ensures that products meet U.S. government regulations under Section 889, prohibiting the use of specific non-trusted components in telecommunications and surveillance systems for federal projects.

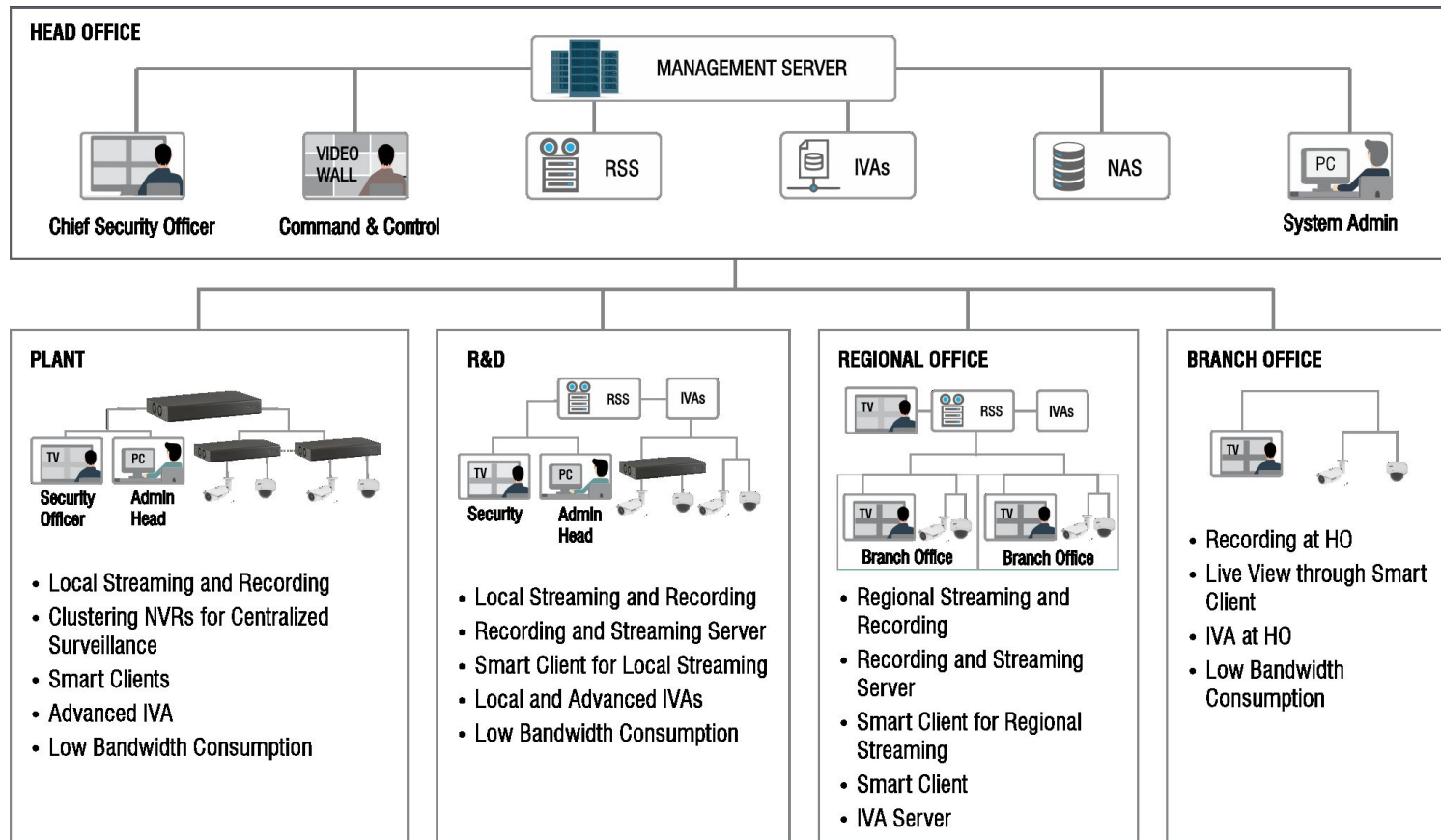


All Matrix IP Video Surveillance Products are NDAA-compliant, ensuring our solutions meet stringent global standards and are preferred for sensitive and mission-critical environments.

SATATYA ARCHITECTURE



SATATYA DEPLOYMENT





SATATYA NETWORK CAMERAS

Range of Network Cameras



STQC-Certified Network Cameras



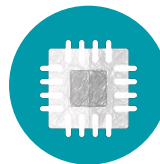
Matrix Network Cameras
ER Compliant as per IoTSCS
Certified by STQC



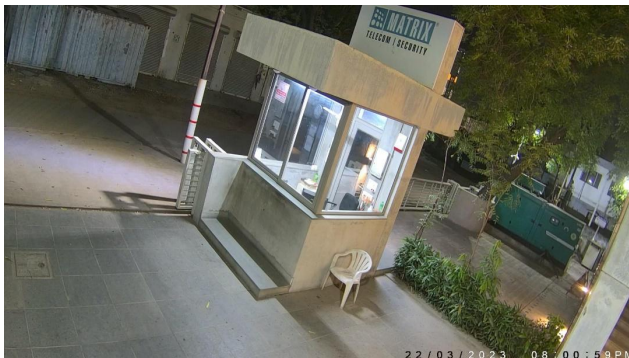
Truly Make In India, Since Last 30 Years

Camera Key Features

Superior Image Quality in Day/Night



SONY STARVIS Sensors reduce noise, enhance Low-light Imaging Clarity

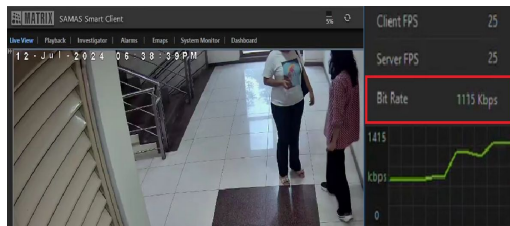
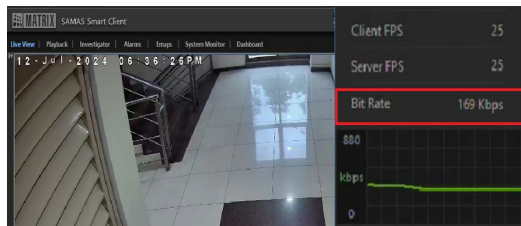


Clear Colored Imaging, even in Low Illumination Conditions (0.01 Lux)

Camera Key Features



Adjusts exposure for balanced brightness with 120dB WDR precision



Cuts bit rate in idle times, saving up to 50% storage

STQC Certified Cyber Secured Cameras



First Indian Company to Offer
RDSO 6.0 Ready Network Cameras



Matrix Network Cameras are ER
Compliant, certified by STQC



Cyber security as per **ISO/IEC 27402**
protects video data from hacking,
ensuring only authorized access



Encrypted video streaming prevents
hackers from spying, stealing, or
changing footage, keeping surveillance
data safe and reliable.

KEY FEATURES



512GB Edge
Recording



Intelligent Video
Analytics



Quad Stream
Support



Adaptive
Streaming



Alerts and
Notification

Project and Distribution Series

Bullet/Dome Cameras



Varied Specifications - 2MP/5MP/8MP Resolutions, Flexible Lens Options, and Audio Capabilities



Project and Distribution Series Cameras: IR range 50m/30m, improved day/night coverage.



Project Series Cameras: UL and NEMA 4x Certification Ensuring Reliable Surveillance



Intelligent Video Analytic Features for Proactive Surveillance

TURRET SERIES

IP CAMERA



Ball and Socket Design: Manual Rotation to Capture Images from Different Angles



External Reset Switch for Ease of Use and Maintenance



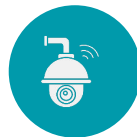
Sturdy ADI Casing Makes them Impact-resistant and Vandal Proof and the Unique Chambered Design Cuts IR Glare



Recently Launched All Color Variants for Colored Images, Day and Night

PTZ SERIES

IP CAMERAS



5MP Camera - 38x Optical Zoom
2MP Camera - 38x/ Optical Zoom



Auto Patrolling – Up to 300 Presets, 8
Auto Scan



Approx. 3KM Detection Range in the
Day, Revolutionary Night Performance
with IR Range of 300m



Privacy Masking of up to 8 regions
from Camera View

Network PTZ Controller

with 4D Joystick



Network Camera Controller



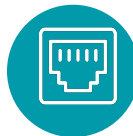
4D Joystick

Precise Positioning for Pan, Tilt, Zoom, and Focus



Smart Keyboard

Advanced Functionalities: Preset, Tour, Patrol, Scan



Built-in PoE Module

Hassle-free Camera Connection,
Simplifying Setup



Supports ONVIF Protocol

Connect Up to 999 Matrix/Third-party
Cameras

RUGGEDIZED IP CAMERAS



Available in 2MP and 5MP Variants



Rugged Design Minimizes Impacts, Shocks, and Vibrations, Best Suited for Transport Industry



Image Stabilization Technique Combats Motion-induced Blurring and Give Sharp Images even When in Motion



Reliable Functioning in Extreme Conditions – Dust, Humidity, Snow, Heat, Power Fluctuations



SATATYA NETWORK VIDEO RECORDER

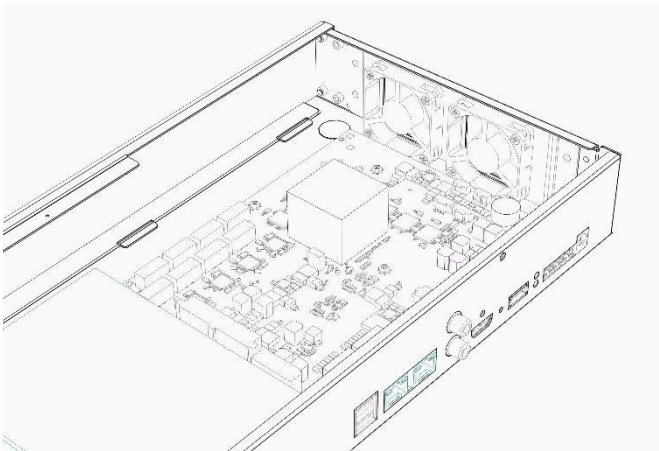
SATATYA NETWORK VIDEO RECORDERS



**Extreme Series
Network Video Recorders**
8/16/32/64/96 Channel Variants



**Extreme Series
Network Video Recorders XS**
4/8/16 Channel Variants



NVR KEY FEATURES

Clustering



Connect up to 20 NVRs using the Clustering feature for unified system management



Centrally monitor 1000+ cameras across all connected NVRs from a single interface



Reduce infrastructure cost by eliminating the need for external servers or VMS software



Ideal for or large deployments needing scalable and centralized video surveillance like airports and railways

Matrix Network Video Recorders Extreme



NVR variants: 8/16/32/64/96 Channels
for Diverse Surveillance Requirements



18TB Storage Support per SATA port



Throughput: 360/512 Mbps, 1Gbps for
Smooth Streaming



RAID Support 0,1,5,10 (Variant
Specific; Refer Datasheet)



MTBF Compliant > 1,00,000 Hours

NVRXS KEY FEATURES



Fan less and Ventless Design for Silent Operations



4/8/16 Channel Support, 1 SATA Port HDD Support (18TB)



360 Mbps Throughput Capacity



Single Disk RAID Support



MTBF Compliant > 1,00,000 Hours

NVR | New Update



All Matrix NVRs

Now Support

18TB Storage

per SATA Port!

NVR Key Differentiators



Cascading of
Up to 20 NVRs*



Camera Addition via
Device Initiation



Adaptive
Recording



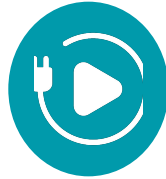
Camera-wise
Recording Retention



Inbuilt
DHCP Server



Instant Calling
from Mobile App



Plug-n-Play with
Auto Configurator



Device Login Using
Matrix DNS Server



Real-time Alerts -
Push Notifications



Interoperability with
Matrix VMS and Access
Control



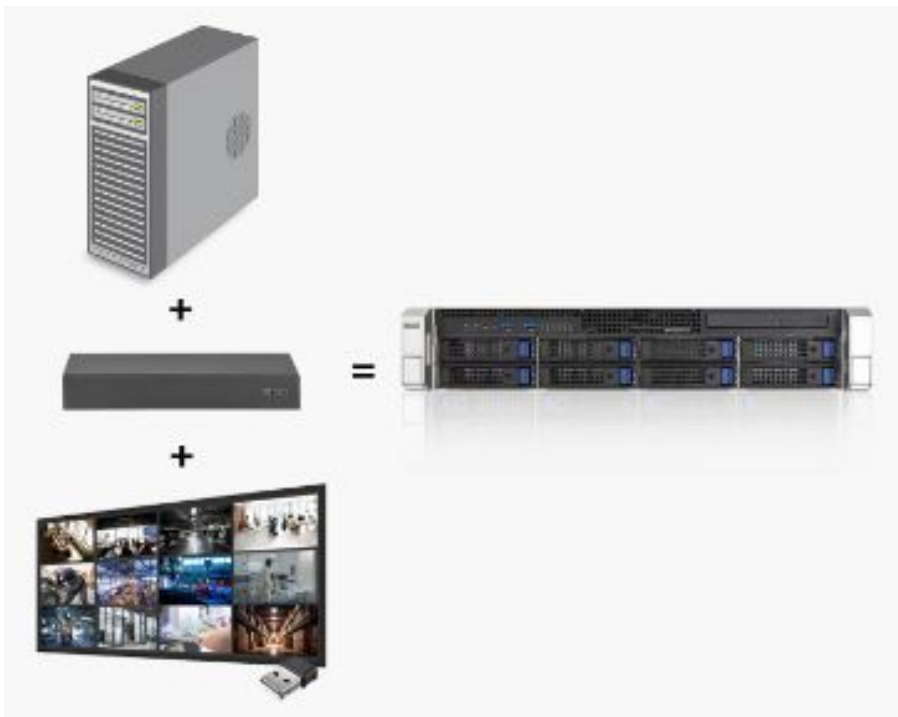
MTBF Compliant > 1,00,000 Hours



SATATYA VIDEO MANAGEMENT SOFTWARE PLATFORM

Enterprise-grade Network Video Recorder

VMSP KEY FEATURES



Enterprise-class Server-based Video Surveillance Solution pre-loaded with OS, DB, and Video Management Software (VMS)



No Need to Invest Separately in VMS, Servers, and NVRs



Intel Xeon 6 Core/ 16 Core Processor, Windows 10 IoT Enterprise LTSC, In-built Graphic Card



Redundancy Support – Power, Network, Storage, Recording and Streaming

VMSP KEY FEATURES



H.265 Video Compression Technology, Adaptive Recording to Optimize Storage



3 Level Video Grooming - Primary and Two Levels of Backup and Archive



Hot Swappable Hard Disk Drives for Easy Maintenance with Zero Down Time



Seamless Integration with Matrix and third-party IP Cameras, and Matrix Access Control Devices

KEY FEATURES - VMSP



255 Channels with
08/16/24 SATA
Interface



144TB/ 288TB/432TB
Storage



12MP Camera Recording
Resolution



Hardware
RAID 0/1/5/6/10/50/60



Higher Throughput
for Faster Streaming



Built on 64-bit
. Net framework



Ram-based pre-buffer
technology



Intelligent
Video Analytics

SATATYA SAMAS VIDEO MANAGEMENT SYSTEM

SAMAS BUILDING BLOCKS

Management Server

- System Admin Assigns Users Roles-Rights
- Devices Management (RSS, NVR, Camera)
- Data Management and Integration

System Admin Client

- Users and Device Management
- Storage and Backup
- System Alerts and Maintenance

Mobile Client

- Mobile Application
- Live View
- Playback

Recording and Streaming Server (RSS)

- Video Streams from Cameras and NVRs
- Storage, Backup, Archiving
- Live Streaming and IVA Integration

Smart Client

- Live View, Playback, and Investigation
- Events, Alerts, and Pop-ups
- Reports and Analytics

Media Client

- Transient Users without Log-in Rights
- Video Access

SAMAS

KEY FEATURES

Centralized Monitoring and Control



- Monitoring Multiple Locations Centrally
- Mapped to Organization Structure and Hierarchy
- Quick Response Time
- Reduced Security Lapses

Scalable to Meet Future Requirements



- Scalable up to 65535 IPC over 400 Cameras/RSS
- Can Connect up to 10,000 Locations
- Up to 1000 Concurrent Users



SAMAS

KEY FEATURES

User-Based Roles and Rights



- Monitoring Multiple Locations Centrally
- Mapped to Organization Structure and Hierarchy
- Quick Response Time
- Reduced Security Lapses

Integrated Video Surveillance



- Single Platform for all Security Devices
- Supports Matrix and Third-Party IPC and NVRs
- Single Platform for Peripheral Security Devices
- API Integration with Matrix Access Control System





SAMAS

KEY FEATURES

Command and Control



- Video Walls, Hierarchical E-map, Evidence Locks
- E-map to Navigate Buildings, Floors, and Camera
- Monitor Cameras and Sensors on The Premises
- Prompt Navigation, and Timely Notification

Redundancy



- Failover Server Deployment at Critical Locations
- **Server Redundancy:** Deploy Multiple RSS
- **Network Redundancy:** Configure Multiple ISPs
- **Edge Recording:** Local Recording in Case of Network Failure

SATATYA

KEY FEATURES



Optimize Bandwidth and Storage



- Configure Different Stream Profiles as per Usage
- Recording, Local, and Mobile View to Optimize Bandwidth
- Configure Different Profiles for Different Usage

Enterprise Intelligent Video Analytics



- Motion and No-motion Detection
- Tripwire, Tampering, Intrusion, Tailgating
- Weighbridge, ANPR, and Parking Management
- Eliminates Human Lapses

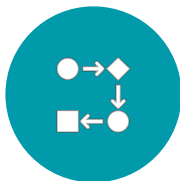
SAMAS SOLUTIONS – Cognitive Response Engine with Automated Monitoring (CREAM)



Automates Routine
Surveillance Workflow and
Activities



Preventive Security with
Consistent Response



Overcomes Human
Constraints, Lapses, and
Delays



Create Customized
Scenarios with Input
Triggers, Real-time Analysis,
and Desired Responses

STQC Certified Video Management Software



Among the First Indian Companies to Offer End-to-End Cyber-secure Video Surveillance Solutions



Data Secure VMS, Compliant to OWASP Top 10 Desktop Security Risks, Certified and Tested by STQC



Safeguards Against Cyber Attacks like Injections, Broken Authentication, Improper Cryptography Usage



Prevents Unauthorized Access to Live Video Feeds, Manipulation of Sensitive Video Data

SAMAS SOLUTIONS – VEHICLE TRACKING AND PARKING MANAGEMENT

- Automates Routine Functioning of Parking lots
- End-to-end Centralized Parking Management Solution
- License Plate Recognition, Prohibited Parking, Wrong way Parking, Unauthorized Parking, and more

Entry or Exit of Vehicles



Unauthorized Parking



No Parking

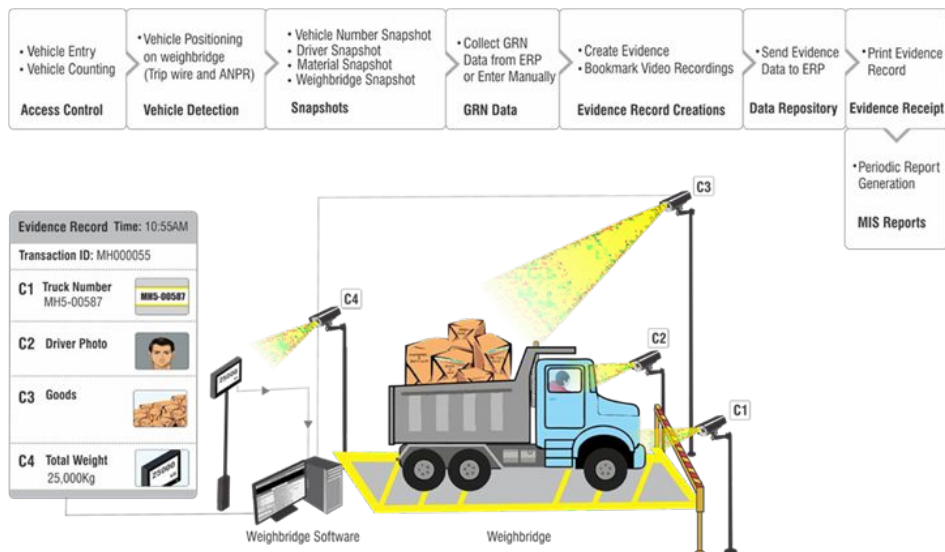


Improper Parking



SAMAS SOLUTIONS – WEIGHBRIDGE INTEGRATION

- Pictorial Evidence of Inward and or Outward Vehicles
- Mapping License Plates, and Challan Numbers, for Verification
- Transparency in Weighment Solutions
- Seamless Integration with ERP through API



Certifications



CUSTOMER STORIES

Lenskart | Retail



Application: Local Monitoring, Centralized Video Surveillance

Locations: 1500+ Cities

Devices: 4000+ Network Cameras, 1000+ NVRs, Video Management System

Location: Pan India

Challenges:

- Theft and robberies at night time
- Monitoring entry and exit points, aisles, cash counters
- Pre and post-installation support in remote locations of India

Solution Provided:

- Local monitoring with Network Cameras and NVRs in each store
- Centralized video surveillance of all the 1500+ locations with Matrix Video Management Software
- Motion Detection IVA to prevent theft and robberies



Application: Centralized Video Surveillance, Automatic Number Plate Recognition, Weighbridge Integration

Location: Nadiad, Gujarat

Challenges:

- Worker Safety
- Protection of Valuable Assets such as Machinery, Raw Materials, and Finished Products
- Inaccurate Weighbridge Monitoring

Solution Provided:

- Centralized Video Surveillance with Network Cameras and Video Management System
- IVAs: Tripwire and Motion Detection for Personnel Safety
- Continuous Monitoring



Application: Centralized Video Surveillance across 61 Centres

Location : PAN India

Challenges:

- Needed video footage of students arriving at the center to match with recorded system details
- Need to capture footages locally for centralised monitoring
- Ensuring the integrity of its assessment process
- Existing video surveillance solution was not up to the mark

Solution Provided:

- Matrix 2MP PTZ Cameras were strategically installed to capture the faces of candidates arriving for tests
- A secondary layer of surveillance to monitor compliance with the SOP
- Cameras were installed at the 11 OSM sites to ensure compliance

IP Video Surveillance Customers



SATATYA CUSTOMERS

BFSI

- Vaijapur Merchant Bank
- Commercial Bank of Congo
- National Health Insurance Fund – Tanzania

Construction

- Rustomjee Crown Project
- Panchsil Group
- Prestige Jindal City
- Infocare Tower
- Bhartiyar City
- Branded Residences Project
- RRVP Bangalore
- L&T Construction – Commnet

Education

- IDP Education India Pvt. Ltd
- Global Academy
- CHH. Shahu College of Engineering
- TATA Institute of Fundamental Research (TIFR)
- Chikkaballapur Medical College

Government

- The Gujarat Cancer and Research Institute
- Western Central Railways
- Genova Piazza Principe Railway Station - Italy

Hospitals and Healthcare

- Krsnaa Diagnostics
- TATA Memorial Centre
- Nanavati Hospital Max

IT/ITES, Retail

- Lenskart
- Bluebirch
- BioSense Institute - Serbia
- AL Adrek

Who We Are



1M+
Customers



4K+
Partners



50+
Countries



24*7
Support



40+
Awards



Stay Tuned & Subscribe



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Matrix_Comsec

THANK YOU!



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