



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

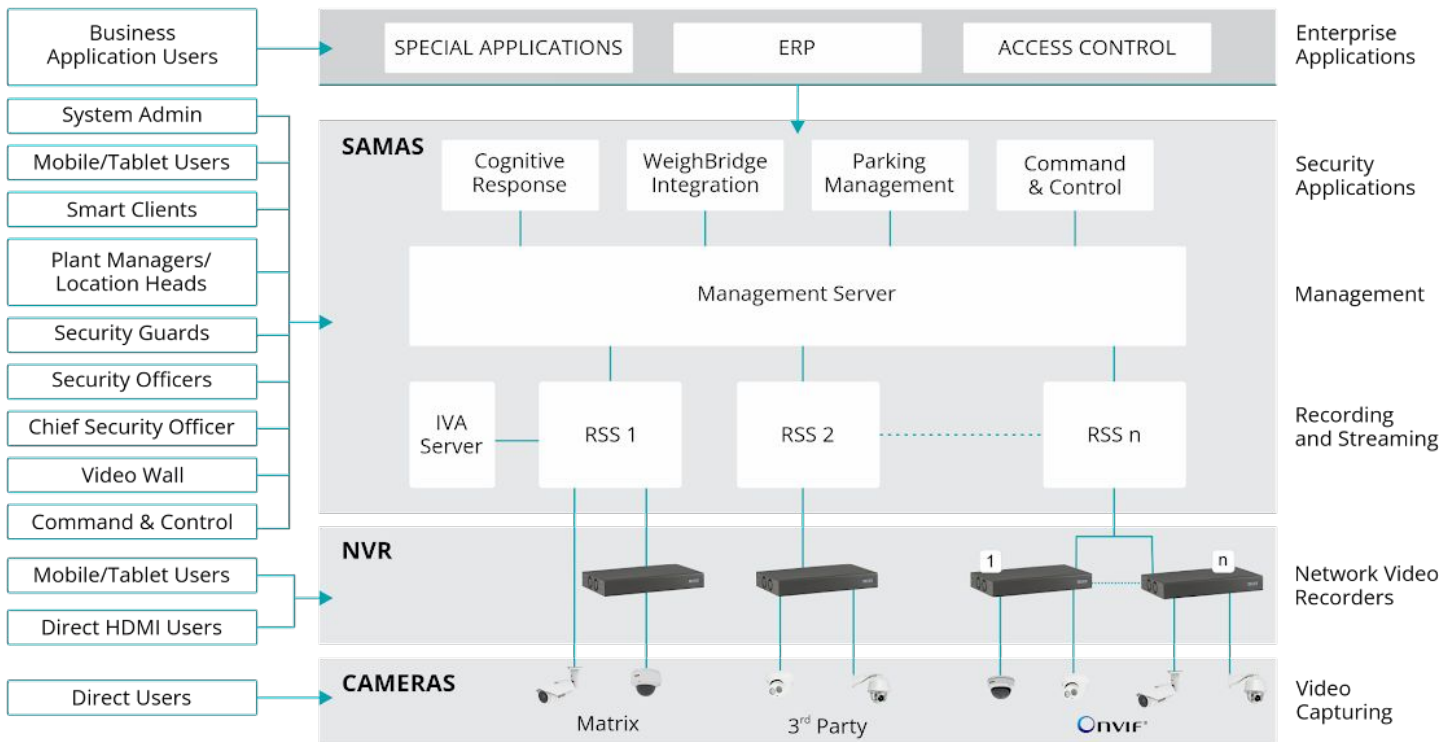
Matrix SATATYA IP Video Surveillance



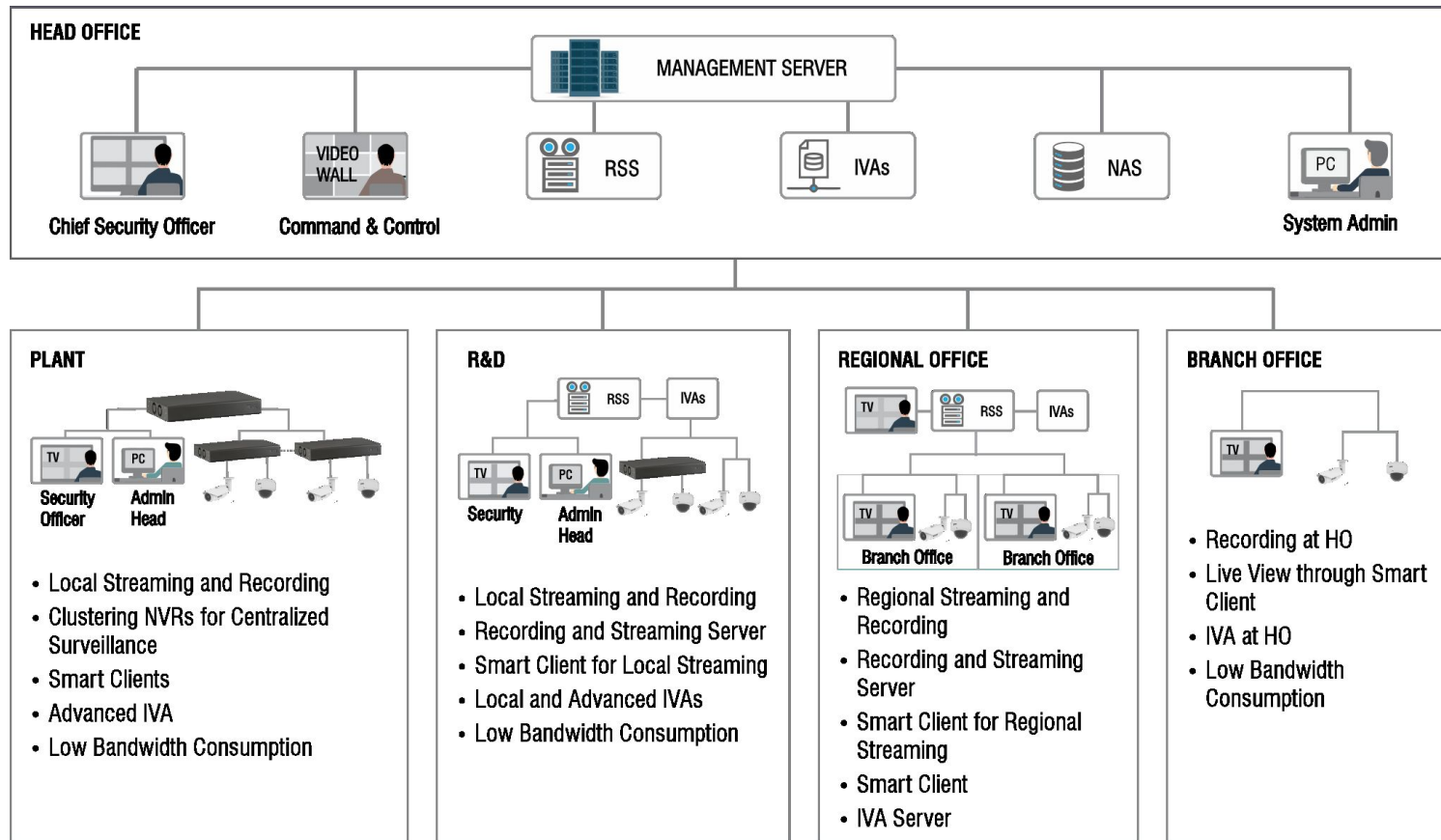
Network Cameras
Network Video Recorders

Enterprise Network Video Recorders
Video Management Software
Mobile Applications

SATATYA ARCHITECTURE



SATATYA DEPLOYMENT





SATATYA IP CAMERAS

SATATYA IP CAMERAS

**Ruggedized
Camera**
2MP/5MP



**PROJECT SERIES
BULLET**
2MP/5MP/8MP

TURRET SERIES
2MP/5MP



**PROJECT SERIES
DOME**
2MP/5MP/8MP

PTZ CAMERA
2MP
33x

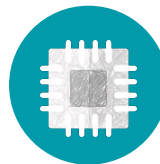
PTZ CAMERA
2MP 25x

**DISTRIBUTION
SERIES DOME**
2MP/5MP/8MP

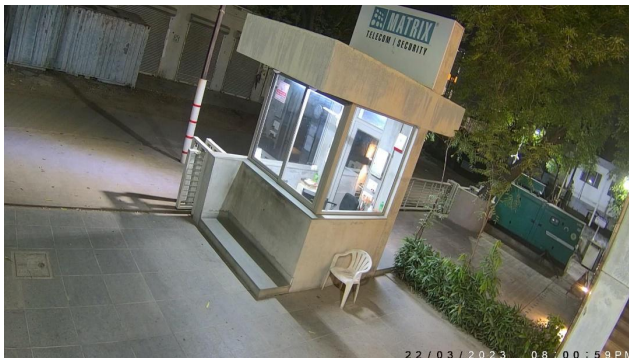
**DISTRIBUTION
SERIES BULLET**
2MP/5MP/8MP

Camera Key Features

Superior Image Quality in Day/Night



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

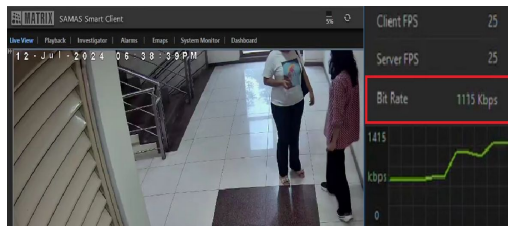
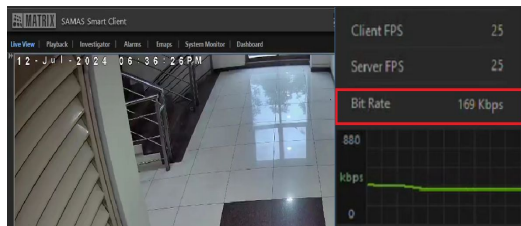


Clear Colored Imaging, even in Low Illumination Conditions (0.01 Lux)

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 Secure Cameras



First Indian Company to Manufacture
RDSO 6.0 Compliant Cameras



The Video in Transit Remains Secure
With Transport Layer Security (TLS)



SD Card Data Encryption to Secure
Data Stored



The system permits only signed
firmware; and includes
tamper-proofing, secure boot, and
more

KEY FEATURES



512 GB 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



2MP Camera – 25x, 33x Optical Zoom;



Auto Patrolling – Up to 500 Presets, 8 Auto Scan



Revolutionary Night Performance with IR Range of 200m



Privacy Masking of up to 24 regions from Camera View

Network PTZ Controller

with 4D Joystick



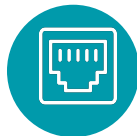
4D Joystick

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



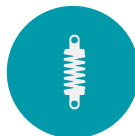
Supports ONVIF Protocol

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

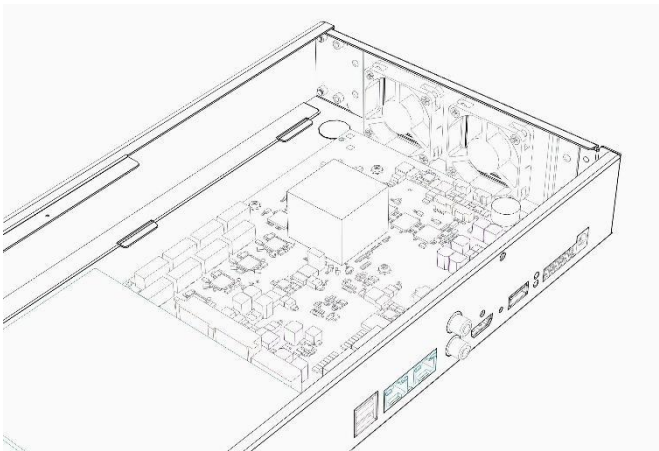
SATATYA NETWORK VIDEO RECORDERS



**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



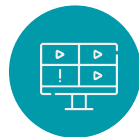
Links up to 20 NVRs Using a Master and Slave Configuration



Monitors 1000+ Cameras from a Central Location



Saves Software and Server Cost



Ideal Solution for SMEs, Railways, Airports, and many more

NVR KEY FEATURES



12MP
Camera
Recording
Capacity



4K Decoding
Capacity



Up to 1GBPS
Throughput*



Interoperability



Database- level
integration with
Matrix Access
Control

*Variant specific; refer datasheet

NVR KEY FEATURES



Alerts and
Notifications



0/1/5/10 RAID
Support*



Calling from
Mobile



Camera-wise
Recording
Retention



Adaptive
Recording

*Variant specific; refer datasheet

Matrix Network Video Recorders Extreme



NVR variants: 8/16/32/64/96 channels for diverse surveillance requirements



SATA ports: Support 10TB storage (8/16/32/64 ch); 144TB (96 ch)



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



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

NVRXS KEY FEATURES



Fan less and Ventless Design for Silent Operations



4/8/16 Channel Support, 1 SATA Port HDD Support (10TB)



360 Mbps Throughput Capacity



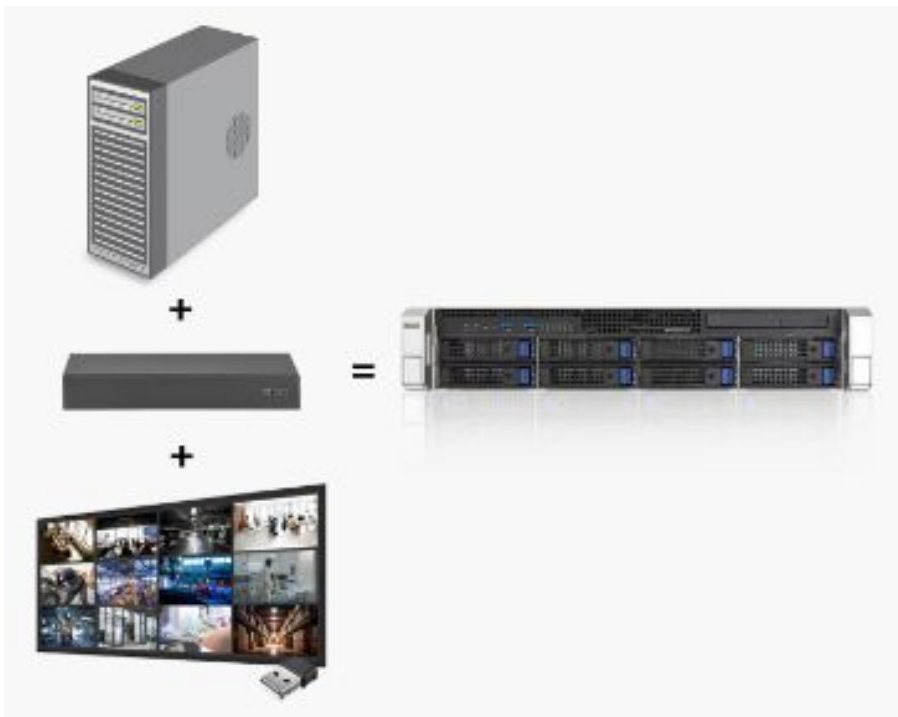
Single Disk RAID Support



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 0/1/5/10/50/60



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

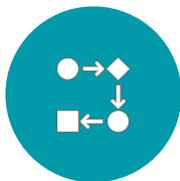
SAMAS SOLUTIONS – Cognitive Response Engine with Automated Monitoring (CREAM)



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

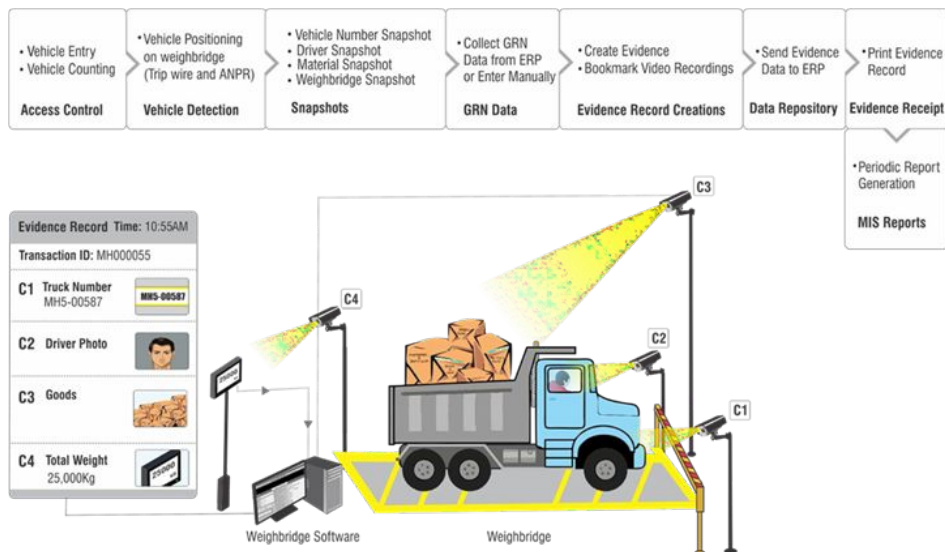


Improper Parking



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





CUSTOMER STORIES

SUCCESS STORIES: IDP EDUCATION LTD

Challenge:

- Real-time Images
- Validation of Candidates
- Image Capturing
- Centralized Monitoring

Solution Offered:

- Video Management System (SAMAS)
- PTZ Cameras

Benefits:

- Clear Visibility and
- Address Alerts Quickly
- Evidence Guarantee
- Ease of Management

Matrix Offering:

- SAMAS with 70 User License
- 66 Cameras

SUCCESS STORIES: LENSKART PVT LTD

Challenge:

- Centralized Monitoring and Control
- Storage for More No. of Days
- High Storage Costs

Solution Offered:

- IP Cameras
- Network Video Recorders (NVR)

Benefits:

- Prevention of Retail Crime: Shoplifting, Vandalism
- Enhanced Security and Compliance
- Centralized Control

Matrix Offering:

- IP Cameras: 200+
- Recording Devices: 50+

SUCCESS STORIES: JAMMU AND KASHMIR POLICE

Challenge:

- Need for Centralized Monitoring
- Local Recording of Footage
- Surveillance on the Go

Benefits:

- Centralized Access from Commissioner's Office
- Local Recording of Footage
- Access and Notifications on Mobile

Solution Offered:

- 5MP Cameras FL and MVL,
- 2MP PTZ Camera with 33x Optical Zoom
- NVR
- VMS

Matrix Offering:

- 8 Channel NVRs – 13 Nos
- 5MP Fixed Lens Cameras – 27 Nos
- 5MP MVL Cameras – 6 Nos
- 2MP PTZ Cameras with 33x Optical Zoom
- VMS

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
- Bhartiya 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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THANK YOU!



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