





Matrix SATATYA IP Video Surveillance

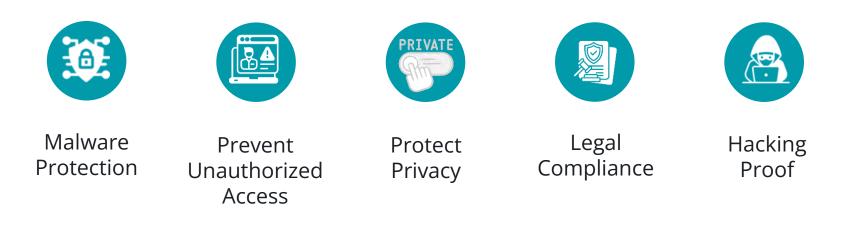


Video Management Software Network Video Recorders IP Cameras Mobile Applications

Importance of Video Surveillance



Why Data Security Matters?





SATATYA Key Features





Complete Product Portfolio

- IP Cameras Bullet, Dome, Turret, Ruggedized, and PTZ Cameras
- Network Video Recorders
- Video Management Software



Centralized Video Surveillance

- Clustering Feature allows User to Connect up to 20 NVRs and Access any Camera in the Loop
- VMS Allows Monitoring Multiple Locations Centrally



SATATYA Key Features



Scalability

- Expandable up to 65,535 Cameras
- 10,000 Users/ Recording Servers
- 1000 Concurrent Users



User-based Roles and Responsibilities

- Customized to the Organizational Hierarchy
- Defines Rights Based on User Profile
- Better Control over Viewing and Playback Rights



SATATYA Key Features





Intelligent Video Analytics

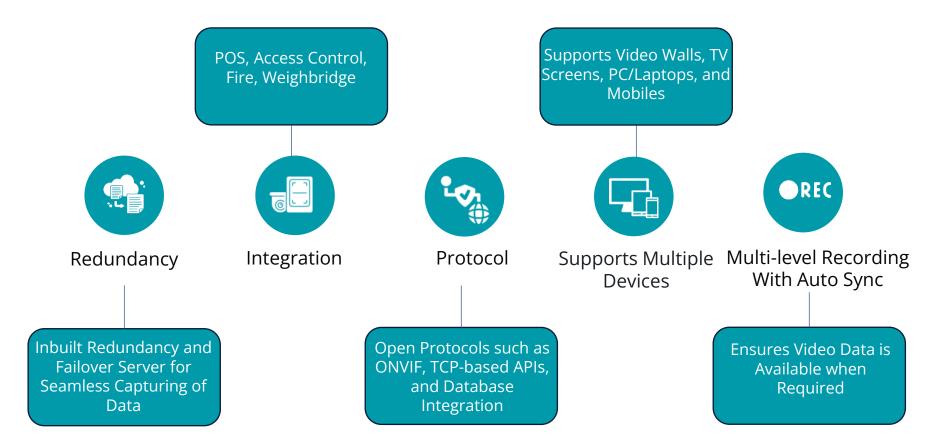
- Analytics on the Edge
- Second Layer of Analytics with NVRs
- RSS (Recording and Streaming Server) Works with Matrix IVA Server or Third-party IVA Servers



Storage and Bandwidth Optimization

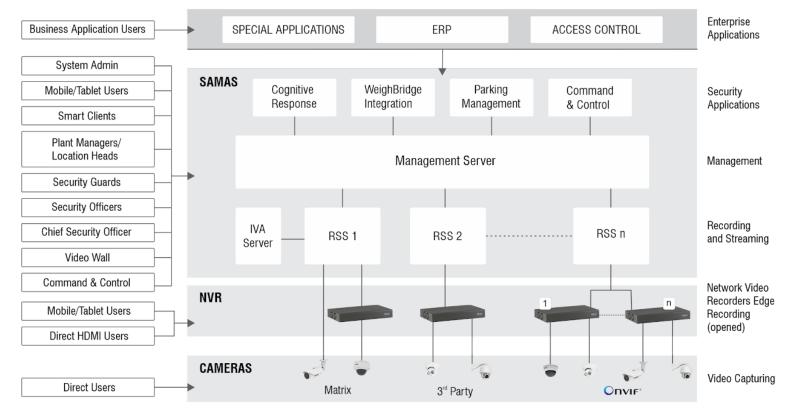
- Adaptive Streaming
- Smart Streaming
- H.265 Compression





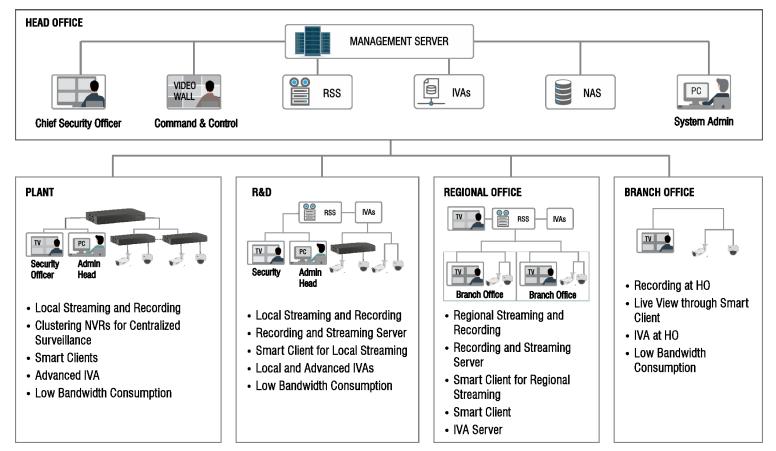


SATATYA ARCHITECTURE





SATATYA DEPLOYMENT





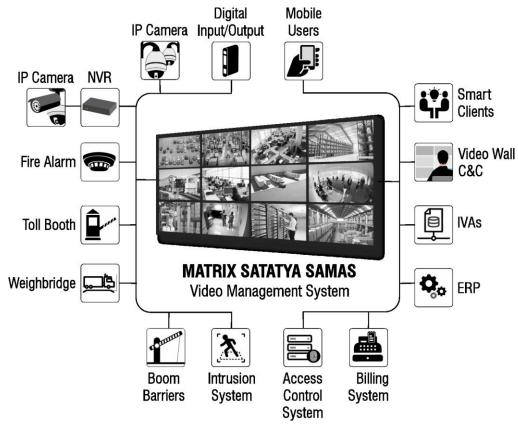


SATATYA SAMAS VIDEO MANAGEMENT SYSTEM





SATATYA SAMAS INTERFACE



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





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 255 RSS
- Can Connect up to 10,000 Locations
- Recording Servers
- Up to 1000 Concurrent Users





User-Based Roles and Rights

- Monitoring Multiple Locations Centrally
- Mapped to Organization Structure and Hierarchy

TELECOM | SECURITY

- 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





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





Optimize Bandwidth and Storage

• Configure Different Stream Profiles as per Usage

TELECOM | SECURITY

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



Enterprise Intelligent Video Analytics

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



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



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

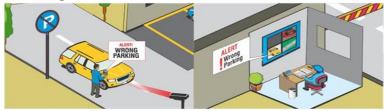
Entry or Exit of Vehicles



Unauthorized Parking



No Parking



Improper Parking

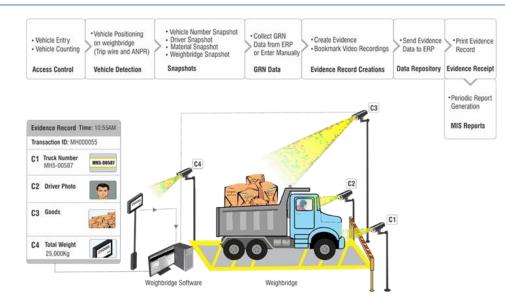




SAMAS SOLUTIONS

Weighbridge Integration

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





SAMAS SPECIFICATIONS

Built-in Cameras	5
Maximum Cameras	65,535
Built-in Users	1
Maximum Users	65,535
Maximum Locations	10,000



SATATYA NETWORK VIDEO RECORDER



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SATATYA NETWORK VIDEO RECORDERS



Enterprise Network Video Recorders



Extreme Series Network Video Recorders



Extreme Series Network Video Recorders

ENVR KEY FEATURES



Enterprise-Grade Server-based Turnkey Video Surveillance Solution



Highly Scalable and Flexible to Integrate with Various Open Platforms





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



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

ENVR KEY FEATURES



H.265 Video Compression Technology to Optimize Storage



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



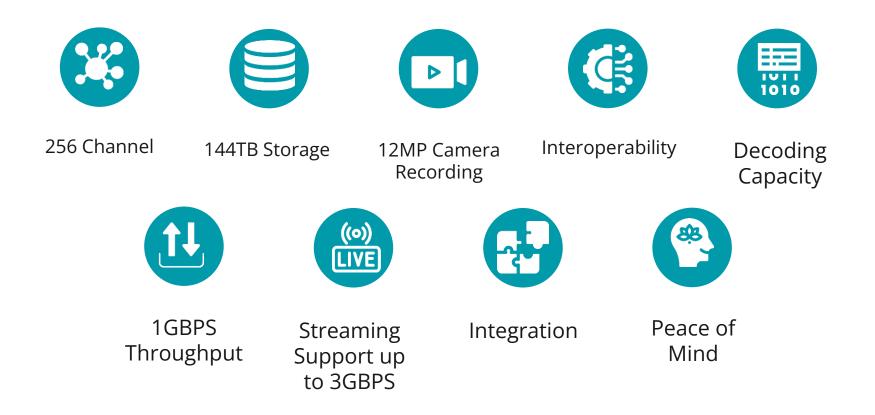


Hot Swappable Hard Disk Drives for Easy Maintenance with Zero Down Time



Data Secure Surveillance Compliant with OWASP

KEY FEATURES ENVR





CERTIFICATIONS AND COMPLIANCES





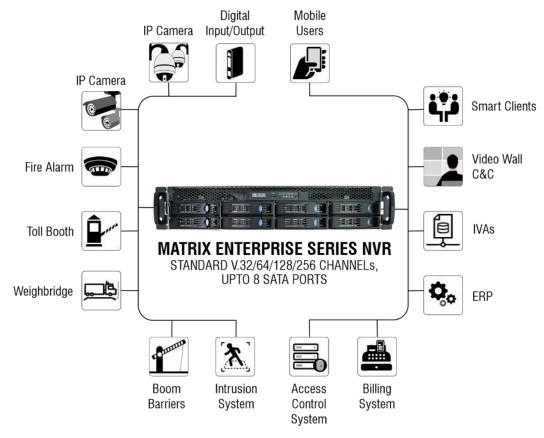








ENVR INTEGRATION



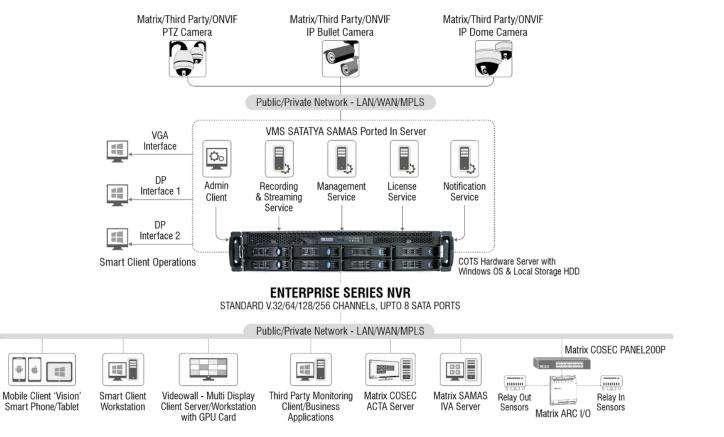


ENVR SELECTION GUIDE

VARIANTS		NVR3208XCTS	NVR6408XCTS	NVR12808XCTS	NVR25608XCTS	
	IP Channels	32	64	128	256	
Video	HDMI Main	-	-	-	-	
	Input	1	1	1	1	
Audio	Output	1	1	1	1	
	Input			-		
Alarm	Output	Connect via. COSEC PANEL200P + ARC I/O 800 Controller				
Storag	SATA Ports	8 (18TB each)	8 (18TB each)	8 (18TB each)	8 (18TB each)	
e	RAID Support	RAID 0,1,5,10	RAID 0,1,5,10	RAID 0,1,5,10	RAID 0,1,5,10	
Interfac	10/100/1000 Mbps Adaptive Interface	5 (4 - LED Indication, 1 - Server Management)				
es	USB Ports	5	5	5	5	
Throughput		512Mbps Uplink/ 512Mbps Downlink				



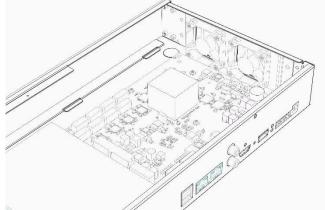
INTERFACE DIAGRAM



SATATYA NETWORK VIDEO RECORDERS







Matrix Network Video Recorders Extreme





Up to 64 Channel Support with a Storage Capacity of 80 TB (10TB per SATA port)





360 Mbps Throughput Capacity and 4K Decoding on HDMI 2.0



Camera-wise Recording Retention and H.265 Compression to Optimize Storage



RAID Support 0,1,5,10

NVR KEY FEATURES

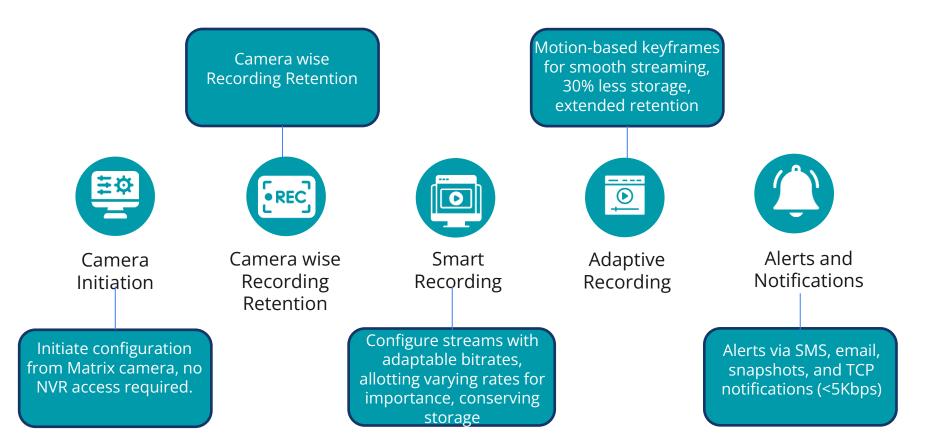




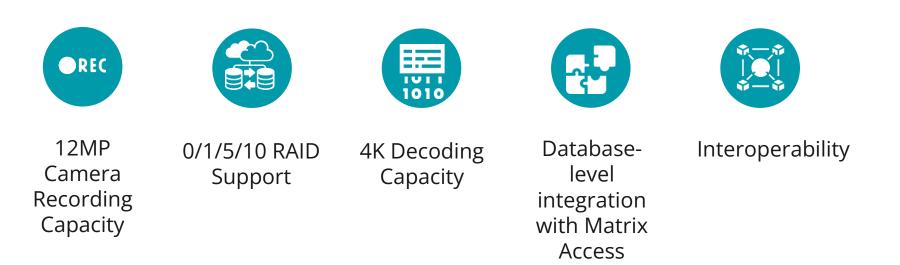
Clustering

- Links up to 20 NVRs Using a Master and Slave Configuration
- Monitors 1000+ Cameras from a Central Location
- View Real-time Footage of any Camera Attached to any NVR in the Loop
- Saves Software and Server Cost
- Ideal Solution for SMEs, Railways, Airports, and many more

NVR KEY FEATURES



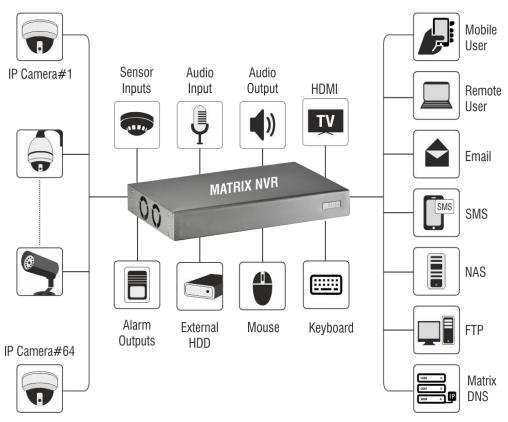
NVR KEY FEATURES



Control



NVRX INTERFACE DIAGRAM





NVRX SELECTION GUIDE

		NVR0801X	NVR1601X	NVR1602X	NVR3202X	NVR3204X	NVR6404X	NVR6408X
Video	IP Channels	8	16	16	32	32	64	64
	HDMI Main	1	1	1	1	1	1	1
Audio	Input	1	1	1	1	1	1	1
	Output	1	1	1	1	1	1	1
Alarm	Input	2	2	2	2	2	2	2
	Output	1	1	1	1	1	1	1
Storage	SATA Ports	1 (10TB each)	1 (10TB each)	2 (10TB each)	2 (10TB each)	4 (10TB each)	4 (10B each)	8 (10TB each)
	RAID Support	Single Disk	Single Disk	RAID-0, RAID-1	RAID-0, RAID-1	RAID-0,1,5,10	RAID-0,1,5,10	RAID-0,1,5,10
Interfaces	10/100/1000 Mbps Adaptive Interface	1	1	2	2	2	2	2
	USB Ports	3	3	3	3	3	3	3
Throughput	360 MBPS							



NVRXS KEY FEATURES



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





360 Mbps Throughput Capacity





Single Disk RAID Support



Compact NVRs for Retail Outlets and Small Offices



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SATATYA IP CAMERAS

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SATATYA IP CAMERAS





SUPERIOR IMAGE QUALITY LOW LIGHT PERFORMANCE





SONY STARVIS Series Sensor



High Quality Images in 0.01 Lux



SUPERIOR IMAGE QUALITY VARYING LIGHT CONDITIONS





120dB WDR for Proper Reproduction of Bright and Dark Areas



Smartly Varies Exposure Time to Rectify Overexposed and Underexposed Areas



OPTIMIZED BANDWIDTH AND STORAGE ADAPTIVE STREAMING





Reduces Frame Rate During No Activity Period



Saves up to 50% on Storage and Bandwidth

CAMERA KEY FEATURES





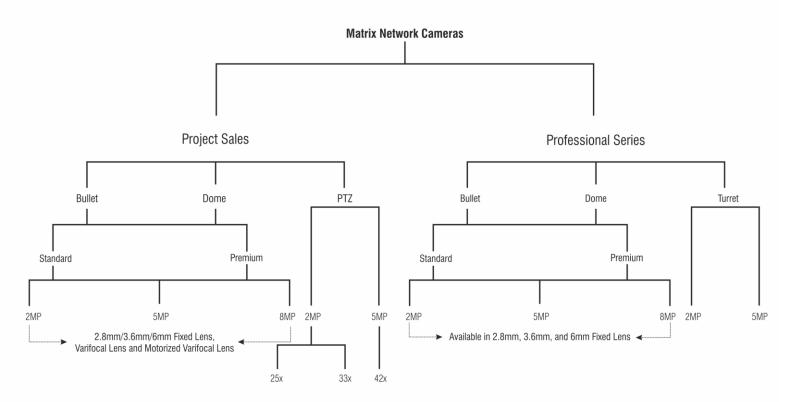
Preventive Surveillance and Timely Detection of Motion, Intrusion, Tripwire, Loitering, and Missing Object

512GB Edge Recording in Case of Brownouts



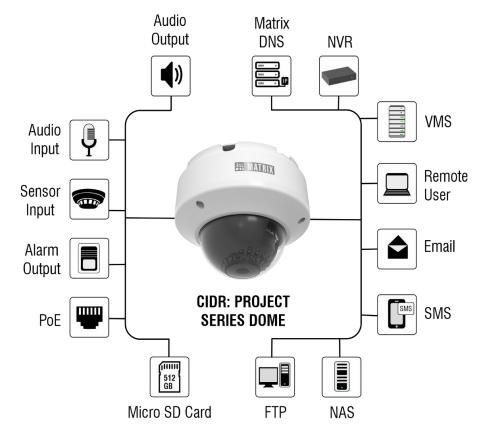
Wide Range : Dome, Bullet, Turret, and PTZ Cameras

MATRIX NETWORK CAMERAS





NETWORK CAMERA CONNECTIVITY DIAGRAM



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



Unique Chambered Design Cuts IR Glare

PTZ SERIES IP CAMERAS





2MP Camera – 25x, 33x Optical Zoom; 5MP Camera – 42x Optical Zoom





Auto Patrolling – Up to 500 Presets, 8 Auto Scan



Revolutionary Night Performance with IR Range of 300m



Privacy Masking of up to 24 regions from Camera View

RUGGEDIZED



Available in 2MP and 5MP Variants





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



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



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







SUPERIOR QUALITY IMAGES In Motion - Ideal for Transport







COMPREHENSIVE DESIGN SPACE CONSTRAINED APPLICATIONS







Suitable for Extreme Conditions





Weather Resistant







Vandal Proof



Tamper Proof



Ruggedized IP Cameras













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

Solution Offered:

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

Benefits:

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

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
- Bhartiyar City
- Branded Residences Project
- RRVP Banglore
- 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

- Thika Greens Golf Resort Kenya
- Hotel EPIC Rawanda
- TATA Memorial Centre Advanced Centre for Treatment, Research, and Education

IT/ITES, Retail

- BioSense Institute Serbia
- AL Adrek
- DGI Care Info
- L&T Metro
- Chikkaballapur Medical College

Who We Are

1 Million +5000 +60 +40 +30 +CustomersPartnersProductsCountriesAwards







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