



Matrix SATATYA IP Video Surveillance



Video Management Software
Network Video Recorders

IP Cameras
Mobile Applications

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

Why Data Security Matters?



Malware
Protection



Prevent
Unauthorized
Access



Protect
Privacy



Legal
Compliance



Hacking
Proof

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

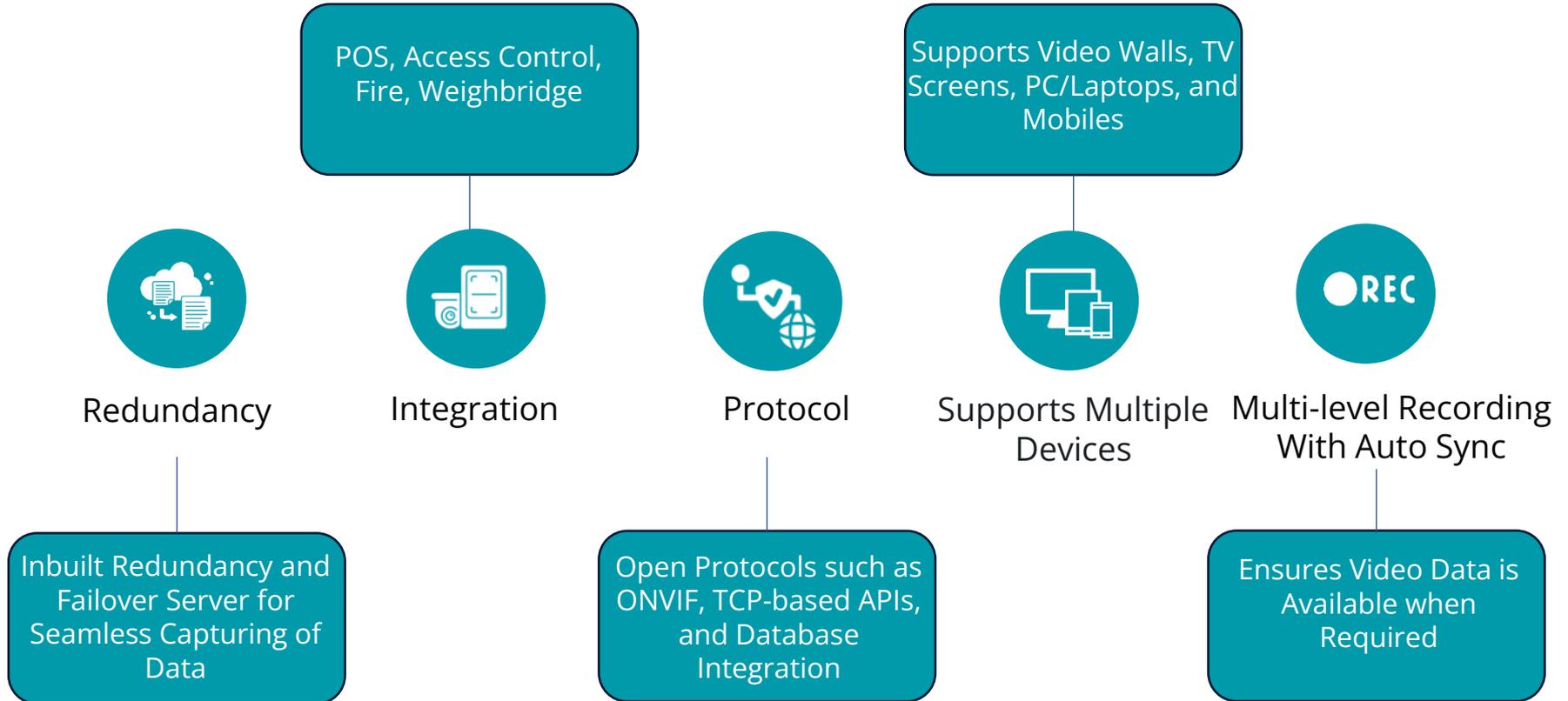


Storage and Bandwidth Optimization

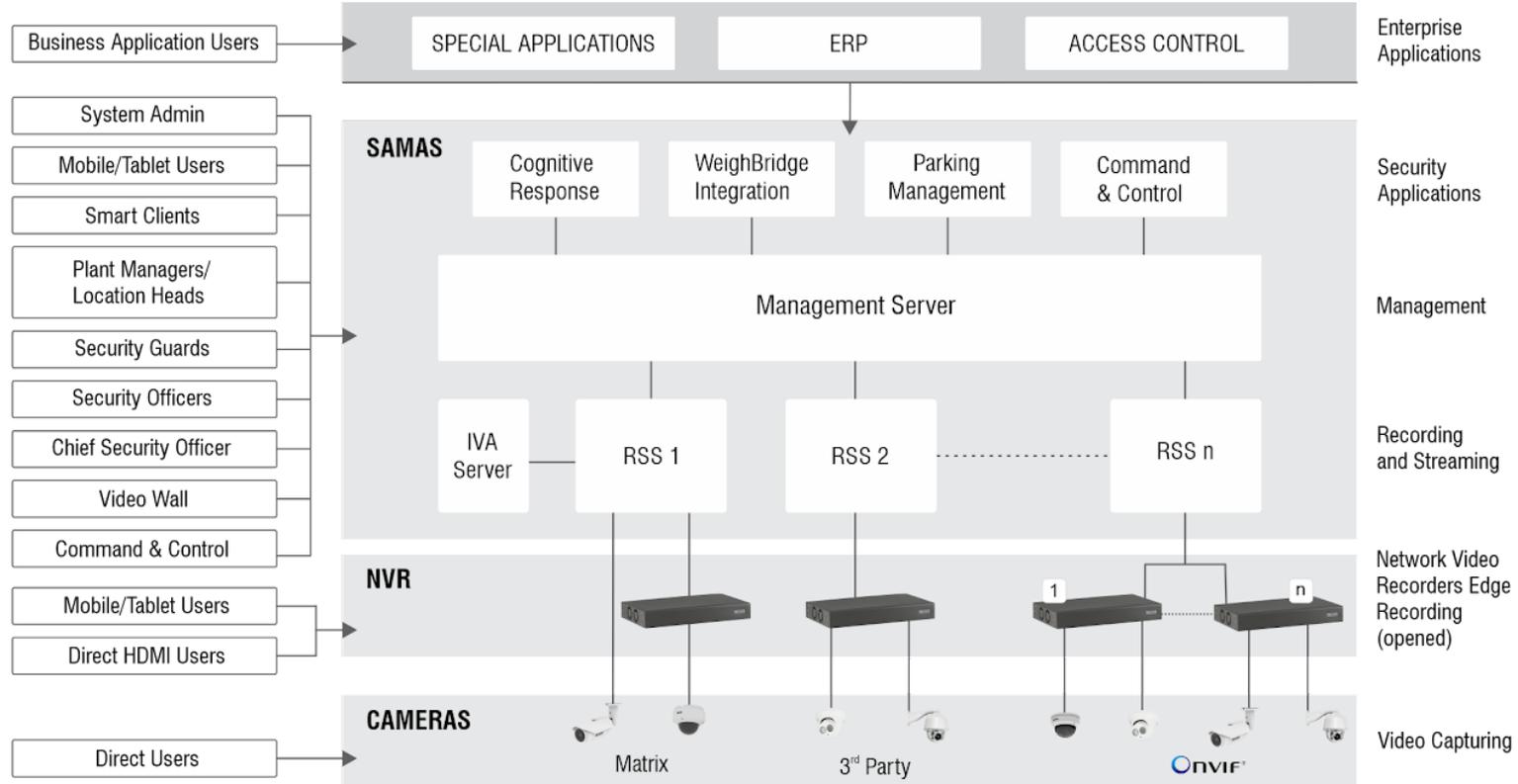
- Adaptive Streaming
- Smart Streaming
- H.265 Compression



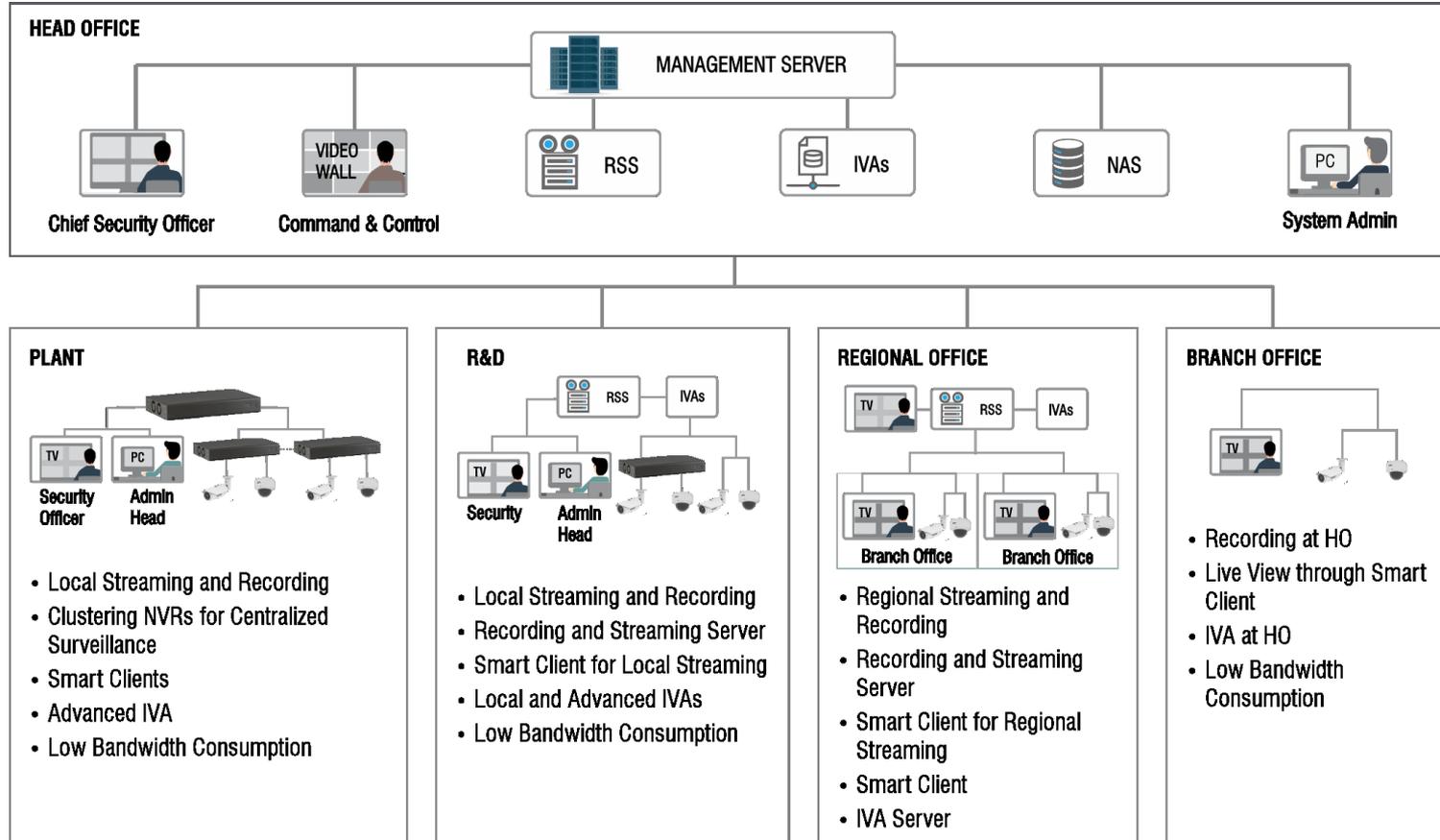
SATATYA KEY FEATURES



SATATYA ARCHITECTURE



SATATYA DEPLOYMENT



SATATYA BUILDING BLOCKS



SATATYA SAMAS Video
Management System



Network Video Recorders
– NVRXS, NVRX, NVRXCTS



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

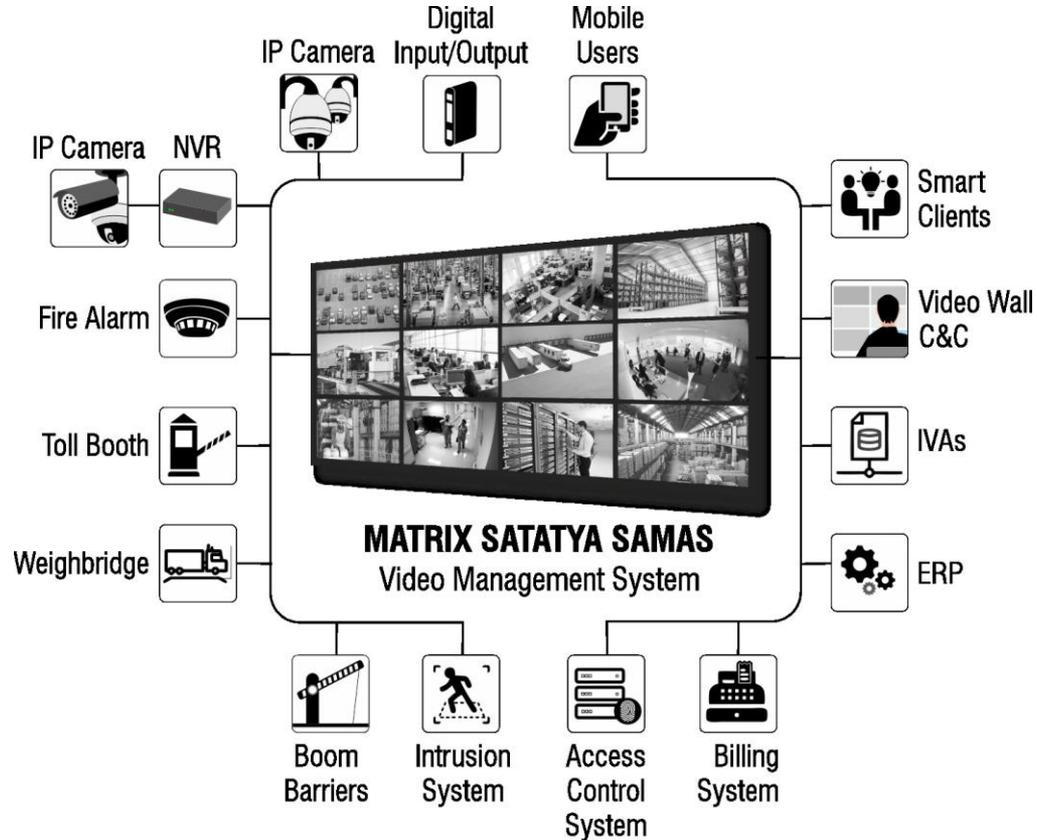


SATATYA Sight / Vision

The background of the slide is a photograph of a person with short dark hair, wearing a white shirt and glasses, seen from behind. They are standing in a control room, looking at several large computer monitors. Each monitor displays a grid of multiple video camera feeds, showing various industrial or outdoor scenes. The overall color palette is dominated by blue and white tones, with a semi-transparent white overlay in the center where the text is placed.

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



SATATYA

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



SATATYA

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



SATATYA

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

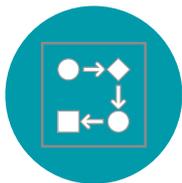
Cognitive Response Engine with Automated Monitoring (CREAM)



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

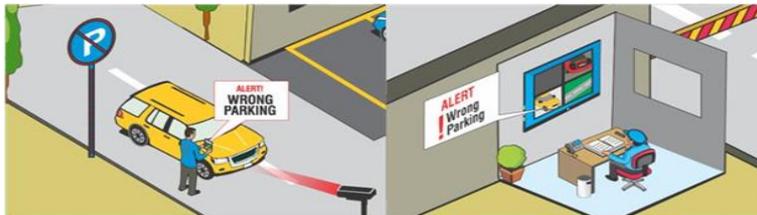
Entry or Exit of Vehicles



Unauthorized Parking



No Parking



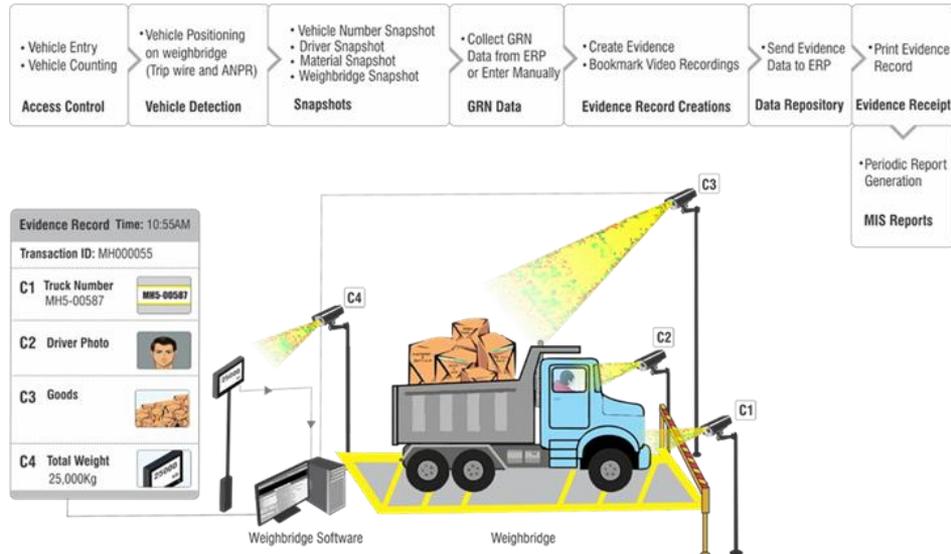
Improper Parking



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

SATATYA NETWORK VIDEO RECORDERS



**Enterprise
Network Video Recorders**
32/64/128/256 Channel Variants



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



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

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



256 Channel



144TB Storage



12MP Camera
Recording



Interoperability



Decoding
Capacity



1GBPS
Throughput



Streaming
Support up
to 3GBPS



Integration

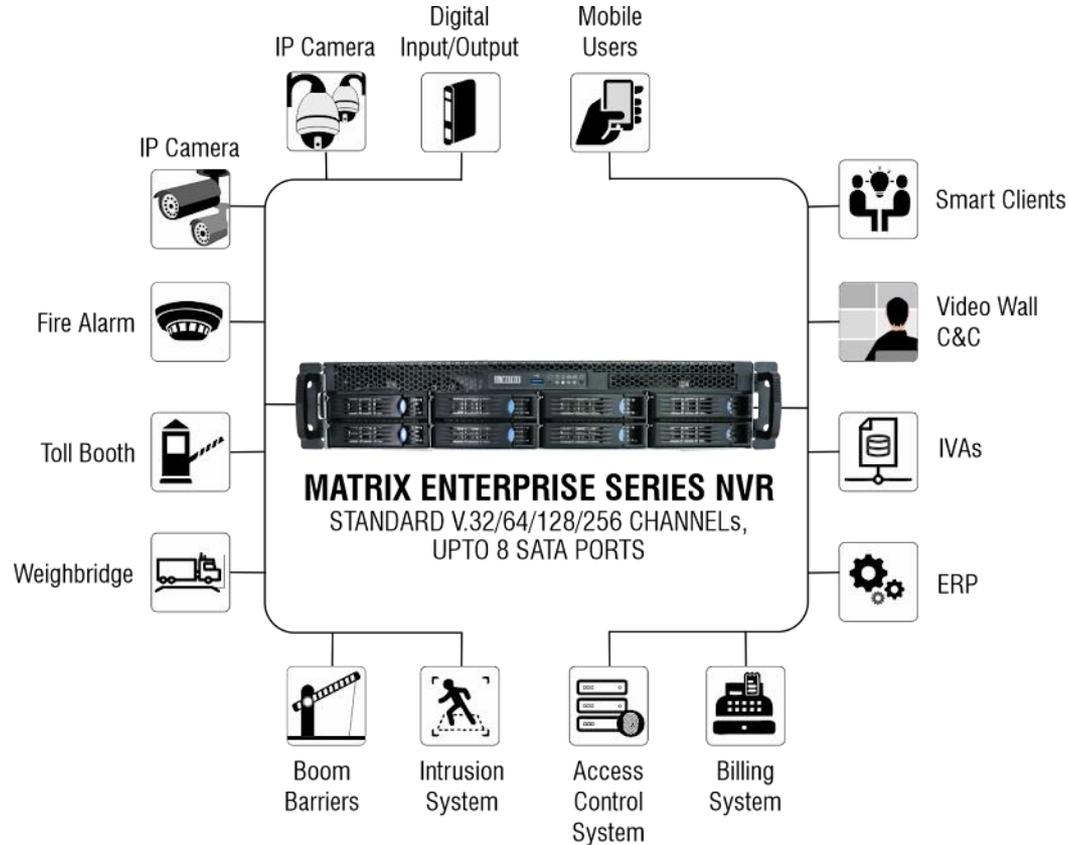


Peace of
Mind

CERTIFICATIONS AND COMPLIANCES



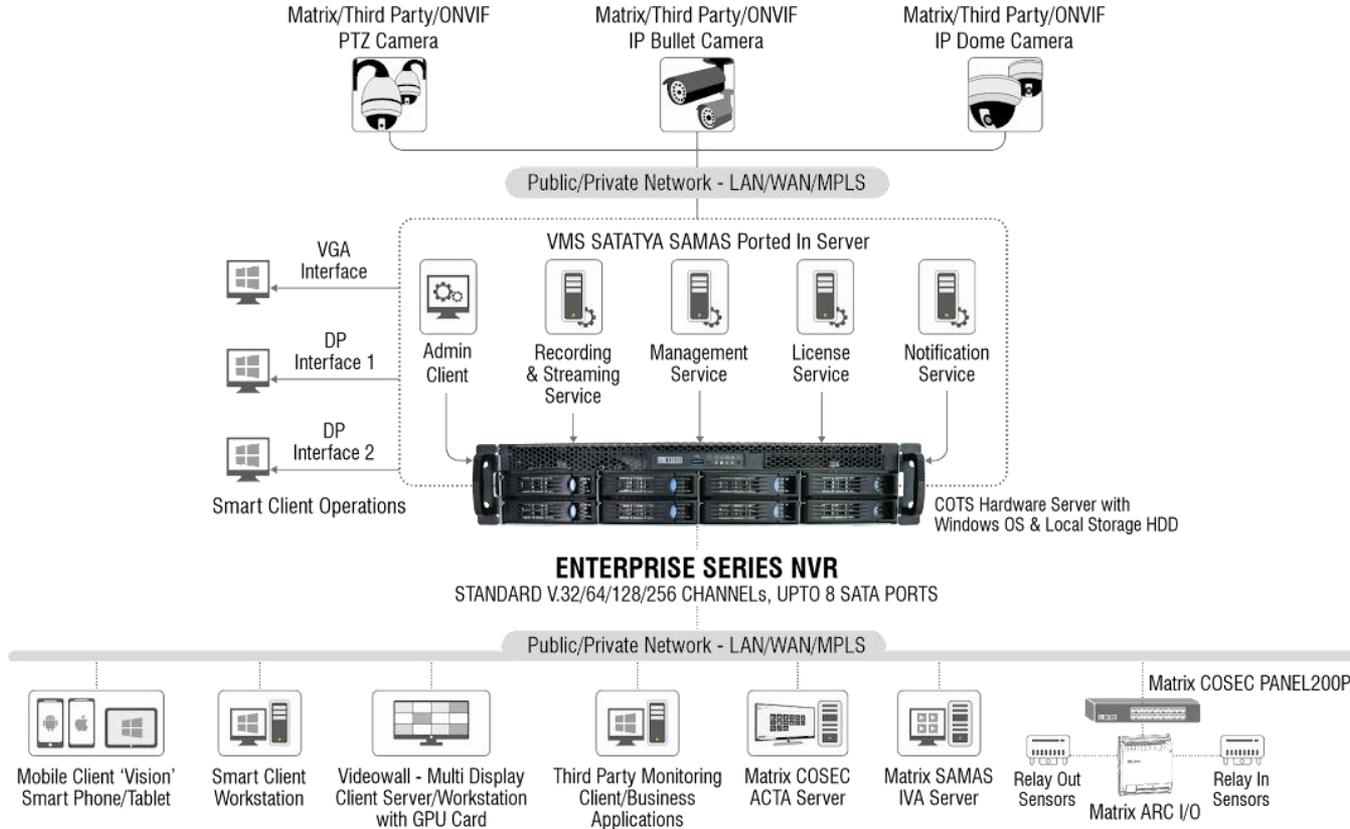
ENVR INTEGRATION



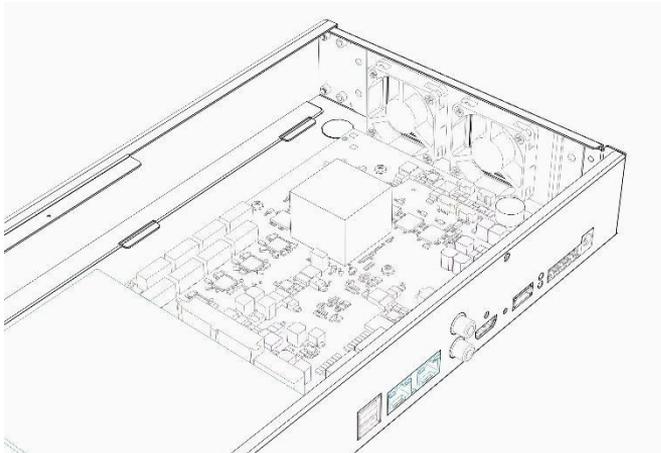
ENVR SELECTION GUIDE

VARIANTS		NVR03208XCTS	NVR06408XCTS	NVR12808XCTS	NVR25608XCTS
Video	IP Channels	32	64	128	256
	HDMI Main	-	-	-	-
Audio	Input	1	1	1	1
	Output	1	1	1	1
Alarm	Input	Connect via. COSEC PANEL200P + ARC I/O 800 Controller			
	Output				
Storage	SATA Ports	8 (18TB each)	8 (18TB each)	8 (18TB each)	8 (18TB each)
	RAID Support	RAID 0,1,5,10	RAID 0,1,5,10	RAID 0,1,5,10	RAID 0,1,5,10
Interfaces	10/100/1000 Mbps Adaptive Interface	5 (4 - LED Indication, 1 - Server Management)			
	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

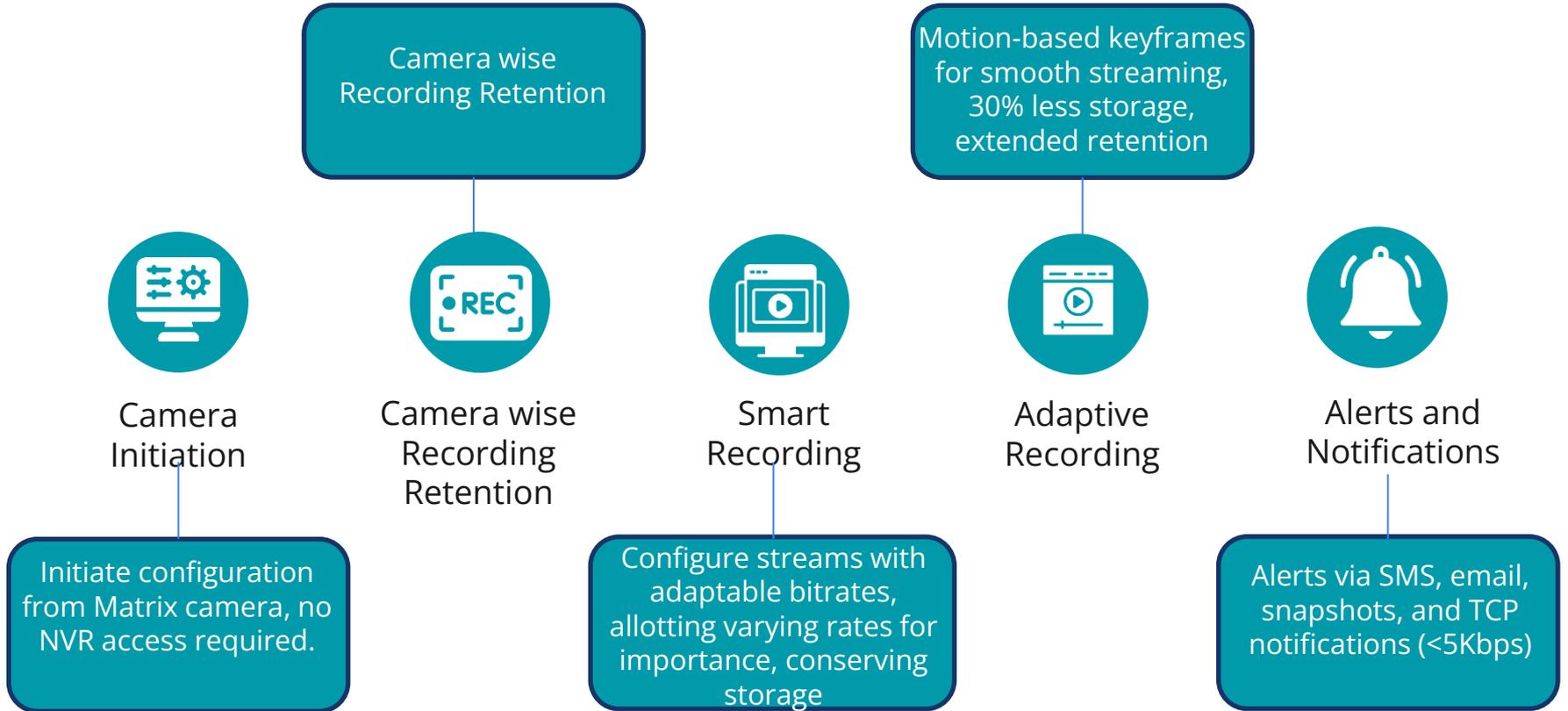
NVR KEY FEATURES



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



12MP
Camera
Recording
Capacity



0/1/5/10 RAID
Support



4K Decoding
Capacity

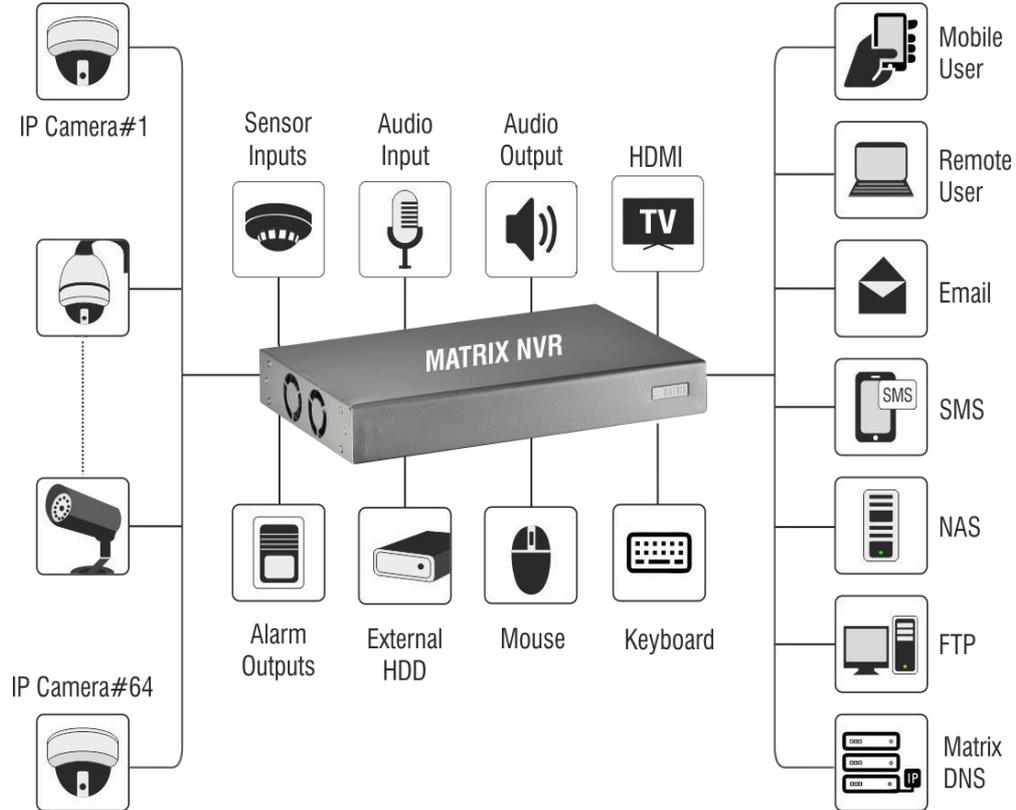


Database-
level
integration
with Matrix
Access
Control



Interoperability

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), Fan less and
Ventless Design for Silent Operations



360 Mbps Throughput Capacity



Single Disk RAID Support



Compact NVRs for Retail Outlets and
Small Offices

NVRXS SELECTION GUIDE

		NVR0401XS P2	NVR0801XS P2	NVR1601XS P2
Video & Audio	IP Channels	4	4	4
	Video Compression	H.265/H.264/ Motion JPEG		
	Audio Compression	G.711 μ		
	Video Output	10/100/1000Mbps RJ 45 connector with LED indication		
Storage	SATA Port	1 (10TB)	1 (10TB)	1 (10TB)
Interfaces	Network	10/100/1000Mbps RJ 45 connector with LED indication		
Power Supply		External 12VDC, 2A		
Throughput	Uplink	Up to 180		
	Downlink	Up to 213		



SATATYA IP CAMERAS

SATATYA IP CAMERAS



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

TURRET SERIES
2MP/5MP



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

PTZ CAMERA
5MP
42x

PTZ CAMERA
2MP
33x

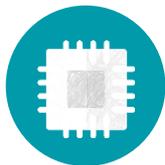
PTZ CAMERA
2MP 25x

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

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

**Ruggedized
Camera**
2MP/5MP

SUPERIOR IMAGE QUALITY LOW LIGHT PERFORMANCE



SONY STARVIS Series Sensor



High Quality Images in 0.01 Lux

SUPERIOR IMAGE QUALITY VARYING LIGHT CONDITIONS



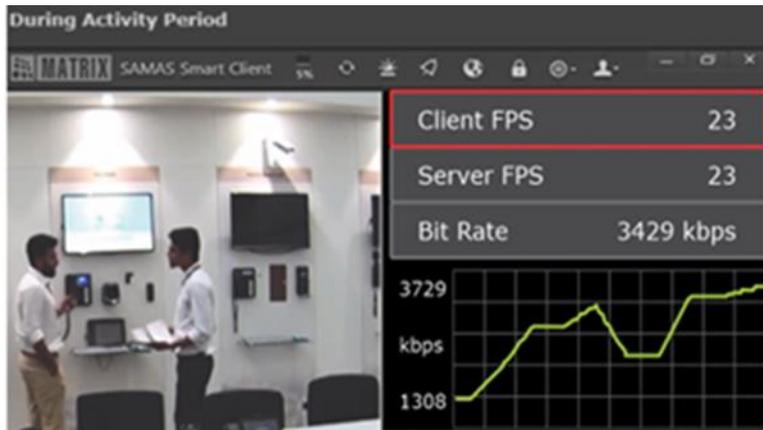
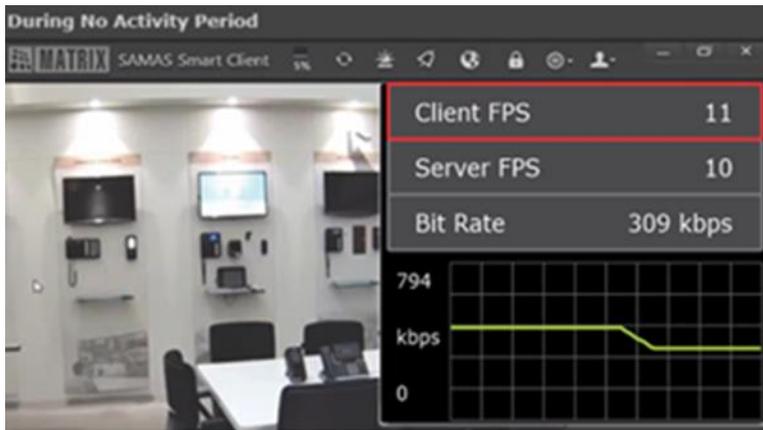
120dB WDR for Proper
Reproduction of Bright and
Dark Areas



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

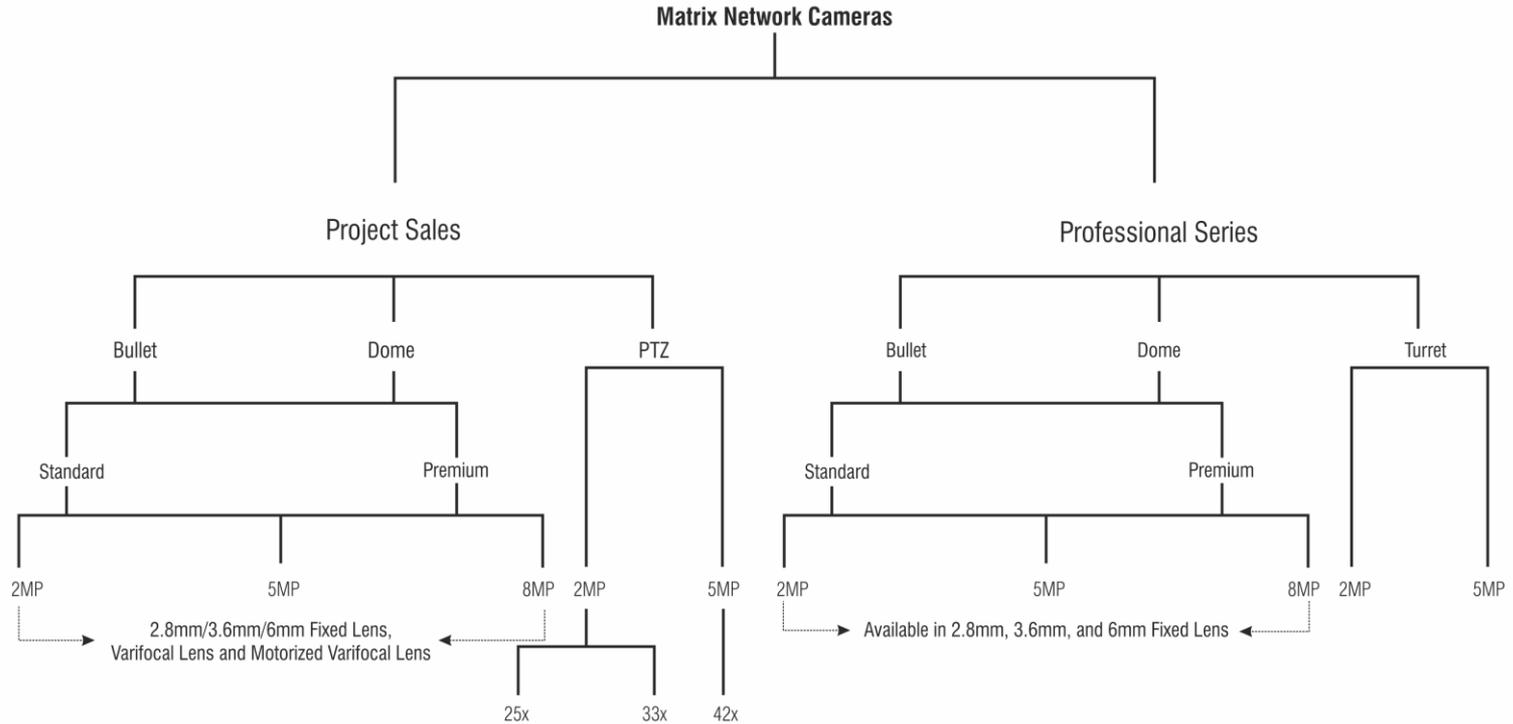


512GB Edge
Recording in
Case of
Brownouts

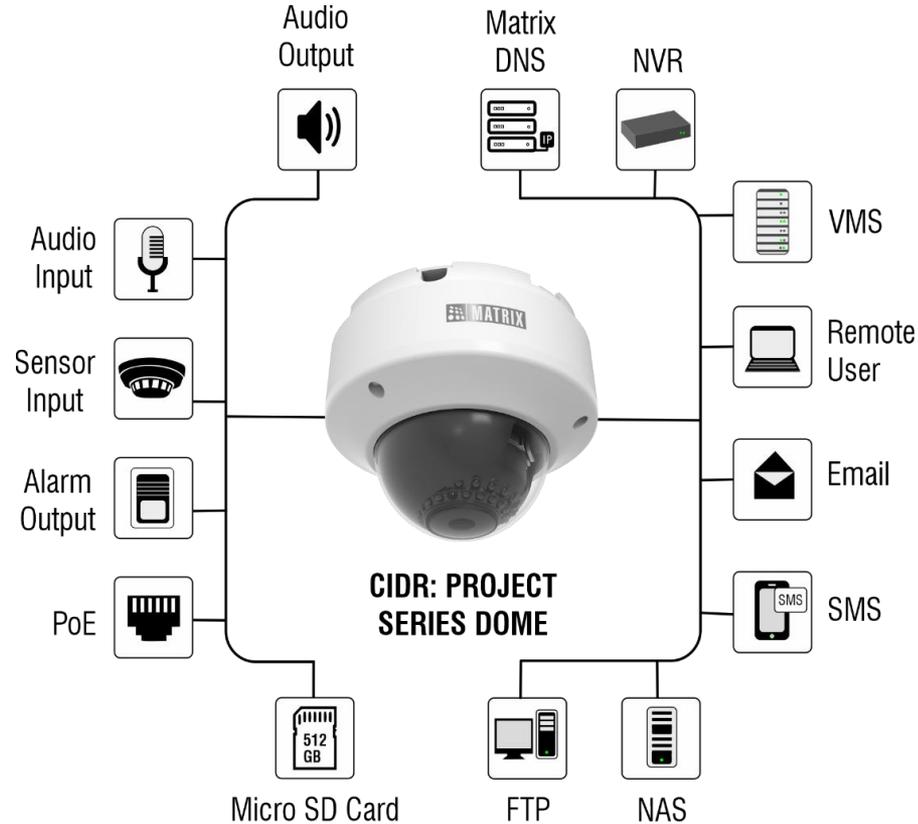


Wide Range :
Dome, Bullet,
Turret, and
PTZ Cameras

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 IP CAMERAS



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



CONVENTIONAL CAMERAS



COMPREHENSIVE DESIGN SPACE CONSTRAINED APPLICATIONS





Suitable for
Extreme
Conditions



Weather Resistant



Vandal Proof



Tamper Proof

RUGGEDIZED IP CAMERA





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 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

- 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

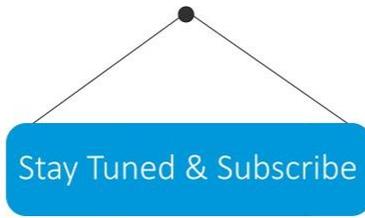
1 Million+
Customers

5000+
Partners

60+
Products

40+
Countries

30+
Awards



@Matrix Comsec



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THANK YOU!



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