CENTRALIZED VIDEO SURVEILLANCE
Why Video Surveillance?
Why Video Surveillance?: Safety of People

Safety at Workplace
Safety during Night Hours and Holidays
Industrial Safety at Plants, Project Sites, Mines, etc.
Safety during Commuting
Why Video Surveillance?: Security of Assets

- Infrastructure Security – Premises and Equipment
- Material Security - Pilferage and Thefts
- Data Security - Server Rooms or Data Centers
- IPR Security - Designs, Processes, Formula
Why Video Surveillance?: Productivity

Productivity at Shop Floor
Productivity at Office Premise
Productivity between Departments
Productivity by Improving Processes
Why Video Surveillance?: Compliance

Internal Process Compliance

External Audit Compliance

Compliance for Digital Evidence

Compliance for Customer Requirements
## Traditional v/s Matrix Video Surveillance

<table>
<thead>
<tr>
<th>Traditional Video Surveillance</th>
<th>Matrix Centralized Video Surveillance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware-based</td>
<td>Software-centric</td>
</tr>
<tr>
<td>Standalone</td>
<td>Centralized</td>
</tr>
<tr>
<td>Scattered</td>
<td>Integrated</td>
</tr>
<tr>
<td>Unintelligent</td>
<td>Intelligent</td>
</tr>
<tr>
<td>Rigid</td>
<td>Flexible</td>
</tr>
<tr>
<td>Closed</td>
<td>Open</td>
</tr>
<tr>
<td>Limited</td>
<td>Versatile (Innovative Functions)</td>
</tr>
<tr>
<td>Reactive</td>
<td>Proactive</td>
</tr>
<tr>
<td>Outdated</td>
<td>Futuristic</td>
</tr>
</tbody>
</table>
SATATYA Differentiators - Architecture

• Centralized
  • Top-Down, Central Planning, Designing, Implementation and Operation

• Scalable
  • 100,000 Cameras
  • 10,000 Locations
  • Unlimited Users

• Modular
  • Fits any Organization Hierarchy and Structure

• Software-centric
  • Intelligence, Flexibility, Automation, Efficiency and Scalability

• Complete Portfolio
  • Applications, VMS, NVR and IPC
SATATYA Differentiators - Performance

- Technology
  - EXMOR, H.265, 4K and RAID
- Redundancy
  - Safe Failover at all Levels
- Robust
  - Validated on “Test to Fail” Philosophy
- Simple
  - Easy to Use and Manage without Technical Experts
SATATYA Differentiators - Functions

• Intelligent Video Analytics
  • Automation and Preventive Security

• Cognitive Response Engine
  • Automate Surveillance Scenarios

• Innovative Functions
  • Surveillance Beyond Basic “Capture-View-Store-Play”

• Integration
  • Access Control, POS, BMS, Fire, Weighbridge and ERP

• Open System
  • ONVIF, APIs and Database Integration
SATATYA Functions

- Video Capturing
- Video Live View
- Video Recording
- Video Streaming
- Playback and Investigation

- Notifications and Alarms
- Storage, Backup, Archival, Retrieval
- Command and Control
- Multi Locations and Centralizations
- Intelligent Video Analytics
SATATYA Architecture
SATATYA Deployment

**HEAD OFFICE**
- Chief Security Officer
- Command & Control
- System Admin

**MANAGEMENT SERVER**
- RSS
- IVAs
- NAS

**PLANT**
- Security Officer
- Admin Head
  - Local Recording
  - Local View
  - Multiple NVRs Cascaded
  - Smart Client
  - Web Client
  - Advanced IVAs at HO
  - Low Bandwidth

**R&D**
- Security
- Admin Head
  - Local Recording
  - Local View
  - Recording and Streaming Server
  - Smart Client for Local View
  - Local and Advanced IVAs
  - Low Bandwidth

**REGIONAL OFFICE**
- Regional Recording at RO
- Regional View at RO
- Recording and Streaming at RO
- Smart Client at RO
- IVAs Server at RO

**BRANCH OFFICE**
- Recording at HO
- Live View through Smart Client
- IVAs at HO
- High Bandwidth
SATATYA Building Blocks

SATATYA SAMAS: Video Management Software
SATATYA PARAM: Network Video Recorder
SATATYA NETRA: IP Camera
Desktop and Web Mobile Applications Clients
SATATYA SAMAS: Video Management System
SATATYA SAMAS Interfaces
SATATYA SAMAS Server Building Blocks

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

Recording and Streaming Server (RSS)
- Fetch Video Streams from Cameras and NVRs
- Recording
- Streaming to Users for Live Viewing
- IVA Integration
SATATYA SAMAS Client Building Blocks

System Admin Client
- Users Management
- Devices Management
- Storage and Backup
- System Alerts and Maintenance

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

Mobile Client
- Mobile Application
- Live View
- Playback

Media Client
- Transient Users w/o Log-in Rights
- Video Access
SAMAS Differentiators: Centralized Control

• Distributed Architecture
  • Multi Location Deployment to Match Organization Structure

• Multi-Monitors and Video Wall
  • Central, Regional and Local Monitoring

• User Roles and Rights
  • User-wise Roles and Rights for Privacy and Security

• Integration
  • Access Control, POS, BMS, Fire, Weighbridge and ERP

• Evidence Lock
  • Restrict Deletion or Overwriting of Important Evidence
SAMAS Differentiators: High Availability

- Server Redundancy
  - Multiple RSS for Uninterrupted Monitoring and Data Loss
- Network Redundancy
  - Multiple ISP for Uninterrupted Connectivity
- Health Status
  - Status of Servers, NVRs, Cameras, Storage and Sensors
- Retrieve Edge Data
  - Retrieve Recording from Edge Devices on Network Brownout
SAMAS Differentiators: Easy Search and Review

- Global Search
  - Automatic Fetch Footages from All Global Sources
- Power Investigator
  - Search Recorded Video by Analytics
- Day Highlight
  - Summary File for Quick Overview
- Time Lapse
  - Quick Overview by Reducing Frames
SAMAS Differentiators: Bandwidth Optimisation

• Camera-wise Recording and Backups
  • Separate Retention Days for Every Camera

• Multiple Stream Policies
  • Different Profiles for Recording, Local and Mobile Views

• Adaptive Edge Streaming
  • Adjust FPS based on Events
SAMAS Differentiators: Prompt Notifications

• Notifications  
  • Video Pop-up, Email with Snap, Audio Alarm and SMS

• Manual and Auto Clip Export  
  • Event based Clip Export in Popular Formats

• User Defined and Triggered Events  
  • Send Clips, Operate Devices, Generate Alarms on Predefined Events
SAMAS Differentiators: Future Ready

• Scalable
  • 65,535 Cameras, 10,000 Locations and 1,000 Users

• Cloud Ready
  • Host on Public or Private Cloud

• Third Party Camera Support
  • ONVIF and Popular Brand Camera Support

• Device Initiation
  • Connect Matrix NVR and IP Cameras without Static or Dynamic Public IP
SAMAS Solution: CREAM

• Cognitive Response Engine with Automated Monitoring
• Replace Manual Surveillance with Automated Surveillance
• Multiple Scenarios, Inputs and Triggers
• Real-time Response
• Integration with External Systems
• Audit Trail for Analysis and Correlation
• Live Display and Tracking of Events and Responses
CREAM: Scenario Example
SAMAS Solution: Vehicle Management

- Vehicle Tracking and Parking Management
- Automate Large, Medium or Small Parking Areas
- Number Plate Recognition
- Notify Unauthorized or Improper Parking
- Track Occupied and Empty Slots
- Vehicle Counting
- Wrong Way Detection
VTPM: Application

Entry or Exit of Vehicles

Unauthorized Parking

No Parking

Improper Parking
SAMAS Solution: Weighbridge Integration

- Vehicle Entry
- Vehicle Counting
  - Access Control
  - Vehicle Detection

- Vehicle Positioning on weighbridge (Trip wire and ANPR)

- Vehicle Number Snapshot
  - Driver Snapshot
  - Material Snapshot
  - Weighbridge Snapshot
  - Snapshots

- Collect GRN Data from ERP or Enter Manually
  - GRN Data

- Create Evidence
  - Bookmark Video Recordings

- Send Evidence Data to ERP
  - Data Repository
  - Evidence Record Creations
  - Evidence Receipt

- Print Evidence Record

- Periodic Report Generation
  - MIS Reports

Evidence Record
- Time: 10:55AM
- Transaction ID: MH000055

C1 Truck Number
- MHS-00587

C2 Driver Photo

C3 Goods

C4 Total Weight
- 25,000Kg
SAMAS Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-in Cameras</td>
<td>5</td>
</tr>
<tr>
<td>Maximum Cameras</td>
<td>65,535</td>
</tr>
<tr>
<td>Built-in Users</td>
<td>1</td>
</tr>
<tr>
<td>Maximum Users</td>
<td>1,000</td>
</tr>
<tr>
<td>Maximum Recording and Streaming Servers or Devices</td>
<td>1,000</td>
</tr>
</tbody>
</table>
SATATYA PARAM: Network Video Recorder
NVR Differentiators: Cascading

- Link up to 20 NVRs
- View Cameras from any NVR
- No Server Required
NVR Differentiators: Performance

• 12MP Camera Recording
  • Ultra Resolution Stream for Recording

• 4K Decoding
  • 4K Resolution for Live View and Playback

• Higher Throughput
  • 512Mbps from High Resolution Cameras

• RAID 5, RAID 10 Support
  • Redundancy in Storage
NVR Differentiators: Storage

- High Storage
  - Up to 80TB on a Single NVR
- Higher Compression
  - H.265, H.264 and MJPEG
- Adaptive Recording
  - Reduce 30% Storage on No Activity with Lower Frame Rate
NVR Differentiators: Notifications

- Instant Notification
  - SMS, Email, Email with Snap, Call from App and Video Pop-up
- TCP Notification
  - Alerts using Bandwidth < 5Kbps
NVR Differentiators: Integration

• Readymade Integration with Popular Brands
• Interop with Third Party Camera
  • ONVIF, RTP/RTSP over TCP/UDP, HTTP Tunnelling for other Cameras
• Integration with Third Party System
  • Third Party System on Digital Ports
NVR Connectivity

IP Camera#1

IP Camera#64

Sensor Inputs
Audio Input
Audio Output
HDMI

Mobile User
Remote User
Email
SMS
NAS
FTP
Matrix DNS

Alarm Outputs
External HDD
Mouse
Keyboard
## NVR Selection Guide

<table>
<thead>
<tr>
<th>Feature</th>
<th>NVR0801X</th>
<th>NVR1601X</th>
<th>NVR1602X</th>
<th>NVR3202X</th>
<th>NVR3204X</th>
<th>NVR6404X</th>
<th>NVR6408X</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP Channels</td>
<td>8</td>
<td>16</td>
<td>16</td>
<td>32</td>
<td>32</td>
<td>64</td>
<td>64</td>
</tr>
<tr>
<td>HDMI Main</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Output</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Alarm</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Output</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SATA Ports</td>
<td>1 (10TB each)</td>
<td>1 (10TB each)</td>
<td>2 (10TB each)</td>
<td>4 (10TB each)</td>
<td>4 (10TB each)</td>
<td>8 (10TB each)</td>
<td></td>
</tr>
<tr>
<td>RAID Support</td>
<td>Single Disk</td>
<td>Single Disk</td>
<td>RAID-0, RAID-1</td>
<td>RAID-0, RAID-1</td>
<td>RAID-0,1,5,10</td>
<td>RAID-0,1,5,10</td>
<td>RAID-0,1,5,10</td>
</tr>
<tr>
<td><strong>Interfaces</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10/100/1000 Mbps Adaptive Interface</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>USB Ports</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>Throughput</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SATATYA NETRA: IP Cameras
IPC Differentiators: Low Light Performance

• High Performance at Low Light Conditions
• Sony STARVIS Sensor
IPC Differentiators: Greater Coverage (FOV)

- Capture Wider Field of Views with Fewer Cameras

Matrix: FOV 113°

Others: FOV 82°
IPC Differentiators: Consistent Performance

- Rectifies Overexposed and Underexposed Areas
- Sharper Image

Matrix: WDR On (120 dB)  
Others: WDR Off
IPC Differentiators: Storage

- H.265 Compression
  - Reduces up to 50% Bandwidth and Storage
- Edge Recording
  - Store 512GB on SD Card
- Adaptive Streaming
  - Switch to Lower Bitrate and FPS during No Motion/Activity
IPC Differentiators: Bandwidth

- Smart Streaming
  - Different Image Quality for Different Regions

- Quad Streaming
  - Four Different Streams for Recording, Local View, Mobile etc

- Region of Interest
  - Streams only Specified Areas

- Adaptive Streaming
  - Switch to Lower Bitrate and FPS during No Motion/Activity
IPC Differentiators: Video Analytics

Motion Detection
- Notification based on Motion

Intrusion
- Notification on Entering Virtual Areas

Tripwire
- Identify Motion on a Virtual Line
IPC Differentiators: Notifications

- SMS and Email Notifications
- Notifications for Predefined Events
- Snapshot
- Upload Image
- Alarm with Pre/post Recording
- Schedule Snapshot
IPC Connectivity
Dome Camera Range (Project Series)

- **DOME IP CAMERAS**
- **PROJECT SERIES**
- **PREMIUM**
  - **5MP**
    - 2.7mm - 13.5mm Motorized Varifocal
    - 2.8 - 12mm Motorized Varifocal
    - 2.8 - 12mm Motorized Varifocal
  - **3MP**
    - 2.8 - 12mm Motorized Varifocal
    - 3.6mm - 6mm
  - **2MP**
    - 2.8 - 12mm Motorized Varifocal
    - 3.6mm - 6mm
- **STANDARD**
  - **5MP**
    - 2.7mm - 13.5mm Motorized Varifocal
    - 2.8 - 12mm Motorized Varifocal
    - 2.8 - 12mm Motorized Varifocal
  - **3MP**
    - 2.8 - 12mm Motorized Varifocal
    - 3.6mm - 6mm
  - **2MP**
    - 2.8 - 12mm Motorized Varifocal
    - 3.6mm - 6mm
Dome Camera Range (Professional Series)
Bullet Camera Range (Project Series)
Bullet Camera Range (Professional Series)
PTZ Camera

- 32x Optical Zoom, 4.3-129mm Varifocal Lens
- 6 IR Array LEDs with 150m Distance
- 1 Audio Input and 1 Audio Output
- 2 Alarm Input and 1 Alarm Output
- Real time Alarm alerts
- IP67, TVS 4,000V Lightening Protection
- Inbuilt Video Analytics
Success Stories: NSE IT

• Challenges:
  • Real-time Security
  • Automated Health Reports
  • Centralized Monitoring
  • Storage Redundancy

• Solutions Offered:
  • Video Management System (SAMAS)

• Benefits:
  • Automated Summary Report
  • Address Alerts Quickly
  • Evidence Guarantee
  • Ease of Management

• Matrix Offering:
  • SAMAS for (250 Locations) with Dual ISP Support
Success Stories: LENSKART

• Challenges:
  • Centralized Monitoring and Control
  • Storage for More No. of Days
  • High Storage Costs

• Solutions Offered:
  • IP Cameras
  • Network Video Recorders (NVR)

• Benefits:
  • Prevention of Criminal Activities like Shoplifting, Vandalism, etc.
  • Enhanced Security
  • Employee Discipline
  • Centralized Control

• Matrix Offering:
  • IP Cameras: 200+
  • Recording Devices: 50+
Success Stories: TATA MOTORS

• Challenges:
  • Peripheral Security
  • False Alarms/Alerts
  • Common Platform for Multi-brand Cameras
  • Centralized Monitoring

• Solutions Offered:
  • Video Management System (SAMAS)
  • Hybrid Video Recorders (HVR)
  • IP Cameras

• Benefits
  • Higher Visibility and Productivity
  • Address Alert Quickly
  • Reduction of Operation Cost

• Matrix Offering:
  • IP Cameras: 40+
  • Recording Devices: 5+
SATATYA Customers

CORPORATE
• Samsung C&T
• TCS Technology
• SGI Corp
• Tata Technologies
• Raymond
• JaypeeKint Lab
• COX & KINGS
• Honda Trading Corporation
• Rustomjee
• Sterlite Technology
• Coromandel Fertilizer

EDUCATION
• IIT
• RBK International School
• NIFT
• Chitkara Group of Institute
• GITAM University
• GMERS College

MANUFACTURING
• Godrej Ware House
• Tata Motors
• Tata Chemicals
• General Electronics
• Schneider Electric

HOSPITALITY
• Hotel Royal Park
• Taj Group
• Taj Vivanta

MEDIA
• Network 18
• Times of India
• Matrimony.com
• Ramoji Film City

OTHERS
• Lenskart
• Tanishq
• Sanofi Pharma
• Deccan Chemicals
• Raheja Hospital
• NESCO
• BTI Payments
• Dnata Group
• Haldiram
• Ramdev Masala
• NSEIT
• Vedanta Group
• HEG
• AWHO Township
Why Matrix?

Indigenous R&D Centre

1 Million + Satisfied Customer

2,500 + Channel Partner

Technical Support
Who Are We

1 Million+ Customers
2,500+ Partners
60+ Products
50+ Countries
@Matrix Comsec

MatrixComSec

@Matrix_Comsec

@MatrixComSec
THANK YOU!

www.MatrixComSec.com