



Matrix Video Surveillance First Indian Company to Offer RDSO Compliant Cameras for Indian Railways

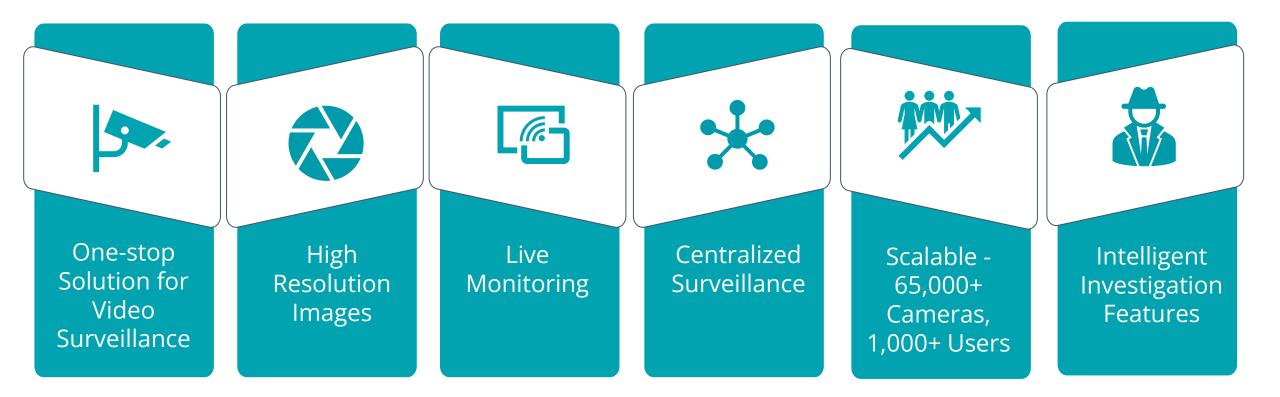
Why Matrix?





Why Matrix?





Customer Stories

CONTRACTOR OF ADDRESS OF

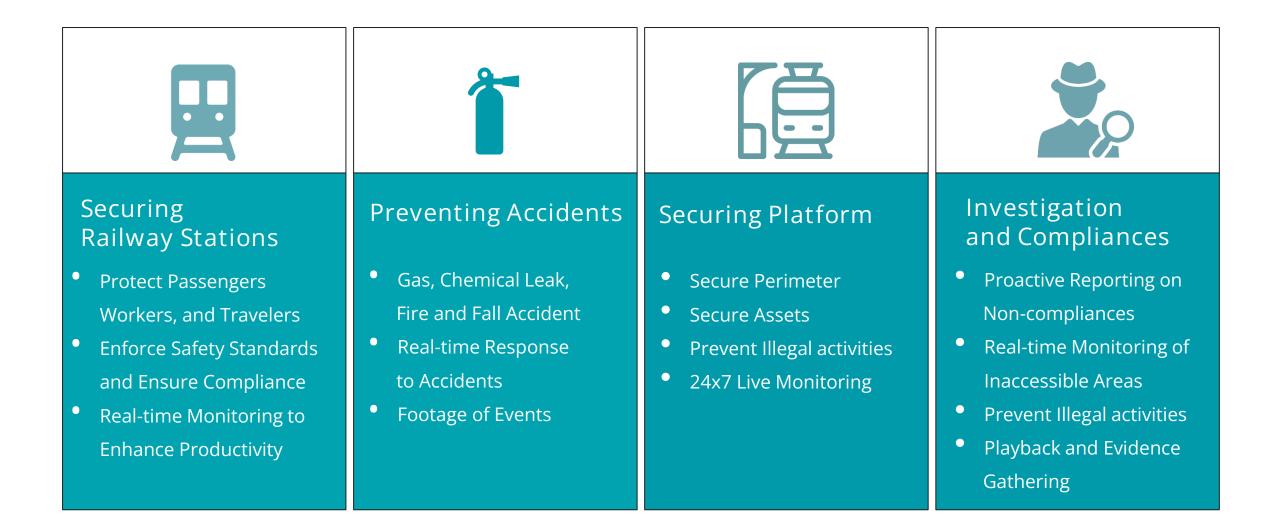
North Western Railway, Ajmer

Loco Workshop, Parel Mumbai

Western Railway, Kota Southern Railway, Chennai



Video Surveillance Challenges



Video Surveillance: Requirements



Data Security



Cyber Security in IP Cameras as Per OWASP ASVS 4.0 L2



Fault Detection and Notification (Camera, NVR, Storage, Network, and more



Network Security and Hacking-Proof



Vandal-Proof Cameras





Surveillance



Clear Picture Quality at any time of the Day, with Real-time Zoom-in

TELECOM | SECURITY



360° Surveillance, with Real-time Zoom-in and Notifications



Simultaneous Viewing of Workers, Operations and Passengers



Proactive Video Surveillance, Timely Action, Pop-ups, Configurable Event Actions



Centralized Surveillance



Monitor Multiple Locations Centrally Using NVRs Clustering Feature



Integration with Access Control and Fire Alarm Systems



Access from any Device Mobile, PC, and Laptop



Comprehensive Perimeter Intrusion Detection Systems (PIDS) to Safeguard Premises





Playback and Investigation



Video Storage for 30+ Days (Backup/Archival/Retrieval)



Playback and Investigation of Events, Incidents, Accidents



Snapshots and Video Proofs



Evidence Video/Audio Clips in Standard Formats





Video Analytics and Automation



Face Detection and Recognition



Vehicle Number Plate Recognition



Real-Time Alerts and Notifications



People Counting, Accident Detection, Loitering Detection





Additional Requirements



Advanced features like Vehicle Movement Tracking and Dayhighlights for Project Monitoring



Optimum Bandwidth and Storage Utilization



Reliable and Durable, Weatherproof Cameras



Flexibility to Optimize Existing Infrastructure and Scalability to Accommodate Future requirements





Productivity



Automatic Project Progress Monitoring



Quick Project Review (Dayhighlights



Remote Monitoring of the Project



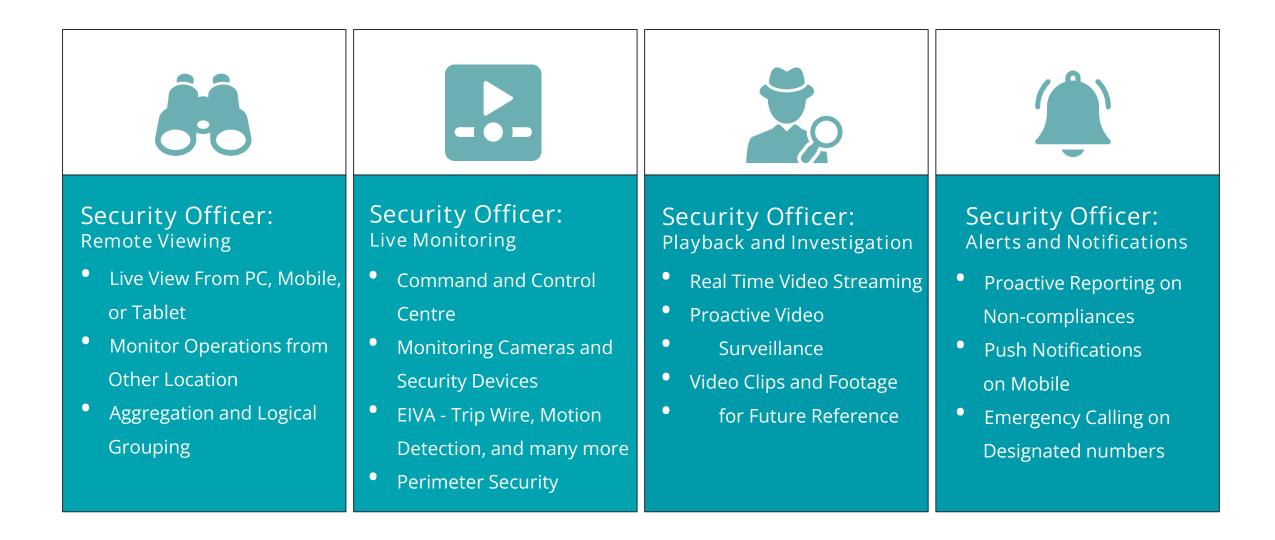
Realtime Guidance to Supervisor



Video Surveillance: Applications

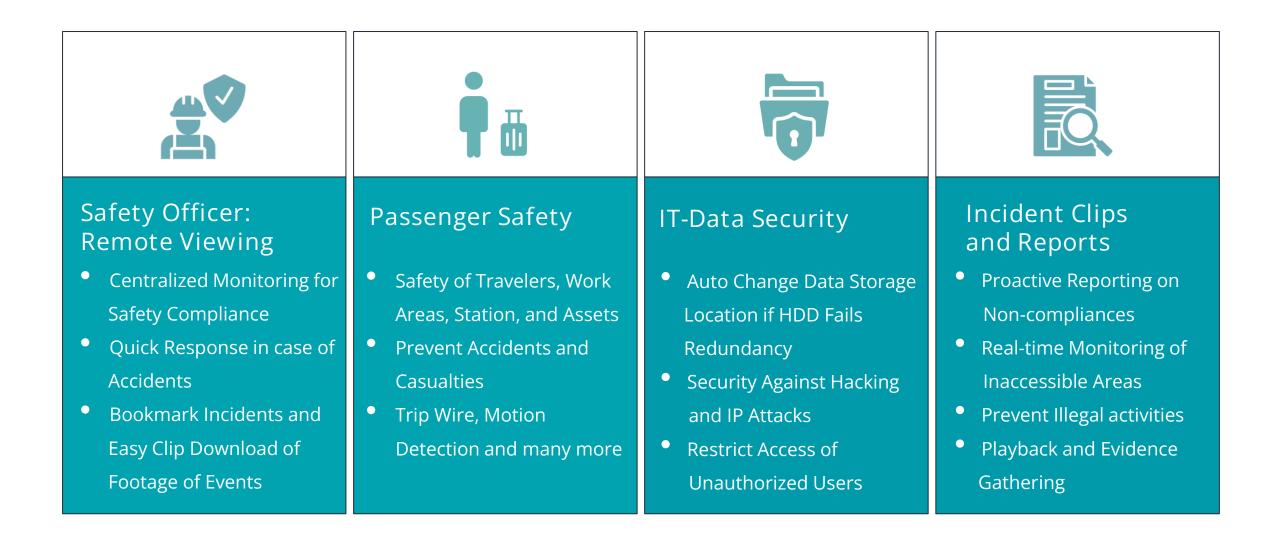


Customer Use Cases



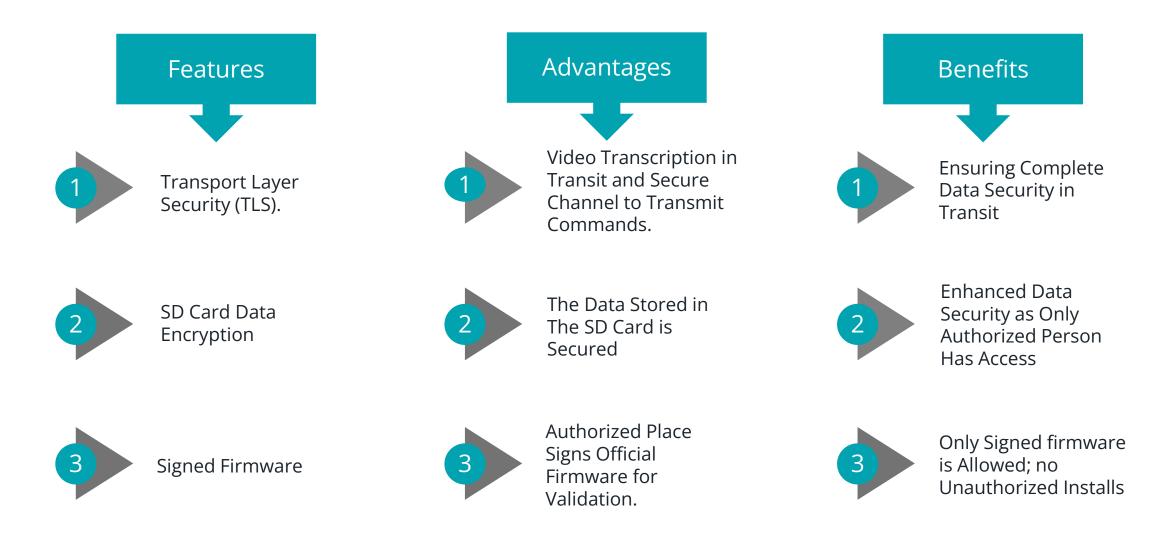


Customer Use Cases

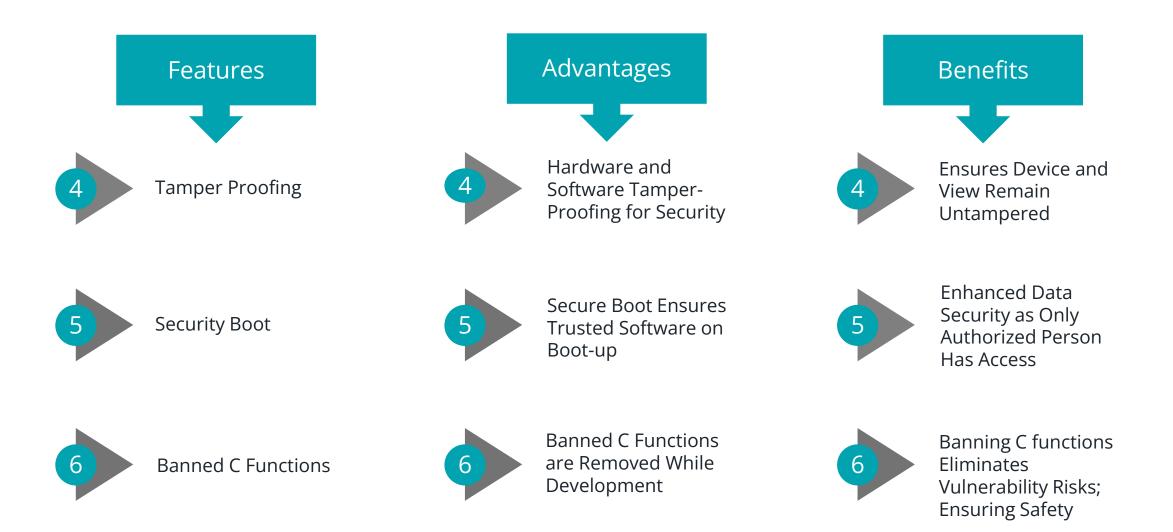


Cyber Security for Video Surveillance

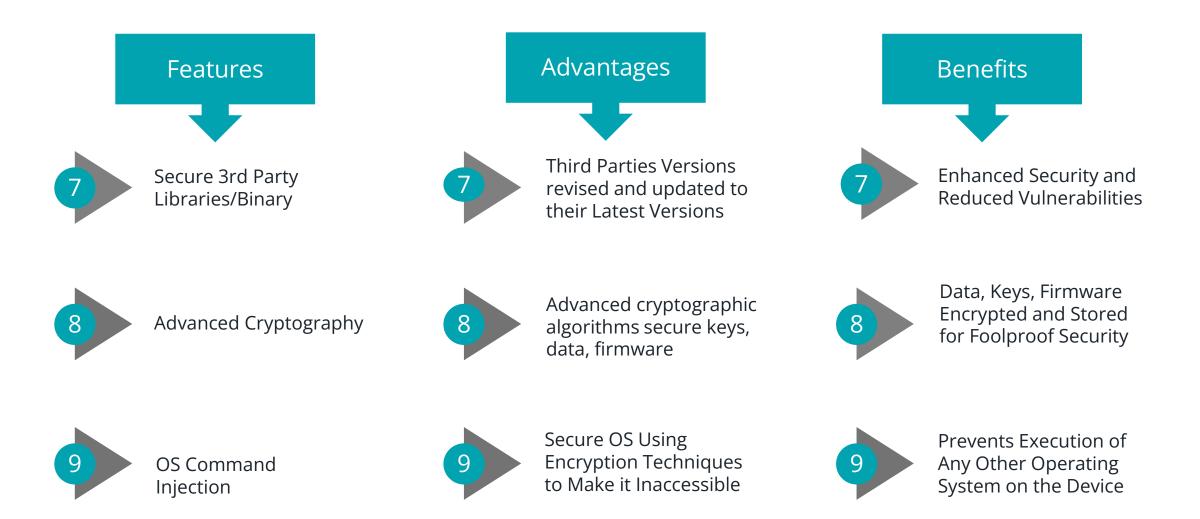




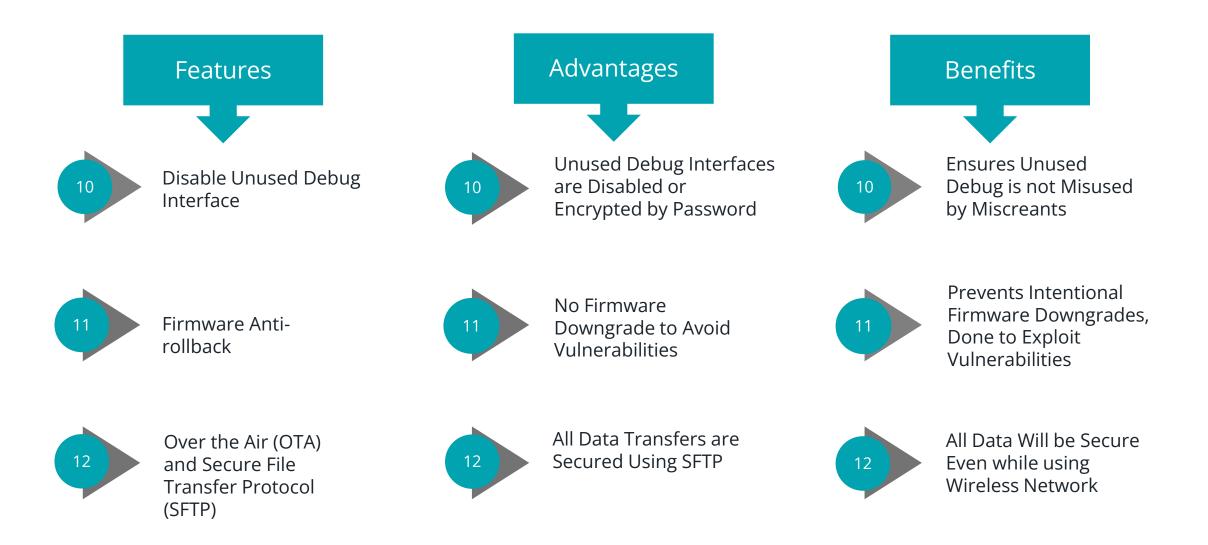












Video Surveillance: Matrix Building Blocks



Matrix VMS SATATYA SAMAS



- Highly Scalable Solution
- Houses 65,000+ Cameras,
- 65,000+ Users at 10,000 Locations



- Centralized Surveillance and Monitoring
- Hierarchical User Rights and Profiles



- Integration with Ancillary Security Devices
- Integrates with Access Control Devices



- Intelligent Investigation Features
- Advances Solutions like Parking Management, CREAM and More







Deep Learning Based High Accuracy Automatic Number Plate Recognition Algorithm



• Hassle-free Entry for Listed Vehicles

• Parking Guidance, and Slot Availability



- Alerts/Notifications on the Entry of Blacklisted Vehicles
- Wrong-way Detection, Haphazard Parking, and Unauthorized Parking



Matrix VMS SATATYA SAMAS

Matrix Enterprise Network Video Recorders





- 256 IP Camera Channel Support
- 144TB Storage Capacity





• 1Gbps Throughput Capacity



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12MP Camera Stream Support



• 4 Levels of Data Redundancy, Hot Swappable HDD and RAID Support 0,1,5,10

Matrix Network Video Recorders Extreme





This system supports up to 16 channels and has a storage capacity of 10 TB.





This is Perfect for Small Offices and Retail Spaces



You can cluster up to 20 NVRs to access all cameras in the NVR loop.



High Throughput Capabilities and Integrates well With Access Control Devices

Matrix Network Video Recorders - XS





Up to 64 Channel Support with a Storage Capacity of 10 TB





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

Matrix Network Cameras





Sony STARVIS Sensor for Superior Low Light Performance





Cyber Security as per OWASP ASVS 4.0 L2



P-IRIS for Precise Aperture control and High Reliability and Performance



512GB SD Card Support, Ensuring High Availability with N+1 Camera Redundancy





First CCTV Manufacturer to Achieve Cyber Security Certification by STQC, Delhi as per OWASP ASVS 4.0 L2

Reiterates Our Commitment to Providing Data Secure Surveillance at All Times



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



CONVENTIONAL CAMERAS

Superior Quality Images In Motion Ideal for Transport







Compact and Rugged Design Ideal for Space Constrained areas







Suitable for Extreme Conditions





Weather Resistant





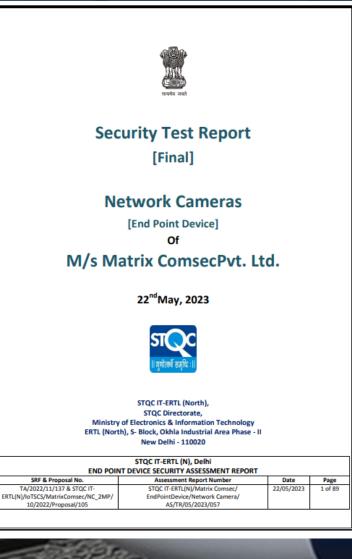


Vandal Proof

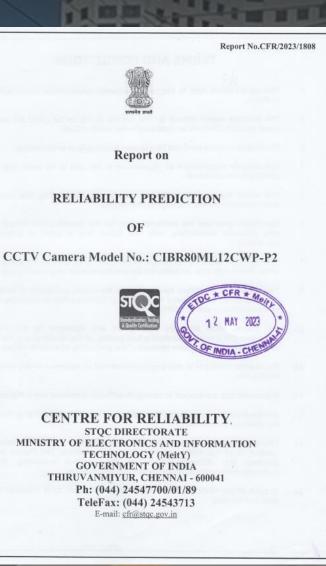


Tamper Proof

CERTIFICATES



And Soles	B-108, Industrial	Area, Phase- VIII, M	ohali (PB)-160071	
		TEST REPORT		
	Report No.		Dated	Page No.
	ETDC(MH)/T&M/007		21-08-2023	1 of 8
. Inde	iter	M/s MATRIX COMSEC PVT. LTD. 394, GIDC, Makarpura Vadodara, Gujarat-390010 (SRF No. 18891 dt. 08.05.2023)		
Desci	ription of sample(s)		()	
	nclature	: SATATYA I	DOME IP CAMERA	* (* ((182))*
2 Manu	facturer	: MATRIX COMSEC PVT. LTD.		
3 Mode	1	: SATATYA CIDR20MVL12CWP P2		
4 Sr. N).	: 10000341		
Branc	Brand Name, if any			
	Quantity of sample(s) : 01 No.			
Sample(s) received on : 08.05.2023				
Cond	ition of sample(s) on receipt	: Good		
Date(s)/Period item(s) tested	: 12.05.2023 to 10.08.2023		
	ion where test(s) carried out name and address)	: ETDC Mohali		
Reference of test method(s) used		: IS 9000 (II/III/IV) & IEC 60529		
Appli	cable product specification(s)	: RDSO/SPN/TC/65/2021, Version 6.0		
	tion(s), exclusion(s), addition(s method(s)) : Nil		
	o nmental conditions erature dity	: 25°C ± 10°C : 45% to 70%		
	Major Equipment Used :			
S.Ne		Make	Model	Cal. Validity
i	Measuring Scale Digital Vernier Caliper	Khyati	SS-01	March, 2024
iii	Climatic Test Chamber	Mitutoyo Vostch	500-142 C4-1500	July, 2024 Jan, 2024
iv	Thermo Hygro Meter	Victor	HTC-1	May, 2024
v	Light/ Lux Meter	Fluke	941	Sep, 2023



CYBER SECURED DEVICES REPORT FROM STQC, DELHI TYPE TEST OF DEVICES FROM STQC, MOHALI MTBF REPORT OF DEVICES FROM NABL LAB









Video Surveillance: Matrix Salient Features



Performance



SONY Make Image Sensor with Back Illumination Technology for Superior Images in Low Light



True WDR Ensures Clear Images with Uniform Illumination



Industry Best HFOV Allows Better Coverage with Fewer Cameras



Adaptive Streaming Reduces Bitrate When No Motion is Detected to Optimize Storage and Bandwidth



Data Secure Surveillance to Keep the Privacy of The Passengers



Storage



Adaptive and Smart Recording to Reduce Storage Consumption Without Missing Out Details



H.265 Compression for Video Streaming to Reduce Storage Consumption by 50%



512 GB Storage Support for Edge Recording which Records Data in Case of Network or Server Failure



Camera-wise Recording Retention Feature Allows Allotment of Higher Retention Days for Selected Cameras



RAID 0,1,5,10 Support Ensures Certain Level of Data Redundancy Ensuring Protection of Critical Data



Live Viewing, Alarms, and Notifications



Clustering of NVRs to Access all cameras Connected to the NVR Loop



Access Cameras from Your Lap-top, PC or Mobile. Instant Calling Via Mobile



Real-time Push Notifications and Alerts via SMS and e-mail, an e-mail with snapshot, Upload Image/Clip, and TCP Notifications



Intelligent video Analytics for Proactive Surveillance – Motion Detection, Tripwire, Intrusion Detection, and more



Cognitive Response Engine with Automated Monitoring (CREAM) allows to Configure Predefined Scenarios for Monitoring and Analysis



Playback and Investigation



Alarm Recording Can be Linked to Alarm Events Like – Motion, Tampering, Manual Trigger, Tripwire, Motion and Intrusion for Storage Optimization



Backup for Disaster Data Recovery for Data Security Against Theft, Vandalism, and Storage Corruption



Archival and Retrieval: Moving Data to that is No Longer in Use for Extended Retention at Reduced Cost



Evidence Lock & Bookmark Search - Snap-shot, Bookmark, and Clip Export Functions on Run-time as Proof



Complete System Redundancy - Network(ISP), Recording Server, and Storage. Higher Data Security with RAID 0,1,5,10



User Rights



The Surveillance Solution Supports upto 65,535 Users. Multi-User Simultaneous Login -Up to 1000 Users



Multiple User Profiles with Specific Login Rights.



Application-based Rights, Configuration Rights, Media Rights, Entity-based Rights, System Health Reports



Quick Updates - Camera Stream Status, Recording Status, Recording Stages, Latest Recorded Files and More



Seamless Third-party Device Integration



Intelligent Video Analytics



Motion and No-motion Detection



Intrusion, Tamper, Missing Object, Loitering Detection



Audio Exception and Object Counting



Object Counting



Tripwire and No Trip wire Detection



Vehicle Tracking and Parking Management



Automatic Number Plate Detection



Centralized Dashboard and Vehicle Locator



Tracking Vehicles and Real-time Status of Vehicles



Tracking Vehicle Movement and Vehicle Movement Statistics



ANPR Based Vehicle Access Control and Parking



Cognitive Response Engine



Real-time Push Notifications and Alerts



24x7x365 Consistent and Proactive Surveillance



Integrated Dynamic Security System



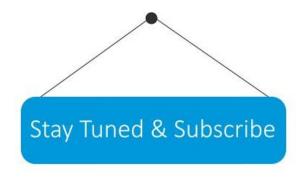
Automated Video Monitoring without Lapses



Integration with Ancillary Security Devices

Who We Are

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









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THANK YOU!



www.MatrixComSec.com