



The surge in demand for video analytics solutions can be attributed to multiple factors, including the increasing emphasis on security and safety, the imperative for businesses and government agencies to enhance operational efficiency, improved network infrastructure & the growing availability of video

A prominent challenge that has propelled the adoption of video analytics solutions the world over is the sheer magnitude of video data generated in contemporary times. The enormous volume of this data often poses difficulties in terms of processing and analysis, thereby resulting in missed opportunities and operational inefficiencies.

The global size of the video analytics market will rise over the forecasted period at a **Compound Annual Growth Rate** (CAGR) of 23% from **USD4.5 Bn** in 2020 to USD 35.6 Bn in 2030.

> **Strategic Market** Research



Take the Next Step Towards Transformation

Cutting-edge Video Analytics Solution from NEC

Video analytics can help **Reduce False Alarms** by up to 90%, resulting in **Faster Response Times** and Reduced Costs for security operations.

Frost and Sullivan

NEC Mi-Eye

Al and Machine Learning based video analytics solution, designed to extract real-time valuable insights from video streams. Empowers decision-makers with data-driven choices that drive enhanced efficiency, productivity, and profitability.

Critical actionable insights along with alarms enable businesses and government agencies to promptly take the most appropriate actions for proactive incident and threat management, saving lives, and ensuring safe working and living environments.

The powerful video analytics further empowers businesses to delve deep into employee and customer behaviours, understand patterns, and make informed intelligent decisions for long-term strategic planning that optimize operations and costs, and bolster security as well as their financial performance.



NEC

Gaining video-based Immersive Insights into your most critical business areas

Customer Behaviour

Gain insights into customer engagement with your products and services, and pinpoint opportunities for enhancement and improvements

Operational Efficiency

Diligent workflow monitoring to detect operational bottlenecks, and implement process optimizations to enhance efficiency and drive cost savings



Security and Safety

Real-time on-premise threat detection and post-incident investigation to develop robust response mechanisms that proactively identify and mitigate potential security threats, safeguarding assets and preserving employee safety

How NEC Mi-Eye Works

Respond

to incidents in Real-time
using Incident Management
System with Configurable
workflows and Automation

Detect

behaviour that deviates from the prescribed norms by applying **Multiple Al Models** on video streams from the existing **CCTV cameras**



Analyze

behavioural Patterns through the **BI-powered Dashboard**, that helps take **Data-driven Decisions** basis situational awareness



Real-Time Analytics

Receive real-time alerts and notifications, enabling quick and effective responses to potential security threats or operational issues



Predictive Analytics

Leverage comprehensive insights into trends and patterns, empowering decision-makers to adopt a proactive approach in optimizing workflows and enhancing customer experiences



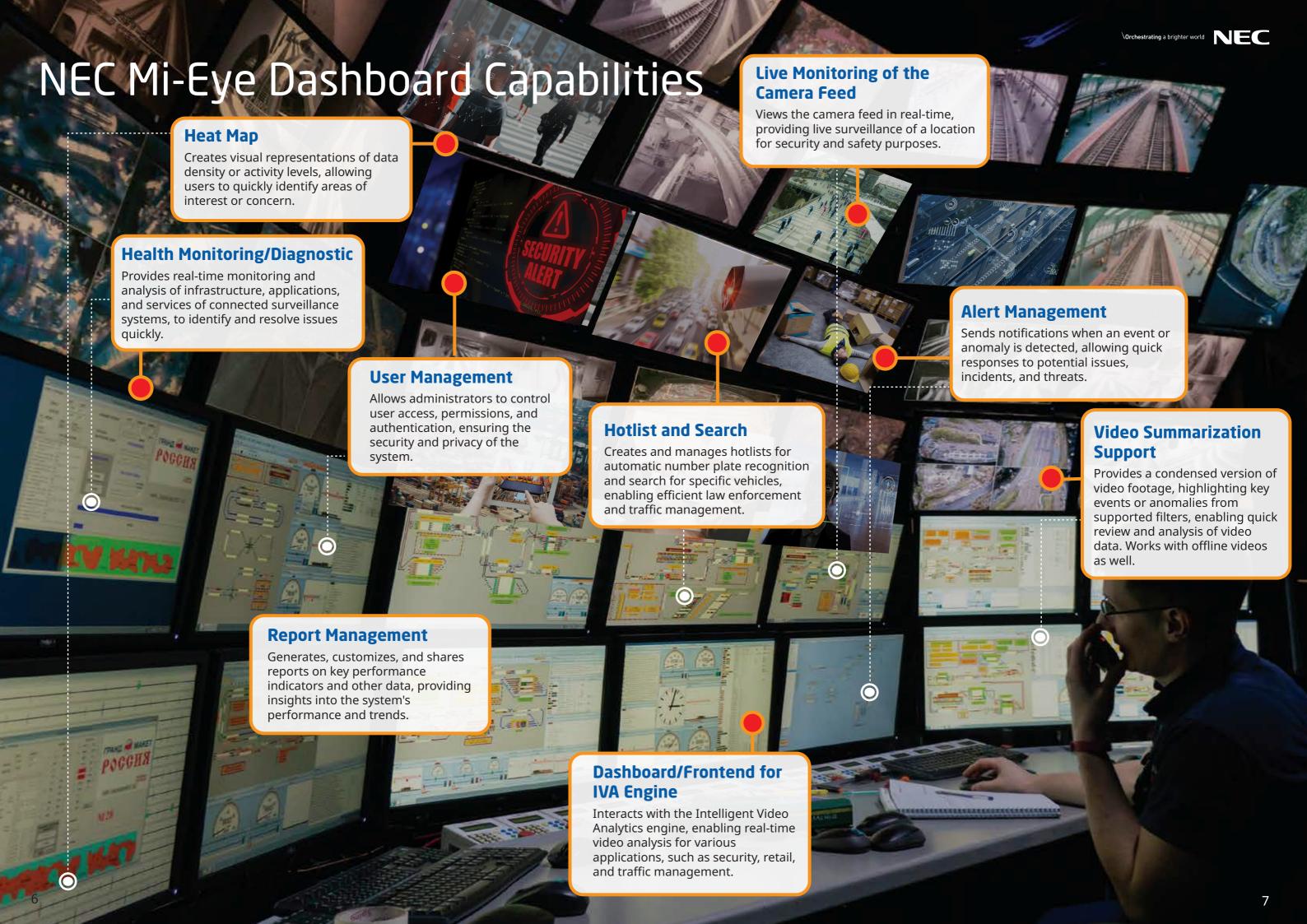
Data Privacy and Security

Paramount focus on data privacy and security, guaranteeing robust protection and confidentiality of all enterprise and government data through strong SSL security and other advanced encryption and decryption methods



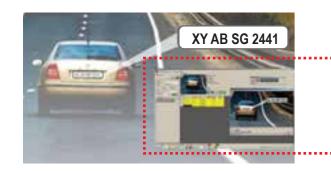
High Performance and Scalability

Highly resilient flexible solution that allows you to expand seamlessly in alignment with your evolving needs (both on-premise and hybrid models supported)





Vehicle Detection



Automated Number Plate Recognition (ANPR)

ANPR is an Image Processing/Computer Vision based technology which uses number (license) plate to identify the vehicle. Optical Character Recognition (OCR) recognizes the characters and converts the alphanumeric characters into text format after detection.

Microservice-based Analytics runs on the Intelligent Video **Analytics Platform**

Leveraging the Best Artificial Intelligence-based Techniques and Sophisticated Software **Algorithms**

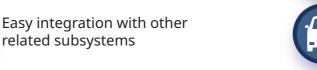


Advanced image processing and pattern recognition algorithms

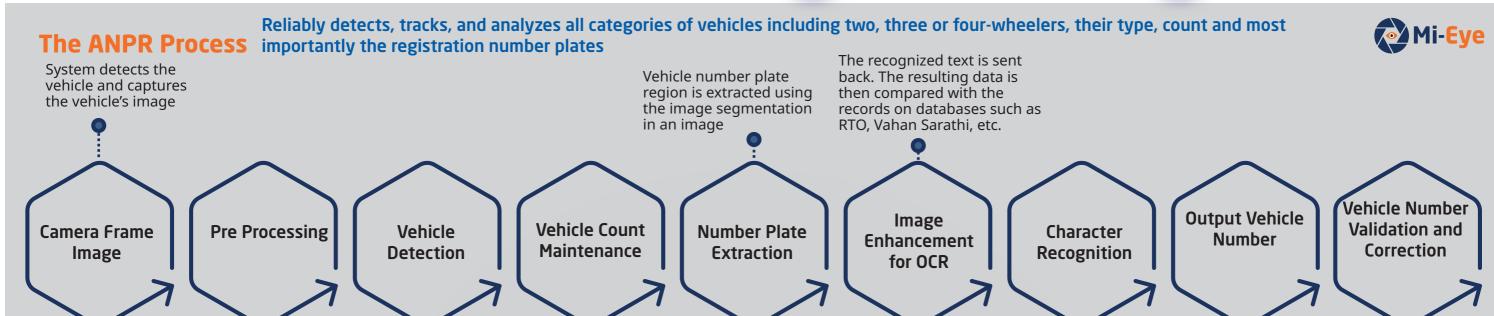
related subsystems



Real-time processing of moving vehicle images



Accurate and fast plate recognition



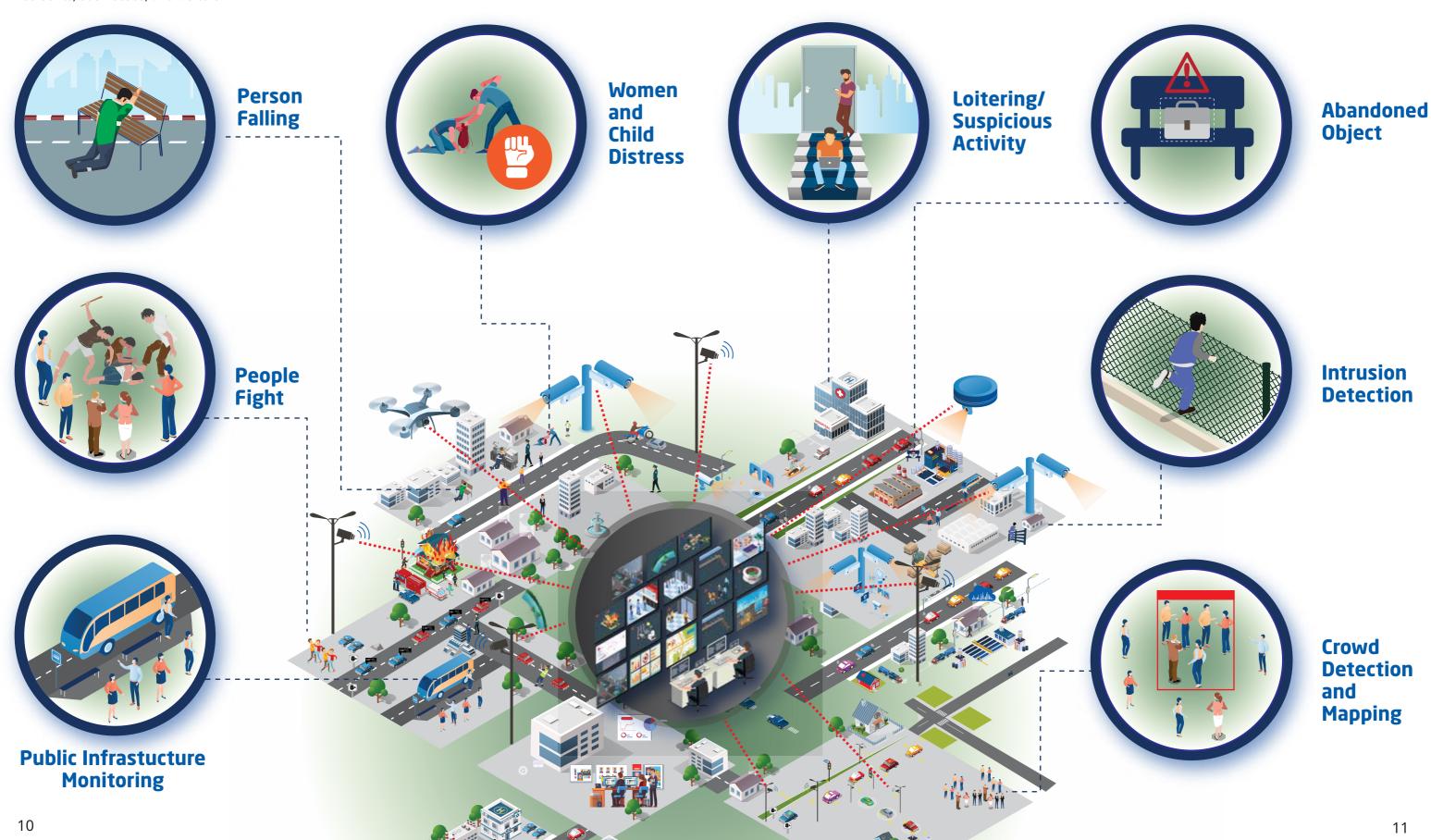




City Surveillance and Citizen Safety

Building Communities that Thrive on Safety and Prosperity

NEC Mi-Eye enables government bodies and law enforcing agencies to embrace the power of Intelligent Video Analytics to detect threats promptly, respond effectively, and ensure peace of mind to the city residents, businesses, and visitors.





Unlocking Infinite Possibilities: NEC Mi-Eye Adapts to the Enterprise Safety Vision

Transforming the Future of Enterprise Intelligence

In today's rapidly evolving business landscape, NEC Mi-Eye is revolutionizing how enterprises harness the potential of video data. In addition to safety of people and facility, it brings immense value through data-driven decision-making, customer insights and behaviour analysis, operational efficiency, and compliance.





Success Snapshot





Key Challenges

- Real-time visibility of operational metrics, according to role definition
- Better manpower utilization to reduce operational costs
- Worker safety and compliance



Solution

Revolutionized facility surveillance
with **NEC Mi-Eye** powered Cameras
for Real-Time Monitoring



Impact



Hazardous area monitoring



Real-time visibility of operational metrics



Cost and productivity optimization



Worker safety & compliance



Improved risk management people intrusion, movement near
conveyer belts and other
hazardous zones





Key Challenges

- **Gate Entry/Exit:** Managing truck entry, over speeding, controlling accidents via third party trucks
- **Operational Area:** Movement of trucks and people tracked manually, high incident rate without proper records
- Wharf Area: No visibility into pedestrian movement



Solution

Elevated facility surveillance through Real-Time Monitoring with NEC Mi-Eye

powered cameras

- Real-time violation detection and area-specific announcement through PA system
- Control room operator, safety supervisor alerted immediately on dashboard and handheld
- GIS map indicating the exact spot of violation
- Incident violation tracking from start to closure with appropriate action reporting



Impact Real-time Monitoring across the Terminal



Vehicle congestion



Vehicle stoppage



Pedestrian detection



Vehicle wrong lane



People safety



Intrusion detection

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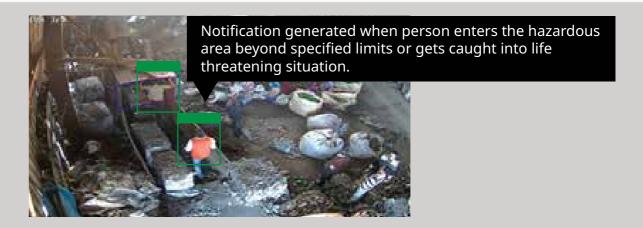


Live View of NEC Mi-Eye Use Cases for Real-time Facility Surveillance

Hazardous Area Monitoring

 Restricted Area **Violation**





People Safety



- Notification generated when person enters the line in ROI without helmet and/or jacket. The detected intruder is highlighted as shown.
 - Safety Violations Identify Non-construction Staff

Vehicle Congestion

• Traffic Violations



Pedestrian Detection

- Restricted Area Monitoring
- Off-time Security
- Theft Prevention



Vehicle Stoppage



Notification generated for a stopped vehicle/ group of vehicles detected in the ROI for more than the specified threshold time.

- No Parking Violations
- Suspicious **Vehicle Activity**

Vehicle Wrong Lane

Define the vehicle lane direction by drawing an arrow in the ROI. Notification generated when vehicle/group of vehicles traveling in opposite direction enter in ROI and is highlighted as shown.



Wrong Lane Driving



The NEC Mi-Eye Advantage

In-house Business and Domain Experts

- **Data Stewards**
- **Data Scientists**
- - Consultants & Data Analysts



Dedicated Analytics Research Labs

- 30+ Man-years of Domain Expertise
- Myriad of Successful Analytics Projects
- Expertise in Designing and Deploying Solutions

Strong Partnerships & Alliances

across Data Platforms and **Analytics Solutions**

Why NEC

NEC is a leader in the integration of IT and network technologies and brings more than 120 years of expertise in technological innovation to provide solutions for empowering people, businesses, and society.

We possess deep expertise in the design and implementation of NEC Mi-Eye, NEC's Intelligent Video Analytics Solution with Japanese brilliance that helps businesses unlock the full potential of their video footage and gain a competitive edge in their industry.











Established

160+ Countries

106K Employees

Patents



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