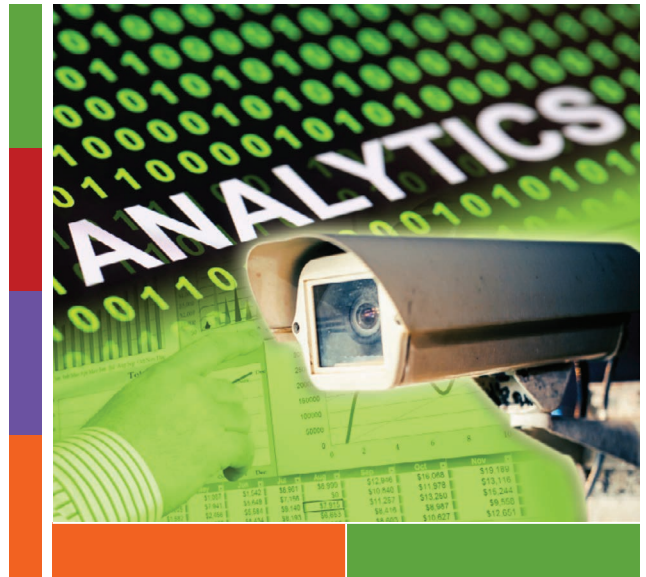


# Video-Analytics-as-a-Service



Surveillance videos contain a lot of useful information that is typically left untapped – but recent developments in video analytics can turn all that “live” or archived video into useful, actionable intelligence.

Video analytics involves the computerised processing and automatic analysis of video streams – whether live or recorded – to derive useful information about the content.

The benefits of video analytics are self-evident: it can reduce the need for human operators to view hours of camera images, and offer a more proactive approach to security by providing the most critical information at the right time. Today, it can be used for security, safety, people and traffic management, and event counting.

The NCS Video-Analytics-as-a-Service (VAaaS) is designed to analyse surveillance video, by using leading edge intelligence and analytics, and turning it into actionable intelligence – whether to strengthen security or as an essential business tool to help organisations streamline operations, improve monitoring and customer experience.

This cloud-based service requires just a simple set up to achieve intelligent monitoring using video analytics to help users gather data from real-time video analytics process, or post video analytics for archived data, and improve security through the use of automatic alerts.

Unlike other video analytics applications that require a heavy upfront investment, the NCS solution has a low monthly fee, and users are assured that they always have the most updated application, along with the flexibility to scale up as and when the need arises.

Options are available to optimise business operations, and streamline surveillance processes, allowing better insight into customer behaviours. With an access control system in place, the level of information available to each user can be controlled. The information is presented in easy-to-understand reports for an instant grasp of the situation.

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## CHALLENGES

- Surveillance videos contain untapped information that is useful.
- Surveillance by human operators is costly. There is too much data for them to process, and they are not consistently alert.
- Robust video analytics systems tend to have high costs.

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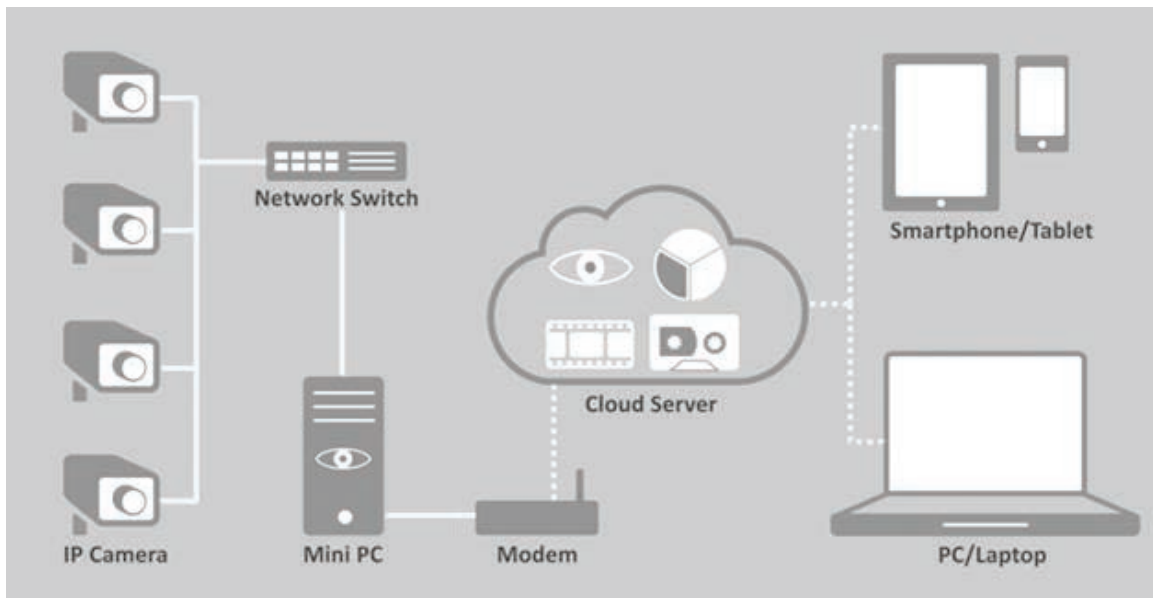
## SOLUTION

- A cloud-based video analytics unified platform that uses leading edge intelligence and analytics to turn live or archived video into actionable intelligence.

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## BENEFITS

- Cloud-based video analytics service with a simple set up and low monthly fee.
- Improved accuracy, real-time operations, and better utilisation of staffing and equipment resources.
- Multi-tenancy: Supports multiple accounts with different service types.
- Mobility support: videos and real-time alerts can be received on Android and iOS mobile devices.



## ENHANCING SURVEILLANCE

Enhance security through the use of video analytics, to detect and notify users when there are potential threats. It can help to heighten the security levels, reduce manpower requirements, and to reduce investigation efforts.

### Intrusion Detection

- Detect movements within user-defined zone
- Trigger alerts when movements are detected

### Perimeter Defense

- Detect when people or objects cross user-defined boundaries
- Trigger alerts when boundaries are crossed
- Generate report on boundaries crossed by time

### Camera Tampering

- Detect lost video, loss of connection, camera obstruction, or image blurred
- Generate reports on problematic cameras
- Provide views of video streams and other event details

### Loitering Detection

- Detect objects that enter a specified zone
- Track individual objects by time spent within the zone
- Trigger alerts if the time goes beyond set parameters

### Trip Wire Counting

- Count objects within specific area
- Trigger alerts when object count goes beyond set parameters

## BOOSTING OPERATIONAL EXCELLENCE

Provide business intelligence by converting videos into quantifiable business data such as visitor profile and traffic flow.

This helps to improve ROI from monitoring systems, enables the harnessing of business information and optimises resource planning.

### Human Traffic Flow

- Detects and records people movement within specific area
- Generate maps to display zones with higher or lower people traffic

### People Counting

- Count the number of people in specific zones
- Trigger alerts when people count goes beyond set parameters
- Generate reports based on people count across time

### Crowd Density

- Detect crowd density and reports accordingly
- Categorise into group size
- Generate crowd density reports by time periods

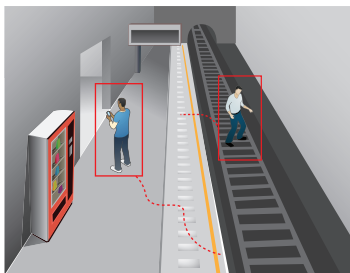
### Audience Profiling

- Detect and capture faces
- Analyse faces for age, gender, and smiles
- Generate audience profiling reports

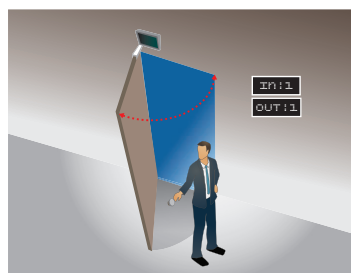
### Face Indexing

- Detect faces
- Archive snapshot of faces

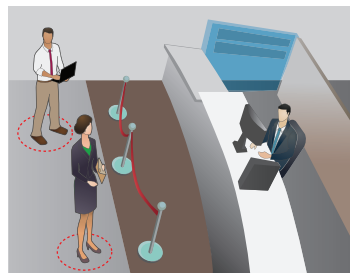
Perimeter Fencing



Counting



Human detection



Intrusion

