

Brochure

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# Automated intelligent surveillance

The HP Surveillance solution for airports



## Key differentiators

- **Real world video analytics:** Rely on battle-hardened analytics used by numerous military and intelligence agencies; intelligent scene analysis, facial recognition, and audio analytics that work in the real world; and algorithms that automatically take care of issues such as illumination changes, foliage growth, complex scenes, and more.
- **Sharpen your focus on what matters:** While no real event should be missed, our technology can help prioritize attention and reduce the risk of missing high probability incidents with an easy to use and extremely flexible configuration tool to enable operators to define what they are looking for, and a self-learning algorithm to reduce false alerts over time.
- **Integrated search and analytics:** An easy to use search capability leverages the power of HP IDOL to identify events.
- **Federated architecture:** Monitor and operate CCTV cameras and alarms at both local unit levels and at a centralized command center across multiple facilities.
- **Holistic situational awareness:** Automatic setup and alerting to events provides the ability to combine both structured and unstructured information for a more complete picture.

## Automatically analyze video footage

Airports are faced with myriad threats, both existing and emerging, that can lead to catastrophic consequences. To combat these pressures, surveillance cameras spread across airport facilities are continuously feeding massive amounts of images to a command and control center that is typically monitored by human operators. But the deluge of data coming in from surveillance cameras can easily overwhelm airport operators using manual processes, which only exposes you to increased security risks.

When manual processes are used, gaps exist that perpetrators can exploit, as evidenced by the 2014 intrusion at the Mineta San Jose Airport. Although the perpetrator was actually caught on video, the person was not noticed by security personnel, which demonstrates that the weakest link in airport security might just be the perimeter fencing, not the terminal itself. Fortunately, the intruder at San Jose was just a stowaway and not a terrorist.

More and more, airport safety officers are using video to detect events in real time to quickly and effectively investigate, respond, and pull together evidence after an event. With the HP Surveillance solution for airports, you can easily integrate video footage from any source, and enrich it with automated analysis that helps you discover issues faster.

When issues arise, it's essential to identify and mitigate risks correctly and in the shortest possible timeframe. Because airport closures can severely disrupt air traffic on a wide scale and have a disastrous financial impact, it's important to be able to gather critical facts about an incident and accelerate the investigation. HP Surveillance allows you to search through footage for activity, objects, and events of interest, so you can reduce closure time after a security event.

## Meet traditional challenges

A few of the challenges that can hinder airport security include the following:

- Lost time spent searching through surveillance videos from police, public, and private cameras using manual processes
- Loss of significant revenue due to airport closures and flight cancellations when events such as accidents or security breaches require investigation time
- Limited effectiveness of live human monitoring of CCTV cameras due to shortfalls in human concentration span
- Elevated risk of missing out on thousands of events on cameras that are not actively monitored
- Limited ability to connect the dots in an investigation that relies on manual analysis

## Improve overall surveillance operations

HP Surveillance for airports easily integrates into any existing security infrastructure, which elevates its effectiveness in spotting and reacting to suspicious activities and/or personnel while minimizing the risk of disruptive false alarms, and shortening investigative time by:

- Automating real-time analysis of video, audio, and text data and performing data fusion to deliver holistic intelligence
- Enabling activity profiles and alerts to achieve intelligent workflow





## Real-time 360-degree airport intelligence

You can quickly and more effectively assess your risk level with HP Surveillance helping you to put the puzzle pieces together. Here are a few of the ways you can facilitate a higher level of airport security:

1. **Scene analysis** – Use video feeds from various airport locations to detect suspicious activities and enable automated people counting for irregular flow analysis
2. **Facial recognition** – Detect suspicious activities associated with a person of dubious background
3. **License plate and vehicle recognition** – Detect suspicious vehicles and/or a vehicle registered to suspicious person(s) identified by facial recognition
4. **Text analytics** – Use social media and/or other textual communications to detect criminal tendency
5. **Audio signature recognition** – Detect unusual noises (e.g., gunshot) where a person and/or vehicle of interest is present

### Automated workflow and alert triggers

HP video analytics can automatically detect and alert on hundreds of different scenarios that airport officers might be interested in, but do not have the bandwidth to actively monitor. You can also detect suspicious activity and get real-time alerts from thousands of currently unmonitored cameras.

### Accelerate investigative search in long video footage

Now you can check when a person was present in a restricted area just by searching for a “person.” The solution will return all the time instances when a person was present, which can then be reviewed for authorized or unauthorized access behavior. This typically reduces the review time for a 24-hour video to less than an hour.

### Work with video from public CCTV sources and on impounded hard drives

Video fed from other sources like private CCTV cameras (e.g., retail stores, hotels around an airport) can easily be ingested and time-synced with the rest of your CCTV footage for a complete overview of events in a given time frame, to reduce overall investigation time.

### Use tagged content as evidence in courts

We help you to maintain the evidential trail, keeping all content secure, with an audit trail of accesses. Whether the video is primary evidence as with live streams, or secondary evidence in the case of “bit for bit” ingested recordings, the strength of the evidence is maintained for court use.

### Key benefits

- Enable data fusion by ‘connecting the dots’ to deliver holistic situational awareness
- Use hundreds of currently unmonitored cameras by detecting suspicious activity in real time
- Augment human operators by allowing them to more efficiently monitor high security cameras for events
- Cut investigation time by an order of magnitude through intelligent analytics
- Increase revenue through increased customer satisfaction and a better understanding of passenger demographics



## Increase network safety

HP Surveillance can help you detect issues such as perimeter breaches and suspicious activities around aircrafts. You can also perform surveillance activities in other areas, including:

- **Terminal safety** – Track unattended packages, people going off the end of an airport train platform, unusual people movements, missing children, and overcrowding
- **Restricted areas** – Check for perimeter intrusion, secure zone breaches, facial recognition at entry and exit points, and vandalism alerts
- **Entry/exit roads and parking lots** – Detect blocking of emergency exits, stopped and abandoned vehicles, and parking violations

## Increase revenue and improve operations through advanced analytics

With video analytics capabilities, HP Surveillance allows you to automatically detect and send alerts on hundreds of different scenarios, so you can get the most out of limited resources, freeing up staff that may not have the time available to dedicate to active monitoring.

- **Customer service** – Identify long queues at security, immigration, custom checkpoints or overcrowding in terminals, on curbs, and transport platforms to optimize network frequency and design
- **Customer segmentation** – Understand demographics and age range of people using airport facilities and retail services to support marketing and/or communication campaigns by airport operators or merchants
- **Traffic flow** – Understand how people and vehicles flow through the airport at peak and non-peak times to improve flow and routing

## Confront threats intelligently

Airport security officers need a holistic view of events and the threats around them. The HP Surveillance solution for airports provides the ability to correlate and analyze data gained from multiple sources, so you can adopt an intelligent approach to security. Using this solution, airport security analysts can reduce the time spent on investigating cases and increase their effectiveness by improving detection of suspicious activities in real time.

## Learn more at

<http://www.autonomy.com/products/surveillance>

## About HP Autonomy

HP Autonomy is a global leader in software that processes unstructured human information, including social media, email, video, audio, text, web pages, and more. Using HP Autonomy's information management and analytics technologies, organizations can extract meaning in real time from data in virtually any format or language, including structured data. A range of purpose-built market offerings help organizations drive greater value through information analytics, unified information access, archiving, eDiscovery, enterprise content management, data protection, and marketing optimization.

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